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1.7 java-uuid-generator 3.1.0

1.8 jaxen 1.1.1
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### 2.4 aaa-authn-cfg 0.1.3-Helium-SR3

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2.5 aaa-authn-federation 0.1.3-Helium-SR3

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**2.6 aaa-authn-idpmapping 0.1.3.Helium-SR3**

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### 2.7 aaa-authn-odl-plugin 0.1.3-Helium-SR3

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2.8 aaa-authn-sssd 0.1.3-Helium-SR3

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2.9 aaa-authn-store 0.1.3-Helium-SR3

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2.10 aaa-authn-sts 0.1.3-Helium-SR3

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2.11 aaa-feature-aaa-xml 0.1.3-Helium-SR3

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2.12 aaa-idmlight 0.1.3-Helium-SR3

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2.51 controller-config-manager 0.2.8-Helium-SR3

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2.53 controller-config-persister-api 0.2.8-Helium-SR3

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2.54 controller-config-persister-directory-xml-adapter 0.2.8-Helium-SR3

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2.57 controller-config-persister-impl 0.2.8-Helium-SR3

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2.64 controller-features-restconf 1.1.3-
Helium-SR3
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2.65 controller-ietf-netconf-monitoring 0.2.8-Helium-SR3

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2.66 controller-ietf-netconf-monitoring-extension 0.2.8-Helium-SR3

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2.67 controller-karaf-branding 1.0.3-Helium-SR3
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2.68 controller-md-sal-config 1.1.3-Helium-SR3

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2.69 controller-netconf-api 0.2.8-Helium-SR3

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2.70 controller-netconf-auth 0.2.8-Helium-SR3

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2.71 controller-netconf-client 0.2.8-Helium-SR3

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2.72 controller-netconf-config 0.2.8 Helium-SR3

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2.73 controller-netconf-config-dispatcher

0.2.8 Helium-SR3

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**2.74 controller-netconf-connector-config**

**0.2.8-Helium-SR3**

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2.76 controller-netconf-mapping-api 0.2.8-Helium-SR3

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2.78 controller-netconf-util 0.2.8-Helium-SR3
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2.79 controller-netty-event-executor-config

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2.80 controller-netty-timer-config 0.2.8-Helium-SR3

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2.81 controller-opendaylight-karaf-resource
1.4.5-Helium-SR3
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2.82 controller-protocol-framework 0.5.3-Helium-SR3

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2.83 controller-sal-akka-raft 1.1.3-Helium-SR3

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2.84 controller-sal-binding-api 1.1.3-Helium-SR3

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Helium-SR3

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Helium-SR3

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2.88 controller-sal-clustering-commons 1.1.3-Helium-SR3

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2.89 controller-sal-clustering-config 1.1.3-Helium-SR3

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**2.90 controller-sal-common 1.1.3-Helium-SR3**

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2.92 controller-sal-common-impl 1.1.3-Helium-SR3
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2.102 controller-sal-netconf-connector 1.1.3-Helium-SR3

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2.103 controller-sal-remote 1.1.3-Helium-SR3
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2.104 controller-sal-remotepc-connector

1.1.3-Helium-SR3

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2.105 controller-sal-rest-connector 1.1.3-Helium-SR3

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2.107 controller-sal-rest-docgen 1.1.3-Helium-SR3

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2.108 controller-shutdown-api 0.2.8-Helium-SR3

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2.110 controller-threadpool-config-api 0.2.8-Helium-SR3

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2.124 JLEdit :: Core 0.2.1

2.125 jline-jar 2.11

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 */

package jline.console.completer;

import java.util.ArrayList;
import java.util.Arrays;
import java.util.Collection;
import java.util.LinkedList;
import static jline.internal.Preconditions.checkNotNull;

/**
 * Completer which contains multiple completers and aggregates them together.
 * @author Jason Dillon</a>
 * @since 2.3
 */
public class AggregateCompleter implements Completer {
    private final List<Completer> completers = new ArrayList<Completer>();

    public AggregateCompleter() {
        // empty
    }

    /**
     * Construct an AggregateCompleter with the given collection of completers.
     * The completers will be used in the iteration order of the collection.
     *
     * @param completers the collection of completers
     */
    public AggregateCompleter(final Collection<Completer> completers) {
        checkNotNull(completers);
        this.completers.addAll(completers);
    }

    /**
     * Construct an AggregateCompleter with the given completers.
     * The completers will be used in the order given.
     *
     * @param completers the completers
     */
    public AggregateCompleter(final Completer... completers) {
        this(Arrays.asList(completers));
    }

    /**
     * Retrieve the collection of completers currently being aggregated.
     *
     * @return the aggregated completers
     */
    public Collection<Completer> getCompleters() {
        return completers;
    }

    /**
     * Perform a completion operation across all aggregated completers.
     *
     * @see Completer#complete(String, int, java.util.List)
     * @return the highest completion return value from all completers
     */
    public int complete(final String buffer, final int cursor, final List<CharSequence> candidates) {
        // buffer could be null
        checkNotNull(candidates);
List<Completion> completions = new ArrayList<Completion>(completers.size());

// Run each completer, saving its completion results
int max = -1;
for (Completer completer : completers) {
    Completion completion = new Completion(candidates);
    completion.complete(completer, buffer, cursor);

    // Compute the max cursor position
    max = Math.max(max, completion.cursor);
    completions.add(completion);
}

// Append candidates from completions which have the same cursor position as max
for (Completion completion : completions) {
    if (completion.cursor == max) {
        candidates.addAll(completion.candidates);
    }
}
return max;

/**
 * @return a string representing the aggregated completers
 */
@Override
public String toString() {
    return getClass().getSimpleName() + "{" +
            "completers=" + completers +
            "}";
}

private class Completion {
    public final List<CharSequence> candidates;
    public int cursor;

    public Completion(final List<CharSequence> candidates) {
        checkNotNull(candidates);
        this.candidates = new LinkedList<CharSequence>(candidates);
    }

    public void complete(final Completer completer, final String buffer, final int cursor) {
        checkNotNull(completer);
    }
}
this.cursor = completer.complete(buffer, cursor, candidates);
})
}
}
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*/
package jline.console.completer;

import jline.internal.Log;

import java.util.ArrayList;
import java.util.Arrays;
import java.util.Collection;
import java.util.LinkedList;
import java.util.List;
import static jline.internal.Preconditions.checkNotNull;

/**
 * A { @link Completer} implementation that invokes a child completer using the appropriate <i>separator</i> argument.
 * This can be used instead of the individual completers having to know about argument parsing semantics.
 *
 * @author <a href="mailto:mwp1@cornell.edu">Marc Prud'hommeaux</a>
 * @author <a href="mailto:jason@planet57.com">Jason Dillon</a>
 * @since 2.3
 */
public class ArgumentCompleter
    implements Completer {

    private final ArgumentDelimiter delimiter;

    private final List<Completer> completers = new ArrayList<Completer>();

    private boolean strict = true;

    /**
     * Create a new completer with the specified argument delimiter.
     *
     * @param delimiter The delimiter for parsing arguments
     * @param completers The embedded completers
     */

public ArgumentCompleter(final ArgumentDelimiter delimiter, final Collection<Completer> completers) {
    this.delimiter = checkNotNull(delimiter);
    checkNotNull(completers);
    this.completers.addAll(completers);
}

/**
 * Create a new completer with the specified argument delimiter.
 *
 * @param delimiter The delimiter for parsing arguments
 * @param completers The embedded completers
 */
public ArgumentCompleter(final ArgumentDelimiter delimiter, final Completer... completers) {
    this(delimiter, Arrays.asList(completers));
}

/**
 * Create a new completer with the default {@link WhitespaceArgumentDelimiter}.
 *
 * @param completers The embedded completers
 */
public ArgumentCompleter(final Completer... completers) {
    this(new WhitespaceArgumentDelimiter(), completers);
}

/**
 * Create a new completer with the default {@link WhitespaceArgumentDelimiter}.
 *
 * @param completers The embedded completers
 */
public ArgumentCompleter(final List<Completer> completers) {
    this(new WhitespaceArgumentDelimiter(), completers);
}

/**
 * If true, a completion at argument index N will only succeed
 * if all the completions from 0-(N-1) also succeed.
 */
public void setStrict(final boolean strict) {
    this.strict = strict;
}

/**
 * Returns whether a completion at argument index N will succeed
 * if all the completions from arguments 0-(N-1) also succeed.
 * @return True if strict.
 * @since 2.3
/**
 * public boolean isStrict() {
 *     return this.strict;
 * }
 *
 /**
 * @since 2.3
 * */
 public ArgumentDelimiter getDelimiter() {
     return delimiter;
 }

/**
 * @since 2.3
 * */
 public List<Completer> getCompleters() {
     return completers;
 }

public int complete(final String buffer, final int cursor, final List<CharSequence> candidates) {
    return completers;
 }

ArgumentDelimiter delim = getDelimiter();
ArgumentList list = delim.delimit(buffer, cursor);
int argpos = list.getArgumentPosition();
int argIndex = list.getCursorArgumentIndex();

if (argIndex < 0) {
    return -1;
}

Completer completer;
// if we are beyond the end of the completers, just use the last one
if (argIndex >= completers.size()) {
    completer = completers.get(completers.size() - 1);
} else {
    completer = completers.get(argIndex);
}

// ensure that all the previous completers are successful before allowing this completer to pass (only if strict).
for (int i = 0; isStrict() && (i < argIndex); i++) {
    Completer sub = completers.get(i >= completers.size() ? (completers.size() - 1) : i);
    String[] args = list.getArguments();
    String arg = (args == null || i >= args.length) ? "" : args[i];
List<CharSequence> subCandidates = new LinkedList<CharSequence>();

if (sub.complete(arg, arg.length(), subCandidates) == -1) {
    return -1;
}

if (subCandidates.size() == 0) {
    return -1;
}

int ret = completer.complete(list.getCursorArgument(), argpos, candidates);

if (ret == -1) {
    return -1;
}

int pos = ret + list.getBufferPosition() - argpos;

// Special case: when completing in the middle of a line, and the area under the cursor is a delimiter,
// then trim any delimiters from the candidates, since we do not need to have an extra delimiter.
//
// E.g., if we have a completion for "foo", and we enter "f bar" into the buffer, and move to after the "f"
// and hit TAB, we want "foo bar" instead of "foo  bar".

if ((cursor != buffer.length()) && delim.isDelimiter(buffer, cursor)) {
    for (int i = 0; i < candidates.size(); i++) {
        CharSequence val = candidates.get(i);

        while (val.length() > 0 && delim.isDelimiter(val, val.length() - 1)) {
            val = val.subSequence(0, val.length() - 1);
        }

        candidates.set(i, val);
    }
}

Log.trace("Completing ", buffer, " (pos=", cursor, ") with: ", candidates, ": offset=", pos);

    return pos;
}

/**
 * The {ArgumentCompleter.ArgumentDelimiter} allows custom breaking up of a {String} into
 * individual
 * arguments in order to dispatch the arguments to the nested {Completer}.
 */
public static interface ArgumentDelimiter
{
  /**
   * Break the specified buffer into individual tokens that can be completed on their own.
   *
   * @param buffer    The buffer to split
   * @param pos       The current position of the cursor in the buffer
   * @return          The tokens
   */
  ArgumentList delimit(CharSequence buffer, int pos);

  /**
   * Returns true if the specified character is a whitespace parameter.
   *
   * @param buffer    The complete command buffer
   * @param pos       The index of the character in the buffer
   * @return          True if the character should be a delimiter
   */
  boolean isDelimiter(CharSequence buffer, int pos);
}

/**
 * Abstract implementation of a delimiter that uses the isDelimiter method to determine if a particular
 * character should be used as a delimiter.
 *
 * @author <a href="mailto:mwp1@cornell.edu">Marc Prud'hommeaux</a>
 */
public abstract static class AbstractArgumentDelimiter
  implements ArgumentDelimiter
  {
    // TODO: handle argument quoting and escape characters
    private char[] quoteChars = {'\', '"'};
    private char[] escapeChars = {'\'};

    public void setQuoteChars(final char[] chars) {
      this.quoteChars = chars;
    }

    public char[] getQuoteChars() {
      return this.quoteChars;
    }

    public void setEscapeChars(final char[] chars) {
      this.escapeChars = chars;
    }
public char[] getEscapeChars() {
    return this.escapeChars;
}

public ArgumentList delimit(final CharSequence buffer, final int cursor) {
    List<String> args = new LinkedList<String>();
    StringBuilder arg = new StringBuilder();
    int argpos = -1;
    int bindex = -1;

    for (int i = 0; (buffer != null) && (i <= buffer.length()); i++) {
        // once we reach the cursor, set the
        // position of the selected index
        if (i == cursor) {
            bindex = args.size();
            // the position in the current argument is just the
            // length of the current argument
            argpos = arg.length();
        }

        if ((i == buffer.length()) || isDelimiter(buffer, i)) {
            if (arg.length() > 0) {
                args.add(arg.toString());
                arg.setLength(0); // reset the arg
            }
        } else {
            arg.append(buffer.charAt(i));
        }
    }

    return new ArgumentList(args.toArray(new String[args.size()]), bindex, argpos, cursor);
}

/**
 * Returns true if the specified character is a whitespace parameter. Check to ensure that the character is not
 * escaped by any of { @link #getQuoteChars }, and is not escaped by ant of the { @link #getEscapeChars }, and
 * returns true from { @link #isDelimiterChar }.
 * @param buffer    The complete command buffer
 * @param pos       The index of the character in the buffer
 * @return          True if the character should be a delimiter
 */
public boolean isDelimiter(final CharSequence buffer, final int pos) {
    return !isQuoted(buffer, pos) && !isEscaped(buffer, pos) && isDelimiterChar(buffer, pos);
}

return new ArgumentList(args.toArray(new String[args.size()]), bindex, argpos, cursor);
}
public boolean isQuoted(final CharSequence buffer, final int pos) {
    return false;
}

public boolean isEscaped(final CharSequence buffer, final int pos) {
    if (pos <= 0) {
        return false;
    }
    for (int i = 0; (escapeChars != null) && (i < escapeChars.length); i++) {
        if (buffer.charAt(pos) == escapeChars[i]) {
            return !isEscaped(buffer, pos - 1); // escape escape
        }
    }
    return false;
}

/**
 * Returns true if the character at the specified position if a delimiter. This method will only be called if
 * the character is not enclosed in any of the {@link #getQuoteChars}, and is not escaped by ant of the
 * { @link #getEscapeChars}. To perform escaping manually, override { @link #isDelimiter} instead.
 */
public abstract boolean isDelimiterChar(CharSequence buffer, int pos);
}

/**
 * { @link ArgumentCompleter.ArgumentDelimiter} implementation that counts all whitespace (as reported by
 * { @link Character#isWhitespace}) as being a delimiter.
 *
 * @author <a href="mailto:mwp1@cornell.edu">Marc Prud'hommeaux</a>
 */
public static class WhitespaceArgumentDelimiter
extends AbstractArgumentDelimiter
{
    /**
     * The character is a delimiter if it is whitespace, and the
     * preceding character is not an escape character.
     */
    @Override
    public boolean isDelimiterChar(final CharSequence buffer, final int pos) {
        return Character.isWhitespace(buffer.charAt(pos));
    }
}

/**
public static class ArgumentList
{
    private String[] arguments;
    private int cursorArgumentIndex;
    private int argumentPosition;
    private int bufferPosition;

    /**
     * @param arguments             The array of tokens
     * @param cursorArgumentIndex   The token index of the cursor
     * @param argumentPosition      The position of the cursor in the current token
     * @param bufferPosition        The position of the cursor in the whole buffer
     */
    public ArgumentList(final String[] arguments, final int cursorArgumentIndex, final int argumentPosition, final int bufferPosition) {
        this.arguments = checkNotNull(arguments);
        this.cursorArgumentIndex = cursorArgumentIndex;
        this.argumentPosition = argumentPosition;
        this.bufferPosition = bufferPosition;
    }

    public void setCursorArgumentIndex(final int i) {
        this.cursorArgumentIndex = i;
    }

    public int getCursorArgumentIndex() {
        return this.cursorArgumentIndex;
    }

    public String getCursorArgument() {
        if ((cursorArgumentIndex < 0) || (cursorArgumentIndex >= arguments.length)) {
            return null;
        }
        return arguments[cursorArgumentIndex];
    }

    public void setArgumentPosition(final int pos) {
        this.argumentPosition = pos;
    }
}
public int getArgumentPosition() {
    return this.argumentPosition;
}

public void setArguments(final String[] arguments) {
    this.arguments = arguments;
}

public String[] getArguments() {
    return this.arguments;
}

public void setBufferPosition(final int pos) {
    this.bufferPosition = pos;
}

public int getBufferPosition() {
    return this.bufferPosition;
}

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 * http://www.opensource.org/licenses/bsd-license.php
 */
package jline.console.completer;

import jline.console.ConsoleReader;
import jline.console.CursorBuffer;

import java.io.IOException;
import java.util.ArrayList;
import java.util.Collection;
import java.util.HashSet;
import java.util.List;
import java.util.Locale;
import java.util.ResourceBundle;
import java.util.Set;

/**
 * A {@link CompletionHandler} that deals with multiple distinct completions
 * by outputting the complete list of possibilities to the console. This
 * mimics the behavior of the
 */
public class CandidateListCompletionHandler
    implements CompletionHandler
{
    // TODO: handle quotes and escaped quotes && enable automatic escaping of whitespace

    public boolean complete(final ConsoleReader reader, final List<CharSequence> candidates, final int pos) throws IOException
    {
        CursorBuffer buf = reader.getCursorBuffer();

        // if there is only one completion, then fill in the buffer
        if (candidates.size() == 1) {
            CharSequence value = candidates.get(0);

            // fail if the only candidate is the same as the current buffer
            if (value.equals(buf.toString())) {
                return false;
            }

            setBuffer(reader, value, pos);
            return true;
        }
        else if (candidates.size() > 1) {
            String value = getUnambiguousCompletions(candidates);
            setBuffer(reader, value, pos);
        }

        printCandidates(reader, candidates);

        // redraw the current console buffer
        reader.drawLine();

        return true;
    }

    public static void setBuffer(final ConsoleReader reader, final CharSequence value, final int offset) throws IOException
    {
        while ((reader.getCursorBuffer().cursor > offset) && reader.backspace()) {
            // empty
        }
    }
}
reader.putString(value);
reader.setCursorPosition(offset + value.length());
}

/**
 * Print out the candidates. If the size of the candidates is greater than the
 * {@link ConsoleReader#getAutoprintThreshold}, they prompt with a warning.
 * @param candidates the list of candidates to print
 */
public static void printCandidates(final ConsoleReader reader, Collection<CharSequence> candidates) throws
IOException
{
    Set<CharSequence> distinct = new HashSet<CharSequence>(candidates);

    if (distinct.size() > reader.getAutoprintThreshold()) {
        reader.print(Messages.DISPLAY_CANDIDATES.format(candidates.size()));
        reader.flush();

        int c;

        String noOpt = Messages.DISPLAY_CANDIDATES_NO.format();
        String yesOpt = Messages.DISPLAY_CANDIDATES_YES.format();
        char[] allowed = {yesOpt.charAt(0), noOpt.charAt(0)};

        while ((c = reader.readCharacter(allowed)) != -1) {
            String tmp = new String(new char[]{(char) c});

            if (noOpt.startsWith(tmp)) {
                reader.println();
                return;
            } else if (yesOpt.startsWith(tmp)) {
                break;
            } else {
                reader.beep();
            }
        }
    }

    // copy the values and make them distinct, without otherwise affecting the ordering. Only do it if the sizes differ.
    if (distinct.size() != candidates.size()) {
        Collection<CharSequence> copy = new ArrayList<CharSequence>();

        for (CharSequence next : candidates) {
            if (!copy.contains(next)) {
                copy.add(next);
            }
        }
    }

copy.add(next);
}
}

candidates = copy;
}

reader.println();
reader.printColumns(candidates);
}

/**
 * Returns a root that matches all the [@link String] elements of the specified [@link List],
 * or null if there are no commonalities. For example, if the list contains
 * <i>foobar</i>, <i>foobaz</i>, <i>foobuz</i>, the method will return <i>foob</i>.
 */
private String getUnambiguousCompletions(final List<CharSequence> candidates) {
    if (candidates == null || candidates.isEmpty()) {
        return null;
    }

    // convert to an array for speed
    String[] strings = candidates.toArray(new String[candidates.size()]);

    String first = strings[0];
    StringBuilder candidate = new StringBuilder();

    for (int i = 0; i < first.length(); i++) {
        if (startsWith(first.substring(0, i + 1), strings)) {
            candidate.append(first.charAt(i));
        } else {
            break;
        }
    }

    return candidate.toString();
}

/**
 * @return true is all the elements of <i>candidates</i> start with <i>starts</i>
 */
private boolean startsWith(final String starts, final String[] candidates) {
    for (String candidate : candidates) {
        if (!candidate.startsWith(starts)) {
            return false;
        }
    }
    return true;
}

private static enum Messages {
    DISPLAY_CANDIDATES,
    DISPLAY_CANDIDATES_YES,
    DISPLAY_CANDIDATES_NO;

    private static final ResourceBundle
        bundle =
            ResourceBundle.getBundle(CandidateListCompletionHandler.class.getName(), Locale.getDefault());

    public String format(final Object... args) {
        if (bundle == null)
            return "";
        else
            return String.format(bundle.getString(name()), args);
    }
    
// FIXME: Check if we can use CharSequence for buffer?

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     */
    package jline.console.completer;

    import java.util.List;

    /**
     * A completer is the mechanism by which tab-completion candidates will be resolved.
     *
     * @author <a href="mailto:mwp1@cornell.edu">Marc Prud'hommeaux</a>
     * @author <a href="mailto:jason@planet57.com">Jason Dillon</a>
     * @since 2.3
     */
    public interface Completer {
    //
    // FIXME: Check if we can use CharSequence for buffer?
    //
### Populates `candidates` with a list of possible completions for the `buffer`.

- The `candidates` list will not be sorted before being displayed to the user; thus, the complete method should sort the `List` before returning.

```java
int complete(String buffer, int cursor, List<CharSequence> candidates);
```

---

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---

```
import jline.console.ConsoleReader;
import java.io.IOException;
import java.util.List;

// Handler for dealing with candidates for tab-completion.

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```

---

```
package jline.console.completer;
```

---

---
import static jline.internal.Preconditions.checkNotNull;

/**
 * {@link Completer} for {@link Enum} names.
 *
 * @author <a href="mailto:jason@planet57.com">Jason Dillon</a>
 * @since 2.3
 */
public class EnumCompleter
    extends StringsCompleter
{
    public EnumCompleter(Class<? extends Enum> source) {
        checkNotNull(source);

        for (Enum<?> n : source.getEnumConstants()) {
            this.getStrings().add(n.name().toLowerCase());
        }
    }
}

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 */
package jline.console.completer;

import jline.internal.Configuration;
import java.io.File;
import java.util.List;
import static jline.internal.Preconditions.checkNotNull;

import jline.internal.Preconditions.checkNotNull;

/**
 * A file name completer takes the buffer and issues a list of
 * potential completions.
 *
 * @param <p/>
 */
import java.util.List;

import static jline.internal.Preconditions.checkNotNull;

/**
 * This completer tries to behave as similar as possible to
 * <i>bash</i>'s file name completion (using GNU readline)
 * with the following exceptions:
 * <p/>
 * <ul>
 * <li>Candidates that are directories will end with "/"
 * <li>Wildcard regular expressions are not evaluated or replaced
 */
* The "~" character can be used to represent the user's home, * but it cannot complete to other users' homes, since java does * not provide any way of determining that easily</li>
* </ul>

* @author <a href="mailto:mwp1@cornell.edu">Marc Prud'hommeaux</a>
* @author <a href="mailto:jason@planet57.com">Jason Dillon</a>
* @since 2.3
*/

public class FileNameCompleter
    implements Completer
{
    // TODO: Handle files with spaces in them

    private static final boolean OS_IS_WINDOWS;

    static {
        String os = Configuration.getOsName();
        OS_IS_WINDOWS = os.contains("windows");
    }

    public int complete(String buffer, final int cursor, final List<CharSequence> candidates) {
        // buffer can be null
        checkNotNull(candidates);

        if (buffer == null) {
            buffer = "";
        }

        if (OS_IS_WINDOWS) {
            buffer = buffer.replace('/', '\');
        }

        String translated = buffer;

        File homeDir = getUserHome();

        // Special character: ~ maps to the user's home directory
        if (translated.startsWith("~" + separator())) {
            translated = homeDir.getPath() + translated.substring(1);
        } else if (translated.startsWith(separator())) {
            translated = homeDir.getParentFile().getAbsolutePath();
        } else if (!translated.startsWith(separator())) {
            String cwd = getUserDir().getAbsolutePath();
            translated = cwd + separator() + translated;
        }
File file = new File(translated);
final File dir;

if (translated.endsWith(separator())) {
    dir = file;
} else {
    dir = file.getParentFile();
}

File[] entries = dir == null ? new File[0] : dir.listFiles();

return matchFiles(buffer, translated, entries, candidates);

protected String separator() {
    return File.separator;
}

protected File getUserHome() {
    return Configuration.getUserHome();
}

protected File getUserDir() {
    return new File(".");
}

protected int matchFiles(String buffer, String translated, File[] files, List<CharSequence> candidates) {
    if (files == null) {
        return -1;
    }

    int matches = 0;

    // first pass: just count the matches
    for (File file : files) {
        if (file.getAbsolutePath().startsWith(translated)) {
            matches++;
        }
    }

    for (File file : files) {
        if (file.getAbsolutePath().startsWith(translated)) {
            CharSequence name = file.getName() + (matches == 1 && file.isDirectory() ? separator() : " ");
            candidates.add(render(file, name).toString());
        }
    }
}
final int index = buffer.lastIndexOf(separator());

    return index + separator().length();
}

protected CharSequence render(final File file, final CharSequence name) {
    return name;
}

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 */
package jline.console.completer;

import java.util.List;

/**
 * Null completer.
 * @author <a href="mailto:mwp1@cornell.edu">Marc Prud'hommeaux</a>
 * @author <a href="mailto:jason@planet57.com">Jason Dillon</a>
 * @since 2.3
 */
public final class NullCompleter
    implements Completer
{
    public static final NullCompleter INSTANCE = new NullCompleter();

    public int complete(final String buffer, final int cursor, final List<CharSequence> candidates) {
        return -1;
    }
}

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 */
package jline.console.completer;
import java.util.Arrays;
import java.util.Collection;
import java.util.List;
import java.util.SortedSet;
import java.util.TreeSet;
import static jline.internal.Preconditions.checkNotNull;

/**
 * Completer for a set of strings.
 * @author <a href="mailto:jason@planet57.com">Jason Dillon</a>
 * @since 2.3
 */
public class StringsCompleter
    implements Completer
{
    private final SortedSet<String> strings = new TreeSet<String>();

    public StringsCompleter() {
        // empty
    }

    public StringsCompleter(final Collection<String> strings) {
        checkNotNull(strings);
        getStrings().addAll(strings);
    }

    public StringsCompleter(final String... strings) {
        this(Arrays.asList(strings));
    }

    public Collection<String> getStrings() {
        return strings;
    }

    public int complete(final String buffer, final int cursor, final List<CharSequence> candidates) {
        // buffer could be null
        checkNotNull(candidates);

        if (buffer == null) {
            candidates.addAll(strings);
        } else {
            for (String match : strings.tailSet(buffer)) {
                if (!match.startsWith(buffer)) {
                    break;
                }
            }
        }
    }
}
candidates.add(match);
}
}

if (candidates.size() == 1) {
    candidates.set(0, candidates.get(0) + " ");
}

return candidates.isEmpty() ? -1 : 0;
}
}
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#

DISPLAY_CANDIDATES=Display all %d possibilities? (y or n)
DISPLAY_CANDIDATES_YES=y
DISPLAY_CANDIDATES_NO=n
DISPLAY_MORE=--More--

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2.133 LZ4 and xxHash 1.2.0

2.134 model-flow-service 1.1.3-Helium-SR3

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2.137 model-inventory 1.1.3-HeliumSR3

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2.158 spring-core 3.2.8.RELEASE

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2.160 stax2-api 3.1.4

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compiler/cpp/src/thriftll
compiler/cpp/src/thrifty.yy
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2.169 yangtools-binding-generator-impl 0.6.5-Helium-SR3

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2.170 yangtools-binding-generator-spi 0.6.5-Helium-SR3

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2.171 yangtools-binding-generator-util 0.6.5-Helium-SR3

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2.173 yangtools-binding-type-provider 0.6.5-Helium-SR3

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2.174 yangtools-concepts 0.6.5-Helium-SR3

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## 2.175 yangtools-features-yangtools-feature

### 0.6.5-Helium-SR3

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2.176 yangtools-model-ietf-restconf
2013.10.19.1.3-Helium

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2.178 yangtools-model-ietf-yang-types

2010.09.24.4.3-Helium

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2.181 yangtools-model-yang-ext
2013.09.07.4.3-Helium
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2.182 yangtools-object-cache-api 0.6.5-Helium-SR3

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2.188 yangtools-restconf-jaxrs-api 0.6.5-Helium-SR3

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2.190 yangtools-thirdparty-antlr4-runtime-osgi-nohead 4.0

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2.191 yangtools-thirdparty-xtend-lib-osgi

2.4.3

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2.193 yangtools-websocket-client 0.6.5-
Helium-SR3

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2.194 yangtools-yang binding 0.6.5-Helium-SR3

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2.195 yangtools-yang-common 0.6.5-Helium-SR3
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2.196 yangtools-yang-data-api 0.6.5-Helium-SR3

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2.197 yangtools-yang-data-codec-gson 0.6.5-Helium-SR3

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2.199 yangtools-yang-data-impl 0.6.5-Helium-SR3

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2.200 yangtools-yang-data-operations 0.6.5-Helium-SR3

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2.202 yangtools-yang-maven-plugin-spi 0.6.5-Helium-SR3

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2.203 yangtools-yang-model-api 0.6.5-Helium-SR3

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2.205 yangtools-yang-parser-api :0.6.5-Helium-SR3

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2.206 yangtools-yang-parser-impl 0.6.5-Helium-SR3

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*/

3.10 async 1.4.0

3.11 collectd 5.4.2
3.11.1 Available under license:

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3.23 elasticsearch 1.4.4

3.23.1 Available under license:

   cat elasticsearch-setup-1.4.4/elasticsearch-setup-1.4.4/jre.js
   // developed by Rui Lopes (ruilopes.com). licensed under GPLv3.

   // TODO set a global timeout and abort the process if it expires.
   /* Windows Setup Helper functions.
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*/

// TODO On Windows 7+ or Windows 2008 R2+ use NetAddServiceAccount,
//      NetRemoveServiceAccount and NetIsServiceAccount.
//      NB When we do this, we MUST also stop generating a service password
//      in the setup (managed service accounts do not have a password).

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3.26 flume-file-channel 1.5.2

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3.27 flume-irc-sink 1.5.2

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3.37 Gson 2.3.1
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 */

package com.google.gson.internal;
import java.lang.reflect.Type;
import java.util.Collections;
import java.util.HashMap;
import java.util.Map;

/**
 * Contains static utility methods pertaining to primitive types and their
 * corresponding wrapper types.
 *
 * @author Kevin Bourrillion
 */
public final class Primitives {
    private Primitives() {}

    /** A map from primitive types to their corresponding wrapper types. */
    private static final Map<Class<?>, Class<?>> PRIMITIVE_TO_WRAPPER_TYPE;

    /** A map from wrapper types to their corresponding primitive types. */
    private static final Map<Class<?>, Class<?>> WRAPPER_TO_PRIMITIVE_TYPE;

    static {
        Map<Class<?>, Class<?>> primToWrap = new HashMap<Class<?>, Class<?>>(16);
        Map<Class<?>, Class<?>> wrapToPrim = new HashMap<Class<?>, Class<?>>(16);
        add(primToWrap, wrapToPrim, boolean.class, Boolean.class);
        add(primToWrap, wrapToPrim, byte.class, Byte.class);
        add(primToWrap, wrapToPrim, char.class, Character.class);
        add(primToWrap, wrapToPrim, double.class, Double.class);
        add(primToWrap, wrapToPrim, float.class, Float.class);
        add(primToWrap, wrapToPrim, int.class, Integer.class);
        add(primToWrap, wrapToPrim, long.class, Long.class);
        add(primToWrap, wrapToPrim, short.class, Short.class);
        add(primToWrap, wrapToPrim, void.class, Void.class);

        PRIMITIVE_TO_WRAPPER_TYPE = Collections.unmodifiableMap(primToWrap);
        WRAPPER_TO_PRIMITIVE_TYPE = Collections.unmodifiableMap(wrapToPrim);
    }

    private static void add(Map<Class<?>, Class<?>> forward,
                            Map<Class<?>, Class<?>> backward, Class<?> key, Class<?> value) {
        forward.put(key, value);
        backward.put(value, key);
    }

    private static final Map<Class<?>, Class<?>> PRIMITIVE_TO_WRAPPER_TYPE;
    private static final Map<Class<?>, Class<?>> WRAPPER_TO_PRIMITIVE_TYPE;

    // Sad that we can't use a BiMap. :(  
}
/**
 * Returns true if this type is a primitive.
 */
public static boolean isPrimitive(Type type) {
    return PRIMITIVE_TO_WRAPPER_TYPE.containsKey(type);
}

/**
 * Returns true if [code type] is one of the nine
 * primitive-wrapper types, such as [link Integer].
 *
 * [see Class#isPrimitive]
 */
public static boolean isWrapperType(Type type) {
    return WRAPPER_TO_PRIMITIVE_TYPE.containsKey(
        $Gson$Preconditions.checkNotNull(type));
}

/**
 * Returns the corresponding wrapper type of [code type] if it is a primitive
 * type; otherwise returns [code type] itself. Idempotent.
 * <pre>
 * wrap(int.class) == Integer.class
 * wrap(Integer.class) == Integer.class
 * wrap(String.class) == String.class
 * </pre>
 */
public static <T> Class<T> wrap(Class<T> type) {
    // cast is safe: long.class and Long.class are both of type Class<Long>
    @SuppressWarnings("unchecked")
    Class<T> wrapped = (Class<T>) PRIMITIVE_TO_WRAPPER_TYPE.get(
        $Gson$Preconditions.checkNotNull(type));
    return (wrapped == null) ? type : wrapped;
}

/**
 * Returns the corresponding primitive type of [code type] if it is a
 * wrapper type; otherwise returns [code type] itself. Idempotent.
 * <pre>
 * unwrap(Integer.class) == int.class
 * unwrap(int.class) == int.class
 * unwrap(String.class) == String.class
 * </pre>
 */
public static <T> Class<T> unwrap(Class<T> type) {
    // cast is safe: long.class and Long.class are both of type Class<Long>
    @SuppressWarnings("unchecked")
    Class<T> unwrapped = (Class<T>) WRAPPER_TO_PRIMITIVE_TYPE.get(
        $Gson$Preconditions.checkNotNull(type));
    return (unwrapped == null) ? type : unwrapped;
}
$Gson$Preconditions.checkNotNull(type));
    return (unwrapped == null) ? type : unwrapped;
}
}
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*/
package org.glassfish.jersey.servlet.async;

import java.util.concurrent.atomic.AtomicReference;
import javax.servlet.AsyncContext;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
import org.glassfish.jersey.servlet.spi.AsyncContextDelegate;
import org.glassfish.jersey.servlet.spi.AsyncContextDelegateProvider;

/**
 * Servlet 3.x container response writer async extension and related extension factory implementation.
 *
 * @author Jakub Podlesak (jakub.podlesak at oracle.com)
 * @author Marek Potociar (marek.potociar at oracle.com)
 */
public class AsyncContextDelegateProviderImpl implements AsyncContextDelegateProvider {

    @Override
    public final AsyncContextDelegate createDelegate(final HttpServletRequest request, final HttpServletResponse response) {
        return new ExtensionImpl(request, response);
    }

    private static final class ExtensionImpl implements AsyncContextDelegate {

        private static final int NEVER_TIMEOUT_VALUE = -1;

        public final AsyncContextDelegate createDelegate(final HttpServletRequest request, final HttpServletResponse response) {
            return new ExtensionImpl(request, response);
        }
    }

    private static final class ExtensionImpl implements AsyncContextDelegate {

        private static final int NEVER_TIMEOUT_VALUE = -1;

    }
}
private final HttpServletRequest request;
private final HttpServletResponse response;
private final AtomicReference<AsyncContext> asyncContextRef;

/**
 * Create a Servlet 3.x [@link AsyncContextDelegate] with given [@code request] and [@code response].
 *
 * @param request request to create [@link AsyncContext] for.
 * @param response response to create [@link AsyncContext] for.
 */
private ExtensionImpl(final HttpServletRequest request, final HttpServletResponse response) {
    this.request = request;
    this.response = response;
    this.asyncContextRef = new AtomicReference<AsyncContext>();
}

@Override
public void suspend() throws IllegalStateException {
    final AsyncContext asyncContext = request.startAsync(request, response);
    // Tell underlying asyncContext to never time out.
    asyncContext.setTimeout(NEVER_TIMEOUT_VALUE);
    asyncContextRef.set(asyncContext);
}

@Override
public void complete() {
    final AsyncContext asyncContext = asyncContextRef.getAndSet(null);
    if (asyncContext != null) {
        asyncContext.complete();
    }
}

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package org.glassfish.jersey.server.wadl.internal.generators;

import java.io.File;
import java.io.FileInputStream;
import java.io.InputStream;
import java.util.List;
import javax.ws.rs.core.Context;
import javax.ws.rs.core.MediaType;
import javax.inject.Provider;
import javax.xml.parsers.SAXParserFactory;
import org.glassfish.jersey.server.model.Parameter;
import org.glassfish.jersey.server.wadl.WadlGenerator;
import org.glassfish.jersey.server.wadl.internal.ApplicationDescription;
import org.glassfish.jersey.server.wadl.internal.WadlUtils;
import com.sun.research.ws.wadl.Application;
import com.sun.research.ws.wadl.Method;
import com.sun.research.ws.wadl.Param;
import com.sun.research.ws.wadl.Representation;
import com.sun.research.ws.wadl.Request;
import com.sun.research.ws.wadl.Resource;
import com.sun.research.ws.wadl.Resources;
import com.sun.research.ws.wadl.Response;

/**
 * This {@link org.glassfish.jersey.server.wadl.WadlGenerator} adds all doc elements provided by
 * ApplicationDocs#getDocs()
 * to the generated wadl-file.
 * <p>
 * The ApplicationDocs content can either be provided via a File reference
 * (ApplicationDocsFile(File)) or
 * via an InputStream (ApplicationDocsStream(InputStream)).
 * </p>
 * <p>
 * The File should be used when using the maven-wadl-plugin for generating wadl offline,
 * the InputStream should be used when the extended wadl is generated by jersey at runtime, e.g.
 * using the org.glassfish.jersey.server.wadl.config.WadlGeneratorConfig for configuration.
 * </p>
 * <p>
 * Created on: Jun 16, 2008<br>
 */
public class WadlGeneratorApplicationDoc implements WadlGenerator {

    private WadlGenerator _delegate;
    private File _applicationDocsFile;
    private InputStream _applicationDocsStream;
    private ApplicationDocs _applicationDocs;
    @Context
    private Provider<SAXParserFactory> saxFactoryProvider;

    public void setWadlGeneratorDelegate(WadlGenerator delegate) {
        _delegate = delegate;
    }

    public String getRequiredJaxbContextPath() {
        return _delegate.getRequiredJaxbContextPath();
    }

    public void setApplicationDocsFile(File applicationDocsFile) {
        if (_applicationDocsStream != null) {
            throw new IllegalStateException("The applicationDocsStream property is already set," +
                " therefore you cannot set the applicationDocsFile property. Only one of both can be set at a time.");
        }
        _applicationDocsFile = applicationDocsFile;
    }

    public void setApplicationDocsStream(InputStream applicationDocsStream) {
        if (_applicationDocsFile != null) {
            throw new IllegalStateException("The applicationDocsFile property is already set," +
                " therefore you cannot set the applicationDocsStream property. Only one of both can be set at a time.");
        }
        _applicationDocsStream = applicationDocsStream;
    }

    public void init() throws Exception {
        if (_applicationDocsFile == null && _applicationDocsStream == null) {
            throw new IllegalStateException("Neither the applicationDocsFile nor the applicationDocsStream" +
                " is set, one of both is required.");
        }
        _delegate.init();

        InputStream inputStream;
        if (_applicationDocsFile != null) {
            inputStream = new FileInputStream(_applicationDocsFile);
        } else {

    }
inputStream = _applicationDocsStream;
}
_applicationDocs = WadlUtils.unmarshall(inputStream, saxFactoryProvider.get(), ApplicationDocs.class);
}

/**
 * @return the application
 * @see org.glassfish.jersey.server.wadl.WadlGenerator#createApplication()
 */
public Application createApplication() {
    final Application result = _delegate.createApplication();
    if (_applicationDocs != null && _applicationDocs.getDocs() != null &&
        !_applicationDocs.getDocs().isEmpty()) {
        result.getDoc().addAll(_applicationDocs.getDocs());
    }
    return result;
}

/**
 * @param r
 * @param m
 * @return the method
 * @see
 */
public Method createMethod(org.glassfish.jersey.server.model.Resource r,
                      org.glassfish.jersey.server.model.ResourceMethod m) {
    return _delegate.createMethod(r, m);
}

/**
 * @param r
 * @param m
 * @param mediaType
 * @return representation type
 * @see
 */
public Representation createRequestRepresentation(org.glassfish.jersey.server.model.Resource r,
                                               org.glassfish.jersey.server.model.ResourceMethod m,
                                               MediaType mediaType) {
    return _delegate.createRequestRepresentation(r, m, mediaType);
}
* @param r
* @param m
* @return request
* @see
org.glassfish.jersey.server.wadl.WadlGenerator#createRequest(org.glassfish.jersey.server.model.Resource,
* org.glassfish.jersey.server.model.ResourceMethod)
*/
public Request createRequest(org.glassfish.jersey.server.model.Resource r,
org.glassfish.jersey.server.model.ResourceMethod m) {
    return _delegate.createRequest(r, m);
}

/**
* @param r
* @param m
* @param p
* @return parameter
* @see org.glassfish.jersey.server.wadl.WadlGenerator#createParam(org.glassfish.jersey.server.model.Resource,
*/
public Param createParam(org.glassfish.jersey.server.model.Resource r,
    org.glassfish.jersey.server.model.ResourceMethod m,
    Parameter p) {
    return _delegate.createParam(r, m, p);
}

/**
* @param r
* @param path
* @return resource
* @see
*/
public Resource createResource(org.glassfish.jersey.server.model.Resource r, String path) {
    return _delegate.createResource(r, path);
}

/**
* @param r
* @param m
* @param p
* @return response
* @see
org.glassfish.jersey.server.wadl.WadlGenerator#createResponses(org.glassfish.jersey.server.model.Resource,
* org.glassfish.jersey.server.model.ResourceMethod)
*/
public List<Response> createResponses(org.glassfish.jersey.server.model.Resource r,
    org.glassfish.jersey.server.model.ResourceMethod m) {
return _delegate.createResponses(r, m);
}

/**
 * @return resources
 * @see org.glassfish.jersey.server.wadl.WadlGenerator#createResources()
 */
public Resources createResources() {
    return _delegate.createResources();
}

// ================= methods for post build actions =======================

@Override
public ExternalGrammarDefinition createExternalGrammar() {
    return _delegate.createExternalGrammar();
}

@Override
public void attachTypes(ApplicationDescription egd) {
    _delegate.attachTypes(egd);
}

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 */
import java.util.ArrayList;
import java.util.List;
import javax.xml.bind.annotation.XmlAccessType;
import javax.xml.bind.annotation.XmlAccessorType;
import javax.xml.bind.annotation.XmlElement;
import javax.xml.bind.annotation.XmlRootElement;
import javax.xml.bind.annotation.XmlType;
import com.sun.research.ws.wadl.Doc;

/**
 * The wrapper root document for multiple @link Doc elements.
 * Created on: Jun 10, 2008<br>
 *
 * @author Martin Grotzke (martin.grotzke at freiheit.com)
 */
@XmlAccessorType(XmlAccessType.FIELD)
@XmlType(name = "applicationDocs", propOrder = {
    "docs"
})
@XmlRootElement(name = "applicationDocs")
public class ApplicationDocs {

    @XmlElement(name = "doc")
    protected List<Doc> docs;

    public List<Doc> getDocs() {
        if (docs == null) {
            docs = new ArrayList<Doc>();
        }
        return this.docs;
    }
}
package org.glassfish.jersey.server.wadl.internal;

import java.util.ArrayList;
import java.util.List;

package org.glassfish.jersey.server.wadl.internal;

import java.util.ArrayList;
import java.util.List;
import javax.ws.rs.core.MediaType;
import javax.xml.namespace.QName;
import org.glassfish.jersey.server.model.Parameter;
import org.glassfish.jersey.server.model.ResourceMethod;
import org.glassfish.jersey.server.wadl.WadlGenerator;

import com.sun.research.ws.wadl.Application;
import com.sun.research.ws.wadl.Param;
import com.sun.research.ws.wadl.ParamStyle;
import com.sun.research.ws.wadl.Representation;
import com.sun.research.ws.wadl.Request;
import com.sun.research.ws.wadl.Resource;
import com.sun.research.ws.wadl.Resources;
import com.sun.research.ws.wadl.Response;

/**
 * This WadlGenerator creates the basic wadl artifacts.<br>
 * Created on: Jun 16, 2008<br>
 *
 * @author Martin Grotzke (martin.grotzke at freiheit.com)
 * @author Miroslav Fuksa (miroslav.fuksa at oracle.com)
 */
public class WadlGeneratorImpl implements WadlGenerator {

    @Override
    public String getRequiredJaxbContextPath() {
        final String name = Application.class.getName();
        return name.substring(0, name.lastIndexOf('.'));
    }

    @Override
    public void init() {
    }

    @Override
    public void setWadlGeneratorDelegate(WadlGenerator delegate) {
        throw new UnsupportedOperationException("No delegate supported.");
    }

    @Override
    public Resources createResources() {
        return new Resources();
    }

    @Override


public Application createApplication() {
    return new Application();
}

@Override
public com.sun.research.ws.wadl.Method createMethod(
    org.glassfish.jersey.server.model.Resource r, final ResourceMethod m) {
    wadlMethod.setName(m.getHttpMethod());
    wadlMethod.setId(m.getInvocable().getDefinitionMethod().getName());
    if (m.isExtended()) {
        wadlMethod.getAny().add(WadlApplicationContextImpl.extendedElement);
    }
    return wadlMethod;
}

@Override
public Representation createRequestRepresentation(org.glassfish.jersey.server.model.Resource r,
    ResourceMethod m, MediaType mediaType) {
    Representation wadlRepresentation = new Representation();
    wadlRepresentation.setMediaType(mediaType.toString());
    return wadlRepresentation;
}

@Override
public Request createRequest(org.glassfish.jersey.server.model.Resource r, ResourceMethod m) {
    return new Request();
}

@Override
public Param createParam(org.glassfish.jersey.server.model.Resource r, ResourceMethod m, final Parameter p) {
    if (p.getSource() == Parameter.Source.UNKNOWN)
        return null;
    Param wadlParam = new Param();
    wadlParam.setName(p.getSourceName());
    switch (p.getSource()) {
        case FORM:
            wadlParam.setStyle(ParamStyle.QUERY);
            break;
        case QUERY:
            wadlParam.setStyle(ParamStyle.QUERY);
            break;
        case MATRIX:
            wadlParam.setStyle(ParamStyle.MATRIX);
            break;
    }
}
break;
case PATH:
    wadlParam.setStyle(ParamStyle.TEMPLATE);
    break;
case HEADER:
    wadlParam.setStyle(ParamStyle.HEADER);
    break;
case COOKIE:
    // Generates name="Cookie" path="<name>"
    wadlParam.setStyle(ParamStyle.HEADER);
    wadlParam.setName("Cookie");
    wadlParam.setPath(p.getSourceName());
    break;
default:
    break;
}

if (p.hasDefaultValue())
    wadlParamsetDefault(p.getDefaultValue());
Class<?? pClass = p.getRawType();
if (pClass.isArray()) {
    wadlParam.setRepeating(true);
    pClass = pClass.getComponentType();
}
if (pClass.equals(int.class) || pClass.equals(Integer.class))
    wadlParam.setType(new QName("http://www.w3.org/2001/XMLSchema", "int", "xs"));
else if (pClass.equals(boolean.class) || pClass.equals(Boolean.class))
    wadlParam.setType(new QName("http://www.w3.org/2001/XMLSchema", "boolean", "xs"));
else if (pClass.equals(long.class) || pClass.equals(Long.class))
    wadlParam.setType(new QName("http://www.w3.org/2001/XMLSchema", "long", "xs"));
else if (pClass.equals(short.class) || pClass.equals(Short.class))
    wadlParam.setType(new QName("http://www.w3.org/2001/XMLSchema", "short", "xs"));
else if (pClass.equals(byte.class) || pClass.equals(Byte.class))
    wadlParam.setType(new QName("http://www.w3.org/2001/XMLSchema", "byte", "xs"));
else if (pClass.equals(float.class) || pClass.equals(Float.class))
    wadlParam.setType(new QName("http://www.w3.org/2001/XMLSchema", "float", "xs"));
else if (pClass.equals(double.class) || pClass.equals(Double.class))
    wadlParam.setType(new QName("http://www.w3.org/2001/XMLSchema", "double", "xs"));
else
    wadlParam.setType(new QName("http://www.w3.org/2001/XMLSchema", "string", "xs"));
return wadlParam;

@Override
public Resource createResource(org.glassfish.jersey.server.model.Resource resource, String path) {
    Resource wadlResource = new Resource();
    if (path != null) {
        wadlResource = new Resource();
    }
}
} else if (resource.getPath() != null) {
    wadlResource.setPath(resource.getPath());
}

if (resource.isExtended()) {

    wadlResource.getAny().add(WadlApplicationContextImpl.extendedElement);
}

return wadlResource;
}

@Override
public List<Response> createResponses(org.glassfish.jersey.server.model.Resource r, ResourceMethod m) {
    final Response response = new Response();

    for (MediaType mediaType : m.getProducedTypes()) {
        if (!MediaType.WILDCARD_TYPE.equals(mediaType)
            || !hasEmptyProducibleMediaTypeSet(m)) {
            Representation wadlRepresentation = createResponseRepresentation(r, m, mediaType);
            response.getRepresentation().add(wadlRepresentation);
        }
    }

    List<Response> responses = new ArrayList<Response>();
    responses.add(response);
    return responses;
}

private boolean hasEmptyProducibleMediaTypeSet(final ResourceMethod method) {
    return method.getProducedTypes().isEmpty();
}

public Representation createResponseRepresentation(org.glassfish.jersey.server.model.Resource r, ResourceMethod m, MediaType mediaType) {
    Representation wadlRepresentation = new Representation();
    wadlRepresentation.setMediaType(mediaType.toString());
    return wadlRepresentation;
}

// ================ methods for post build actions =======================

@Override
public ExternalGrammarDefinition createExternalGrammar() {
    // Return an empty list to add to
return new ExternalGrammarDefinition();
}

@override
public void attachTypes(ApplicationDescription egd) {
}
}

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*/
package org.glassfish.jersey.server.wadl.internal;
import java.util.Set;
import javax.ws.rs.core.MediaType;
import javax.xml.namespace.QName;
import org.glassfish.jersey.server.wadl.WadlGenerator;
import com.sun.research.ws.wadl.Application;

/**
 * This class is designed to combine the Application instance with any other 
 * external metadata that might be required to describe the application.
 * *
 * @author Gerard Davison
 */
public class ApplicationDescription {

    private Application _application;
    private WadlGenerator.ExternalGrammarDefinition _externalGrammarDefinition;

    ApplicationDescription(Application application, WadlGenerator.ExternalGrammarDefinition externalGrammarDefinition) {
        super();
        this._application = application;
        this._externalGrammarDefinition = externalGrammarDefinition;
    }

    /**
     * @return The instance of the application object
     */
    public Application getApplication() {
        return _application;
    }

    /**
     * @param type java class to be resolved.
     * @return the QName for the given Class in the grammar.
     */
    public QName resolve(Class type) {
        return _externalGrammarDefinition.resolve(type);
    }

    /**
     * @param path path to external metadata.
     * @return the external metadata for a given URL, generally provided as a sub resource
     * or the root application.wadl.
     */
public ExternalGrammar getExternalGrammar(String path) {
    return _externalGrammarDefiniton.map.get(path);
}

/**
 * @return A set of all the external metadata keys
 */
public Set<String> getExternalMetadataKeys() {
    return _externalGrammarDefiniton.map.keySet();
}

/**
 * A simple holder class that stores a type and binary content
 * to be used to return extra metadata with
 */
public static class ExternalGrammar {

    private MediaType _type;
    private byte[] _content;

    public ExternalGrammar(MediaType type, byte[] content) {
        super();
        this._type = type;
        this._content = content.clone();
    }

    public MediaType getType() {
        return _type;
    }

    public byte[] getContent() {
        // Defensive copy
        return _content.clone();
    }
}

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package org.glassfish.jersey.server.wadl.internal;

import java.net.URI;
import java.security.AccessController;
import java.util.logging.Level;
import java.util.logging.Logger;

import javax.ws.rs.ProcessingException;
import javax.ws.rs.core.Configuration;
import javax.ws.rs.core.Context;
import javax.ws.rs.core.UriBuilder;
import javax.ws.rs.core.UriInfo;

import javax.xml.bind.JAXBContext;
import javax.xml.bind.JAXBElement;
import javax.xml.bind.JAXBException;
import javax.xml.namespace.QName;
import org.glassfish.jersey.internal.util.ReflectionHelper;
import org.glassfish.jersey.server.ExtendedResourceContext;

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*/
import org.glassfish.jersey.server.internal.LocalizationMessages;
import org.glassfish.jersey.server.wadl.WadlApplicationContext;
import org.glassfish.jersey.server.wadl.WadlGenerator;
import org.glassfish.jersey.server.wadl.config.WadlGeneratorConfig;
import org.glassfish.jersey.server.wadl.config.WadlGeneratorConfigLoader;

import org.glassfish.hk2.api.ServiceLocator;

import com.sun.research.ws.wadl.Application;
import com.sun.research.ws.wadl.Doc;
import com.sun.research.ws.wadl.Grammars;
import com.sun.research.ws.wadl.Include;
import com.sun.research.ws.wadl.Resource;
import com.sun.research.ws.wadl.Resources;

/**
 * WADL application context implementation.
 *
 * @author Paul Sandoz (paul.sandoz at oracle.com)
 */
public class WadlApplicationContextImpl implements WadlApplicationContext {

    private static final Logger LOGGER = Logger.getLogger(WadlApplicationContextImpl.class.getName());

    static final String WADL_JERSEY_NAMESPACE = "http://jersey.java.net/";
    public static final JAXBElement extendedElement = new JAXBElement<String>(
            new QName(WADL_JERSEY_NAMESPACE, "extended", "jersey"), String.class, "true");

    @Context
    private ExtendedResourceContext resourceContext;

    private final ServiceLocator serviceLocator;

    private final WadlGeneratorConfig wadlGeneratorConfig;

    private final JAXBContext jaxbContext;

    public WadlApplicationContextImpl(@Context Configuration configuration, @Context ServiceLocator serviceLocator) {
        this.serviceLocator = serviceLocator;
        this.wadlGeneratorConfig = WadlGeneratorConfigLoader.loadWadlGeneratorsFromConfig(configuration.getProperties());

        // TODO perhaps this should be done another way for the moment
        // create a temporary generator just to do this one task
    }
}
final WadlGenerator wadlGenerator = wadlGeneratorConfig.createWadlGenerator(serviceLocator);

JAXBContext jaxbContextCandidate;

final ClassLoader contextClassLoader = AccessController.doPrivileged(ReflectionHelper.getContextClassLoaderPA());
try {
    // Nasty ClassLoader magic. JAXB-API has some strange limitation about what classloader can
    // be used in OSGi environment - it must be same as context ClassLoader. Following code just
    // workarounds this limitation
    // see JERSEY-1818
    // see JSR222-46

    final ClassLoader jerseyModuleClassLoader =
        AccessController.doPrivileged(ReflectionHelper.getClassLoaderPA(wadlGenerator.getClass()));

    AccessController.doPrivileged(ReflectionHelper.setContextClassLoaderPA(jerseyModuleClassLoader));
        jaxbContextCandidate = JAXBContext.newInstance(wadlGenerator.getRequiredJaxbContextPath(),
        jerseyModuleClassLoader);
    } catch (JAXBException ex) {
        try {
            // fallback for glassfish
            LOGGER.log(Level.FINE, LocalizationMessages.WADL_JAXB_CONTEXT_FALLBACK(), ex);
            jaxbContextCandidate = JAXBContext.newInstance(wadlGenerator.getRequiredJaxbContextPath());
        } catch (JAXBException innerEx) {
            throw new ProcessingException(LocalizationMessages.ERROR_WADL_JAXB_CONTEXT(), ex);
        }
    } finally {
        AccessController.doPrivileged(ReflectionHelper.setContextClassLoaderPA(contextClassLoader));
    }

    jaxbContext = jaxbContextCandidate;
}

@Override
public ApplicationDescription getApplication(UriInfo uriInfo, boolean detailedWadl) {
    ApplicationDescription applicationDescription = getWadlBuilder(detailedWadl, uriInfo)
        .generate(resourceContext.getResourceModel().getRootResources());
    final Application application = applicationDescription.getApplication();
    for (Resources resources : application.getResources()) {
        if (resources.getBase() == null) {
            resources.setBase(uriInfo.getBaseUri().toString());
        }
    }
    attachExternalGrammar(application, applicationDescription, uriInfo.getRequestUri());
    return applicationDescription;
@Override
public Application getApplication(UriInfo info,
    org.glassfish.jersey.server.model.Resource resource, boolean detailedWadl) {

    // Get the root application description
    //
    ApplicationDescription description = getApplication(info, detailedWadl);

    WadlGenerator wadlGenerator = wadlGeneratorConfig.createWadlGenerator(serviceLocator);
    Application application = new WadlBuilder(wadlGenerator, detailedWadl, info).generate(description, resource);
    if (application == null) {
        return null;
    }

    for (Resources resources : application.getResources()) {
        resources.setBase(info.getBaseUri().toString());
    }

    // Attach any grammar we may have
    attachExternalGrammar(application, description,
        info.getRequestUri());

    for (Resources resources : application.getResources()) {
        final Resource r = resources.getResource().get(0);
        r.setPath(info.getBaseUri().relativize(info.getAbsolutePath()).toString());
        // remove path params since path is fixed at this point
        r.getParam().clear();
    }

    return application;
}

// TODO probably no longer required
@Override
public JAXBContext getJAXBContext() {
    return jaxbContext;
}

private WadlBuilder getWadlBuilder(boolean detailedWadl, UriInfo uriInfo) {
    return (this.wadlGenerationEnabled ? new WadlBuilder(wadlGeneratorConfig.createWadlGenerator(serviceLocator),
        detailedWadl, uriInfo) : null);
}
```java
@override
public void setWadlGenerationEnabled(boolean wadlGenerationEnabled) {
    this.wadlGenerationEnabled = wadlGenerationEnabled;
}

@override
public boolean isWadlGenerationEnabled() {
    return wadlGenerationEnabled;
}

/**
 * Update the application object to include the generated grammar objects
 */
private void attachExternalGrammar(
    Application application,
    ApplicationDescription applicationDescription,
    URI requestURI) {

    // Massage the application.wadl URI slightly to get the right effect
    //
    try {
        final String requestURIPath = requestURI.getPath();

        if (requestURIPath.endsWith("application.wadl")) {
            requestURI = UriBuilder.fromUri(requestURI)
                .replacePath(
                    requestURIPath
                        .substring(0, requestURIPath.lastIndexOf('/') + 1))
                .build();

            String root = application.getResources().get(0).getBase();
            UriBuilder extendedPath = root != null ?
                UriBuilder.fromPath(root).path("/application.wadl/"
                    .substring(0, requestURIPath.lastIndexOf('/') + 1))
                .build() : null;

            URI rootURI = root != null ? UriBuilder.fromPath(root).build() : null;

            // Add a reference to this grammar
            //
            Grammars grammars;
            if (application.getGrammars() != null) {
                LOGGER.info(LocalizationMessages.ERROR_WADL_GRAMMAR_ALREADY_CONTAINS());
                grammars = application.getGrammars();
```
} else {
  grammars = new Grammars();
  application.setGrammars(grammars);
}

// Create a reference back to the root WADL
//

for (String path : applicationDescription.getExternalMetadataKeys()) {
  URI schemaURI =
    extendedPath.clone().path(path).build();

  String schemaPath = rootURI != null ?
    requestURI.relativize(schemaURI).toString()
  : schemaURI.toString();

  Include include = new Include();
  include.setHref(schemaPath);
  Doc doc = new Doc();
  doc.setLang("en");
  doc.setTitle("Generated");
  include.getDoc().add(doc);

  // Finally add to list
  grammars.getInclude().add(include);
}
} catch (Exception e) {
  throw new ProcessingException(LocalizationMessages.ERROR_WADL_EXTERNAL_GRAMMAR(), e);
}
}

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 */

package org.glassfish.jersey.server.wadl;

import javax.ws.rs.core.UriInfo;

import javax.xml.bind.JAXBContext;

import org.glassfish.jersey.server.wadl.internal.ApplicationDescription;

import com.sun.research.ws.wadl.Application;

/**
 * A context to obtain WADL-based information.
 *
 * @author Paul.Sandoz
 */

public interface WadlApplicationContext {

    /**
     * Get a WADL builder initiated with the configured [@link WadlGenerator]
     * for the Web application.
     *
     * @return the WADL builder.
     */
    WadlBuilder getWadlBuilder();

    /**
     * Get a new instance of a  [@link ApplicationDescription] corresponding to all
     */
/**
 * Get a new instance of a {@link ApplicationDescription} corresponding to all
 * the root resource classes, and configure the base URI.
 * @param ui the URI information from which the base URI is set on the
 *           WADL application.
 * @return the application description, the contents may be modified.
 */
ApplicationDescription getApplication(UriInfo ui, boolean detailedWadl);

/**
 * Get a new instance of {@link Application} for a particular resource.
 * @param info the URI information from which the base URI is set on the
 *              WADL application.
 * @param resource the resource to build the Application for
 * @return the application for this resource
 */
Application getApplication(UriInfo info, org.glassfish.jersey.server.model.Resource resource, boolean detailedWadl);

/**
 * Get the default JAXB context associated with the {@link WadlGenerator}
 * for the Web application.
 * @return the default JAXB context.
 */
JAXBContext getJAXBContext();

// /**
// * Get the default JAXB context path to create a {@link JAXBContext}.
// * @return the default JAXB context.
// */
// String getJAXBContextPath();

/**
 * Enable/disable WADL generation.
 * @param wadlGenerationEnabled if wadlGenerationEnabled is true and
 * {@link org.glassfish.jersey.server.ServerProperties#WADL_FEATURE_DISABLE}
is false, WADL generation is enabled. In all other cases is disabled.

*/

void setWadlGenerationEnabled(boolean wadlGenerationEnabled);

/**
 * Get WADL generation status.
 *
 * @return true when WADL generation is enabled. Does not take
 *         @link org.glassfish.jersey.server.ServerProperties#WADL_FEATURE_DISABLE
 */

boolean isWadlGenerationEnabled();

*/

```
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package org.glassfish.jersey.server.monitoring;

import java.util.Date;
import java.util.Map;
import java.util.Set;

/**
 * Application MX Bean.
 * @author Miroslav Fuksa (miroslav.fuksa at oracle.com)
 */
public interface ApplicationMXBean {

/**
 * Get the application name.
 * @return Application name.
 */
public String getApplicationName();

/**
 * Get the { @link javax.ws.rs.core.Application application class} used for configuration of Jersey application.
 * @return Application class name.
 */
public String getApplicationClass();

/**
 * Get the map of configuration properties converted to strings.
 * @return Map property keys to property string values.
 */
public Map<String, String> getProperties();

/**
 * Get the start time of the application (when application was initialized).
 * @return Application start time.
 */
public Date getStartTime();

/**
 * Get a set of string names of resource classes registered by the user.
 * @return Set of classes full names (with package names).
 */
public Set<String> getRegisteredClasses();

/**
 * Get a set of string names of classes of user registered instances.
 * @return Set of user registered instances converted to their class full names (with package names).
 * @see org.glassfish.jersey.server.monitoring.ApplicationEvent#getRegisteredInstances()
 * for specification of returned instances.
 */
public Set<String> getRegisteredInstances();

/**
 * Get classes of registered providers.
 * @return Set of provider class full names (with packages names).
 * @see org.glassfish.jersey.server.monitoring.ApplicationEvent#getProviders() for specification
 * of returned classes.
 */
public Set<String> getProviderClasses();
}
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package org.glassfish.jersey.server.monitoring;

import java.util.Set;

import org.glassfish.jersey.server.ResourceConfig;
import org.glassfish.jersey.server.model.ResourceModel;

/**
 * An event informing about application lifecycle changes. The event is created by Jersey runtime and 
 * handled by user registered [@link ApplicationEventListener application event listener].
 * <p/>
 * The event contains the [@link Type] which distinguishes between types of event. There are various 
 * properties in the event (accessible by getters) and some of them might be relevant only to specific event types.
 * <p/>
 * Note that internal state of the event must be modified. Even the event is immutable it exposes objects 
 * which might be mutable and the code of event listener must not change state of these objects.
 * <p/>
 * @author Miroslav Fuksa (miroslav.fuksa at oracle.com)
 *<p/>
 */

public interface ApplicationEvent {

    /**
     * The type of the event that identifies on which lifecycle change the event is triggered.
     */
    public static enum Type {

        /**
         * Initialization of the application has started. In this point no all the event properties
         * are initialized yet.
         */
        INITIALIZATION_START,

        /**
         * Initialization of [@link org.glassfish.jersey.server.ApplicationHandler jersey application] is
         * finished but the server might not be started and ready yet to serve requests (this will be
* indicated by the [@link #INITIALIZATION_FINISHED] event). This event indicates only that the
* environment is ready (all providers are registered, application is configured, etc.).
* 
* @since 2.5
*/

INITIALIZATION_APP_FINISHED,
/**
 * Initialization of the application has finished, server is started and application is ready
 * to handle requests now.
 */

INITIALIZATION_FINISHED,
/**
 * Application has been destroyed (stopped). In this point the application cannot process any new requests.
 */

DESTROY_FINISHED,
/**
 * The application reload is finished. The reload can be invoked by
 * @link org.glassfish.jersey.server.spi.Container#reload() method. When this event is triggered
 * the reload is completely finished, which means that the new application is initialized (appropriate
 * events are called) and new reloaded application is ready to server requests.
 */

RELOAD_FINISHED
}

/**
 * Return the type of the event.
 *
 * @return Event type.
 */

public Type getType();

/**
 * Get resource config associated with the application. The resource config is set for all event types.
 *
 * @return Resource config on which this application is based on.
 */

public ResourceConfig getResourceConfig();

/**
 * Get resource classes registered by the user in the current application. The set contains only
 * user resource classes and not resource classes added by Jersey
 * or by @link org.glassfish.jersey.server.model.ModelProcessor].
 *
 * <p/>
 * User resources are resources that
 * were explicitly registered by the configuration, discovered by the class path scanning or that
 * constructs explicitly registered [@link org.glassfish.jersey.server.model.Resource programmatic resource].
* @return Resource user registered classes.
*/
public Set<Class<?>> getRegisteredClasses();

/**
 * Get resource instances registered by the user in the current application. The set contains only
 * user resources and not resources added by Jersey
 * or by {@link org.glassfish.jersey.server.model.ModelProcessor).
 * @return Resource instances registered by user.
*/
public Set<Object> getRegisteredInstances();

/**
 * Get registered providers available in the runtime. The registered providers
 * are providers like [org.glassfish.jersey.server.model.MethodList.Filter filters],
 * [javax.ws.rs.ext.ReaderInterceptor reader] and [javax.ws.rs.ext.WriterInterceptor writer]
 * interceptors which are explicitly registered by configuration, or annotated by
 * [javax.ws.rs.ext.Provider @Provider] or registered in META-INF/services. The
 * set does not include providers that are by default built in Jersey.
 * @return Set of provider classes.
*/
public Set<Class<?>> getProviders();

/**
 * Get the resource model of the application. The method returns null for
 * [Type#INITIALIZATION_START] event type as the resource model is not initialized yet.
 * The returned resource model is the final deployed model including resources enhanced by
 * [org.glassfish.jersey.server.model.ModelProcessor model processors].
 * @return Resource model of the deployed application.
*/
public ResourceModel getResourceModel();

}
package org.glassfish.jersey.server.monitoring;

import javax.ws.rs.ConstrainedTo;
import javax.ws.rs.RuntimeType;
import org.glassfish.jersey.spi.Contract;

/**
 * Jersey specific provider that listens to [@link ApplicationEvent application events].
 * The implementation of this interface will be called for two kind of events:
 * application events and [@link RequestEvent request events]. This interface will listen to
 * all [@link org.glassfish.jersey.server.monitoring.ApplicationEvent.Type application event types]
 * but only to first request event which is the [@link RequestEvent.Type#START]. On this event the
 * request event listener can decide whether it will listen to the request and return [@link RequestEventListener
 * request event listener] for listening to further request events.
 * */
The implementation of this interface can be registered as a standard Jersey/JAX-RS provider by annotating with `@Provider` annotation in the case of class path scanning, by registering as a provider using `@org.glassfish.jersey.server.ResourceConfig` or by returning from `@Application#getClasses()` or `@Application#getSingletons()`]. The provider can be registered only on the server side.

Application event listener can read data of events but must not modify them in any way. The implementation must be thread safe (the methods might be called from different threads).

@Contract
@ConstrainedTo(RuntimeType.SERVER)
public interface ApplicationEventListener {

/**
 * Process the application event. This method is called when new event occurs.
 * @param event Application event.
 */
public void onEvent(ApplicationEvent event);

/**
 * Process a new request and return a request event listener if listening to request events is required. The method is called once for each new incoming request. If listening to the request is required then request event must be returned from the method. Such a request event listener will receive all request events that one request. If listening to request event for the request is not required then null must be returned from the method (do not return empty mock listener in these cases as it will have negative performance impact).
 * @param requestEvent Event of type RequestEvent.Type#START.
 * @return Request event listener that will monitor the events of the request connected with requestEvent; null otherwise.
 */
public RequestEventListener onRequest(RequestEvent requestEvent);
}

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 */
package org.glassfish.jersey.server.monitoring;

import java.util.Date;
import java.util.Set;

import org.glassfish.jersey.server.ResourceConfig;

/**
 * Monitoring statistics and configuration of an application.
 * <p/>
 * Statistics retrieved from Jersey runtime might be mutable and thanks to it might provide inconsistent data
 * as not all statistics are updated in the same time. To retrieve the immutable and consistent
 * statistics data the method { @link #snapshot() } should be used.
 *<p/>
 */

public interface ApplicationStatistics {
public ResourceConfig getResourceConfig();

public Date getStartTime();

public Date getDestroyTime();

public Set<Class<?>> getRegisteredClasses();
 */
public Set<Object> getRegisteredInstances();

/**
* Get registered providers available in the runtime. The registered providers
* are providers like \{\link org.glassfish.jersey.server.model.MethodList.Filter filters\},
* \{\link javax.ws.rs.ext.ReaderInterceptor reader\} and \{\link javax.ws.rs.ext.WriterInterceptor writer\}
* interceptors which are explicitly registered by configuration, or annotated by
* \{\link javax.ws.rs.ext.Provider @Provider\} or registered in META-INF/services. The
* set does not include providers that are by default built in Jersey.
*
* @return Set of provider classes.
*/
public Set<Class<?>> getProviders();

/**
* Get the immutable consistent snapshot of the monitoring statistics. Working with snapshots might
* have negative performance impact as snapshot must be created but ensures consistency of data over time.
* However, the usage of snapshot is encouraged to avoid working with inconsistent data. Not all statistics
* must be updated in the same time on mutable version of statistics.
*
* @return Snapshot of application statistics.
*/
public ApplicationStatistics snapshot();

3.65 jest 0.1.5
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Version 2.0, January 2004

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Point of Contact:
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Date:

Signature:

Name: Gordon King

Positions: Chief Operational Officer

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E-Mail: david_jencks@yahoo.com
Mailing Address: 2215 SE 39th Ave, Portland OR 97214 USA

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Mailing Address: 62 Church St. Balmain, NSW 2041, Australia

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Zokttk0bTHfwaa5TtxQbScw=
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Version: GnuPG v1.4.1 (Darwin)

iD8DBQFD37/4dL6IZr4c+6kRAtsIAJ41tfd3lj4OM6sIMfJfT0dYdT1bxwCdGgWv
8sfMxEDZqu1qhVbfZU2e76U=
=8WW7
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Full name: Julian Anthony Fox Gosnell
E-Mail: jules@coredevelopers.net
Mailing Address: 2, Tannery Cottages, Tannery Lane, Bramley, Surrey, GU5 0AB, UK.

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Version: GnuPG v1.4.2.1 (GNU/Linux)
iD8DBQFEEbh9S0t4b97cQk4RAntCMAKCuNGYLiHa6n/Ot3GEdwCCLeQxsMPACdEhnE I/stizRWWZZkeLbcg1zdQCE=
=piHm
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Version: GnuPG v1.4.4 (MingW32)

iD8DBQFEt1ZxHR/ESK2w6H8RApboAJ9c1eooNn2oN59WZVitJExGjyVuKgCfaKji
6etDJ6AUj0jTu5I5hUsWMQ=
=HmqH
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Version: GnuPG v1.4.3 (GNU/Linux)

iD8DBQFFoniQJlVhlFus9dGQRAmJmAJwL5yi1oohlVQIICsparvjHMQuwqwCgiZFy
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Version: GnuPG v1.4.10 (GNU/Linux)

iQECAEBAgAGBQJQBtAaJEMHljBmtgF91HDchI/2nQDPuPztWFrBifnEolF6Jl
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FNWKpzaeX+SQgMak6hsuatX66VkJ6sIaskwEgl6+Xk+HYWy23ZQ8BKQRLKOZTw=
=gAqN
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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

javax.servlet:javax.servlet-api
javax.servlet.jsp:javax.servlet.jsp-api
org.glassfish.web:javax.servlet.jsp
org.glassfish.web:javax.servlet.jsp
org.glassfish.web:javax.servlet.jsp.jstl
org.eclipse.jetty.orbit:javax.servlet.jsp.jstl

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Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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3.76 Logstash_jruby 1.4.2
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### 3.77 Logstash_LGPL 1.4.2

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 *
 */

package org.slf4j.helpers;

import java.io.ObjectStreamException;
import java.io.Serializable;

import java.io.ObjectStreamException;
import java.io.Serializable;
import org.slf4j.Logger;
import org.slf4j.LoggerFactory;

/**
 * Serves as base class for named logger implementation. More significantly, this
 * class establishes deserialization behavior. See @see #readResolve.
 * @author Ceki Gulcu
 * @since 1.5.3
 */
abstract class NamedLoggerBase implements Logger, Serializable {

private static final long serialVersionUID = 7535258609338176893L;

protected String name;

public String getName() {
    return name;
}

/**
 * Replace this instance with a homonymous (same name) logger returned
 * by LoggerFactory. Note that this method is only called during
 * deserialization.
 *
 * <p>
 * This approach will work well if the desired ILoggerFactory is the one
 * references by LoggerFactory. However, if the user manages its logger hierarchy
 * through a different (non-static) mechanism, e.g. dependency injection, then
 * this approach would be mostly counterproductive.
 *
 * @return logger with same name as returned by LoggerFactory
 * @throws ObjectStreamException
 */
protected Object readResolve() throws ObjectStreamException {
    // using getName() instead of this.name works even for
    // NOPLogger
    return LoggerFactory.getLogger(getName());
}

}
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4.3 activemq-all 5.11.1

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<tbody>
<tr>
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<td>viewmag+.png</td>
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HISTORY -

Early versions of this collector were developed as a part of research projects supported in part by the National Science Foundation and the Defense Advance Research Projects Agency.

The garbage collector originated as part of the run-time system for the Russell programming language implementation. The first version of the garbage collector was written primarily by Al Demers. It was then refined and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U., the University of Washington, Rice University (where it was first used for C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant contributions have also been made by many others.

Some other contributors:

More recent contributors are mentioned in the modification history in README.changes. My apologies for any omissions.

The SPARC specific code was originally contributed by Mark Weiser. The Encore Multimax modifications were supplied by Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely due to Vernon Lee, on machines made available to Rice by IBM. Much of the HP specific code and a number of good suggestions for improving the generic code are due to Walter Underwood. Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code. Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code. Jesper Peterson(jep@mtiame.mtia.oz.au), Michel Schinz, and Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port. Thomas Funke (thf@zelator.in-berlin.de(?)) and
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Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code.
Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader
specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and
Sony News specific code. Al Dossor provided Alpha/OSF/1 code. He and
Dave Detlefs (detlefs@src.dec.com) also provided several generic bug fixes.
Alistair G. Crooks (agc@uts.amdahl.com) supplied the NetBSD and 386BSD ports.
Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port.
Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to
a Motorola 88K processor running CX/UX (Harris NightHawk).
Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to
nonIBM development environments (a nontrivial task).
Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port.
David Chase, then at Olivetti Research, suggested several improvements.
Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the
code to save and print call stacks for leak detection on a SPARC.
Jesse Hull and John Ellis supplied the C++ interface code.
Zhong Shao performed much of the experimentation that led to the
current typed allocation facility. (His dynamic type inference code hasn't
made it into the released version of the collector, yet.)
This package was debianized by Vladimir Prus <ghost@cs.msu.su> on

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4.47 bootstrap 3.0.3

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   (For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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4.76 DHTML Calendar 1.0 :2005-03-07 Mihai Bazon

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* ---------------------------------------------------------------------------
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*
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*
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*/

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AppleJavaExtensions
v 1.2


This is a pluggable jar of stub classes representing the new Apple
eAWT and eIO APIs for Java 1.4 on Mac OS X. The purpose of these
stubs is to allow for compilation of eAWT- or eIO-referencing code on
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runtime classpath on non-Mac platforms. Please see the OSXAdapter
sample for how to write cross-platform code that uses eAWT.

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On 13 Aug 2004, at 12:33 AM, mdrance@apple.com wrote:

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v 1.2

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It was downloaded from http://www.graphviz.org/

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2006-2008, Cyril Brulebois <cyril.brulebois@enst-bretagne.fr>

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4.115 guice-jndi 3.0

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4.131 histedit 1.46

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FYI: Brian also added: "A bit of history might be in order. The codec classes that you used originally were based on some classes included with JAI but not strictly part of JAI. As of Java SE 1.4 an official Image I/O framework was added in javax.imageio.... This framework supports these formats:

Java 1.4: GIF (read only), JPEG, PNG
Java 1.5: Added support for BMP and WBMP
Java 1.6: Added support for writing GIF

The JAI Image I/O Tools packages (jai-imageio-core) were created
to support formats handled by JAI but not included in Java SE as well as some new things like JPEG2000."

(4) the file com/lowagie/text/pdf/codec/TIFFConstants
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4.150 jackson-core-asl 1.8.5

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4.153 jackson-jaxrs 1.8.5
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4.154 jackson-mapper-asl 1.9.13

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4.155 jackson-mapper-asl 1.4.0.

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4.156 jackson-mapper-asl 1.8.5

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4.157 jackson-mapper-asl 1.9.0

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 */
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(1)

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(2)

SimpleXMLParser:
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Jennifer Orr (JavaWorld) wrote: "You have permission to use the code appearing in Steven Brandt's JavaWorld article, 'Java Tip 128: Create a quick-and-dirty XML parser.' We ask that you reference the author as the creator and JavaWorld as the original publisher of the code." Steven Brandt also agreed with the use of this class.

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In a mail sent to Bruno Lowagie on January 23, 2008, Brian Burkhalter (@sun.com) writes: "This code is under a BSD license and supersedes the older codec packages on which your code is based. It also includes numerous fixes among them being the ability to handle a lot of 'broken' TIFFs."

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FYI: Brian also added: "A bit of history might be in order. The codec classes that you used originally were based on some classes included with JAI but not strictly part of JAI. As of Java SE 1.4 an official Image I/O framework was added in javax.imageio.... This framework supports these formats:

Java 1.4: GIF (read only), JPEG, PNG
Java 1.5: Added support for BMP and WBMP
Java 1.6: Added support for writing GIF

The JAI Image I/O Tools packages (jai-imageio-core) were created to support formats handled by JAI but not included in Java SE as well as some new things like JPEG2000."

(4) the file com/lowagie/text/pdf/codec/TIFFConstants
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xml-commons/java/external/README.dom.txt $Id: README.dom.txt 477038 2006-11-20 04:40:36Z mrglavas $

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(Note: SAC (The Simple API for CSS) has been published under an older
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The actual DOM Java Language Binding classes in xml-commons came from:
http://www.w3.org/TR/2004/REC-DOM-Level-3-Core-20040407/java-binding.html

The specification of DOM Level 3’s various parts is at:
http://www.w3.org/TR/2004/REC-DOM-Level-3-Core-20040407/
http://www.w3.org/TR/2004/REC-DOM-Level-3-LS-20040407/
http://www.w3.org/TR/2004/NOTE-DOM-Level-3-XPath-20040226/

The specification of DOM Level 2’s various parts is at:
http://www.w3.org/TR/2000/REC-DOM-Level-2-Events-20001113/
http://www.w3.org/TR/2000/REC-DOM-Level-2-Style-20001113/
http://www.w3.org/TR/2000/REC-DOM-Level-2-Traversal-Range-20001113/
http://www.w3.org/TR/2000/REC-DOM-Level-2-Views-20001113/

The specification of DOM Level 1’s various parts is at:
Links to all available W3C DOM Java Bindings can be found at:
http://www.w3.org/DOM/DOMTR

The actual classes of The Simple API for CSS (SAC) came from:
http://www.w3.org/Style/CSS/SAC/
http://www.w3.org/2002/06/sacjava-1.3.zip

The actual DOM Java Language Binding classes for SMIL came from:
http://dev.w3.org/cvsweb/java/classes/org/w3c/dom/smil/
(both ElementTimeControl.java and TimeEvent.java were taken at revision 1.1)

The actual DOM Java Language Binding classes for SVG 1.1 came from:
http://www.w3.org/TR/SVG11/java.html
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When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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Because of this blurred distinction, using the ordinary General
Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation
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root function must still compute square roots.)

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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4.174 jaxrs-api 2.3.6 :Final

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*/

package org.jdom;
/**
 * An XML comment. Methods allow the user to get and set the text of the
 * comment.
 */

/*@version $Revision: 1.32 $, $Date: 2004/02/11 21:12:43 $ @author Brett McLaughlin
@version $Revision: 1.32 $, $Date: 2004/02/11 21:12:43 $ @author Jason Hunter
*/

public class Comment extends Content {

private static final String CVS_ID =
    "@(#) $RCSfile: Comment.java,v $ $Revision: 1.32 $ $Date: 2004/02/11 21:12:43 $ $Name: jdom_1_0 $";

    /** Text of the <code>Comment</code> */
    protected String text;

    /**
     * Default, no-args constructor for implementations to use if needed.
     */
    protected Comment() {}

    /**
     * This creates the comment with the supplied text.
     *
     * @param text <code>String</code> content of comment.
     */
    public Comment(String text) {
        setText(text);
    }

    /**
     * Returns the XPath 1.0 string value of this element, which is the
     * text of this comment.
     *
     * @return the text of this comment
     */
    public String getValue() {
        return text;
    }

    /**
     * This returns the textual data within the <code>Comment</code>.
     *
     * @return <code>String</code> - text of comment.
     */
    public String getText() {
    }
}
/**
 * This will set the value of the <code>Comment</code>.
 *
 * @param text <code>String</code> text for comment.
 * @return <code>Comment</code> - this Comment modified.
 * @throws IllegalDataException if the given text is illegal for a
 *      Comment.
 */

public Comment setText(String text) {
    String reason;
    if ((reason = Verifier.checkCommentData(text)) != null) {
        throw new IllegalDataException(text, "comment", reason);
    }
    this.text = text;
    return this;
}

/**
 * This returns a <code>String</code> representation of the
 * <code>Comment</code>, suitable for debugging. If the XML
 * representation of the <code>Comment</code> is desired,
 * [ @link org.jdom.output.XMLOutputter#outputString(Comment) ]
 * should be used.
 *
 * @return <code>String</code> - information about the
 *      <code>Attribute</code>
 */

public String toString() {
    return new StringBuffer()
        .append("[Comment: ")
        .append(new org.jdom.output.XMLOutputter().outputString(this))
        .append("]")
        .toString();
}

4.183 jdt-compiler 3.1.1
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May 11, 2006
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4.184 jersey-bundle 1.17.1

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The primary ANTLR guy:

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That's all there is to it!
======================================================================

The binary file of the original library has been modified by Atlassian in such way that classes have changed their package name from 'com.google.json' to 'clover.com.google.json'. This was necessary to avoid potential name conflicts during instrumentation of a code using the original library when using Clover. No source code of the original library was modified.

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their package name from 'com.lowagie' to 'clover.com.lowagie'. This was necessary to
avoid potential name conflicts during instrumentation of a code using the original library when using Clover.
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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

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When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a
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e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception,
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That's all there is to it!
/*--

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Version 2.1, February 1999

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That's all there is to it!
/*
File: Core.js

Description:

Provides common utility functions and the Class object used internally by the library.

Also provides the <TreeUtil> object for manipulating JSON tree structures


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Nicolas Garcia Belmonte

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4.209 jquery.cookie.js 1.0 :2010

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4.210 jquery.preload 1.0.8

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4.214 json 20080701

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4.215 jsoup 1.6.3

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4.237 Logstash_LGPL 1.4.2
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```ruby
# encoding: utf-8
# xdr.rb - A module for reading and writing data in the XDR format
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# [ Note that while the core GeoIP library is licensed under the
# LGPL, the libGeoIPUpdate library depends on md5.c and types.h
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```

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4.238 Lucene Analyzers 2.9.1

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4.258 oauth-provider 20100527.

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    package net.oauth;

    import java.io.IOException;
    import java.net.URISyntaxException;


import java.util.ArrayList;
import java.util.Collection;
import java.util.Collections;
import java.util.Date;
import java.util.HashMap;
import java.util.HashSet;
import java.util.Iterator;
import java.util.Map;
import java.util.Set;
import java.util.TreeSet;
import net.oauth.signature.OAuthSignatureMethod;

//TODO: move this class into oauth-provider
/**
 * A simple OAuthValidator, which checks the version, whether the timestamp is
 * close to now, the nonce hasn't been used before and the signature is valid.
 * Each check may be overridden.
 * <p>
 * This implementation is less than industrial strength:
 * <ul>
 *   <li>Duplicate nonces won't be reliably detected by a service provider running
 *   in multiple processes, since the used nonces are stored in memory.</li>
 *   <li>The collection of used nonces is a synchronized choke point</li>
 *   <li>The used nonces may occupy lots of memory, although you can minimize this
 *   by calling releaseGarbage periodically.</li>
 *   <li>The range of acceptable timestamps can't be changed, and there's no
 *   system for increasing the range smoothly.</li>
 *   <li>Correcting the clock backward may allow duplicate nonces.</li>
 * </ul>
 * For a big service provider, it might be better to store used nonces in a
 * database.
 * 
 * @author Dirk Balfanz
 * @author John Kristian
 */
public class SimpleOAuthValidator implements OAuthValidator {

  /** The default maximum age of timestamps is 5 minutes. */
  public static final long DEFAULT_MAX_TIMESTAMP_AGE = 5 * 60 * 1000L;
  public static final long DEFAULT_TIMESTAMP_WINDOW = DEFAULT_MAX_TIMESTAMP_AGE;

  /**
   * Names of parameters that may not appear twice in a valid message.
   * This limitation is specified by OAuth Core <a
   * href="http://oauth.net/core/1.0#anchor7">section 5</a>.
   */
  public static final Set<String> SINGLE_PARAMETERS = constructSingleParameters();
private static Set<String> constructSingleParameters() {
    Set<String> s = new HashSet<String>();
    for (String p : new String[] { OAuth.OAUTH_CONSUMER_KEY, OAuth.OAUTH_TOKEN,
                                   OAuth.OAUTH_TOKEN_SECRET, OAuth.OAUTH_CALLBACK, OAuth.OAUTH_SIGNATURE_METHOD,
                                   OAuth.OAUTH_SIGNATURE, OAuth.OAUTH_TIMESTAMP, OAuth.OAUTH_NONCE, OAuth.OAUTH_VERSION }) {
        s.add(p);
    }
    return Collections.unmodifiableSet(s);
}

/**
 * Construct a validator that rejects messages more than five minutes old or
 * with a OAuth version other than 1.0.
 */
public SimpleOAuthValidator() {
    this(DEFAULT_TIMESTAMP_WINDOW, Double.parseDouble(OAuth.VERSION_1_0));
}

/**
 * Public constructor.
 *
 * @param maxTimestampAgeMsec
 *            the range of valid timestamps, in milliseconds into the past
 *            or future. So the total range of valid timestamps is twice
 *            this value, rounded to the nearest second.
 * @param maxVersion
 *            the maximum valid oauth_version
 */
public SimpleOAuthValidator(long maxTimestampAgeMsec, double maxVersion) {
    this.maxTimestampAgeMsec = maxTimestampAgeMsec;
    this.maxVersion = maxVersion;
}

protected final double minVersion = 1.0;
protected final double maxVersion;
protected final long maxTimestampAgeMsec;
private final Set<UsedNonce> usedNonces = new TreeSet<UsedNonce>();

/**
 * Allow objects that are no longer useful to become garbage.
 *
 * @return the earliest point in time at which another call will release
 *         some garbage, or null to indicate there's nothing currently
 *         stored that will become garbage in future. This value may change,
 *         each time releaseGarbage or validateNonce is called.
 */
public Date releaseGarbage() {
    return removeOldNonces(currentTimeMsec());
}

/**
 * Remove usedNonces with timestamps that are too old to be valid.
 */
private Date removeOldNonces(long currentTimeMsec) {
    UsedNonce next = null;
    UsedNonce min = new UsedNonce((currentTimeMsec - maxTimestampAgeMsec + 500) / 1000L);
    synchronized (usedNonces) {
        // Because usedNonces is a TreeSet, its iterator produces
        // elements from oldest to newest (their natural order).
        for (Iterator<UsedNonce> iter = usedNonces.iterator(); iter.hasNext();) {
            UsedNonce used = iter.next();
            if (min.compareTo(used) <= 0) {
                next = used;
                break; // all the rest are also new enough
            }
            iter.remove(); // too old
        }
    }
    if (next == null)
        return null;
    return new Date((next.getTimestamp() * 1000L) + maxTimestampAgeMsec + 500);
}

/** {@inheritDoc}
 * @throws URISyntaxException */
public void validateMessage(OAuthMessage message, OAuthAccessor accessor)
    throws OAuthException, IOException, URISyntaxException {
    checkSingleParameters(message);
    validateVersion(message);
    validateTimestampAndNonce(message);
    validateSignature(message, accessor);
}

/** Throw an exception if any SINGLE_PARAMETERS occur repeatedly. */
protected void checkSingleParameters(OAuthMessage message) throws IOException, OAuthException {
    boolean repeated = false;
    Map<String, Collection<String>> nameToValues = new HashMap<String, Collection<String>>() {
        for (Map.Entry<String, String> parameter : message.getParameters()) {
            String name = parameter.getKey();
            if (SINGLE_PARAMETERS.contains(name)) {
                Collection<String> values = nameToValues.get(name);
                if (values == null) {
                    values = new ArrayList<String>();
                }
                values.add(parameter.getValue());
                repeated = true;
            }
        }
        if (repeated)
            throw new IOException("Multiple occurrences of SINGLE_PARAMETERS: " + message.toString());
    }
}
nameToValues.put(name, values);
} else {
    repeated = true;
}
values.add(parameter.getValue());
}
}
if (repeated) {
    Collection<OAuth.Parameter> rejected = new ArrayList<OAuth.Parameter>();
    for (Map.Entry<String, Collection<String>> p : nameToValues.entrySet()) {
        String name = p.getKey();
        Collection<String> values = p.getValue();
        if (values.size() > 1) {
            for (String value : values) {
                rejected.add(new OAuth.Parameter(name, value));
            }
        }
    }
    OAuthProblemException problem = new OAuthProblemException(OAuth.Problems.PARAMETER_REJECTED);
    problem.setParameter(OAuth.Problems.OAUTH_PARAMETERS_REJECTED, OAuth.formEncode(rejected));
    throw problem;
}
}

protected void validateVersion(OAuthMessage message) throws OAuthException, IOException {
    String versionString = message.getParameter(OAuth.OAUTH_VERSION);
    if (versionString != null) {
        double version = Double.parseDouble(versionString);
        if (version < minVersion || maxVersion < version) {
            OAuthProblemException problem = new OAuthProblemException(OAuth.Problems.VERSION_REJECTED);
            problem.setParameter(OAuth.Problems.OAUTH_ACCEPTABLE_VERSIONS, minVersion + "~" + maxVersion);
            throw problem;
        }
    }
}

/**
 * Throw an exception if the timestamp is out of range or the nonce has been validated previously.
 */
protected void validateTimestampAndNonce(OAuthMessage message) throws IOException, OAuthProblemException {
    message.requireParameters(OAuth.OAUTH_TIMESTAMP, OAuth.OAUTH_NONCE);
long timestamp = Long.parseLong(message.getParameter(OAuth.OAUTH_TIMESTAMP));
long now = currentTimeMsec();
validateTimestamp(message, timestamp, now);
validateNonce(message, timestamp, now);
}

/** Throw an exception if the timestamp [sec] is out of range. */
protected void validateTimestamp(OAuthMessage message, long timestamp, long currentTimeMsec) throws IOException, OAuthProblemException {
    long min = (currentTimeMsec - maxTimestampAgeMsec + 500) / 1000L;
    long max = (currentTimeMsec + maxTimestampAgeMsec + 500) / 1000L;
    if (timestamp < min || max < timestamp) {
        OAuthProblemException problem = new OAuthProblemException(OAuth.Problems.TIMESTAMP_REFUSED);
        problem.setParameter(OAuth.Problems.OAUTH_ACCEPTABLE_TIMESTAMPS, min + "-" + max);
        throw problem;
    }
}

/**
 * Throw an exception if the nonce has been validated previously.
 * @return the earliest point in time at which a call to releaseGarbage
 *         will actually release some garbage, or null to indicate there's
 *         nothing currently stored that will become garbage in future.
 */
protected Date validateNonce(OAuthMessage message, long timestamp, long currentTimeMsec) throws IOException, OAuthProblemException {
    UsedNonce nonce = new UsedNonce(timestamp, message.getParameter(OAuth.OAUTH_NONCE), message.getConsumerKey(), message.getToken());
    boolean valid = false;
    synchronized (usedNonces) {
        valid = usedNonces.add(nonce);
    }
    if (!valid) {
        throw new OAuthProblemException(OAuth.Problems.NONCE_USED);
    }
    return removeOldNonces(currentTimeMsec);
}

protected void validateSignature(OAuthMessage message, OAuthAccessor accessor)
throws OAuthException, IOException, URISyntaxException {
message.requireParameters(OAuth.OAUTH_CONSUMER_KEY,
OAuth.OAUTH_SIGNATURE_METHOD, OAuth.OAUTH_SIGNATURE);
OAuthSignatureMethod.newSigner(message, accessor).validate(message);
}
/** Get the number of milliseconds since midnight, January 1, 1970 UTC. */
protected long currentTimeMsec() {
return System.currentTimeMillis();
}
/**
* Selected parameters from an OAuth request, in a form suitable for
* detecting duplicate requests. The implementation is optimized for the
* comparison operations (compareTo, equals and hashCode).
*
* @author John Kristian
*/
private static class UsedNonce implements Comparable<UsedNonce> {
/**
* Construct an object containing the given timestamp, nonce and other
* parameters. The order of parameters is significant.
*/
UsedNonce(long timestamp, String... nonceEtc) {
StringBuilder key = new StringBuilder(String.format("%20d", Long.valueOf(timestamp)));
// The blank padding ensures that timestamps are compared as numbers.
for (String etc : nonceEtc) {
key.append("&").append(etc == null ? " " : OAuth.percentEncode(etc));
// A null value is different from "" or any other String.
}
sortKey = key.toString();
}
private final String sortKey;
long getTimestamp() {
int end = sortKey.indexOf("&");
if (end < 0)
end = sortKey.length();
return Long.parseLong(sortKey.substring(0, end).trim());
}
/**
* Determine the relative order of <code>this</code> and
* <code>that</code>, as specified by Comparable. The timestamp is most
* significant; that is, if the timestamps are different, return 1 or
* -1. If <code>this</code> contains only a timestamp (with no nonce
* etc.), return -1 or 0. The treatment of the nonce etc. is murky,

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public int compareTo(UsedNonce that) {
    return (that == null) ? 1 : sortKey.compareTo(that.sortKey);
}

@Override
public int hashCode() {
    return sortKey.hashCode();
}

/**
 * Return true iff <code>this</code> and <code>that</code> contain equal
 * timestamps, nonce etc., in the same order.
 */
@Override
public boolean equals(Object that) {
    if (that == null)
        return false;
    if (that == this)
        return true;
    if (that.getClass() != getClass())
        return false;
    return sortKey.equals(((UsedNonce) that).sortKey);
}

@Override
public String toString() {
    return sortKey;
}

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4.261 OpenSSL patch to 0.9.8 branch to add RFC5649 (key wrap with pad) 1.0

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/* crypto/aes/aes_wrap.c */
/* Written by Dr Stephen N Henson (steve@openssl.org) for the OpenSSL project.
* Modified by Attaullah Baig (abaig@paypal.com) to wrap/unwrap any size keys (Implemented RFC5649)
*/

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4.263 org.restlet.example 2.0.9

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4.264 org.restlet.ext.atom 2.1.0

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4.265 org.restlet.ext.atom 2.0.9
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4.267 org.restlet.ext.crypto 2.1.0

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4.268 org.restlet.ext.emf 2.1.0

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4.280 org.restlet.ext.jackson 2.1.0

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4.283 org.restlet.ext.javamail 2.1.0
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4.284 org.restlet.ext.jaxb 2.0.9

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4.289 org.restlet.ext.jdbc 2.1.0

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4.291 org.restlet.ext.jibx 2.1.0

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4.292 org.restlet.ext.jibx 2.0.9

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4.293 org.restlet.ext.json 2.0.9

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4.295 org.restlet.ext.lucene 2.0.9

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4.297 org.restlet.ext.net 2.1.0

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4.307 org.restlet.ext.sdc 2.1.0

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4.308 org.restlet.ext.servlet 2.0.9

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4.309 org.restlet.ext.simple 2.1.0

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4.313 org.restlet.ext.spring 2.1.0

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4.317 org.restlet.ext.velocity 2.0.9

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4.318 org.restlet.ext.velocity 2.1.0
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4.319 org.restlet.ext.wadl 2.0.9

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4.320 org.restlet.ext.wadl 2.1.0

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4.321 org.restlet.ext.xdb 2.0.9

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4.323 org.restlet.ext.xml 2.1.0

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4.324 org.restlet.ext.xstream 2.1.0

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4.329 persistence-api 1.0

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/* * It does require the zlib library and optionally the IJG jpeg library,  */
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/* * inclusion of support for JNG and Full-Color-Management respectively.   */
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/* * component! It does however offer creation and editing functionality    */
/* * at the chunk level.                                                   */
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Each party acknowledges that during the Term of this Agreement it shall have access to information about the other party's business, business methods, business plans, customers, business relations, technology, and
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"Confidential Information" shall not include information that (a) is or becomes generally known to the public through no act or omission of the Receiving Party; (b) was in the Receiving Party's lawful possession prior to the disclosure hereunder and was not subject to limitations on disclosure or use; (c) is developed by the Receiving Party without access to the Confidential Information of the Disclosing Party or by persons who have not had access to the Confidential Information of the Disclosing Party as proven by the written records of the Receiving Party; (d) is lawfully disclosed to the Receiving Party without restrictions, by a third party not under an obligation of confidentiality; or (e) the Receiving Party is legally compelled to disclose the information, in which case the Receiving Party shall assert the privileged and confidential nature of the information and cooperate fully with the Disclosing Party to protect against and prevent disclosure of any Confidential Information and to limit the scope of disclosure and the dissemination of disclosed Confidential Information by all legally available means.

The obligations of the Receiving Party under this Section shall continue during the Initial Term and for a period of five (5) years after expiration or termination of this Agreement. To the extent that the terms of the Non-Disclosure Agreement between Digia and Licensee conflict with the terms of this Section 9, this Section 9 shall be controlling over the terms of the Non-Disclosure Agreement.

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This Agreement constitutes the complete agreement between the parties and supersedes all prior or contemporaneous discussions, representations, and proposals, written or oral, with respect to the subject matters discussed herein, with the exception of the non-disclosure agreement executed by the parties in connection with this Agreement ("Non-Disclosure Agreement"), if any, shall be subject to Section 9. No modification of this Agreement shall be effective unless contained in a writing executed by an authorized representative of each party. No term or condition contained in Licensee's purchase order shall apply unless expressly accepted by Digia in writing. If any provision of the Agreement is found void or unenforceable, the remainder shall remain valid and enforceable according to its terms. If any remedy provided is determined to have failed for its essential purpose, all limitations of liability and exclusions of damages set forth in this Agreement shall remain in effect.

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TECHNOLOGY PREVIEW LICENSE AGREEMENT: Rest of the World Agreement version 2.4

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"Applications" shall mean Licensee's software products created using the Licensed Software which may include portions of the Licensed Software.

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“Confidential Information” shall not include information that (a) is or becomes generally known to the public through no act or omission of the Receiving Party; (b) was in the Receiving Party’s lawful possession prior to the disclosure hereunder and was not subject to limitations on disclosure or use; (c) is developed by the Receiving Party without
access to the Confidential Information of the Disclosing Party or by persons who have not had access to the Confidential Information of the Disclosing Party as proven by the written records of the Receiving Party; (d) is lawfully disclosed to the Receiving Party without restrictions, by a third party not under an obligation of confidentiality; or (e) the Receiving Party is legally compelled to disclose the information, in which case the Receiving Party shall assert the privileged and confidential nature of the information and cooperate fully with the Disclosing Party to protect against and prevent disclosure of any Confidential Information and to limit the scope of disclosure and the dissemination of disclosed Confidential Information by all legally available means.

The obligations of the Receiving Party under this Section shall continue during the Initial Term and for a period of five (5) years after expiration or termination of this Agreement. To the extent that the terms of the Non-Disclosure Agreement between Digia and Licensee conflict with the terms of this Section 9, this Section 9 shall be controlling over the terms of the Non-Disclosure Agreement.

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This Agreement shall be construed and interpreted in accordance with the laws of Finland, excluding its choice of law provisions. Any disputes arising out of or relating to this Agreement shall be resolved in arbitration under the Rules of Arbitration of the Chamber of Commerce of Helsinki, Finland. The arbitration tribunal shall consist of one (1), or if either Party so requires, of three (3), arbitrators. The award shall be final and binding and enforceable in any court of competent jurisdiction. The arbitration shall be held in Helsinki, Finland and the process shall be conducted in the English language.

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c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.
(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form
under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit
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with the Library, with the complete machine-readable "work that
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user can modify the Library and then relink to produce a modified
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to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the
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For an executable, the required form of the "work that uses the
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Appendix: How to Apply These Terms to Your New Programs

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    <signature of Ty Coon>, 1 April 1989
    Ty Coon, President of Vice

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2006, 2007 Alexander Kellett, Alexey Proskuryakov, Alex Mathews, Allan

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Because of this blurred distinction, using the ordinary General
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A C-program for MT19937, with initialization improved 2002/1/26.
Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using init_genrand(seed)
or init_by_array(init_key, key_length).

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system_wrappers/source/spreadsortlib/constants.hpp
system_wrappers/source/spreadsortlib/spreadsort.hpp

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common_audio/signal_processing/spl_sqrt_floor_arm.S

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 *
 * From: Wilco Dijkstra <Wilco.Dijkstra@ntlworld.com>
 * Date: Fri, Jun 24, 2011 at 3:20 AM
 * Subject: Re: sqrt routine
 * To: Kevin Ma <kma@google.com>
 * Hi Kevin,
 * Thanks for asking. Those routines are public domain (originally posted to
 * comp.sys.arm a long time ago), so you can use them freely for any purpose.
 * Cheers,
 * Wilco
 *
 * ----- Original Message ----- 
 * From: "Kevin Ma" <kma@google.com>
 * To: <Wilco.Dijkstra@ntlworld.com>
 * Sent: Thursday, June 23, 2011 11:44 PM
 * Subject: Fwd: sqrt routine
 * Hi Wilco,
 * I saw your sqrt routine from several web sites, including
* http://www.finesse.demon.co.uk/steven/sqrt.html.
* Just wonder if there's any copyright information with your Successive
* approximation routines, or if I can freely use it for any purpose.
* Thanks.
* Kevin
*/

-------------------------------------------------------------------------------
Files:
modules/audio_coding/codecs/g711/main/source/g711.c
modules/audio_coding/codecs/g711/main/source/g711.h

License:
/*
* SpanDSP - a series of DSP components for telephony
* g711.h - In line A-law and u-law conversion routines
* Written by Steve Underwood <steveu@coppice.org>
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*/

-------------------------------------------------------------------------------
Files:
modules/audio_coding/codecs/g722/main/source/g722_decode.c
modules/audio_coding/codecs/g722/main/source/g722_enc_dec.h
modules/audio_coding/codecs/g722/main/source/g722_encode.c

License:
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* SpanDSP - a series of DSP components for telephony
* g722_decode.c - The ITU G.722 codec, decode part.
* Written by Steve Underwood <steveu@coppice.org>
* Copyright (C) 2005 Steve Underwood
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* Based in part on a single channel G.722 codec which is:
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* * Computer Science, Speech Group
* * Chengxiang Lu and Alex Hauptmann
* */

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modules/audio_device/mac/portaudio/pa_memorybarrier.h
modules/audio_device/mac/portaudio/pa_ringbuffer.c
modules/audio_device/mac/portaudio/pa_ringbuffer.h

License:
/*
 * $Id: pa_memorybarrier.h 1240 2007-07-17 13:05:07Z bjornroche $
 * Portable Audio I/O Library
 * Memory barrier utilities
 *
 * Author: Bjorn Roche, XO Audio, LLC
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/*
* $Id: pa_ringbuffer.c 1421 2009-11-18 16:09:05Z bjornroche $
* Portable Audio I/O Library
* Ring Buffer utility.
*
* Author: Phil Burk, http://www.softsynth.com
* modified for SMP safety on Mac OS X by Bjorn Roche
* modified for SMP safety on Linux by Leland Lucius
* also, allowed for const where possible
* modified for multiple-byte-sized data elements by Sven Fischer
* Note that this is safe only for a single-thread reader and a
* single-thread writer.
*
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modules/audio_processing/utility/fft4g.c

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## BSD-specific setup (FreeBSD, OpenBSD, NetBSD, *BSD)
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## Commands to generate dependency files
GEN_DEPS.c=$(CC) -E -MM $(DEFS) $(CPPFLAGS)
GEN_DEPS.cc=$(CXX) -E -MM $(DEFS) $(CPPFLAGS)

## Flags for position independent code
SHAREDLIBCFLAGS = -fPIC
SHAREDLIBCXXFLAGS = -fPIC
SHAREDLIBCPPFLAGS = -DPIC

## Additional flags when building libraries and with threads
THREADSCPPFLAGS = -D_REENTRANT
LIBCPPFLAGS =

## Compiler switch to embed a runtime search path
LD_RPATH=
LD_RPATH_PRE=-Wl,-rpath,

## Compiler switch to embed a library name
LD_SONAME = -Wl,-soname -Wl,$(notdir $(MIDDLE_SO_TARGET))

## Shared library options
LD_SOOPTIONS= -Wl,-Bsymbolic

## Shared object suffix
SO = so

## Non-shared intermediate object suffix
STATIC_O = ao

## Compilation rules
%.$(STATIC_O): $(srcdir)/%.c
$(COMPILEx.c) $(STATICCPPFLAGS) $(STATICFLAGS) -o $@
%.o: $(srcdir)/%.c
$(COMPILE.c) $(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<

%.S(STATIC_O): $(srcdir)/%.cpp
$(COMPILE.cc) $(STATICCPPFLAGS) $(STATICCXXFLAGS) -o $@ $<
%.o: $(srcdir)/%.cpp
$(COMPILE.cc) $(DYNAMICCPPFLAGS) $(DYNAMICCXXFLAGS) -o $@ $<

## Dependency rules
%.d: $(srcdir)/%.c
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.c) $< \
| sed "s/\(\$*\)\\.o\[ :\]*/\1.o $@ : /g" > $@; \
| -s $@ ]|| rm -f $@' 

%.d: $(srcdir)/%.cpp
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.cc) $< \
| sed "s/\(\$*\)\\.o\[ :\]*/\1.o $@ : /g" > $@; \
| -s $@ ]|| rm -f $@' 

## Versioned libraries rules

%.S(SO).$(SO_TARGET_VERSION_MAJOR): %.S(SO).$(SO_TARGET_VERSION)
$(RM) $@ && ln -s ${<F} $@
%.S(SO): %.S(SO).$(SO_TARGET_VERSION_MAJOR)
$(RM) $@ && ln -s $(SO).$(SO).$(SO_TARGET_VERSION) $@

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Dr. Memory: the memory debugger

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Bug fixes.
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Scott McCaskill	at 3dfx dot com
Bug fixes.
Jef Gearhart	at tpssys dot com
Bug fix.
Arthur Kantor	at bexusa dot com
Mutex enhancements.
Steven Reddies	at essemer dot com dot au
Bug fix.
Alexander Terekho	TEREHOV at de dot ibm dot com
Re-implemented and improved read-write locks;
(with Louis Thomas) re-implemented and improved
condition variables;
enhancements to semaphores;
enhancements to mutexes;
nnew mutex implementation in 'futex' style;
suggested a robust implementation of pthread_once
similar to that implemented by V.Kliatchko;
system clock change handling re CV timeouts;
bug fixes.
Thomas Pfaffpfaff at gmx dot net
Changes to make C version usable with C++ applications;
re-implemented mutex routines to avoid Win32 mutexes
and TryEnterCriticalSection;
procedure to fix Mingw32 thread-safety issues.
Franco Bezfranco dot bez at gmx dot de
procedure to fix Mingw32 thread-safety issues.
Louis Thomaslthomas at arbitrade dot com
(with Alexander Terekhov) re-implemented and improved
condition variables.
David Korndgk at research dot att dot com
Ported to UWIN.
Phil Frisbie, Jr.phil at hawksoft dot com
Bug fix.
Ralf BreseRalf dot Brese at pdb4 dot siemens dot de
Bug fix.
prionx at junodot com prionx at junodot com
Bug fixes.
Max Woodburymtew at cds dot duke dot edu
POSIX versioning conditionals;
reduced namespace pollution;
idea to separate routines to reduce statically
linked image sizes.
Rob Fannerrfanner at stonethree dot com
Bug fix.
Michael Johnson michaelj at maine dot rr dot com
Bug fix.
Nicolas Barryboozai at yahoo dot com
Bug fixes.
Piet van Bruggenpietvb at newbridges dot nl
Bug fix.
Makoto Katoraven at oldskool dot jp
AMD64 port.
Panagiotis E. Hadjidoukaspeh at hpclab dot ceid dot upatras dot gr
Contributed the QueueUserAPCEx package which
makes preemptive async cancelation possible.
Will Bryantwill dot bryant at ecosm dot com
Borland compiler patch and makefile.
Anuj Goyalanuj dot goyal at gmail dot com
Port to Digital Mars compiler.
Gottlob Fregegottlobfrege at gmail dot com
re-implemented pthread_once (version 2)
(pthread_once cancellation added by rpj).
Vladimir Kliatchkovladimir at kliatchko dot com
reimplemented pthread_once with the same form
as described by A.Terekhov (later version 2);
implementation of MCS (Mellor-Crummey/Scott) locks.
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  * Optimize Java serialization of strings so that UTF-8 encoding happens only once per string per serialization call.
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- the X11 grabber in libavdevice/x11grab.c
- the swresample test app in libswhiresample/swresample-test.c
- the texi2pod.pl tool
- the following filters in libavfilter:
  - f_ebur128.c
  - vf_blackframe.c
  - vf_boxblur.c
  - vf_colormatrix.c
  - vf_cropdetect.c
  - vf_decimate.c
  - vf_delogo.c
  - vf_geq.c
  - vf_histeq.c
  - vf_hqdn3d.c
  - vf_kerndeint.c
  - vf_meddeint.c
  - vf_mp.c
  - vf_owdenoise.c
  - vf_perspective.c
  - vf_phase.c
  - vf_pp.c
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There are a handful of files under other licensing terms, namely:

* The files libavcodec/jfdctfst.c, libavcodec/jfdctint_template.c and libavcodec/jrevdct.c are taken from libjpeg, see the top of the files for licensing details. Specifically note that you must credit the IJG in the documentation accompanying your program if you only distribute executables. You must also indicate any changes including additions and deletions to those three files in the documentation.

**external libraries**

FFmpeg can be combined with a number of external libraries, which sometimes affect the licensing of binaries resulting from the combination.

**compatible libraries**

The following libraries are under GPL:

- frei0r
- libcdio
- libutvideo
- libvidstab
- libx264
- libx265
- libxavs
- libxvid

When combining them with FFmpeg, FFmpeg needs to be licensed as GPL as well by passing --enable-gpl to configure.

The OpenCORE and VisualOn libraries are under the Apache License 2.0. That license is incompatible with the LGPL v2.1 and the GPL v2, but not with version 3 of those licenses. So to combine these libraries with FFmpeg, the
license version needs to be upgraded by passing --enable-version3 to configure.

incompatible libraries
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The Fraunhofer AAC library, FAAC and aacplus are under licenses which are incompatible with the GPLv2 and v3. We do not know for certain if their licenses are compatible with the LGPL.

If you wish to enable these libraries, pass --enable-nonfree to configure.

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That's all there is to it!
PCRE is a library of functions to support regular expressions whose syntax and semantics are as close as possible to those of the Perl 5 language.

This is JavaScriptCore's variant of the PCRE library. While this library started out as a copy of PCRE, many of the features of PCRE have been removed.

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3378__patchen__Rhino_03.wav
3258__Jovica__Dronetail_02.wav
30351__Matt_G__Space_Fighter_Pass.wav
32954__HardPCM__Chip054.wav
32985__HardPCM__Alarm001.wav
33245__ljudman__grenade.wav
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Yes!

4. Can I change or add to the font(s)?

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5. Under what terms are derivative works allowed?

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4.339 require.js 2.1.10

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4.341 resteasy-atom-provider 2.3.4 Final

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4.343 Resteasy-cdi 2.3.4 Final

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4.348 resteasy-jackson-provider 2.3.4.Final

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Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

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We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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library. The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the
Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or
link a "work that uses the Library" with the Library to produce a
work containing portions of the Library, and distribute that work
under terms of your choice, provided that the terms permit
modification of the work for the customer's own use and reverse
engineering for debugging such modifications.

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directing the user to the copy of this License. Also, you must do one
of these things:

a) Accompany the work with the complete corresponding
machine-readable source code for the Library including whatever
changes were used in the work (which must be distributed under
Sections 1 and 2 above); and, if the work is an executable linked
with the Library, with the complete machine-readable "work that
uses the Library", as object code and/or source code, so that the
user can modify the Library and then relink to produce a modified
executable containing the modified Library. (It is understood
that the user who changes the contents of definitions files in the
Library will not necessarily be able to recompile the application
to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the
Library. A suitable mechanism is one that (1) uses at run time a
copy of the library already present on the user's computer system,
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will operate properly with a modified version of the library, if
the user installs one, as long as the modified version is
interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at
least three years, to give the same user the materials
specified in Subsection 6a, above, for a charge no more
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d) If distribution of the work is made by offering access to copy
from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

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4.373 Sisu-Inject (JSR330 bean support) 2.1.1

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4.374 sisu-inject-bean 2.2.3

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import org.sonatype.guice.bean.reflect.DeferredProvider;
import com.google.inject.Provider;
import com.google.inject.spi.BindingTargetVisitor;
import com.google.inject.spi.ConstructorBinding;
import com.google.inject.spi.DefaultBindingTargetVisitor;
import com.google.inject.spi.ExposedBinding;
import com.google.inject.spi.InstanceBinding;
import com.google.inject.spi.LinkedKeyBinding;
import com.google.inject.spi.ProviderInstanceBinding;
import com.google.inject.spi.UntargettedBinding;

/**
 * [@link BindingTargetVisitor] that attempts to discover implementations behind bindings.
 */
final class ImplementationVisitor
extends DefaultBindingTargetVisitor<Object, Class<?>>
{
    // ----------------------------------------------------------------------
    // Constants
    // ----------------------------------------------------------------------

    static final ImplementationVisitor THIS = new ImplementationVisitor();

    // ----------------------------------------------------------------------
    // Public methods
    // ----------------------------------------------------------------------

    @Override
    public Class<?> visit(final UntargettedBinding<?> binding)
    {
        return binding.getKey().getTypeLiteral().getRawType();
    }

    @Override
    public Class<?> visit(final LinkedKeyBinding<?> binding)
    {
        // this assumes only one level of indirection: api-->impl
        return binding.getLinkedKey().getTypeLiteral().getRawType();
    }

    @Override
    public Class<?> visit(final ConstructorBinding<?> binding)
    {
        return binding.getConstructor().getDeclaringType().getRawType();
    }

    @Override
    public Class<?> visit(final InstanceBinding<?> binding)
    {
        return binding.getInstance().getClass();
    }

    @Override
    public Class<?> visit(final ProviderInstanceBinding<?> binding)
    {
        final Provider<?> provider = binding.getProviderInstance();
        if ( provider instanceof DeferredProvider<?> )
        {
            try
            {
                // deferred providers let us peek at the underlying implementation type
                return ( (DeferredProvider<?>> provider ).getImplementationClass().load();
            }
        }
catch ( final TypeNotPresentException e ) // NOPMD
{
    // fall-through
}
return null;
}

@Override
public Class<?> visit( final ExposedBinding<?> binding )
{
    return binding.getPrivateElements().getInjector().getBinding( binding.getKey() ).acceptTargetVisitor( this );
}

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*******************************************************************************/
package org.sonatype.guice.bean.locators;
import java.lang.annotation.Retention;
import java.lang.annotation.RetentionPolicy;
import java.lang.annotation.Target;
import javax.inject.Qualifier;

/**
 * { @link Qualifier} used to record and tag implicit bindings (not for direct use).
 */
@Qualifier
@Retention( RetentionPolicy.RUNTIME )
@Target( value = {} )
public @interface Implicit {
}

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package org.sonatype.guice.bean.locators;

import java.lang.annotation.Annotation;

import org.sonatype.guice.bean.reflect.Logs;

import com.google.inject.Binding;
import com.google.inject.ImplementedBy;
import com.google.inject.Injector;
import com.google.inject.Key;
import com.google.inject.ProvidedBy;
import com.google.inject.TypeLiteral;

/**
 * Source of "implicit" bindings; includes @link ImplementedBy, @link ProvidedBy, and concrete types.
 */
final class ImplicitBindings
{
    // ----------------------------------------------------------------------
    // Implementation fields
    // ----------------------------------------------------------------------

    private final Iterable<Injector> injectors;

    // ----------------------------------------------------------------------
    // Constructors
    // ----------------------------------------------------------------------

    ImplicitBindings( final BeanLocator locator )
    {
        injectors = new EntryListAdapter<Annotation, Injector>( locator.locate( Key.get( Injector.class ) ) );
    }

    // ----------------------------------------------------------------------
    // Public methods
    // ----------------------------------------------------------------------

    @SuppressWarnings( { "unchecked", "rawtypes" } )
    public <T> Binding<T> get( final TypeLiteral<T> type )
    {
        final Key implicitKey = Key.get( type.getRawType(), Implicit.class );
        for ( final Injector i : injectors )
        {
            final Key key = i.getBinding( implicitKey ).getKey();
try {
    // first round: check for any re-written implicit bindings
    final Binding binding = i.getBindings().get( implicitKey );
    if ( null != binding )
    {
        Logs.debug( "Using implicit binding: {} from: <>", binding, i );
        return binding;
    }
}

try {
    // second round: fall back to just-in-time lookup
    final Binding binding = i.getBinding( justInTimeKey );
    if ( InjectorPublisher.isVisible( binding ) )
    {
        Logs.debug( "Using just-in-time binding: {} from: <>", binding, i );
        return binding;
    }
}

} catch ( final Throwable e )
{
    continue; // no luck, move onto next injector
}
}

final Key justInTimeKey = Key.get( type );
for ( final Injector i : injectors )
{
    try {
        // second round: fall back to just-in-time lookup
        final Binding binding = i.getBinding( justInTimeKey );
        if ( InjectorPublisher.isVisible( binding ) )
        {
            Logs.debug( "Using just-in-time binding: {} from: <>", binding, i );
            return binding;
        }
    }
    catch ( final Throwable e )
    {
        continue; // no luck, move onto next injector
    }
    return null;
}


4.375 sjsxp 1.0.1

4.375.1 Available under license :

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 * $Id: license.txt,v 1.2 2006/04/01 06:01:50 jeffsuttor Exp $
 * %W% %E%
 */

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4.382 snakeyaml 1.8

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4.390 spring-asm 3.0.0.RELEASE
4.390.1 Available under license:
Link to license in SpringSource repository broken. Opened a case with SpringSource support:

Linda Shonk (lshonk)
From: Yathiraj Udupi (yudupi)  
Sent: Friday, August 06, 2010 7:14 AM  
To: Yathiraj Udupi (yudupi); Linda Shonk (lshonk)  
Subject: RE: Incident (case 9815) - URGENT: License files missing for Springframework modules in Springsource Enterprise Repository  

Also Linda,  
Just to clarify, what they mean by Spring projects is that - all ?org.springframework.XXXX? modules, such as org.springframework.beans, org.springframework.asm, etc.  
All the other third party jars distributed by springsource in the enterprise repository are named with a prefix ? ?org.springsource.XXXX? for e.g, org.springsource.org.antlr ? 
and they have their own separate licenses.  

Thanks,  
Yathi.  

From: Yathiraj Udupi (yudupi)  
Sent: Friday, August 06, 2010 7:00 AM  
To: Linda Shonk (lshonk)  
Subject: RE: Incident (case 9815) - URGENT: License files missing for Springframework modules in Springsource Enterprise Repository  

Hi Linda,  
It should be the same Apache license for all Spring framework modules for all versions. So you should be fine. But in the shipping XMP platform, we don?t have any 3.0.1.RELEASE versions for any spring components. message from springsource ? 
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For more info with regards to the Apache license:  
http://www.apache.org/licenses/  
Let me know if you have further questions.  
Regards,  
Lou-ann  
?  
2  
Thanks,  
Yathi.  

From: Linda Shonk (lshonk)  
Sent: Thursday, August 05, 2010 12:37 PM  
To: Yathiraj Udupi (yudupi)  
Subject: FW: Incident (case 9815) - URGENT: License files missing for Springframework modules in Springsource Enterprise Repository  

Got it okay for the 3.0.0 release. The 3.0.1 Release is also missing license information in the repository.  
Linda  

From: SpringSource Support [mailto:support@springsource.com]
Sent: Thursday, August 05, 2010 8:03 AM
To: Yathiraj Udupi (yudupi)
Cc: Linda Shonk (lshonk); Andrew Ballantyne (aballant)
Subject: Incident (case 9815) - URGENT: License files missing for Springframework modules in Springsource Enterprise Repository

Please do not reply to this email, login to http://support.springsource.com/spring_account and update your incident at http://support.springsource.com/spring_support_client_getIncidentById/9815

Reference # 9815

Subject: URGENT: License files missing for Springframework modules in Springsource Enterprise Repository

---------------------------------------------------------------
Product: Spring Modules
Sub product: Other
Severity: Development
Date Created: 2010-08-03 21:19:19
Last Updated: 2010-08-05 03:27:03
Status: Pending Customer FB
Version: 3.0.0.RELE
Platform: Other
CC: lshonk@cisco.com, aballant@cisco.com
Discussion Thread

---------------------------------------------------------------
Yathiraj Udupi on 2010-08-05 15:03:27:
Thanks Lou-ann for your response.
on 2010-08-05 05:36:54:
Hi Yathiraj,
Were you able check the link to the Apache license? I am coordinating with repository admin to fix the licenses on the SpringSource repository. For the mean time, you may use the link that I sent in my last response to get the license for Spring 3.0.x
Let me know if you have further questions.
Regards,
Lou-ann
on 2010-08-04 12:00:17:
Hi Yathiraj,
All Spring projects are licensed under the terms of the Apache License, Version 2.0. You may download the Apache License using the link below:
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http://www.apache.org/licenses/LICENSE-2.0.txt
HTML format
http://www.apache.org/licenses/LICENSE-2.0.html
For more info with regards to the Apache license:
http://www.apache.org/licenses/
Let me know if you have further questions.
Regards,
Lou-ann
on 2010-08-04 00:14:46:
Hi Yathiraj,
I will look into this and will get back to you.

Regards,

Lou-ann

Yathiraj Udupi on 2010-08-03 21:19:19:

Hi,

We need to update the license information in our company License portal, for the Spring bundles that are shipped in Springsource dm Server 2.0, in the repository/ext folder.
This is required URGENTLY, so that we can ship our release.
When we look for the license file link from the Springsource enterprise repository, we get an error.
For example,
http://www.springsource.com/repository/app/bundle/version/detail?name=org.springframework.asm&version=3.0.0.RELEASE

In the above link, the License hyperlink gives an error. Similarly we need the licence for all 3.0.0.RELEASE versioned Springframework module jars such as ASM, Beans, Context, Expression, JDBC, Test, Web, and others included in the repository/ext folder. All the "License" links for all of these modules throw an error like this -

<Error>
<Code>NoSuchKey</Code>
<Message>The specified key does not exist.</Message>

?</Key>

<RequestId>C36AA496B452C999</RequestId>

?</HostId>

Can you please provide the license files for all of the Springframework modules in the repository/ext ?

Thanks,

Yathi.

Incident update link:

login to http://support.springsource.com/spring_account and update your incident at http://support.springsource.com/spring_support_client_getIncidentById/9815

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Version 2.0, January 2004

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4.391 spring-asm 3.0.3.RELEASE

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4.392 spring-beans 3.1.2.RELEASE

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4.406 spring-core 2.5.5 spring-core 2.5.5

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4.409 spring-expression 3.0.0.RELEASE

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package org.springframework.aop.aspectj.annotation;

import java.lang.reflect.Method;

import org.aopalliance.aop.Advice;
import org.aspectj.lang.reflect.PerClauseKind;

import org.springframework.aop.Pointcut;
import org.springframework.aop.aspectj.AspectJExpressionPointcut;
import org.springframework.aop.aspectj.AspectJPrecedenceInformation;
import org.springframework.aop.aspectj.InstantiationModelAwarePointcutAdvisor;
import org.springframework.aop.support.DynamicMethodMatcherPointcut;
import org.springframework.aop.support.Pointcuts;

/**
 * Internal implementation of AspectJPointcutAdvisor.
 * Note that there will be one instance of this advisor for each target method.
 *
 * @author Rod Johnson
 * @author Juergen Hoeller
 * @since 2.0
 */
class InstantiationModelAwarePointcutAdvisorImpl
implements InstantiationModelAwarePointcutAdvisor, AspectJPrecedenceInformation {

private final AspectJExpressionPointcut declaredPointcut;

private Pointcut pointcut;

private final MetadataAwareAspectInstanceFactory aspectInstanceFactory;

private final Method method;

private final boolean lazy;

private final AspectJAdvisorFactory atAspectJAdvisorFactory;

private Advice instantiatedAdvice;

private final AspectJExpressionPointcut declaredPointcut;
private int declarationOrder;

private String aspectName;

private Boolean isBeforeAdvice = null;

private Boolean isAfterAdvice = null;

public InstantiationModelAwarePointcutAdvisorImpl(AspectJAdvisorFactory af, AspectJExpressionPointcut ajexp, MetadataAwareAspectInstanceFactory aif, Method method, int declarationOrderInAspect, String aspectName) {

    this.declaredPointcut = ajexp;
    this.method = method;
    this.atAspectJAdvisorFactory = af;
    this.aspectInstanceFactory = aif;
    this.declarationOrder = declarationOrderInAspect;
    this.aspectName = aspectName;

    if (aif.getAspectMetadata().isLazilyInstantiated()) {
        // Static part of the pointcut is a lazy type.
        Pointcut preInstantiationPointcut =
            Pointcuts.union(aif.getAspectMetadata().getPerClausePointcut(), this.declaredPointcut);

        // Make it dynamic: must mutate from pre-instantiation to post-instantiation state.
        // If it's not a dynamic pointcut, it may be optimized out
        // by the Spring AOP infrastructure after the first evaluation.
        this.pointcut = new PerTargetInstantiationModelPointcut(this.declaredPointcut, preInstantiationPointcut, aif);
        this.lazy = true;
    } else {
        // A singleton aspect.
        this.instantiatedAdvice = instantiateAdvice(this.declaredPointcut);
        this.pointcut = declaredPointcut;
        this.lazy = false;
    }
}

/**
 * The pointcut for Spring AOP to use. Actual behaviour of the pointcut will change
 * depending on the state of the advice.
 */
public Pointcut getPointcut() {
    return this.pointcut;
}

/**
 * This is only of interest for Spring AOP: AspectJ instantiation semantics
 * are much richer. In AspectJ terminology, all a return of <code>true</code>
 * means here is that the aspect is not a SINGLETON.
 */
public boolean isPerInstance() {
    return (getAspectMetadata().getAjType().getPerClause().getKind() != PerClauseKind.SINGLETON);
}

/**
 * Return the AspectJ AspectMetadata for this advisor.
 */
public AspectMetadata getAspectMetadata() {
    return this.aspectInstanceFactory.getAspectMetadata();
}

/**
 * Lazily instantiate advice if necessary.
 */
public synchronized Advice getAdvice() {
    if (this.instantiatedAdvice == null) {
        this.instantiatedAdvice = instantiateAdvice(this.declaredPointcut);
    }
    return this.instantiatedAdvice;
}

public boolean isLazy() {
    return this.lazy;
}

public synchronized boolean isAdviceInstantiated() {
    return (this.instantiatedAdvice != null);
}

private Advice instantiateAdvice(AspectJExpressionPointcut pcut) {
    return this.atAspectJAdvisorFactory.getAdvice(this.method, pcut, this.aspectInstanceFactory, this.declarationOrder, this.aspectName);
}

public MetadataAwareAspectInstanceFactory getAspectInstanceFactory() {
    return this.aspectInstanceFactory;
}
public AspectJExpressionPointcut getDeclaredPointcut() {
    return this.declaredPointcut;
}

public int getOrder() {
    return this.aspectInstanceFactory.getOrder();
}

public String getAspectName() {
    return this.aspectName;
}

public int getDeclarationOrder() {
    return this.declarationOrder;
}

public boolean isBeforeAdvice() {
    if (this.isBeforeAdvice == null) {
        determineAdviceType();
    }
    return this.isBeforeAdvice;
}

public boolean isAfterAdvice() {
    if (this.isAfterAdvice == null) {
        determineAdviceType();
    }
    return this.isAfterAdvice;
}

/**
 * Duplicates some logic from getAdvice, but importantly does not force
 * creation of the advice.
 */
private void determineAdviceType() {
    AspectJAnnotation<?> aspectJAnnotation =
    AbstractAspectJAdvisorFactory.findAspectJAnnotationOnMethod(this.method);
    if (aspectJAnnotation == null) {
        this.isBeforeAdvice = false;
        this.isAfterAdvice = false;
    } else {
        switch (aspectJAnnotation.getAnnotationType()) {
        case AtAfter:
            case AtAfterReturning:
            case AtAfterThrowing:
                this.isAfterAdvice = true;
                this.isBeforeAdvice = false;
            case AtBefore:
            case AtBeforeReturning:
            case AtBeforeThrowing:
                this.isBeforeAdvice = true;
                this.isAfterAdvice = false;
        }
break;
case AtAround:
case AtPointcut:
this.isAfterAdvice = false;
this.isBeforeAdvice = false;
break;
case AtBefore:
this.isAfterAdvice = false;
this.isBeforeAdvice = true;
}
}
}

@Override
public String toString() {
return "InstantiationModelAwarePointcutAdvisor: expression "] + getDeclaredPointcut().getExpression() + "]; advice method [" + this.method + "]; perClauseKind=" + 
this.aspectInstanceFactory.getAspectMetadata().getAjType().getPerClause().getKind();
}

/**
 * Pointcut implementation that changes its behaviour when the advice is instantiated.
 * Note that this is a <i>dynamic</i> pointcut. Otherwise it might
 * be optimized out if it does not at first match statically.
 */
private class PerTargetInstantiationModelPointcut extends DynamicMethodMatcherPointcut {

private final AspectJExpressionPointcut declaredPointcut;

private final Pointcut preInstantiationPointcut;

private LazySingletonAspectInstanceFactoryDecorator aspectInstanceFactory;

private PerTargetInstantiationModelPointcut(AspectJExpressionPointcut declaredPointcut,
Pointcut preInstantiationPointcut, MetadataAwareAspectInstanceFactory aspectInstanceFactory) {
this.declaredPointcut = declaredPointcut;
this.preInstantiationPointcut = preInstantiationPointcut;
if (aspectInstanceFactory instanceof LazySingletonAspectInstanceFactoryDecorator) {
this.aspectInstanceFactory = (LazySingletonAspectInstanceFactoryDecorator) aspectInstanceFactory;
}
}

@Override
public boolean matches(Method method, Class targetClass) {
// We're either instantiated and matching on declared pointcut, or un-instantiated matching on either pointcut
return (isAspectMaterialized() && this.declaredPointcut.matches(method, targetClass)) ||
this.preInstantiationPointcut.getMethodMatcher().matches(method, targetClass);
}

public boolean matches(Method method, Class targetClass, Object[] args) {
    // This can match only on declared pointcut.
    return (isAspectMaterialized() && this.declaredPointcut.matches(method, targetClass));
}

private boolean isAspectMaterialized() {
    return (this.aspectInstanceFactory == null || this.aspectInstanceFactory.isMaterialized());
}

package org.springframework.aop.aspectj.annotation;
import org.springframework.aop.aspectj.SimpleAspectInstanceFactory;
import org.springframework.core.Ordered;
import org.springframework.core.annotation.Order;

/**
 * Implementation of {@link MetadataAwareAspectInstanceFactory} that
 * creates a new instance of the specified aspect class for every
 * {@link #getAspectInstance()} call.
 *
 * @author Juergen Hoeller
 * @since 2.0.4
 */

public class SimpleMetadataAwareAspectInstanceFactory extends SimpleAspectInstanceFactory
    implements MetadataAwareAspectInstanceFactory {
private final AspectMetadata metadata;

/**
 * Create a new SimpleMetadataAwareAspectInstanceFactory for the given aspect class.
 * @param aspectClass the aspect class
 * @param aspectName the aspect name
 */
public SimpleMetadataAwareAspectInstanceFactory(Class aspectClass, String aspectName) {
    super(aspectClass);
    this.metadata = new AspectMetadata(aspectClass, aspectName);
}

public final AspectMetadata getAspectMetadata() {
    return this.metadata;
}

/**
 * Determine a fallback order for the case that the aspect instance does not express an instance-specific order through implementing the @link org.springframework.core.Ordered interface.
 * @param aspectClass the aspect class
 */
@Override
protected int getOrderForAspectClass(Class<?> aspectClass) {
    Order order = aspectClass.getAnnotation(Order.class);
    if (order != null) {
        return order.value();
    }
    return Ordered.LOWEST_PRECEDENCE;
}

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package org.springframework.aop.aspectj;

import org.springframework.aop.framework.AopConfigException;
import org.springframework.core.Ordered;
import org.springframework.util.Assert;

/**
 * Implementation of {@link AspectInstanceFactory} that creates a new instance
 * of the specified aspect class for every {@link #getAspectInstance()} call.
 *
 * @author Juergen Hoeller
 * @since 2.0.4
 */
public class SimpleAspectInstanceFactory implements AspectInstanceFactory {

    private final Class aspectClass;

    /**
     * Create a new SimpleAspectInstanceFactory for the given aspect class.
     * @param aspectClass the aspect class
     */
    public SimpleAspectInstanceFactory(Class aspectClass) {
        Assert.notNull(aspectClass, "Aspect class must not be null");
        this.aspectClass = aspectClass;
    }

    /**
     * Return the specified aspect class (never <code>null</code>).
     */
    public final Class getAspectClass() {
        return this.aspectClass;
    }

    public final Object getAspectInstance() {
        try {
            return this.aspectClass.newInstance();
        }
        catch (InstantiationException ex) {
            throw new AopConfigException("Unable to instantiate aspect class [" + this.aspectClass.getName() + "]", ex);
        }
        catch (IllegalAccessException ex) {
            throw new AopConfigException("Cannot access element class [" + this.aspectClass.getName() + "]", ex);
        }
    }
}
public ClassLoader getAspectClassLoader() {
    return this.aspectClass.getClassLoader();
}

/**
 * Determine the order for this factory's aspect instance,
 * either an instance-specific order expressed through implementing
 * the { @link org.springframework.core.Ordered} interface,
 * or a fallback order.
 * @see org.springframework.core.Ordered
 * @see #getOrderForAspectClass
 */
public int getOrder() {
    return getOrderForAspectClass(this.aspectClass);
}

/**
 * Determine a fallback order for the case that the aspect instance
 * does not express an instance-specific order through implementing
 * the { @link org.springframework.core.Ordered} interface.
 * <p>The default implementation simply returns <code>Ordered.LOWEST_PRECEDENCE</code>.
 * @param aspectClass the aspect class
 */
protected int getOrderForAspectClass(Class<?> aspectClass) {
    return Ordered.LOWEST_PRECEDENCE;
}

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 */

package org.springframework.aop.config;
import org.springframework.aop.aspectj.AspectInstanceFactory;
import org.springframework.beans.factory.BeanFactory;
import org.springframework.beans.factory.BeanFactoryAware;
import org.springframework.beans.factory.config.ConfigurableBeanFactory;
import org.springframework.core.Ordered;
import org.springframework.util.ClassUtils;
import org.springframework.util.StringUtils;

/**
 * Implementation of {@link AspectInstanceFactory} that locates the aspect from the
 * {link org.springframework.beans.factory.BeanFactory} using a configured bean name.
 * @author Rob Harrop
 * @author Juergen Hoeller
 * @since 2.0
 */
public class SimpleBeanFactoryAwareAspectInstanceFactory implements AspectInstanceFactory,
BeanFactoryAware {

private String aspectBeanName;

private BeanFactory beanFactory;

/**
 * Set the name of the aspect bean. This is the bean that is returned when calling
 * {link #getAspectInstance()}.
 */
public void setAspectBeanName(String aspectBeanName) {
this.aspectBeanName = aspectBeanName;
}

public void setBeanFactory(BeanFactory beanFactory) {
this.beanFactory = beanFactory;
if (!StringUtils.hasText(this.aspectBeanName)) {
throw new IllegalArgumentException("aspectBeanName' is required");
}
}

/**
 * Look up the aspect bean from the {link BeanFactory} and returns it.
 * @see #setAspectBeanName
 */
public Object getAspectInstance() {
return this.beanFactory.getBean(this.aspectBeanName);
}
public ClassLoader getAspectClassLoader() {
if (this.beanFactory instanceof ConfigurableBeanFactory) {
    return ((ConfigurableBeanFactory) this.beanFactory).getBeanClassLoader();
} else {
    return ClassUtils.getDefaultClassLoader();
}
}

public int getOrder() {
if (this.beanFactory.isSingleton(this.aspectBeanName) &&
    this.beanFactory.isTypeMatch(this.aspectBeanName, Ordered.class)) {
    return ((Ordered) this.beanFactory.getBean(this.aspectBeanName)).getOrder();
} return Ordered.LOWEST_PRECEDENCE;
}

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 */

package org.springframework.aop.interceptor;

import org.aopalliance.intercept.MethodInvocation;
import org.apache.commons.logging.Log;

/**
 * Simple AOP Alliance <code>MethodInterceptor</code> that can be introduced
 * in a chain to display verbose trace information about intercepted method
 * invocations, with method entry and method exit info.
 * 
 * Consider using <code>CustomizableTraceInterceptor</code> for more
 * advanced needs.
 * 
 * @author Dmitriy Kopylenko
 */

package org.springframework.aop.interceptor;

import org.aopalliance.intercept.MethodInvocation;
import org.apache.commons.logging.Log;
public class SimpleTraceInterceptor extends AbstractTraceInterceptor {

/**
 * Create a new SimpleTraceInterceptor with a static logger.
 */
public SimpleTraceInterceptor() {
}

/**
 * Create a new SimpleTraceInterceptor with dynamic or static logger,
 * according to the given flag.
 * @param useDynamicLogger whether to use a dynamic logger or a static logger
 * @see #setUseDynamicLogger
 */
public SimpleTraceInterceptor(boolean useDynamicLogger) {
    setUseDynamicLogger(useDynamicLogger);
}

@Override
protected Object invokeUnderTrace(MethodInvocation invocation, Log logger) throws Throwable {
    String invocationDescription = getInvocationDescription(invocation);
    logger.trace("Entering " + invocationDescription);
    try {
        Object rval = invocation.proceed();
        logger.trace("Exiting " + invocationDescription);
        return rval;
    } catch (Throwable ex) {
        logger.trace("Exception thrown in " + invocationDescription, ex);
        throw ex;
    }
}

/**
 * Return a description for the given method invocation.
 * @param invocation the invocation to describe
 * @return the description
 */
protected String getInvocationDescription(MethodInvocation invocation) {
    return "method " + invocation.getMethod().getName() + " of class [" + invocation.getThis().getClass().getName() + "]";
}
package org.springframework.aop.target;

/**
 * Simple { @link org.springframework.aop.TargetSource} implementation,
 * freshly obtaining the specified target bean from its containing
 * Spring { @link org.springframework.beans.factory.BeanFactory}.  
 * Can obtain any kind of target bean: singleton, scoped, or prototype.  
 * Typically used for scoped beans.
 * @author Juergen Hoeller
 * @since 2.0.3
 */
public class SimpleBeanTargetSource extends AbstractBeanFactoryBasedTargetSource {

    public Object getTarget() throws Exception {
        return getBeanFactory().getBean(getTargetBeanName());
    }

}
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4.425 StAX_ASLv1.1 1.2.0

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4.427 stdint_msvc 1.0 :2006

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4.435 unctrl 2000

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4.452 zlib 1.2.8

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The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 in the files http://tools.ietf.org/html/rfc1950 (zlib format), rfc1951 (deflate format) and rfc1952 (gzip format).

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-- activemq-web
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--activemq-web-console

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-- activemq-web

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For the style.css library

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For the common.js library

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5.22 guava 16.0

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5.23 jackson-core-asl 1.9.2

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5.28 java-uuid-generator 3.1.0

5.29 jcl-core 2.5

5.29.1 Available under license:

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5.30 karaf-bundle-command 3.0.2
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5.36 kryo 2.24.0

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5.37 kryonet 2.22.0-RC1

5.38 logback 1.0.13

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5.54 servicemix-bundles-javax-inject 1_2

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5.55 servicemix-specs-jsr311-api-1.1 2.2.0

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5.56 slf4j-api 1.7.5

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5.58 xercesImpl 2.11.0

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-- activemq-xmpp

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-- activemq-web
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--activemq-web-console

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6.11 apache-servicemix-bundles-jasypt
1.9.0.1

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6.12 apache-servicemix-bundles-velocity

1.7.0.5

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The inverse error function implementation in the Erf class is based on CUDA code developed by Mike Giles, Oxford-Man Institute of Quantitative Finance, and published in GPU Computing Gems, volume 2, 2010.
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classes are based on the Python code in module "optimize.py" (version 0.5)
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6.21 cassandra-2.1.1 2.1.1

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6.44 geronimo-j2ee-management_1.1_spec

1.0.1

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6.62 jaxb2-basics-runtime 0.6.4

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6.63 JCraft JSch 0.1.50

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*/

package com.jcraft.jsch;

public class Buffer{
    final byte[] tmp=new byte[4];
    byte[] buffer;
    int index;
    int s;
    public Buffer(int size){
        buffer=new byte[size];
        index=0;
    }
s = 0;
}
public Buffer(byte[] buffer) {
    this.buffer = buffer;
    index = 0;
    s = 0;
}
public Buffer() { this(1024 * 10 * 2); }
public void putByte(byte foo) {
    buffer[index++] = foo;
}
public void putByte(byte[] foo) {
    putByte(foo, 0, foo.length);
}
public void putByte(byte[] foo, int begin, int length) {
    System.arraycopy(foo, begin, buffer, index, length);
    index += length;
}
public void putString(byte[] foo) {
    putString(foo, 0, foo.length);
}
public void putString(byte[] foo, int begin, int length) {
    putInt(length);
    putByte(foo, begin, length);
}
public void putInt(int val) {
    tmp[0] = (byte) (val >>> 24);
    tmp[1] = (byte) (val >>> 16);
    tmp[2] = (byte) (val >>> 8);
    tmp[3] = (byte) (val);
    System.arraycopy(tmp, 0, buffer, index, 4);
    index += 4;
}
public void putLong(long val) {
    tmp[0] = (byte) (val >>> 56);
    tmp[1] = (byte) (val >>> 48);
    tmp[2] = (byte) (val >>> 40);
    tmp[3] = (byte) (val >>> 32);
    System.arraycopy(tmp, 0, buffer, index, 4);
    index += 4;
}
void skip(int n) {
    index += n;
}
void putPad(int n) {
    while(n>0){
        buffer[index++]==(byte)0;
        n--;
    }
}

public void putMPInt(byte[] foo) {
    int i=foo.length;
    if((foo[0]&0x80)!=0){
        i++;
        putInt(i);
        putByte((byte)0);
    } else{
        putInt(i);
    }
    putByte(foo);
}

public int getLength() {
    return index-s;
}

public int getOffSet() {
    return s;
}

public void setOffSet(int s) {
    this.s=s;
}

public long getLong() {
    long foo = getInt()&0xffffffffL;
    foo = ((foo<<32)) | (getInt()&0xffffffffL);
    return foo;
}

public int getInt() {
    int foo = getShort();
    foo = ((foo<<16)&0xffff0000) | (getShort()&0xffff);
    return foo;
}

public long getUInt() {
    long foo = 0L;
    long bar = 0L;
    foo = getByte();
    foo = ((foo<<8)&0xff00)|(getByte()&0xff);
    bar = getByte();
    bar = ((bar<<8)&0xff00)|(getByte()&0xff);
    foo = ((foo<<16)&0xffff0000) | (bar&0xffff);
    return foo;
}
int getShort() {
    int foo = getByte();
    foo = ((foo<<8)&0xff00)|(getByte()&0xff);
    return foo;
}
public int getByte() {
    return (buffer[s++]&0xff);
}
public void getByte(byte[] foo) {
    getByte(foo, 0, foo.length);
}
void getByte(byte[] foo, int start, int len) {
    System.arraycopy(buffer, s, foo, start, len);
    s+=len;
}
public int getByte(int len) {
    int foo=s;
    s+=len;
    return foo;
}
public byte[] getMPInt() {
    int i=getInt();  // uint32
    if(i<0 || i>8*1024) {
        // TODO: an exception should be thrown.
        i = 8*1024; // the session will be broken, but working around OOME.
    }
    byte[] foo=new byte[i];
    getByte(foo, 0, i);
    return foo;
}
public byte[] getMPIntBits() {
    int bits=getInt();
    int bytes=(bits+7)/8;
    byte[] foo=new byte[bytes];
    getByte(foo, 0, bytes);
    if((foo[0]&0x80)!=0) {
        byte[] bar=new byte[foo.length+1];
        bar[0]=0; // ??
        System.arraycopy(foo, 0, bar, 1, foo.length);
        foo=bar;
    }
    return foo;
}
public byte[] getString() {
    int i = getInt();  // uint32
    if(i<0 || i>256*1024) {

/** TODO: an exception should be thrown. */

```java
i = 256*1024; // the session will be broken, but working around OOME.
```

```java
}
byte[] foo=new byte[i];
getByte(foo, 0, i);
return foo;
}
byte[] getString(int[] start, int[] len) {
    int i=getInt();
    start[0]=getByte(i);
    len[0]=i;
    return buffer;
}
public void reset() {
    index=0;
    s=0;
}
public void shift() {
    if(s==0)return;
    System.arraycopy(buffer, s, buffer, 0, index-s);
    index=index-s;
    s=0;
}
void rewind() {
    s=0;
}
byte getCommand() {
    return buffer[5];
}
void checkFreeSize(int n) {
    if(buffer.length<index+n) {
        byte[] tmp = new byte[buffer.length*2];
        System.arraycopy(buffer, 0, tmp, 0, index);
        buffer = tmp;
    }
}
byte[][] getBytes(int n, String msg) throws JSchException {
    byte[][] tmp = new byte[n][];
    for(int i = 0; i < n; i++) {
        int j = getInt();
        if(getLength() < j) {
            throw new JSchException(msg);
        }
        tmp[i] = new byte[j];
        getByte(tmp[i]);
    }
```
static Buffer fromBytes(byte[]... args){
    int length = args.length*4;
    for(int i = 0; i < args.length; i++){
        length += args[i].length;
    }
    Buffer buf = new Buffer(length);
    for(int i = 0; i < args.length; i++){
        buf.putString(args[i]);
    }
    return buf;
}

static Buffer fromBytes(byte[][] args){
    int length = args.length*4;
    for(int i = 0; i < args.length; i++){
        length += args[i].length;
    }
    Buffer buf = new Buffer(length);
    for(int i = 0; i < args.length; i++){
        buf.putString(args[i]);
    }
    return buf;
}

/*

static String[] chars=
    {"0","1","2","3","4","5","6","7","8","9","a","b","c","d","e","f"};
static void dump_buffer(){
    int foo;
    for(int i=0; i<tmp_buffer_index; i++){
        foo=tmp_buffer[i]&0xff;
        System.err.print(chars[(foo>>>4)&0xf]);
        System.err.print(chars[foo&0xf]);
        if(i%16==15){
            System.err.println(" ");
            continue;
        }
        if(i>0 && i%2==1){
            System.err.print(" ");
        }
    }
*/
```java
}  
  System.err.println("";  
}  
static void dump(byte[] b){  
  dump(b, 0, b.length);  
}  
static void dump(byte[] b, int s, int l){  
  for(int i=s; i<s+l; i++){
    System.err.print(Integer.toHexString(b[i]&0xff)+":");  
  }
  System.err.println("";  
}  
*/
```

### 6.64 Jettison 1.3.4

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6.70 libprotobuf 2.5.0

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* Detect whether zlib is new enough in configure script.
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Evan Jones <evanj@mit.edu>
* Optimize Java serialization code when writing a small message to a stream.
* Optimize Java serialization of strings so that UTF-8 encoding happens only once per string per serialization call.
* Clean up some Java warnings.
* Fix bug with permanent callbacks that delete themselves when run.

Michael Kucharski <m.kucharski@gmail.com>
* Added CodedInputStream.getTotalBytesRead().

Kacper Kowalik <xarthisius.kk@gmail.com>
* Fixed m4/acx_pthread.m4 problem for some Linux distributions.

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6.76 Netconf Java Toolkit 1.0.0

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 */

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import io.netty.util.ResourceLeak;
import java.nio.ByteOrder;

final class SimpleLeakAwareByteBuf extends WrappedByteBuf {
  
  private final ResourceLeak leak;

  SimpleLeakAwareByteBuf(ByteBuf buf, ResourceLeak leak) {
    super(buf);
    this.leak = leak;
  
}
@Override
public boolean release() {
    boolean deallocated = super.release();
    if (deallocated) {
        leak.close();
    }
    return deallocated;
}

@Override
public boolean release(int decrement) {
    boolean deallocated = super.release(decrement);
    if (deallocated) {
        leak.close();
    }
    return deallocated;
}

@Override
public ByteBuf order(ByteOrder endianness) {
    leak.record();
    if (order() == endianness) {
        return this;
    } else {
        return new SimpleLeakAwareByteBuf(super.order(endianness), leak);
    }
}

@Override
public ByteBuf slice() {
    return new SimpleLeakAwareByteBuf(super.slice(), leak);
}

@Override
public ByteBuf slice(int index, int length) {
    return new SimpleLeakAwareByteBuf(super.slice(index, length), leak);
}

@Override
public ByteBuf duplicate() {
    return new SimpleLeakAwareByteBuf(super.duplicate(), leak);
}

@Override
public ByteBuf readSlice(int length) {
    return new SimpleLeakAwareByteBuf(super.readSlice(length), leak);
}
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*/
package io.netty.buffer;
import java.io.IOException;
import java.io.InputStream;
import java.io.OutputStream;
import java.nio.ByteBuffer;
import java.nio.ByteOrder;
import java.nio.channels.GatheringByteChannel;
import java.nio.channels.ScatteringByteChannel;

/**
* A derived buffer which exposes its parent's sub-region only. It is
* recommended to use {@link ByteBuf#slice()} and
* {@link ByteBuf#slice(int, int)} instead of calling the constructor
* explicitly.
*/
public class SlicedByteBuf extends AbstractDerivedByteBuf {
private final ByteBuf buffer;
private final int adjustment;
private final int length;
public SlicedByteBuf(ByteBuf buffer, int index, int length) {
super(length);
if (index < 0 || index > buffer.capacity() - length) {
throw new IndexOutOfBoundsException(buffer + ".slice(" + index + ", " + length + ')');
}
if (buffer instanceof SlicedByteBuf) {
this.buffer = ((SlicedByteBuf) buffer).buffer;

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adjustment = ((SlicedByteBuf) buffer).adjustment + index;
} else if (buffer instanceof DuplicatedByteBuf) {
    this.buffer = buffer.unwrap();
    adjustment = index;
} else {
    this.buffer = buffer;
    adjustment = index;
}
this.length = length;

writerIndex(length);

@Override
public ByteBuf unwrap() {
    return buffer;
}

@Override
public ByteBufAllocator alloc() {
    return buffer.alloc();
}

@Override
public ByteOrder order() {
    return buffer.order();
}

@Override
public boolean isDirect() {
    return buffer.isDirect();
}

@Override
public int capacity() {
    return length;
}

@Override
public ByteBuf capacity(int newCapacity) {
    throw new UnsupportedOperationException("sliced buffer");
}

@Override
public boolean hasArray() {
    return buffer.hasArray();
}
@Override
public byte[] array() {
    return buffer.array();
}

@Override
public int arrayOffset() {
    return buffer.arrayOffset() + adjustment;
}

@Override
public boolean hasMemoryAddress() {
    return buffer.hasMemoryAddress();
}

@Override
public long memoryAddress() {
    return buffer.memoryAddress() + adjustment;
}

@Override
protected byte _getByte(int index) {
    return buffer.getByte(index + adjustment);
}

@Override
protected short _getShort(int index) {
    return buffer.getShort(index + adjustment);
}

@Override
protected int _getUnsignedMedium(int index) {
    return buffer.getUnsignedMedium(index + adjustment);
}

@Override
protected int _getInt(int index) {
    return buffer.getInt(index + adjustment);
}

@Override
protected long _getLong(int index) {
    return buffer.getLong(index + adjustment);
}

@Override
public ByteBuf duplicate() {
    ByteBuf duplicate = buffer.slice(adjustment, length);

duplicate.setIndex(readerIndex(), writerIndex());
return duplicate;
}

@Override
public ByteBuf copy(int index, int length) {
    checkIndex(index, length);
    return buffer.copy(index + adjustment, length);
}

@Override
public ByteBuf slice(int index, int length) {
    checkIndex(index, length);
    if (length == 0) {
        return Unpooled.EMPTY_BUFFER;
    }
    return buffer.slice(index + adjustment, length);
}

@Override
public ByteBuf getBytes(int index, ByteBuf dst, int dstIndex, int length) {
    checkIndex(index, length);
    buffer.getBytes(index + adjustment, dst, dstIndex, length);
    return this;
}

@Override
public ByteBuf getBytes(int index, byte[] dst, int dstIndex, int length) {
    checkIndex(index, length);
    buffer.getBytes(index + adjustment, dst, dstIndex, length);
    return this;
}

@Override
public ByteBuf getBytes(int index, ByteBuffer dst) {
    checkIndex(index, dst.remaining());
    buffer.getBytes(index + adjustment, dst);
    return this;
}

@Override
protected void _setByte(int index, int value) {
    buffer.setByte(index + adjustment, value);
}

@Override
protected void _setShort(int index, int value) {
    buffer.setShort(index + adjustment, value);

@Override
protected void _setMedium(int index, int value) {
    buffer.setMedium(index + adjustment, value);
}

@Override
protected void _setInt(int index, int value) {
    buffer.setInt(index + adjustment, value);
}

@Override
protected void _setLong(int index, long value) {
    buffer.setLong(index + adjustment, value);
}

@Override
public ByteBuf setBytes(int index, byte[] src, int srcIndex, int length) {
    checkIndex(index, length);
    buffer.setBytes(index + adjustment, src, srcIndex, length);
    return this;
}

@Override
public ByteBuf setBytes(int index, ByteBuf src, int srcIndex, int length) {
    checkIndex(index, length);
    buffer.setBytes(index + adjustment, src, srcIndex, length);
    return this;
}

@Override
public ByteBuf setBytes(int index, ByteBuffer src) {
    checkIndex(index, src.remaining());
    buffer.setBytes(index + adjustment, src);
    return this;
}

@Override
public ByteBuf getBytes(int index, OutputStream out, int length) throws IOException {
    checkIndex(index, length);
    buffer.getBytes(index + adjustment, out, length);
    return this;
}

@Override
public int getBytes(int index, GatheringByteChannel out, int length) throws IOException {
    checkIndex(index, length);
}

@Override
public int getBytes(int index, OutputStream out, int length) throws IOException {
    checkIndex(index, length);
}
return buffer.getBytes(index + adjustment, out, length);
}

@Override
public int setBytes(int index, InputStream in, int length) throws IOException {
    checkIndex(index, length);
    return buffer.setBytes(index + adjustment, in, length);
}

@Override
public int setBytes(int index, ScatteringByteChannel in, int length) throws IOException {
    checkIndex(index, length);
    return buffer.setBytes(index + adjustment, in, length);
}

@Override
public int nioBufferCount() {
    return buffer.nioBufferCount();
}

@Override
public ByteBuffer nioBuffer(int index, int length) {
    checkIndex(index, length);
    return buffer.nioBuffer(index + adjustment, length);
}

@Override
public ByteBuffer[] nioBuffers(int index, int length) {
    checkIndex(index, length);
    return buffer.nioBuffers(index + adjustment, length);
}

@Override
public ByteBuffer internalNioBuffer(int index, int length) {
    checkIndex(index, length);
    return nioBuffer(index, length);
}

@Override
public int forEachByte(int index, int length, ByteBufProcessor processor) {
    int ret = buffer.forEachByte(index + adjustment, length, processor);
    if (ret >= adjustment) {
        return ret - adjustment;
    } else {
        return -1;
    }
}
@Override
public int forEachByteDesc(int index, int length, ByteBufProcessor processor) {
    int ret = buffer.forEachByteDesc(index + adjustment, length, processor);
    if (ret >= adjustment) {
        return ret - adjustment;
    } else {
        return -1;
    }
}

package io.netty.buffer;

import java.io.IOException;
import java.io.InputStream;
import java.io.OutputStream;
import java.nio.ByteBuffer;
import java.nio.ByteOrder;
import java.nio.channels.GatheringByteChannel;
import java.nio.channels.ScatteringByteChannel;

/**
 * A derived buffer which simply forwards all data access requests to its
 * parent. It is recommended to use {@link ByteBuf#duplicate()} instead
 * of calling the constructor explicitly.
 */
public class DuplicatedByteBuf extends AbstractDerivedByteBuf {

    private final ByteBuf buffer;

    public DuplicatedByteBuf(ByteBuf buffer) {
        super(buffer.maxCapacity());
    }
if (buffer instanceof DuplicatedByteBuf) {
    this.buffer = ((DuplicatedByteBuf) buffer).buffer;
} else {
    this.buffer = buffer;
}

setIndex(buffer.readerIndex(), buffer.writerIndex());

@Override
public ByteBuf unwrap() {
    return buffer;
}

@Override
public ByteBufAllocator alloc() {
    return buffer.alloc();
}

@Override
public ByteOrder order() {
    return buffer.order();
}

@Override
public boolean isDirect() {
    return buffer.isDirect();
}

@Override
public int capacity() {
    return buffer.capacity();
}

@Override
public ByteBuf capacity(int newCapacity) {
    buffer.capacity(newCapacity);
    return this;
}

@Override
public boolean hasArray() {
    return buffer.hasArray();
}

@Override
public byte[] array() {
    return buffer.array();
}
@Override
public int arrayOffset() {
    return buffer.arrayOffset();
}

@Override
public boolean hasMemoryAddress() {
    return buffer.hasMemoryAddress();
}

@Override
public long memoryAddress() {
    return buffer.memoryAddress();
}

@Override
public byte getByte(int index) {
    return _getByte(index);
}

@Override
protected byte _getByte(int index) {
    return buffer.getByte(index);
}

@Override
public short getShort(int index) {
    return _getShort(index);
}

@Override
protected short _getShort(int index) {
    return buffer.getShort(index);
}

@Override
public int getUnsignedMedium(int index) {
    return _getUnsignedMedium(index);
}

@Override
protected int _getUnsignedMedium(int index) {
    return buffer.getUnsignedMedium(index);
}

@Override
protected int _getUnsignedMedium(int index) {
    return buffer.getUnsignedMedium(index);
}

@Override
public int getUnsignedMedium(int index) {
    return _getUnsignedMedium(index);
}
public int getInt(int index) {
    return _getInt(index);
}

@Override
protected int _getInt(int index) {
    return buffer.getInt(index);
}

@Override
public long getLong(int index) {
    return _getLong(index);
}

@Override
protected long _getLong(int index) {
    return buffer.getLong(index);
}

@Override
public ByteBuf copy(int index, int length) {
    return buffer.copy(index, length);
}

@Override
public ByteBuf slice(int index, int length) {
    return buffer.slice(index, length);
}

@Override
public ByteBuf getBytes(int index, ByteBuf dst, int dstIndex, int length) {
    buffer.getBytes(index, dst, dstIndex, length);
    return this;
}

@Override
public ByteBuf getBytes(int index, byte[] dst, int dstIndex, int length) {
    buffer.getBytes(index, dst, dstIndex, length);
    return this;
}

@Override
public ByteBuf getBytes(int index, ByteBuffer dst) {
    buffer.getBytes(index, dst);
    return this;
}

@Override
public ByteBuf setByte(int index, int value) {
    _setByte(index, value);
    return this;
}

@Override
protected void _setByte(int index, int value) {
    buffer.setByte(index, value);
}

@Override
public ByteBuf setShort(int index, int value) {
    _setShort(index, value);
    return this;
}

@Override
protected void _setShort(int index, int value) {
    buffer.setShort(index, value);
}

@Override
public ByteBuf setMedium(int index, int value) {
    _setMedium(index, value);
    return this;
}

@Override
protected void _setMedium(int index, int value) {
    buffer.setMedium(index, value);
}

@Override
public ByteBuf setInt(int index, int value) {
    _setInt(index, value);
    return this;
}

@Override
protected void _setInt(int index, int value) {
    buffer.setInt(index, value);
}

@Override
public ByteBuf setLong(int index, long value) {
    _setLong(index, value);
    return this;
}
@Override
protected void _setLong(int index, long value) {
    buffer.setLong(index, value);
}

@Override
public ByteBuf setBytes(int index, byte[] src, int srcIndex, int length) {
    buffer.setBytes(index, src, srcIndex, length);
    return this;
}

@Override
public ByteBuf setBytes(int index, ByteBuf src, int srcIndex, int length) {
    buffer.setBytes(index, src, srcIndex, length);
    return this;
}

@Override
public ByteBuf setBytes(int index, ByteBuffer src) {
    buffer.setBytes(index, src);
    return this;
}

@Override
public ByteBuf getBytes(int index, OutputStream out, int length)
    throws IOException {
    buffer.getBytes(index, out, length);
    return this;
}

@Override
public int getBytes(int index, GatheringByteChannel out, int length)
    throws IOException {
    return buffer.getBytes(index, out, length);
}

@Override
public int setBytes(int index, InputStream in, int length)
    throws IOException {
    return buffer.setBytes(index, in, length);
}

@Override
public int setBytes(int index, ScatteringByteChannel in, int length)
    throws IOException {
    return buffer.setBytes(index, in, length);
}
@Override
public int nioBufferCount() {
    return buffer.nioBufferCount();
}

@Override
public ByteBuffer[] nioBuffers(int index, int length) {
    return buffer.nioBuffers(index, length);
}

@Override
public ByteBuffer internalNioBuffer(int index, int length) {
    return nioBuffer(index, length);
}

@Override
public int forEachByte(int index, int length, ByteBufProcessor processor) {
    return buffer.forEachByte(index, length, processor);
}

@Override
public int forEachByteDesc(int index, int length, ByteBufProcessor processor) {
    return buffer.forEachByteDesc(index, length, processor);
}

package io.netty.handler.codec.sctp;

import io.netty.buffer.ByteBuf;
import io.netty.buffer.Unpooled;
import io.netty.channel.ChannelHandlerContext;
import io.netty.channel.ChannelInboundHandler;

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* /

/
import io.netty.channel.sctp.SctpMessage;
import io.netty.handler.codec.MessageToMessageDecoder;

import java.util.HashMap;
import java.util.List;
import java.util.Map;

/**
 * {@link MessageToMessageDecoder} which will take care of handle fragmented {@link SctpMessage}s, so
 * only <strong>complete</strong> {@link SctpMessage}s will be forwarded to the next
 * {@link ChannelInboundHandler}.
 */
public class SctpMessageCompletionHandler extends MessageToMessageDecoder<SctpMessage> {
    private final Map<Integer, ByteBuf> fragments = new HashMap<Integer, ByteBuf>();

    @Override
    protected void decode(ChannelHandlerContext ctx, SctpMessage msg, List<Object> out) throws Exception {
        final ByteBuf byteBuf = msg.content();
        final int protocolIdentifier = msg.protocolIdentifier();
        final int streamIdentifier = msg.streamIdentifier();
        final boolean isComplete = msg.isComplete();

        ByteBuf frag;
        if (fragments.containsKey(streamIdentifier)) {
            frag = fragments.remove(streamIdentifier);
        } else {
            frag = Unpooled.EMPTY_BUFFER;
        }

        if (isComplete && !frag.isReadable()) {
            //data chunk is not fragmented
            out.add(msg);
        } else if (!isComplete && frag.isReadable()) {
            //more message to complete
            fragments.put(streamIdentifier, Unpooled.wrappedBuffer(frag, byteBuf));
        } else if (isComplete && frag.isReadable()) {
            //last message to complete
            fragments.remove(streamIdentifier);
            SctpMessage assembledMsg = new SctpMessage(
                protocolIdentifier,
                streamIdentifier,
                Unpooled.wrappedBuffer(frag, byteBuf));
            out.add(assembledMsg);
        } else {
            //first incomplete message
            fragments.put(streamIdentifier, byteBuf);
        }

        byteBuf.retain();
    }
}
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6.112 spring-tx 3.1.3.RELEASE

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package org.osgi.service.component.annotations;

/**
* Configuration Policy for the @link Component annotation.
*
* Controls whether component configurations must be satisfied depending on the
* presence of a corresponding Configuration object in the OSGi Configuration
* Admin service. A corresponding configuration is a Configuration object where
* the PID is the name of the component.
*
* @version $Id: 68099d3fae1a9ab0eefca83d357dee0fc148fca $ @since 1.1
*/

public enum ConfigurationPolicy {
    /**
     * Use the corresponding Configuration object if present but allow the
     * component to be satisfied even if the corresponding Configuration object
     * is not present.
     */
    OPTIONAL("optional"),

    /**
     * There must be a corresponding Configuration object for the component
     */
private final String value;

ConfigurationPolicy(String value) {
  this.value = value;
}

@Override
public String toString() {
  return value;
}

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package org.osgi.service.component.annotations;

/**
 * Policy for the @link Reference annotation.
 */

@version $Id: 14e3e74d93bf5b8cb641db8f9ef7aaf64d68eda5 $

public enum ReferencePolicy {
  /**
   * The static policy is the most simple policy and is the default policy. A
   */

* configurations are deactivated before any bound service for a reference
* having a static policy becomes unavailable. If a target service is
* available to replace the bound service which became unavailable, the
* component configuration must be reactivated and bound to the replacement
* service.
 */
STATIC("static"),

/**
 * The dynamic policy is slightly more complex since the component
 * implementation must properly handle changes in the set of bound services.
 * With the dynamic policy, SCR can change the set of bound services without
 * deactivating a component configuration. If the component uses the event
 * strategy to access services, then the component instance will be notified
 * of changes in the set of bound services by calls to the bind and unbind
 * methods.
 */
DYNAMIC("dynamic");

private final String value;
ReferencePolicy(String value) {
    this.value = value;
}

@Override
public String toString() {
    return value;
}

package org.osgi.service.component.annotations;
/**
 * Policy option for the [@link Reference] annotation.
 * @version $Id: 914e3ef6b1ebfc140776ab4ba8773bb1f213d50d $ @since 1.2 */

public enum ReferencePolicyOption {
    /**
     * The reluctant policy option is the default policy option for both
     * [@link ReferencePolicy#STATIC static] and [@link ReferencePolicy#DYNAMIC
     * dynamic] reference policies. When a new target service for a reference
     * becomes available, references having the reluctant policy option for the
     * static policy or the dynamic policy with a unary cardinality will ignore
     * the new target service. References having the dynamic policy with a
     * multiple cardinality will bind the new target service.
     */
    RELUCTANT("reluctant"),

    /**
     * The greedy policy option is a valid policy option for both
     * [@link ReferencePolicy#STATIC static] and [@link ReferencePolicy#DYNAMIC
     * dynamic] reference policies. When a new target service for a reference
     * becomes available, references having the greedy policy option will bind
     * the new target service.
     */
    GREEDY("greedy"),

    private final String value;

    ReferencePolicyOption(String value) {
        this.value = value;
    }

    @Override
    public String toString() {
        return value;
    }
}

7.2 addresstracker-config 0.1.1-Helium-SR1
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7.4 addresstracker-model 0.1.1-Helium-SR1

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7.5 Aether :: Implementation 1.11

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*******************************************************************************/

import java.io.UnsupportedEncodingException;
import java.security.MessageDigest;
import java.security.NoSuchAlgorithmException;

/**
 * A simple digester for strings.
 *
 * @author Benjamin Bentmann
 */
class SimpleDigest {

    private MessageDigest digest;

    private long hash;

    public SimpleDigest() {
    
    }
try {
    digest = MessageDigest.getInstance("SHA-1");
} catch (NoSuchAlgorithmException e) {
    try {
        digest = MessageDigest.getInstance("MD5");
    } catch (NoSuchAlgorithmException ne) {
        digest = null;
        hash = 13;
    }
}

public void update(String data) {
    if (data == null) {
        return;
    }
    if (digest != null) {
        try {
            digest.update(data.getBytes("UTF-8"));
        } catch (UnsupportedEncodingException e) {
            // broken JVM
        }
    } else {
        hash = hash * 31 + data.hashCode();
    }
}

public String digest() {
    if (digest != null) {
        StringBuilder buffer = new StringBuilder(64);
        byte[] bytes = digest.digest();
        // Convert bytes to string...
    }

for ( int i = 0; i < bytes.length; i++ )
{
    int b = bytes[i] & 0xFF;

    if ( b < 0x10 )
    {
        buffer.append( '0' );
    }

    buffer.append( Integer.toHexString( b ) );
}

return buffer.toString();
}
else
{
    return Long.toHexString( hash );
}
}

package org.sonatype.aether.impl.internal;

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*******************************************************************************/

import java.io.File;
import java.util.SortedSet;
import java.util.TreeSet;
import org.sonatype.aether.RepositorySystemSession;
import org.sonatype.aether.artifact.Artifact;
import org.sonatype.aether.metadata.Metadata;
import org.sonatype.aether.repository.LocalArtifactRegistration;
import org.sonatype.aether.repository.LocalArtifactRequest;
import org.sonatype.aether.repository.LocalArtifactResult;
import org.sonatype.aether.repository.LocalMetadataRegistration;
import org.sonatype.aether.repository.LocalMetadataRequest;
import org.sonatype.aether.repository.LocalMetadataResult;
import org.sonatype.aether.repository.LocalRepository;
import org.sonatype.aether.repository.LocalRepositoryManager;
import org.sonatype.aether.repository.RemoteRepository;
import org.sonatype.aether.spi.log.Logger;

/**
 * A local repository manager that realizes the classical Maven 2.0 local repository.
 * @author Benjamin Bentmann
 */
public class SimpleLocalRepositoryManager
    implements LocalRepositoryManager
{
    private final LocalRepository repository;

    public SimpleLocalRepositoryManager( File basedir )
    {
        this( basedir, "simple" );
    }

    public SimpleLocalRepositoryManager( String basedir )
    {
        this( ( basedir != null ) ? new File( basedir ) : null, "simple" );
    }

    SimpleLocalRepositoryManager( File basedir, String type )
    {
        if ( basedir == null )
        {
            throw new IllegalArgumentException( "base directory has not been specified" );
        }
        repository = new LocalRepository( basedir.getAbsolutePath(), type );
    }

    public SimpleLocalRepositoryManager setLogger( Logger logger )
    {
        return this;
    }

    public LocalRepository getRepository()
    {
        return repository;
    }

    public String getPathForLocalArtifact( Artifact artifact )
    {
        StringBuilder path = new StringBuilder( 128 );

        path = new StringBuilder( 128 );
path.append( artifact.getGroupId().replace( ',', '/' ) ).append( '/' );

path.append( artifact.getArtifactId() ).append( '/' );

path.append( artifact.getBaseVersion() ).append( '/' );

path.append( artifact.getArtifactId() ).append( '-' ).append( artifact.getVersion() );

if ( artifact.getClassifier().length() > 0 )
{
    path.append( '-' ).append( artifact.getClassifier() );
}

path.append( '.' ).append( artifact.getExtension() );

return path.toString();}

public String getPathForRemoteArtifact( Artifact artifact, RemoteRepository repository, String context )
{
    return getPathForLocalArtifact( artifact );
}

public String getPathForLocalMetadata( Metadata metadata )
{
    return getPath( metadata, "local" );
}

public String getPathForRemoteMetadata( Metadata metadata, RemoteRepository repository, String context )
{
    return getPath( metadata, getRepositoryKey( repository, context ) );
}

String getRepositoryKey( RemoteRepository repository, String context )
{
    String key;

    if ( repository.isRepositoryManager() )
    {
        // repository serves dynamic contents, take request parameters into account for key

        StringBuilder buffer = new StringBuilder( 128 );

        buffer.append( repository骀getId() );

        buffer.append( '-' );
    }
SortedSet<String> subKeys = new TreeSet<String>();
for ( RemoteRepository mirroredRepo : repository.getMirroredRepositories() )
{
    subKeys.add( mirroredRepo.getId() );
}

SimpleDigest digest = new SimpleDigest();
digest.update( context );
for ( String subKey : subKeys )
{
    digest.update( subKey );
}
buffer.append( digest.digest() );

key = buffer.toString();
}
else
{
    // repository serves static contents, its id is sufficient as key
    key = repository.getId();
}

return key;
}

private String getPath( Metadata metadata, String repositoryKey )
{
    StringBuilder path = new StringBuilder( 128 );
    if ( metadata.getGroupId().length() > 0 )
    {
        path.append( metadata.getGroupId().replace( '.', '/' ) ).append( '/' );
    }
    if ( metadata.getArtifactId().length() > 0 )
    {
        path.append( metadata.getArtifactId() ).append( '/' );
    }
    if ( metadata.getVersion().length() > 0 )
    {
        path.append( metadata.getVersion() ).append( '/' );
    }
    path.append( insertRepositoryKey( metadata.getType(), repositoryKey ) );
    return path.toString();
}
private String insertRepositoryKey(String filename, String repositoryKey) {
    String result;
    int idx = filename.indexOf('.');
    if (idx < 0) {
        result = filename + '-' + repositoryKey;
    } else {
        result = filename.substring(0, idx) + '-' + repositoryKey + filename.substring(idx);
    }
    return result;
}

public LocalArtifactResult find(RepositorySystemSession session, LocalArtifactRequest request) {
    String path = getPathForLocalArtifact(request.getArtifact());
    File file = new File(getRepository().getBasedir(), path);

    LocalArtifactResult result = new LocalArtifactResult(request);
    if (file.isFile()) {
        result.setFile(file);
        result.setAvailable(true);
    }

    return result;
}

public void add(RepositorySystemSession session, LocalArtifactRegistration request) {
    // noop
}

@Override
public String toString() {
    return String.valueOf(getRepository());
}

public LocalMetadataResult find(RepositorySystemSession session, LocalMetadataRequest request) {
    LocalMetadataResult result = new LocalMetadataResult(request);
    String path;
Metadata metadata = request.getMetadata();
String context = request.getContext();
RemoteRepository remote = request.getRepository();

if ( remote != null )
{
    path = getPathForRemoteMetadata( metadata, remote, context );
}
else
{
    path = getPathForLocalMetadata( metadata );
}

File file = new File( getRepository().getBasedir(), path );
if ( file.isFile() )
{
    result.setFile( file );
}

return result;

public void add( RepositorySystemSession session, LocalMetadataRegistration request )
{
    // noop
}

package org.sonatype.aether.impl.internal;

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*******************************************************************************/

import org.codehaus.plexus.component.annotations.Component;
import org.sonatype.aether.repository.LocalRepository;
import org.sonatype.aether.repository.LocalRepositoryManager;
import org.sonatype.aether.spi.localrepo.LocalRepositoryManagerFactory;
import org.sonatype.aether.repository.NoLocalRepositoryManagerException;
import org.sonatype.aether.spi.localrepo.LocalRepositoryManagerFactory;
/**
 * Creates {@link SimpleLocalRepositoryManager}s for repository type {@code "simple"}.
 *
 * @author Benjamin Hanzelmann
 */
@Component( role = LocalRepositoryManagerFactory.class, hint = "simple" )
public class SimpleLocalRepositoryManagerFactory
    implements LocalRepositoryManagerFactory
{

    public LocalRepositoryManager newInstance( LocalRepository repository )
    throws NoLocalRepositoryManagerException
    {
        if ( "".equals( repository.getContentType() ) || "simple".equals( repository.getContentType() ) )
        {
            return new SimpleLocalRepositoryManager( repository.getBasedir() );
        }
        else
        {
            throw new NoLocalRepositoryManagerException( repository );
        }
    }

    public int getPriority()
    {
        return 0;
    }
}

7.6 angular 1.2.16
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7.7 angular-bootstrap 0.7.0

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7.10 angular-ui-date 0.0.3

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7.14 AngularJS 1.2.16 :(2014-04-03)

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7.19 Apache Karaf :: Shell odl/xsql

Commands 1.1.1-Helium-SR1

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7.20 Apache Log4j 1.2.16

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Version 2.1, February 1999

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7.38 dlux.common.yangutils.resources 0.0.2-Helium-SR1

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**7.39 dlux.connection_manager.resources**

**0.0.2-Helium-SR1**

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7.40 dlux.container.resources 0.0.2-Helium-SR1

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7.41 dlux.core.resources 0.0.2-Helium-SR1

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7.42 dlux.flow.resources 0.0.2-Helium-SR1

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iv) states that source code for the Program is available from such Contributor, and informs licensees how to obtain it in a reasonable manner on or through a medium customarily used for software exchange.

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7.43 dlux.loader.resources 0.0.2-Helium-SR1

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```xml
<?xml version="1.0" encoding="UTF-8"?>
<module name="shutdown-impl"

  xmlns="urn:ietf:params:xml:ns:yang:yin:1"
  xmlns:shutdown="urn:opendaylight:params:xml:ns:yang:controller:shutdown"
  xmlns:rpcx="urn:ietf:params:xml:ns:yang:rpc-context">
     <yang-version value="1"/>
     <prefix value="shutdown-impl"/>
     <import module="shutdown">
           <prefix value="shutdown"/>
           <revision-date date="2013-12-18"/>
     </import>
     <import module="config">
           <prefix value="config"/>
           <revision-date date="2013-04-05"/>
     </import>
     <import module="rpc-context">
           <prefix value="rpcx"/>
           <revision-date date="2013-06-17"/>
     </import>
     <organization>
           <text>Cisco Systems, Inc.</text>
     </organization>
</module>
```
This module contains the base YANG definitions for shutdown implementation.

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<identity name="shutdown">
  <base name="config:module-type"/>
  <config:provided-service name="shutdown:shutdown"/>
</identity>

<augment target-node="/config:modules/config:module/config:configuration">
  <case name="shutdown">
    <when condition="/config:modules/config:module/config:type = 'shutdown'"/>
    <leaf name="secret">
      <type name="string"/>
      <default value=""/>
    </leaf>
  </case>
</augment>

<augment target-node="/config:modules/config:module/config:state">
  <case name="shutdown">
    <when condition="/config:modules/config:module/config:type = 'shutdown'"/>
    <rpcx:rpc-context-instance context-type="shutdown-rpc"/>
  </case>
</augment>

<identity name="shutdown-rpc"/>
<rpc name="shutdown">
  <input>
    <uses name="rpcx:rpc-context-ref">
      <refine target-node="context-instance">
        <rpcx:rpc-context-instance context-type="shutdown-rpc"/>
      </refine>
    </uses>
    <leaf name="input-secret">
      <type name="string"/>
    </leaf>
    <leaf name="max-wait-time"/>
Maximum time in milliseconds before process is forcibly exited. Zero or null cancels this functionality.
accompanies this distribution, and is available at http://www.eclipse.org/legal/epl-v10.html

</description>
<revision date="2013-12-01">
<description>
<text>Initial revision</text>
</description>
</revision>
<identity name="threadpool-fixed">
<base name="config:module-type"/>
<config:provided-service name="th:threadpool"/>
<config:java-name-prefix java-prefix="FixedThreadPool"/>
</identity>
<augment target-node="/config:modules/config:module/config:configuration">
<case name="threadpool-fixed">
<when condition="/config:modules/config:module/config:type = 'threadpool-fixed'"/>
<leaf name="max-thread-count">
?type="uint16"/>
</leaf>
<container name="threadFactory">
<uses name="config:service-ref">
<refine target-node="type">
<config:required-identity name="th:threadfactory"/>
</refine>
</uses>
</container>
</case>
</augment>
</module>

<?xml version="1.0" encoding="UTF-8"?>
<module name="threadpool-impl-flexible"
xmlns="urn:ietf:params:xml:ns:yang:yin:1"
xmlns:rpcx="urn:ietf:params:xml:ns:yang:rpc-context">
<yang-version value="1.0"/>
<prefix value="th-java-flexible"/>
<import module="threadpool"/>
<prefix value="th"/>
<revision-date date="2013-04-09"/></import>
<import module="config"/>
<prefix value="config"/>
<revision-date date="2013-04-05"/></import>
<import module="rpc-context"/>
This module contains the base YANG definitions for thread services pure Java implementation.

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<?xml version="1.0" encoding="UTF-8"?>
<module name="threadpool-impl-scheduled"
xmlns="urn:ietf:params:xml:ns:yang:yin:1"
xmlns:rpcx="urn:ietf:params:xml:ns:yang:rpc-context">
<yang-version value="1"/>
<prefix value="th-java-scheduled"/>
<import module="threadpool">
<prefix value="th"/>
<revision-date date="2013-04-09"/>
</import>
<import module="config">
<prefix value="config"/>
<revision-date date="2013-04-05"/>
</import>
<import module="rpc-context">
<prefix value="rpcx"/>
<revision-date date="2013-06-17"/>
</import>
<organization>
<text>Cisco Systems, Inc.</text>
</organization>
<contact>
<text>Robert Varga &lt;rovarga@cisco.com&gt;</text>
</contact>
<description>
<text>This module contains the base YANG definitions for
thread services pure Java implementation.

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accompanies this distribution, and is available at
</description>
<revision date="2013-12-01">
<description>
<text>Initial revision</text>
</description>
</revision>
<identity name="threadpool-scheduled">
<base name="config-module-type"/>
<config:provided-service name="th:scheduled-threadpool"/>
<config:java-name-prefix java-prefix="ScheduledThreadPool"/>
</identity>
<augment target-node="/config:modules/config:module/config:configuration">
<case name="threadpool-scheduled">
<when condition="/config:modules/config:module/config:type = 'threadpool-scheduled'"/>
<leaf name="max-thread-count">
,type name="uint16"/>
</leaf>
<container name="threadFactory">
<uses name="config:service-ref">
<refine target-node="type">
<config:required-identity name="th:threadfactory"/>
</refine>
</uses>
</container>
</case>
</augment>
</module>
<?xml version="1.0" encoding="UTF-8"?>
<module name="threadpool-impl"
xmlns="urn:ietf:params:xml:ns:yang:yin:1"
xmlns:rpcx="urn:ietf:params:xml:ns:yang:rpc-context">
<yang-version value="1.0"/>
<prefix value="th-java"/>
<import module="threadpool">
<prefix value="th"/>
<revision-date date="2013-04-09"/>
</import>
<import module="config">
<prefix value="config"/>
<revision-date date="2013-04-05"/>
</import>
<import module="rpc-context">
<prefix value="rpcx"/>
<revision-date date="2013-06-17"/>
</import>
<organization>
<text>Cisco Systems, Inc.</text>
</organization>
<contact>
<text>Robert Varga &lt;rovarga@cisco.com&gt;</text>
</contact>
This module contains the base YANG definitions for thread services pure Java implementation.

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<identity name="eventbus">
  <base name="config:module-type"/>
  <config:provided-service name="th:eventbus"/>
  <config:java-name-prefix java-prefix="EventBus"/>
</identity>

<augment target-node="/config:modules/config:module/config:configuration">
  <case name="eventbus">
    <when condition="/config:modules/config:module/config:type = 'eventbus'"/>
  </case>
</augment>

<identity name="event-bus-rpc"/>

<identity name="async-eventbus">
  <base name="config:module-type"/>
  <config:provided-service name="th:eventbus"/>
  <config:java-name-prefix java-prefix="AsyncEventBus"/>
</identity>

<augment target-node="/config:modules/config:module/config:configuration">
  <case name="async-eventbus">
    <when condition="/config:modules/config:module/config:type = 'async-eventbus'"/>
  </case>
</augment>
<container name="threadpool">
  <uses name="config:service-ref">
    <refine target-node="type">
      <config:required-identity name="th:threadpool"/>
    </refine>
  </uses>
</container>

<augment target-node="/config:modules/config:module/config:state">
  <case name="async-eventbus">
    <when condition="/config:modules/config:module/config:type = 'async-eventbus'"/>
    <rpcx:rpc-context-instance context-type="event-bus-rpc"/>
  </case>
</augment>

<rpc name="get-dead-events-count">
  <config:java-name-prefix java-prefix="countDeadEvents"/>
  <input>
    <uses name="rpcx:rpc-context-ref">
      <refine target-node="context-instance">
        <rpcx:rpc-context-instance context-type="event-bus-rpc"/>
      </refine>
    </uses>
  </input>
  <output>
    <leaf name="result">
      <type name="uint32"/>
    </leaf>
  </output>
</rpc>

<identity name="threadfactory-naming">
  <base name="config:module-type"/>
  <config:provided-service name="th:threadfactory"/>
  <config:java-name-prefix java-prefix="NamingThreadFactory"/>
</identity>

<augment target-node="/config:modules/config:module/config:configuration">
  <case name="threadfactory-naming">
    <when condition="/config:modules/config:module/config:type = 'threadfactory-naming'"/>
    <leaf name="name-prefix">
      <type name="string"/>
    </leaf>
  </case>
</augment>
</module>
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*/
```

```package org.opendaylight.controller.frm.impl;
```

```import com.google.common.base.Optional;
import com.google.common.base.Preconditions;
import org.opendaylight.controller.frm.ForwardingRulesCommiter;
import org.opendaylight.controller.frm.ForwardingRulesManager;
import org.opendaylight.controller.frm.md.sal.common.api.data.AsyncDataChangeEvent;
import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.inventory.rev130819.FlowCapableNode;
import org.opendaylight.yangtools.yang.binding.DataObject;
import org.opendaylight.yangtools.yang.binding.InstanceIdentifier;
```

```import java.util.Collections;
import java.util.Map;
import java.util.Set;
```

```/**
* AbstractChangeListner implemented basic {@link AsyncDataChangeEvent} processing for
* flow node subDataObject (flows, groups and meters).
* @author <a href="mailto:vdemcak@cisco.com">Vaclav Demcak</a>
*/
```

```public abstract class AbstractListeningCommiter <T extends DataObject> implements ForwardingRulesCommiter<T> {
```

```protected ForwardingRulesManager provider;
```

```protected final Class<T> clazz;
```

```public AbstractListeningCommiter (ForwardingRulesManager provider, Class<T> clazz) {
    this.provider = Preconditions.checkNotNull(provider, "ForwardingRulesManager can not be null!"); 
    this.clazz = Preconditions.checkNotNull(clazz, "Class can not be null!"); 
}
```

```@Override
public void onDataChanged(final AsyncDataChangeEvent<InstanceIdentifier<?>, DataObject> changeEvent) {
    Preconditions.checkNotNull(changeEvent, "Async ChangeEvent can not be null!");
    /* All DataObjects for create */
    final Map<InstanceIdentifier<?>, DataObject> createdData = changeEvent.getCreatedData() != null
```
private void createData(final Map<InstanceIdentifier<?>, DataObject> createdData) {
    final Set<InstanceIdentifier<?>> keys = createdData.keySet() != null
        ? createdData.keySet() : Collections.<InstanceIdentifier<?>> emptySet();
    for (InstanceIdentifier<?> key : keys) {
        if (clazz.equals(key.getTargetType())) {
            final InstanceIdentifier<FlowCapableNode> nodeIdent =
                key.firstIdentifierOf(FlowCapableNode.class);
            if (preConfigurationCheck(nodeIdent)) {
                InstanceIdentifier<T> createKeyIdent = key.firstIdentifierOf(clazz);
                final Optional<DataObject> value = Optional.of(createdData.get(key));
                if (value.isPresent()) {
                    this.add(createKeyIdent, (T)value.get(), nodeIdent);
                }
            }
        }
    }
}

@SuppressWarnings("unchecked")
private void updateData(final Map<InstanceIdentifier<?>, DataObject> updateData, final Map<InstanceIdentifier<?>, DataObject> originalData) {
    final Set<InstanceIdentifier<?>> keys = updateData.keySet() != null
        ? updateData.keySet() : Collections.<InstanceIdentifier<?>> emptySet();
    for (InstanceIdentifier<?> key : keys) {
        if (clazz.equals(key.getTargetType())) {
            final InstanceIdentifier<FlowCapableNode> nodeIdent =
                key.firstIdentifierOf(FlowCapableNode.class);
            if (preConfigurationCheck(nodeIdent)) {
                InstanceIdentifier<T> createKeyIdent = key.firstIdentifierOf(clazz);
                final Optional<DataObject> value = Optional.of(updateData.get(key));
                if (value.isPresent()) {
                    this.add(createKeyIdent, (T)value.get(), nodeIdent);
                }
            }
        }
    }
}
? updateData.keySet() : Collections.<InstanceIdentifier<?>> emptySet();
for (InstanceIdentifier<?> key : keys) {
    if (clazz.equals(key.getTargetType())) {
        final InstanceIdentifier<FlowCapableNode> nodeIdent =
            key.firstIdentifierOf(FlowCapableNode.class);
        if (preConfigurationCheck(nodeIdent)) {
            InstanceIdentifier<T> updateKeyIdent = key.firstIdentifierOf(clazz);
            final Optional<DataObject> value = Optional.of(updateData.get(key));
            final Optional<DataObject> original = Optional.of(originalData.get(key));
            if (value.isPresent() && original.isPresent()) {
                this.update(updateKeyIdent, (T)original.get(), (T)value.get(), nodeIdent);
            }
        }
    }
}

@SuppressWarnings("unchecked")
private void removeData(Set<InstanceIdentifier<?>> removeData,
    final Map<InstanceIdentifier<?>, DataObject> originalData) {
    for (InstanceIdentifier<?> key : removeData) {
        if (clazz.equals(key.getTargetType())) {
            final InstanceIdentifier<FlowCapableNode> nodeIdent =
                key.firstIdentifierOf(FlowCapableNode.class);
            if (preConfigurationCheck(nodeIdent)) {
                final InstanceIdentifier<T> ident = key.firstIdentifierOf(clazz);
                final DataObject removeValue = originalData.get(key);
                this.remove(ident, (T)removeValue, nodeIdent);
            }
        }
    }
}

private boolean preConfigurationCheck(final InstanceIdentifier<FlowCapableNode> nodeIdent) {
    Preconditions.checkNotNull(nodeIdent, "FlowCapableNode ident can not be null!");
    return provider.isNodeActive(nodeIdent);
}
/**
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 */
package org.opendaylight.controller.frm.impl;
import java.util.Collections;
import java.util.List;
import java.util.Set;

import org.opendaylight.controller.frm.FlowNodeReconciliation;
import org.opendaylight.controller.frm.ForwardingRulesManager;
import org.opendaylight.controller.frm.FlowsNodeReconciliation;
import org.opendaylight.controller.md.sal.binding.api.DataBroker;
import org.opendaylight.controller.md.sal.binding.api.DataChangeListener;
import org.opendaylight.controller.md.sal.binding.api.ReadOnlyTransaction;
import org.opendaylight.controller.md.sal.common.api.data.AsyncDataBroker.DataChangeScope;
import org.opendaylight.controller.md.sal.common.api.data.AsyncDataChangeEvent;
import org.opendaylight.controller.md.sal.common.api.data.LogicalDatastoreType;
import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.inventory.rev130819.FlowCapableNode;
import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.inventory.rev130819.meters.Meter;
import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.inventory.rev130819.tables.Table;
import org.opendaylight.yang.gen.v1.urn.opendaylight.group.types.rev131018.groups.Group;
import org.opendaylight.yangtools.concepts.ListenerRegistration;
import org.opendaylight.yangtools.yang.binding.DataObject;
import org.opendaylight.yangtools.yang.binding.InstanceIdentifier;
import org.slf4j.Logger;
import org.slf4j.LoggerFactory;
import com.google.common.base.Optional;
import com.google.common.base.Preconditions;

/**
 * forwardingrules-manager
 * org.opendaylight.controller.frm
 *
 * FlowNode Reconciliation Listener
 * Reconciliation for a new FlowNode
 *
 * @author <a href="mailto:vdemcak@cisco.com">Vaclav Demcak</a>
 *
 * Created: Jun 13, 2014
 */
public class FlowNodeReconciliationImpl implements FlowNodeReconciliation {

    private static final Logger LOG = LoggerFactory.getLogger(FlowNodeReconciliationImpl.class);

    public void reconcile(InstanceIdentifier<FlowCapableNode> key)
    {
    // reconciliation logic here
    }

    public void delete(InstanceIdentifier<FlowCapableNode> key)
    {
    // deletion logic here
    }
}
private final ForwardingRulesManager provider;

private ListenerRegistration<DataChangeListener> listenerRegistration;

public FlowNodeReconciliationImpl (final ForwardingRulesManager manager, final DataBroker db) {
    this.provider = Preconditions.checkNotNull(manager, "ForwardingRulesManager can not be null!");
    Preconditions.checkNotNull(db, "DataBroker can not be null!");
    /* Build Path */
    InstanceIdentifier<FlowCapableNode> flowNodeWildCardIdentifier = InstanceIdentifier.create(Nodes.class)
        .child(Node.class).augmentation(FlowCapableNode.class);
    this.listenerRegistration = db.registerDataChangeListener(LogicalDatastoreType.OPERATIONAL,
        flowNodeWildCardIdentifier, FlowNodeReconciliationImpl.this, DataChangeScope.BASE);
}

@Override
public void close() {
    if (listenerRegistration != null) {
        try {
            listenerRegistration.close();
        } catch (Exception e) {
            LOG.error("Error by stop FRM FlowNodeReconilListener.", e);
        }
        listenerRegistration = null;
    }
}

@Override
public void onDataChanged(final AsyncDataChangeEvent<InstanceIdentifier<?>, DataObject> changeEvent) {
    Preconditions.checkNotNull(changeEvent,"Async ChangeEvent can not be null!");
    /* All DataObjects for create */
    final Set<InstanceIdentifier<?>> createdData = changeEvent.getCreatedData() != null
        ? changeEvent.getCreatedData().keySet() : Collections.<InstanceIdentifier<?>> emptySet();
    /* All DataObjects for remove */
    final Set<InstanceIdentifier<?>> removeData = changeEvent.getRemovedPaths() != null
        ? changeEvent.getRemovedPaths() : Collections.<InstanceIdentifier<?>> emptySet();
    for (InstanceIdentifier<?> entryKey : removeData) {
        final InstanceIdentifier<FlowCapableNode> nodeIdent = entryKey
            .firstIdentifierOf(FlowCapableNode.class);
        if ( ! nodeIdent.isWildcared()) {
            flowNodeDisconnected(nodeIdent);
        }
    }
    for (InstanceIdentifier<?> entryKey : createdData) {
        final InstanceIdentifier<FlowCapableNode> nodeIdent = entryKey
            .firstIdentifierOf(FlowCapableNode.class);
        if ( ! nodeIdent.isWildcared()) {
            }
flowNodeConnected(nodeIdent);
}
}
}

@Override
public void flowNodeDisconnected(InstanceIdentifier<FlowCapableNode> disconnectedNode) {
  provider.unregistrateNode(disconnectedNode);
}

@Override
public void flowNodeConnected(InstanceIdentifier<FlowCapableNode> connectedNode) {
  if ( ! provider.isNodeActive(connectedNode)) {
    provider.registrateNewNode(connectedNode);
    reconciliation(connectedNode);
  }
}

private void reconciliation(final InstanceIdentifier<FlowCapableNode> nodeIdent) {

  ReadOnlyTransaction trans = provider.getReadTranaction();
  Optional<FlowCapableNode> flowNode = Optional.absent();

  try {
    flowNode = trans.read(LogicalDatastoreType.CONFIGURATION, nodeIdent).get();
  }
  catch (Exception e) {
    LOG.error("Fail with read Config/DS for Node {} !", nodeIdent, e);
  }

  if (flowNode.isPresent()) {
    /* Groups - have to be first */
    List<Group> groups = flowNode.get().getGroup() != null
      ? flowNode.get().getGroup() : Collections.<Group> emptyList();
    for (Group group : groups) {
      final KeyedInstanceIdentifier<Group, GroupKey> groupIdent =
        nodeIdent.child(Group.class, group.getKey());
      this.provider.getGroupCommiter().add(groupIdent, group, nodeIdent);
    }
    /* Meters */
    List<Meter> meters = flowNode.get().getMeter() != null
      ? flowNode.get().getMeter() : Collections.<Meter> emptyList();
    for (Meter meter : meters) {
      final KeyedInstanceIdentifier<Meter, MeterKey> meterIdent =
        nodeIdent.child(Meter.class, meter.getKey());
      this.provider.getMeterCommiter().add(meterIdent, meter, nodeIdent);
    }
    /* Flows */
List<Table> tables = flowNode.get().getTable() != null
    ? flowNode.get().getTable() : Collections.<Table> emptyList();
for (Table table : tables) {
    final KeyedInstanceIdentifier<Table, TableKey> tableIdent =
    nodeIdent.child(Table.class, table.getKey());
    for (Flow flow : flows) {
        final KeyedInstanceIdentifier<Flow, FlowKey> flowIdent =
        tableIdent.child(Flow.class, flow.getKey());
        this.provider.getFlowCommitter().add(flowIdent, flow, nodeIdent);
    }
}
/* clean transaction */
trans.close();
}
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 */

package org.opendaylight.controller.frm.impl;

import java.util.Collections;
import java.util.Set;
import java.util.concurrent.atomic.AtomicLong;
import org.opendaylight.controller.frm.FlowNodeReconciliation;
import org.opendaylight.controller.frm.ForwardingRulesCommiter;
import org.opendaylight.controller.frm.ForwardingRulesManager;
import org.opendaylight.controller.md.sal.binding.api.DataBroker;
import org.opendaylight.controller.md.sal.binding.api.ReadOnlyTransaction;
import org.opendaylight.controller.sal.binding.api.RpcConsumerRegistry;
import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.inventory.rev130819.FlowCapableNode;
import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.inventory.rev130819.meters.Meter;
import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.inventory.rev130819.tables.table.Flow;
import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.service.rev130819.SalFlowService;
import org.opendaylight.yang.gen.v1.urn.opendaylight.group.service.rev130918.SalGroupService;
import org.opendaylight.yang.gen.v1.urn.opendaylight.group.types.rev131018.groups.Group;
import org.opendaylight.yangtools.yang.binding.InstanceIdentifier;
import org.slf4j.Logger;
import org.slf4j.LoggerFactory;
import com.google.common.base.Preconditions;
import com.google.common.collect.Sets;

/**
 * forwardingrules-manager
 * org.opendaylight.controller.frm.impl
 *
 * Manager and middle point for whole module.
 * It contains ActiveNodeHolder and provide all RPC services.
 *
 * @author <a href="mailto:vdemcak@cisco.com">Vaclav Demcak</a>
 *
 * Created: Aug 25, 2014
 */

public class ForwardingRulesManagerImpl implements ForwardingRulesManager {

    private static final Logger LOG = LoggerFactory.getLogger(ForwardingRulesManagerImpl.class);

    private final AtomicLong txNum = new AtomicLong();
    private final Object lockObj = new Object();
    private Set<InstanceIdentifier<FlowCapableNode>> activeNodes = Collections.emptySet();

    private final DataBroker dataService;
    private final SalFlowService salFlowService;
    private final SalGroupService salGroupService;
    private final SalMeterService salMeterService;

    private final DataBroker dataService;
    private final SalFlowService salFlowService;
    private final SalGroupService salGroupService;
    private final SalMeterService salMeterService;

    private ForwardingRulesCommitter<Flow> flowListener;
    private ForwardingRulesCommitter<Group> groupListener;
    private ForwardingRulesCommitter<Meter> meterListener;
    private FlowNodeReconciliation nodeListener;

    public ForwardingRulesManagerImpl(final DataBroker dataBroker,
            final RpcConsumerRegistry rpcRegistry) {
        this.dataService = Preconditions.checkNotNull(dataBroker, "DataBroker can not be null!");
        Preconditions.checkArgument(rpcRegistry != null, "RpcConsumerRegistry can not be null !");

        this.salFlowService = Preconditions.checkNotNull(rpcRegistry.getRpcService(SalFlowService.class),
                "RPC SalFlowService not found.");
        this.salGroupService = Preconditions.checkNotNull(rpcRegistry.getRpcService(SalGroupService.class),
                "RPC SalGroupService not found.");
        this.salMeterService = Preconditions.checkNotNull(rpcRegistry.getRpcService(SalMeterService.class),
                "RPC SalMeterService not found.");
    }

    @Override
    public void start() {

    }

    @Override
    public void start() {

    }

this.flowListener = new FlowForwarder(this, dataService);
this.groupListener = new GroupForwarder(this, dataService);
this.meterListener = new MeterForwarder(this, dataService);
this.nodeListener = new FlowNodeReconciliationImpl(this, dataService);
LOG.info("ForwardingRulesManager has started successfully.");
}

@Override
public void close() throws Exception {
    if(this.flowListener != null) {
        this.flowListener.close();
        this.flowListener = null;
    }
    if (this.groupListener != null) {
        this.groupListener.close();
        this.groupListener = null;
    }
    if (this.meterListener != null) {
        this.meterListener.close();
        this.meterListener = null;
    }
    if (this.nodeListener != null) {
        this.nodeListener.close();
        this.nodeListener = null;
    }
}

@Override
public ReadOnlyTransaction getReadTranaction() {
    return dataService.newReadOnlyTransaction();
}

@Override
public String getNewTransactionId() {
    return "DOM-" + txNum.getAndIncrement();
}

@Override
public boolean isNodeActive(InstanceIdentifier<FlowCapableNode> ident) {
    return activeNodes.contains(ident);
}

@Override
public void registrateNewNode(InstanceIdentifier<FlowCapableNode> ident) {
    if ( ! activeNodes.contains(ident)) {
        synchronized (lockObj) {
            if ( ! activeNodes.contains(ident)) {
                Set<InstanceIdentifier<FlowCapableNode>> set =

    // Rest of the class
Sets.newHashSet(activeNodes);
set.add(ident);
activeNodes = Collections.unmodifiableSet(set);
}
}
}

@Override
public void unregistrateNode(InstanceIdentifier<FlowCapableNode> ident) {
    if (activeNodes.contains(ident)) {
        synchronized (lockObj) {
            if (activeNodes.contains(ident)) {
                Set<InstanceIdentifier<FlowCapableNode>> set =
                    Sets.newHashSet(activeNodes);
                set.remove(ident);
                activeNodes = Collections.unmodifiableSet(set);
            }
        }
    }
}

@Override
public SalFlowService getSalFlowService() {
    return salFlowService;
}

@Override
public SalGroupService getSalGroupService() {
    return salGroupService;
}

@Override
public SalMeterService getSalMeterService() {
    return salMeterService;
}

@Override
public ForwardingRulesCommiter<Flow> getFlowCommiter() {
    return flowListener;
}

@Override
public ForwardingRulesCommiter<Group> getGroupCommiter() {
    return groupListener;
}

@Override
public ForwardingRulesCommiter<Meter> getMeterCommiter() {
    return meterListener;
}

@Override
public FlowNodeReconciliation getFlowNodeReconciliation() {
    return nodeListener;
}

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 */

package org.opendaylight.controller.frm;

import org.opendaylight.controller.md.sal.binding.api.DataChangeListener;
import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.inventory.rev130819.FlowCapableNode;
import org.opendaylight.yangtools.yang.binding.DataObject;
import org.opendaylight.yangtools.yang.binding.InstanceIdentifier;

/**
 * forwardingrules-manager
 * org.opendaylight.controller.frm
 *
 * ForwardingRulesCommiter
 * It represent a contract between DataStore DataChangeEvent and relevant
 * SalRpcService for device. Every implementation has to be registered for
 * Configurational/DS tree path.
 *
 * @author <a href="mailto:vdemcak@cisco.com">Vaclav Demcak</a>
 *
 * Created: Aug 25, 2014
 */

public interface ForwardingRulesCommiter <D extends DataObject> extends AutoCloseable, DataChangeListener {

    /**
     * Method removes DataObject which is identified by InstanceIdentifier
     * from device.
     *
     * @param InstanceIdentifier identifier - the whole path to DataObject
     * @param DataObject remove - DataObject for removing
     * @param Parent Node InstanceIdentifier
     */
    void remove(InstanceIdentifier<D> identifier, D del,
/**
 * Method updates the original DataObject to the update DataObject
 * in device. Both are identified by same InstanceIdentifier
 *
 * @param InstanceIdentifier identifier - the whole path to DataObject
 * @param DataObject original - original DataObject (for update)
 * @param DataObject update - changed DataObject (contain updates)
 */
void update(InstanceIdentifier<D> identifier, D original, D update,
            InstanceIdentifier<FlowCapableNode> nodeIdent);

/**
 * Method adds the DataObject which is identified by InstanceIdentifier
 * to device.
 *
 * @param InstanceIdentifier identifier - the whole path to new DataObject
 * @param DataObject add - new DataObject
 */
void add(InstanceIdentifier<D> identifier, D add,
         InstanceIdentifier<FlowCapableNode> nodeIdent);
}

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7.56 hosttracker-config 0.1.1-Helium-SR1

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7.57 hosttracker-impl 0.1.1-Helium-SR1

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import java.math.BigInteger;
import java.util.Date;
import org.opendaylight.controller.sal.binding.api.NotificationService;
import org.opendaylight.yang.gen.v1.urn.ietf.params.xml.ns.yang.ietf.inet.types.rev100924.IpAddress;
import org.opendaylight.yang.gen.v1.urn.ietf.params.xml.ns.yang.ietf.inet.types.rev100924.Ipv4Address;
import org.opendaylight.yang.gen.v1.urn.ietf.params.xml.ns.yang.ietf.yang.types.rev100924.MacAddress;
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import org.opendaylight.yang.gen.v1.urn.opendaylight.address.tracker.rev140617.address.node.connector.AddressesBuilder;
import org.opendaylight.yang.gen.v1.urn.opendaylight.address.tracker.rev140617.address.node.connector.AddressesKey;
import org.opendaylight.yang.gen.v1.urn.opendaylight.inventory.rev130819.NodeConnectorRef;
import org.opendaylight.yang.gen.v1.urn.opendaylight.packet.arp.rev140528.ArpPacketReceived;
import org.opendaylight.yang.gen.v1.urn.opendaylight.packet.ethernet.rev140528.KnownEtherType;
import org.opendaylight.yang.gen.v1.urn.opendaylight.packet.ethernet.rev140528.VlanId;
import org.opendaylight.yang.gen.v1.urn.opendaylight.packet.ipv4.rev140528.Ipv4PacketReceived;
import org.opendaylight.yang.gen.v1.urn.opendaylight.packet.ipv4.rev140528.Ipv4PacketReceived;
public class SimpleAddressObserver implements ArpPacketListener, Ipv4PacketListener, Ipv6PacketListener {

    private final String IPV4_IP_TO_IGNORE = "0.0.0.0";
    private final String IPV6_IP_TO_IGNORE = "0:0:0:0:0:0:0:0";

    private HostTrackerImpl hostTrackerImpl;
    private NotificationService notificationService;

    public SimpleAddressObserver(HostTrackerImpl hostTrackerImpl, NotificationService notificationService) {
        this.hostTrackerImpl = hostTrackerImpl;
        this.notificationService = notificationService;
    }

    void registerAsNotificationListener() {
        this.notificationService.registerNotificationListener(this);
    }

    @Override
    public void onArpPacketReceived(ArpPacketReceived packetReceived) {
        if (packetReceived == null || packetReceived.getPacketChain() == null) {
            return;
        }

        RawPacket rawPacket = null;
        EthernetPacket ethernetPacket = null;
        ArpPacket arpPacket = null;

        for (PacketChain packetChain : packetReceived.getPacketChain()) {
            if (packetChain.getPacket() instanceof RawPacket) {
                rawPacket = (RawPacket) packetChain.getPacket();
            } else if (packetChain.getPacket() instanceof EthernetPacket) {
                ethernetPacket = (EthernetPacket) packetChain.getPacket();
            } else if (packetChain.getPacket() instanceof ArpPacket) {
                arpPacket = (ArpPacket) packetChain.getPacket();
            }
        }

        if (rawPacket == null || ethernetPacket == null || arpPacket == null) {

        }
    }
}
return;
}
VlanId vlanId = null;
if (ethernetPacket.getEthertype().equals(KnownEtherType.VlanTagged)) {
    vlanId = ethernetPacket.getHeader8021q().get(0).getVlan();
}
MacAddress sourceMac = ethernetPacket.getSourceMac();
IpAddress ipAddress = null;
if (arpPacket.getProtocolType().equals(KnownEtherType.Ipv4)) {
    ipAddress = new IpAddress(new Ipv4Address(arpPacket.getSourceProtocolAddress()));
}
Addresses addrs = createAddresses(sourceMac, vlanId, ipAddress, ethernetPacket.getEthertype());
if (addrs == null) {
    return;
}
NodeConnectorRef ingress = rawPacket.getIngress();
hostTrackerImpl.packetReceived(addrs, ingress.getValue());

@Override
public void onIpv4PacketReceived(Ipv4PacketReceived packetReceived) {
    if (packetReceived == null || packetReceived.getPacketChain() == null) {
        return;
    }
    RawPacket rawPacket = null;
    EthernetPacket ethernetPacket = null;
    Ipv4Packet ipv4Packet = null;
    for (PacketChain packetChain : packetReceived.getPacketChain()) {
        if (packetChain.getPacket() instanceof RawPacket) {
            rawPacket = (RawPacket) packetChain.getPacket();
        } else if (packetChain.getPacket() instanceof EthernetPacket) {
            ethernetPacket = (EthernetPacket) packetChain.getPacket();
        } else if (packetChain.getPacket() instanceof Ipv4Packet) {
            ipv4Packet = (Ipv4Packet) packetChain.getPacket();
        }
    }
    if (rawPacket == null || ethernetPacket == null || ipv4Packet == null) {
        return;
    }
    if (IPV4_IP_TO_IGNORE.equals(ipv4Packet.getSourceIpv4().getValue())) {
        return;
    }
    VlanId vlanId = null;
    if (ethernetPacket.getEthertype().equals(KnownEtherType.VlanTagged)) {
        vlanId = ethernetPacket.getHeader8021q().get(0).getVlan();
    }
MacAddress sourceMac = ethernetPacket.getSourceMac();
IpAddress ipAddress = new IpAddress(ipv4Packet.getSourceIpv4());
Addresses addr = createAddresses(sourceMac, vlanId, ipAddress, ethernetPacket.getEthertype());
if (addr == null) {
    return;
}
NodeConnectorRef ingress = rawPacket.getIngress();
hostTrackerImpl.packetReceived(addr, ingress.getValue());

@Override
public void onIpv6PacketReceived(Ipv6PacketReceived packetReceived) {
    if (packetReceived == null || packetReceived.getPacketChain() == null) {
        return;
    }
    RawPacket rawPacket = null;
    EthernetPacket ethernetPacket = null;
    Ipv6Packet ipv6Packet = null;
    for (PacketChain packetChain : packetReceived.getPacketChain()) {
        if (packetChain.getPacket() instanceof RawPacket) {
            rawPacket = (RawPacket) packetChain.getPacket();
        } else if (packetChain.getPacket() instanceof EthernetPacket) {
            ethernetPacket = (EthernetPacket) packetChain.getPacket();
        } else if (packetChain.getPacket() instanceof Ipv6Packet) {
            ipv6Packet = (Ipv6Packet) packetChain.getPacket();
        }
    }
    if (rawPacket == null || ethernetPacket == null || ipv6Packet == null) {
        return;
    }
    if (IPV6_IP_TO_IGNORE.equals(ipv6Packet.getSourceIpv6().getValue())) {
        return;
    }
    VlanId vlanId = null;
    if (ethernetPacket.getEthertype().equals(KnownEtherType.VlanTagged)) {
        vlanId = ethernetPacket.getHeader8021q().get(0).getVlan();
    }
    MacAddress sourceMac = ethernetPacket.getSourceMac();
   IpAddress ipAddress = new IpAddress(ipv6Packet.getSourceIpv6());
Addresses addr = createAddresses(sourceMac, vlanId, ipAddress, ethernetPacket.getEthertype());
if (addr == null) {
    return;
}
private Addresses createAddresses(MacAddress srcMacAddr, VlanId vlanId, IpAddress srcIpAddr,
KnownEtherType ketype) {
    AddressesBuilder addrs = new AddressesBuilder();
    if (srcMacAddr == null || srcIpAddr == null) {
        return null;
    }
    /**
     * TODO: if this is used, use a ReadWriteTranscation to figure out if
     * there is an already existing addresses that has the same MAC, IP,
     * VLAN triple and use its ID then, if theres none, then we make up
     * our own Addresses
     */
    BigInteger id =
    BigInteger.valueOf(ketype.getIntValue()).abs().add(BigInteger.valueOf(srcMacAddr.hashCode()).abs().shiftLeft(16 ));
    addrs.setId(id);
    addrs.setKey(new AddressesKey(addrs.getId()));
    addrs.setVlan(vlanId);
    addrs.setIp(srcIpAddr);
    addrs.setMac(srcMacAddr);
    //    addrs.setFirstSeen(new Date().getTime());
    addrs.setLastSeen(new Date().getTime());
    return addrs.build();
}
/**
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 */
class NodeConnectorRef ingress = rawPacket.getIngress();
hostTrackerImpl.packetReceived(addrs, ingress.getValue());

import com.google.common.base.Optional;
import com.google.common.base.Preconditions;
import com.google.common.util.concurrent.CheckedFuture;
import com.google.common.util.concurrent.FutureCallback;
import com.google.common.util.concurrent.Futures;
import com.google.common.util.concurrent.ListenableFuture;
import java.util.ArrayList;
import java.util.List;
import java.util.Map;
import java.util.Set;
import java.util.concurrent.ExecutionException;
import java.util.concurrent.ExecutorService;
import java.util.concurrent.Executors;
import org.opendaylight.controller.md.sal.binding.api.DataBroker;
import org.opendaylight.controller.md.sal.binding.api.DataChangeListener;
import org.opendaylight.controller.md.sal.binding.api.ReadOnlyTransaction;
import org.opendaylight.controller.md.sal.binding.api.WriteTransaction;
import org.opendaylight.controller.md.sal.common.api.data.AsyncDataBroker.DataChangeScope;
import org.opendaylight.controller.md.sal.common.api.data.AsyncDataChangeListener;
import org.opendaylight.controller.md.sal.common.api.data.LogicalDatastoreType;
import org.opendaylight.l2switch.hosttracker.plugin.inventory.Host;
import org.opendaylight.l2switch.hosttracker.plugin.util.Utilities;
import org.opendaylight.yang.gen.v1.urn.opendaylight.address.tracker.rev140617.AddressCapableNodeConnector;
import org.opendaylight.yang.gen.v1.urn.opendaylight.address.tracker.rev140617.address.node.connector.Addresses;
import org.opendaylight.yang.gen.v1.urn.opendaylight.host.tracker.rev140624.HostId;
import org.opendaylight.yang.gen.v1.urn.opendaylight.host.tracker.rev140624.HostNode;
import org.opendaylight.yang.gen.v1.urn.opendaylight.host.tracker.rev140624.host.AttachmentPointsBuilder;
import org.opendaylight.yang.gen.v1.urn.opendaylight.inventory.rev130819.Nodes;
import org.opendaylight.yang.gen.v1.urn.opendaylight.inventory.rev130819.node.NodeConnector;
import org.opendaylight.yangtools.concepts.ListenerRegistration;
import org.opendaylight.yangtools.yang.binding.DataObject;
import org.opendaylight.yangtools.yang.binding.InstanceIdentifier;
import org.slf4j.Logger;
import org.slf4j.LoggerFactory;

public class HostTrackerImpl implements DataChangeListener {

    private static final int CPUS = Runtime.getRuntime().availableProcessors();

    /**
     * As defined on
private static final String TOPOLOGY_NAME = "flow:1";

private static final Logger log = LoggerFactory.getLogger(HostTrackerImpl.class);

private final DataBroker dataService;
private final String topologyId;

ExecutorService exec = Executors.newFixedThreadPool(CPUS);

private final ConcurrentClusterAwareHostHashMap<HostId, Host> hosts;
private ListenerRegistration<DataChangeListener> addrsNodeListerRegistration;
private ListenerRegistration<DataChangeListener> hostNodeListerRegistration;

public HostTrackerImpl(DataBroker dataService, String topologyId) { 
    Preconditions.checkNotNull(dataService, "dataBrokerService should not be null.");
    this.dataService = dataService;
    if (topologyId == null || topologyId.isEmpty()) {
        this.topologyId = TOPOLOGY_NAME;
    } else {
        this.topologyId = topologyId;
    }
    this.hosts = new ConcurrentClusterAwareHostHashMap<>(dataService, this.topologyId);
}

public void registerAsDataChangeListener() {
    InstanceIdentifier<Addresses> addrCapableNodeConnectors = //
        InstanceIdentifier.builder(Nodes.class) //
        .child(org.opendaylight.yang.gen.v1.urn.opendaylight.inventory.rev130819.nodes.Node.class) //
        .child(NodeConnector.class) //
        .augmentation(AddressCapableNodeConnector.class) //
        .child(Addresses.class).build();
    this.addrsNodeListerRegistration =
    dataService.registerDataChangeListener(LogicalDatastoreType.OPERATIONAL, addrCapableNodeConnectors, this, DataChangeScope.SUBTREE);

    InstanceIdentifier<HostNode> hostNodes = InstanceIdentifier.builder(NetworkTopology.class)//
        .child(Topology.class, new TopologyKey(new TopologyId(topologyId)))//
        .child(Node.class) //
        .augmentation(HostNode.class).build();
    this.hostNodeListerRegistration =
    dataService.registerDataChangeListener(LogicalDatastoreType.OPERATIONAL, hostNodes, this, DataChangeScope.SUBTREE);

    InstanceIdentifier<Link> IID = InstanceIdentifier.builder(NetworkTopology.class)//
        .child(Topology.class, new TopologyKey(new TopologyId(topologyId)))//
.child(Link.class).build();

this.addrsNodeListerRegistration = dataService.registerDataChangeListener(LogicalDatastoreType.OPERATIONAL, lIID, this, DataChangeScope.BASE);

// Processing addresses that existed before we register as a data change listener.
//        ReadOnlyTransaction newReadOnlyTransaction = dataService.newReadOnlyTransaction();
//        InstanceIdentifier<NodeConnector> iinc = addrCapableNodeConnectors.firstIdentifierOf(NodeConnector.class);
//        InstanceIdentifier<org.opendaylight.yang.gen.v1.urn.opendaylight.inventory.rev130819.nodes.Node> iin//
//                = addrCapableNodeConnectors.firstIdentifierOf(org.opendaylight.yang.gen.v1.urn.opendaylight.inventory.rev130819.
//                nodes.Node.class);
//        ListenableFuture<Optional<NodeConnector>> dataFuture =
newReadOnlyTransaction.read(LogicalDatastoreType.OPERATIONAL, iinc);
//        try {
//            NodeConnector get = dataFuture.get().get();
//            log.trace("test "+get);
//        } catch (InterruptedException | ExecutionException ex) {
//            java.util.logging.Logger.getLogger(HostTrackerImpl.class.getName()).log(Level.SEVERE, null, ex);
//        }
//        Futures.addCallback(dataFuture, new FutureCallback<Optional<NodeConnector>>() {
//            @Override
//            public void onSuccess(final Optional<NodeConnector> result) {
//                if (result.isPresent()) {
//                    log.trace("Processing NEW NODE? " + result.get().getId().getValue());
//                    processHost(result, dataObject, node);
//                }
//            }
//            @Override
//            public void onFailure(Throwable arg0) {
//            }
//        });

@Override
public void onDataChanged(final AsyncDataChangeEvent<InstanceIdentifier<?>, DataObject> change) {

    exec.submit(new Runnable() {
        @Override
        public void run() {
            if (change == null) {
                log.info("In onDataChanged: No processing done as change even is null.");
                return;
            }
            Map<InstanceIdentifier<?>, DataObject> updatedData = change.getUpdatedData();
            exec.submit(new Runnable() {
                @Override
                public void run() {
                    // Process data changes here
                }
            });
        }
    });
}
Map<InstanceIdentifier<?>, DataObject> createdData = change.getCreatedData();
Map<InstanceIdentifier<?>, DataObject> originalData = change.getOriginalData();
Set<InstanceIdentifier<?>> deletedData = change.getRemovedPaths();

for (InstanceIdentifier<?> iid : deletedData) {
    if (iid.getTargetType().equals(Node.class)) {
        Node node = ((Node) originalData.get(iid));
        InstanceIdentifier<Node> iiN = (InstanceIdentifier<Node>) iid;
        HostNode hostNode = node.getAugmentation(HostNode.class);
        if (hostNode != null) {
            synchronized (hosts) {
                try {
                    hosts.removeLocally(iiN);
                } catch (ClassCastException ex) {
                }
            }
        } else if (iid.getTargetType().equals(Link.class)) {
            // TODO performance improvement here
            linkRemoved((InstanceIdentifier<Link>) iid, (Link) originalData.get(iid));
        }
    }
    for (Map.Entry<InstanceIdentifier<?>, DataObject> entrySet : updatedData.entrySet()) {
        InstanceIdentifier<?> iiD = entrySet.getKey();
        final DataObject dataObject = entrySet.getValue();
        if (dataObject instanceof Addresses) {
            packetReceived((Addresses) dataObject, iiD);
        } else if (dataObject instanceof Node) {
            synchronized (hosts) {
                hosts.putLocally((InstanceIdentifier<Node>) iiD, Host.createHost((Node) dataObject));
            }
        }
    }
    for (Map.Entry<InstanceIdentifier<?>, DataObject> entrySet : createdData.entrySet()) {
        InstanceIdentifier<?> iiD = entrySet.getKey();
        final DataObject dataObject = entrySet.getValue();
        if (dataObject instanceof Addresses) {
            packetReceived((Addresses) dataObject, iiD);
        } else if (dataObject instanceof Node) {
            synchronized (hosts) {
                hosts.putLocally((InstanceIdentifier<Node>) iiD, Host.createHost((Node) dataObject));
            }
        }
    }
});
public void packetReceived(Addresses addrs, InstanceIdentifier<?> ii) {
    InstanceIdentifier<NodeConnector> iinc = ii.firstIdentifierOf(NodeConnector.class);
    InstanceIdentifier<org.opendaylight.yang.gen.v1.urn.opendaylight.inventory.rev130819.nodes.Node> iin = ii.firstIdentifierOf(org.opendaylight.yang.gen.v1.urn.opendaylight.inventory.rev130819.nodes.Node.class);

    ListenableFuture<Optional<NodeConnector>> futureNodeConnector = readTx.read(LogicalDatastoreType.OPERATIONAL, iinc);
    ListenableFuture<Optional<org.opendaylight.yang.gen.v1.urn.opendaylight.inventory.rev130819.nodes.Node>> futureNode = readTx.read(LogicalDatastoreType.OPERATIONAL, iin);
    futureNodeConnector = readTx.read(LogicalDatastoreType.OPERATIONAL, iinc);
    futureNode = readTx.read(LogicalDatastoreType.OPERATIONAL, iin);
    futureNodeConnector = readTx.read(LogicalDatastoreType.OPERATIONAL, iinc);
    futureNode = readTx.read(LogicalDatastoreType.OPERATIONAL, iin);
    Future<NodeConnector> futureNodeConnector = readTx.read(LogicalDatastoreType.OPERATIONAL, iinc);
    Future<org.opendaylight.yang.gen.v1.urn.opendaylight.inventory.rev130819.nodes.Node> futureNode = readTx.read(LogicalDatastoreType.OPERATIONAL, iin);
    readTx.close();

    Optional<NodeConnector> opNodeConnector = null;
    Optional<org.opendaylight.yang.gen.v1.urn.opendaylight.inventory.rev130819.nodes.Node> opNode = null;
    try {
        opNodeConnector = futureNodeConnector.get();
        opNode = futureNode.get();
    } catch (ExecutionException | InterruptedException ex) {
        log.warn(ex.getLocalizedMessage());
    }
    if (opNode != null && opNode.isPresent() && opNodeConnector != null && opNodeConnector.isPresent()) {
        processHost(opNode.get(), opNodeConnector.get(), addrs);
    }
}

private void processHost(org.opendaylight.yang.gen.v1.urn.opendaylight.inventory.rev130819.nodes.Node node, NodeConnector nodeConnector, Addresses addrs) {
    List<Host> hostsToMod = new ArrayList<>();
    List<Host> hostsToRem = new ArrayList<>();
    List<Link> linksToRem = new ArrayList<>();
    List<Link> linksToAdd = new ArrayList<>();
    synchronized (hosts) {
        log.trace("Processing nodeConnector " + nodeConnector.getId().toString());
        HostId hId = Host.createHostId(addrs);
        if (hId != null) {
            if (isNodeConnectorInternal(nodeConnector)) {
                log.trace("NodeConnector is internal " + nodeConnector.getId().toString());
                removeNodeConnectorFromHost(hostsToMod, hostsToRem, nodeConnector);
                hosts.removeAll(hostsToRem);
                hosts.putAll(hostsToMod);
            } else {
                processHost(opNode.get(), opNodeConnector.get(), addres...
log.trace("NodeConnector is NOT internal " + nodeConnector.getld().toString());
Host host = new Host(addrs, nodeConnector);
if (hosts.containsKey(host.getId())) {
    hosts.get(host.getId()).mergeHostWith(host);
} else {
    hosts.put(host.getId(), host);
}
List<Link> newLinks = hosts.get(host.getId()).createLinks(node);
if (newLinks != null) {
    linksToAdd.addAll(newLinks);
}
hosts.submit(host.getId());
}
writeDatatoMDSAL(linksToAdd, linksToRem);

/**
 * It verifies if a given NodeConnector is *internal*. An *internal*
 * NodeConnector is considered to be all NodeConnectors that are NOT attached
 * to hosts created by hosttracker.
 * *
 * @param nodeConnector the nodeConnector to check if it is internal or not.
 * @return true if it was found a host connected to this nodeConnector, false
 * if it was not found a network topology or it was not found a host
 * connected to this nodeConnector.
 */
private boolean isNodeConnectorInternal(NodeConnector nodeConnector) {
    TpId tpId = new TpId(nodeConnector.getKey().getId().getValue());
    InstanceIdentifier<NetworkTopology> ntII
        = InstanceIdentifier.builder(NetworkTopology.class).build();
    ListenableFuture<Optional<NetworkTopology>> lfONT;
    try (ReadOnlyTransaction rot = dataService.newReadOnlyTransaction()) {
        lfONT = rot.read(LogicalDatastoreType.OPERATIONAL, ntII);
        rot.close();
    }
    Optional<NetworkTopology> oNT;
    try {
        oNT = lfONT.get();
    } catch (InterruptedException | ExecutionException ex) {
        log.warn(ex.getLocalizedMessage());
        return false;
    }
    if (oNT != null && oNT.isPresent()) {
        NetworkTopology networkTopo = oNT.get();
        for (Topology t : networkTopo.getTopology()) {
            if (t.getLink() != null) {

for (Link l : t.getLink()) {
    if ((l.getSource().getSourceTp().equals(tpId) && 
        !l.getDestination().getDestTp().getValue().startsWith(Host.NODE_PREFIX)) \
    || (l.getDestination().getDestTp().equals(tpId) && 
        !l.getSource().getSourceTp().getValue().startsWith(Host.NODE_PREFIX))) {
        return true;
    }
}
return false;

private void removeLinksFromHosts(List<Host> hostsToMod, List<Host> hostsToRem, Link linkRemoved) {
    for (Host h : hosts.values()) {
        h.removeTerminationPoint(linkRemoved.getSource().getSourceTp());
        h.removeTerminationPoint(linkRemoved.getDestination().getDestTp());
        if (h.isOrphan()) {
            hostsToRem.add(h);
        } else {
            hostsToMod.add(h);
        }
    }
}

private void removeNodeConnectorFromHost(List<Host> hostsToMod, List<Host> hostsToRem, NodeConnector nc) {
    AttachmentPointsBuilder atStD = Utilities.createAPsfromNodeConnector(nc);
    for (Host h : hosts.values()) {
        h.removeAttachmentPoints(atStD);
        if (h.isOrphan()) {
            hostsToRem.add(h);
        } else {
            hostsToMod.add(h);
        }
    }
}

private void linkRemoved(InstanceIdentifier<Link> iiLink, Link linkRemoved) {
    log.trace("linkRemoved");
    List<Host> hostsToMod = new ArrayList<>();
    List<Host> hostsToRem = new ArrayList<>();
    synchronized (hosts) {
        removeLinksFromHosts(hostsToMod, hostsToRem, linkRemoved);
        hosts.removeAll(hostsToRem);
        hosts.putAll(hostsToMod);
    }
}
private void writeDatatoMDSAL(List<Link> linksToAdd, List<Link> linksToRemove) {

    final WriteTransaction writeTx = dataService.newWriteOnlyTransaction();
    if (linksToAdd != null) {
        for (Link l : linksToAdd) {
            InstanceIdentifier<Link> lIID = Utilities.buildLinkIID(l.getKey(), topologyId);
            log.trace("Writing link from MD_SAL: " + lIID.toString());
            writeTx.merge(LogicalDatastoreType.OPERATIONAL, lIID, l, true);
        }
    }
    if (linksToRemove != null) {
        for (Link l : linksToRemove) {
            InstanceIdentifier<Link> lIID = Utilities.buildLinkIID(l.getKey(), topologyId);
            log.trace("Removing link from MD_SAL: " + lIID.toString());
            writeTx.delete(LogicalDatastoreType.OPERATIONAL, lIID);
        }
    }
    final CheckedFuture writeTxResultFuture = writeTx.submit();
    Futures.addCallback(writeTxResultFuture, new FutureCallback() {
        @Override
        public void onSuccess(Object o) {
            log.debug("Hosttracker write successful for tx :{ }", writeTx.getIdentifier());
        }
        @Override
        public void onFailure(Throwable throwable) {
            log.error("Hosttracker write transaction {} failed", writeTx.getIdentifier(), throwable.getCause());
        }
    });

    public void close() {
        this.addrsNodeListerRegistration.close();
        this.hostNodeListerRegistration.close();
        synchronized (hosts) {
            this.hosts.clear();
        }
    }
}
7.58.1 Available under license:

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7.59 ietf-inet-types 2010.09.24.4.1-Helium-SR1

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7.60 ietf-yang-types 2010.09.24.4.1-Helium-SR1

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 */

package org.opendaylight.controller.md.inventory.manager;

import com.google.common.base.Optional;
import com.google.common.base.Preconditions;
import com.google.common.util.concurrent.CheckedFuture;
import com.google.common.util.concurrent.FutureCallback;
import com.google.common.util.concurrent.Futures;
import org.opendaylight.controller.md.sal.binding.api.ReadWriteTransaction;
import org.opendaylight.controller.md.sal.common.api.data.LogicalDatastoreType;
import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.inventory.rev130819.FlowCapableNode;
import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.inventory.rev130819.FlowCapableNodeConnector;
import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.inventory.rev130819.FlowCapableNodeConnectorUpdated;
import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.inventory.rev130819.FlowCapableNodeUpdated;
import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.inventory.rev130819.tables.Table;
import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.inventory.rev130819.tables.TableBuilder;
import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.inventory.rev130819.tables.TableKey;
import org.opendaylight.yang.gen.v1.urn.opendaylight.inventory.rev130819.NodeConnectorRef;
import org.opendaylight.yang.gen.v1.urn.opendaylight.inventory.rev130819.NodeConnectorRemoved;
import org.opendaylight.yang.gen.v1.urn.opendaylight.inventory.rev130819.NodeConnectorUpdated;
import org.opendaylight.yang.gen.v1.urn.opendaylight.inventory.rev130819.NodeRef;
import org.opendaylight.yang.gen.v1.urn.opendaylight.inventory.rev130819.NodeRemoved;
import org.opendaylight.yang.gen.v1.urn.opendaylight.inventory.rev130819.NodeUpdated;
import org.opendaylight.yang.gen.v1.urn.opendaylight.inventory.rev130819.OpendaylightInventoryListener;
import org.opendaylight.yang.gen.v1.urn.opendaylight.inventory.rev130819.nodes.Node;
import org.opendaylight.yangtools.yang.binding.DataObject;
import org.opendaylight.yangtools.yang.binding.InstanceIdentifier;
import org.opendaylight.yangtools.yang.binding.InstanceIdentifierBuilder;
import org.slf4j.Logger;
import org.slf4j.LoggerFactory;

class NodeChangeCommiter implements OpendaylightInventoryListener {
    private static final Logger LOG = LoggerFactory.getLogger(NodeChangeCommiter.class);
}
private final FlowCapableInventoryProvider manager;

public NodeChangeCommiter(final FlowCapableInventoryProvider manager) {
    this.manager = Preconditions.checkNotNull(manager);
}

@override
public synchronized void onNodeConnectorRemoved(final NodeConnectorRemoved connector) {
    LOG.debug("Node connector removed notification received.");
    manager.enqueue(new InventoryOperation() {
        @Override
        public void applyOperation(final ReadWriteTransaction tx) {
            final NodeConnectorRef ref = connector.getNodeConnectorRef();
            LOG.debug("removing node connector {}", ref.getValue());
            tx.delete(LogicalDatastoreType.OPERATIONAL, ref.getValue());
        }
    });
}

@override
public synchronized void onNodeConnectorUpdated(final NodeConnectorUpdated connector) {
    LOG.debug("Node connector updated notification received.");
    manager.enqueue(new InventoryOperation() {
        @Override
        public void applyOperation(final ReadWriteTransaction tx) {
            final NodeConnectorRef ref = connector.getNodeConnectorRef();
            final NodeConnectorBuilder data = new NodeConnectorBuilder(connector);
            data.setKey(new NodeConnectorKey(connector.getId()));
            final FlowCapableNodeConnectorUpdated flowConnector = connector.getAugmentation(FlowCapableNodeConnectorUpdated.class);
            if (flowConnector != null) {
                final FlowCapableNodeConnector augment = InventoryMapping.toInventoryAugment(flowConnector);
                data.addAugmentation(FlowCapableNodeConnector.class, augment);
            }
            InstanceIdentifier<NodeConnector> value = (InstanceIdentifier<NodeConnector>) ref.getValue();
            LOG.debug("updating node connector : {}.", value);
            NodeConnector build = data.build();
            tx.merge(LogicalDatastoreType.OPERATIONAL, value, build, true);
        }
    });
}

@override
public synchronized void onNodeRemoved(final NodeRemoved node) {
    LOG.debug("Node removed notification received.");
    manager.enqueue(new InventoryOperation() {
        @Override
        public void applyOperation(final ReadWriteTransaction tx) {
            final NodeConnectorRef ref = connector.getNodeConnectorRef();
            final NodeConnectorBuilder data = new NodeConnectorBuilder(connector);
            data.setKey(new NodeConnectorKey(connector.getId()));
            final FlowCapableNodeConnectorUpdated flowConnector = connector.getAugmentation(FlowCapableNodeConnectorUpdated.class);
            if (flowConnector != null) {
                final FlowCapableNodeConnector augment = InventoryMapping.toInventoryAugment(flowConnector);
                data.addAugmentation(FlowCapableNodeConnector.class, augment);
            }
            InstanceIdentifier<NodeConnector> value = (InstanceIdentifier<NodeConnector>) ref.getValue();
            LOG.debug("updating node connector : {}.", value);
            NodeConnector build = data.build();
            tx.merge(LogicalDatastoreType.OPERATIONAL, value, build, true);
        }
    });
}
public void applyOperation(final ReadWriteTransaction tx) {
    final NodeRef ref = node.getNodeRef();
    LOG.debug("removing node : {}", ref.getValue());
    tx.delete(LogicalDatastoreType.OPERATIONAL, ref.getValue());
}
}

@override
public synchronized void onNodeUpdated(final NodeUpdated node) {
    final FlowCapableNodeUpdated flowNode = node.getAugmentation(FlowCapableNodeUpdated.class);
    if (flowNode == null) {
        return;
    }
    LOG.debug("Node updated notification received.");
    manager.enqueue(new InventoryOperation() {
        @Override
        public void applyOperation(ReadWriteTransaction tx) {
            final NodeRef ref = node.getNodeRef();
            @SuppressWarnings("unchecked")
            InstanceIdentifierBuilder<Node> builder = ((InstanceIdentifier<Node>) ref.getValue()).builder();
            InstanceIdentifierBuilder<FlowCapableNode> augmentation =
            builder.augmentation(FlowCapableNode.class);
            final InstanceIdentifier<FlowCapableNode> path = augmentation.build();
            CheckedFuture readFuture = tx.read(LogicalDatastoreType.OPERATIONAL, path);
            Futures.addCallback(readFuture, new FutureCallback<Optional<? extends DataObject>>() {
                @Override
                public void onSuccess(Optional<? extends DataObject> optional) {
                    enqueueWriteNodeDataTx(node, flowNode, path);
                    if (!optional.isPresent()) {
                        enqueuePutTable0Tx(ref);
                    }
                }
                @Override
                public void onFailure(Throwable throwable) {
                    LOG.debug(String.format("Can't retrieve node data for node %s. Writing node data with table0.",
                        node));
                    enqueueWriteNodeDataTx(node, flowNode, path);
                    enqueuePutTable0Tx(ref);
                }
            });
        }
    });
}

private void enqueueWriteNodeDataTx(final NodeUpdated node, final FlowCapableNodeUpdated flowNode, final InstanceIdentifier<FlowCapableNode> path) {

manager.enqueue(new InventoryOperation() {
    @Override
    public void applyOperation(final ReadWriteTransaction tx) {
        final FlowCapableNode augment = InventoryMapping.toInventoryAugment(flowNode);
        LOG.debug("updating node :{} ", path);
        tx.merge(LogicalDatastoreType.OPERATIONAL, path, augment, true);
    }
});
}

private void enqueuePutTable0Tx(final NodeRef ref) {
    manager.enqueue(new InventoryOperation() {
        @Override
        public void applyOperation(ReadWriteTransaction tx) {
            final TableKey tKey = new TableKey((short) 0);
            final InstanceIdentifier<Table> tableIdentifier =
                ((InstanceIdentifier<Node>) ref.getValue()).augmentation(FlowCapableNode.class).child(Table.class,
                new TableKey(tKey));
            TableBuilder tableBuilder = new TableBuilder();
            Table table0 = tableBuilder.setId((short) 0).build();
            LOG.debug("writing table :{} ", tableIdentifier);
            tx.put(LogicalDatastoreType.OPERATIONAL, tableIdentifier, table0, true);
        }
    });
}

7.62 jQuery 1.9.1

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7.63 json3 3.2.4

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package org.fusesource.leveldbjni.internal;

import org.fusesource.hawtjni.runtime.*;
import static org.fusesource.hawtjni.runtime.ArgFlag.*;
import static org.fusesource.hawtjni.runtime.ClassFlag.CPP;
import static org.fusesource.hawtjni.runtime.ClassFlag.STRUCT;
import static org.fusesource.hawtjni.runtime.FieldFlag.CONSTANT;
import static org.fusesource.hawtjni.runtime.MethodFlag.CONSTANT_INITIALIZER;
import static org.fusesource.hawtjni.runtime.MethodFlag.CPP_DELETE;

/**
 * Provides a java interface to the C++ leveldb::Slice class.
 *
 * @author <a href="http://hiramchirino.com">Hiram Chirino</a>
 *
 * @JniClass(name="leveldb::Slice", flags={STRUCT, CPP})
 * class NativeSlice {

  @JniClass(name="leveldb::Slice", flags={CPP})
  static class SliceJNI {
      static {
NativeDB.LIBRARY.load();
init();
}

@JniMethod(flags={CPP_DELETE})
public static final native void delete(
    long self
);

public static final native void memmove(
    @JniArg(cast="void **") long dest,
    @JniArg(cast="const void *", flags={NO_OUT, CRITICAL}) NativeSlice src,
    @JniArg(cast="size_t") long size);

public static final native void memmove(
    @JniArg(cast="void **", flags={NO_IN, CRITICAL}) NativeSlice dest,
    @JniArg(cast="const void *") long src,
    @JniArg(cast="size_t") long size);

@JniMethod(flags={CONSTANT_INITIALIZER})
private static final native void init();

@JniField(flags={CONSTANT}, accessor="sizeof(struct leveldb::Slice")
static int SIZEOF;
}

@JniField(cast="const char**")
private long data_
; @JniField(cast="size_t")
private long size_
;

public NativeSlice() {
}

public NativeSlice(long data, long length) {
    this.data_ = data;
    this.size_ = length;
}

public NativeSlice(NativeBuffer buffer) {
    this(buffer.pointer(), buffer.capacity());
}

public static NativeSlice create(NativeBuffer buffer) {
    if(buffer == null) {
    
}
return null;
} else {
    return new NativeSlice(buffer);
}
}

public long data() {
    return data_
}

public NativeSlice data(long data) {
    this.data_ = data;
    return this;
}

public long size() {
    return size_
}

public NativeSlice size(long size) {
    this.size_ = size;
    return this;
}

public NativeSlice set(NativeSlice buffer) {
    this.size_ = buffer.size_
    this.data_ = buffer.data_
    return this;
}

public NativeSlice set(NativeBuffer buffer) {
    this.size_ = buffer.capacity();
    this.data_ = buffer.pointer();
    return this;
}

public byte[] toByteArray() {
    if( size_ > Integer.MAX_VALUE ) {
        throw new ArrayIndexOutOfBoundsException("Native slice is larger than the maximum Java array");
    }
    byte[] rc = new byte[(int) size_];
    NativeBufferNativeBufferJNI.buffer_copy(data_, 0, rc, 0, rc.length);
    return rc;
}

static NativeBuffer arrayCreate(int dimension) {
    return NativeBuffer.create(dimension*SliceJNI.SIZEOF);
}
void write(long buffer, int index) {
    SliceJNI.memmove(PointerMath.add(buffer, SliceJNI.SIZEOF*index), this, SliceJNI.SIZEOF);
}

void read(long buffer, int index) {
    SliceJNI.memmove(this, PointerMath.add(buffer, SliceJNI.SIZEOF*index), SliceJNI.SIZEOF);
}

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7.71 loader 0.1.1-Helium-SR1

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7.72 loader.implementation 0.1.1-Helium-SR1

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```xml
<?xml version="1.0" encoding="UTF-8"?>
<module name="threadpool-impl-flexible"
  xmlns="urn:ietf:params:xml:ns:yang:yin:1"
  xmlns:rpcx="urn:ietf:params:xml:ns:yang:rpc-context">
  <yang-version value="1"/>
  <prefix value="th-java-flexible"/>
  <import module="threadpool">
    <prefix value="th"/>
    <revision-date date="2013-04-09"/>
  </import>
  <import module="config">
    <prefix value="config"/>
    <revision-date date="2013-04-05"/>
  </import>
  <import module="rpc-context">
    <prefix value="rpcx"/>
    <revision-date date="2013-06-17"/>
  </import>
  <organization>
    <text>Cisco Systems, Inc.</text>
  </organization>
  <contact>
    <text>Robert Varga &lt;rovarga@cisco.com&gt;</text>
  </contact>
  <description>
```
This module contains the base YANG definitions for thread services pure Java implementation.

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<description>
<revision date="2013-12-01">
  <description>
    Initial revision</description>
</revision>
<identity name="threadpool-flexible">
  <base name="config:module-type"/>
  <config:provided-service name="th:threadpool"/>
  <config:java-name-prefix java-prefix="FlexibleThreadPool"/>
</identity>
<augment target-node="/config:modules/config:module/config:configuration">
  <case name="threadpool-flexible">
    <when condition="/config:modules/config:module/config:type = 'threadpool-flexible'"/>
    <leaf name="max-thread-count">
      <type name="uint16"/>
    </leaf>
    <leaf name="minThreadCount">
      <type name="uint16"/>
    </leaf>
    <leaf name="keepAliveMillis">
      <type name="uint32"/>
    </leaf>
    <container name="threadFactory">
      <uses name="config:service-ref">
        <refine target-node="type">
          <config:required-identity name="th:threadfactory"/>
        </refine>
      </uses>
    </container>
  </case>
</augment>

<?xml version="1.0" encoding="UTF-8"?>

<module name="threadpool-impl" xmlns="urn:ietf:params:xml:ns:yang:yin:1"
<.yang-version value="1"/>
<prefix value="th-java"/>
<import module="threadpool"/>
<prefix value="th"/>
<revision-date date="2013-04-09"/>
</import>
<import module="config"/>
<prefix value="config"/>
<revision-date date="2013-04-05"/>
</import>
<import module="rpc-context"/>
<prefix value="rpcx"/>
<revision-date date="2013-06-17"/>
</import>
<organization>
  <text>Cisco Systems, Inc.</text>
</organization>
<contact>
  <text>Robert Varga &lt;rovarga@cisco.com&gt;</text>
</contact>
<description>
  <text>This module contains the base YANG definitions for thread services pure Java implementation.</text>
</description>

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<description>
<revision date="2013-04-05">
<description>
  <text>Updated to work with new anchors.</text>
</description>
</revision>
<revision date="2013-04-03">
<description>
  <text>Initial revision by Anton Tkacik, Tomas Olvecky and Robert Varga.</text>
</description>
</revision>
<identity name="eventbus">
  <base name="config:module-type"/>
  <config:provided-service name="th:eventbus"/>
  <config:java-name-prefix java-prefix="EventBus"/>
<identity name="event-bus-rpc"/>

<identity name="async-eventbus">
<base name="config:module-type"/>
<config:provided-service name="th:eventbus"/>
<config:java-name-prefix java-prefix="AsyncEventBus"/>
</identity>

<augment target-node="/config:modules/config:module/config:configuration">
<case name="async-eventbus">
<when condition="/config:modules/config:module/config:type = 'async-eventbus'"/>
<container name="threadpool">
<uses name="config:service-ref">
<refine target-node="type">
<config:required-identity name="th:threadpool"/>
</refine>
</uses>
</container>
</case>
</augment>

<augment target-node="/config:modules/config:module/config:state">
<case name="async-eventbus">
<when condition="/config:modules/config:module/config:type = 'async-eventbus'"/>
<rpx:rpc-context-instance context-type="event-bus-rpc"/>
</case>
</augment>

<rpc name="get-dead-events-count">
<config:java-name-prefix java-prefix="countDeadEvents"/>
<input>
<uses name="rpx:rpc-context-ref">
<refine target-node="context-instance">
<rpx:rpc-context-instance context-type="event-bus-rpc"/>
</refine>
</uses>
</input>
<output>
<leaf name="result">
<type name="uint32"/>
</leaf>
</output>
</rpc>
<?xml version="1.0" encoding="UTF-8"?>
<module name="threadpool-impl-scheduled"
xmlns="urn:ietf:params:xml:ns:yang:yin:1"
xmlns:rpcx="urn:ietf:params:xml:ns:yang:rpc-context">
<yang-version value="1"/>
<prefix value="th-java-scheduled"/>
<import module="threadpool">
<prefix value="th"/>
<revision-date date="2013-04-09"/>
</import>
<import module="config">
<prefix value="config"/>
<revision-date date="2013-04-05"/>
</import>
<import module="rpc-context">
<prefix value="rpcx"/>
<revision-date date="2013-06-17"/>
</import>
<organization>
<text>Cisco Systems, Inc.</text>
</organization>
<contact>
<text>Robert Varga &lt;rovarga@cisco.com&gt;</text>
</contact>
<description>
<text>This module contains the base YANG definitions for thread services pure Java implementation.
</text>
</description>
</module>
<import module="config">
    <prefix value="config"/>
    <revision-date date="2013-04-05"/>
</import>

<import module="rpc-context">
    <prefix value="rpcx"/>
    <revision-date date="2013-06-17"/>
</import>

<organization>
    <text>Cisco Systems, Inc.</text>
</organization>
<description>
    <text>This module contains the base YANG definitions for shutdown implementation.
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</description>

<revision date="2013-12-18">
    <description>
        <text>Initial revision.</text>
    </description>
</revision>

<identity name="shutdown">
    <base name="config:module-type"/>
    <config:provided-service name="shutdown:shutdown"/>
</identity>

<augment target-node="/config:modules/config:module/config:configuration">
    <case name="shutdown">
        <when condition="/config:modules/config:module/config:type = 'shutdown'"/>
        <leaf name="secret">
            <type name="string"/>
            <default value=""/>
        </leaf>
    </case>
</augment>

<augment target-node="/config:modules/config:module/config:state">
    <case name="shutdown">
        <when condition="/config:modules/config:module/config:type = 'shutdown'"/>
        <rpcx:rpc-context-instance context-type="shutdown-rpc"/>
    </case>
</augment>

<identity name="shutdown-rpc"/>
<rpc name="shutdown"/>
<input>
<uses name="rpcx:rpc-context-ref">
  <refine target-node="context-instance">
    <rpcx:rpc-context-instance context-type="shutdown-rpc"/>
  </refine>
</uses>
<leaf name="input-secret">
  <type name="string"/>
</leaf>
<leaf name="max-wait-time">
  <type name="uint32"/>
  <description>
    Maximum time in milliseconds before process is forcibly exited. Zero or null cancels this functionality. </description>
</leaf>
<leaf name="reason">
  <type name="string"/>
</leaf>
</input>
</rpc>
</module>
<?xml version="1.0" encoding="UTF-8"?>
<module name="threadpool-impl-fixed" xmlns="urn:ietf:params:xml:ns:yang:yin:1"
xmlns:rpcx="urn:ietf:params:xml:ns:yang:rpc-context">
  <yang-version value="1"/>
  <prefix value="th-java-fixed"/>
  <import module="threadpool"/>
  <prefix value="th"/>
  <revision-date date="2013-04-09"/>
</import>
  <import module="config"/>
  <prefix value="config"/>
  <revision-date date="2013-04-05"/>
</import>
  <import module="rpc-context"/>
  <prefix value="rpcx"/>
  <revision-date date="2013-06-17"/>
</import>
<organization>
  <text>Cisco Systems, Inc.</text>
</organization>
<contact>
<text>Robert Varga &lt;rovarga@cisco.com&gt;</text>
<contact>
<description>
<text>This module contains the base YANG definitions for thread services pure Java implementation.</text>
</description>
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<revision date="2013-12-01">
<description>
<text>Initial revision</text>
</description>
</revision>
<identity name="threadpool-fixed">
<base name="config:module-type"/>
<config:provided-service name="th:threadpool"/>
<config:java-name-prefix java-prefix="FixedThreadPool"/>
</identity>
<augment target-node="/config:modules/config:module/config:configuration">
<case name="threadpool-fixed">
<when condition="/config:modules/config:module/config:type = 'threadpool-fixed'"/>
<leaf name="max-thread-count">
<type name="uint16"/>
</leaf>
<container name="threadFactory">
<uses name="config:service-ref">
<refine target-node="type">
<config:required-identity name="th:threadfactory"/>
</refine>
</uses>
</container>
</case>
</augment>
</module>

7.73 Log4j 1.2.12
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7.74 Logging 1.1

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     * and is available at http://www.eclipse.org/legal/epl-v10.html
     */
    package org.opendaylight.l2switch.loopremover.topology;

    import com.google.common.base.Preconditions;
    import edu.uci.ics.jung.algorithms.shortestpath.PrimMinimumSpanningTree;
    import edu.uci.ics.jung.graph.DelegateTree;
    import edu.uci.ics.jung.graph.Graph;
    import edu.uci.ics.jung.graph.SparseMultigraph;
    import edu.uci.ics.jung.graph.util.EdgeType;
    import org.opendaylight.yang.gen.v1.urn.tbd.params.xml.ns.yang.network.topology.rev131021.NodeId;
Link;
import org.slf4j.Logger;
import org.slf4j.LoggerFactory;
import java.util.ArrayList;
import java.util.Collection;
import java.util.HashSet;
import java.util.List;
import java.util.Set;

/**
 * Implementation of NetworkGraphService{@link org.opendaylight.l2switch.loopremover.topology.NetworkGraphService}.
 * It uses Jung graph library internally to maintain a graph and optimum way to return shortest path using
 * Dijkstra algorithm.
 */
public class NetworkGraphImpl implements NetworkGraphService {

private static final Logger _logger = LoggerFactory.getLogger(NetworkGraphImpl.class);

Graph<NodeId, Link> networkGraph = null;
Set<String> linkAdded = new HashSet<>();

//Enable following lines when shortest path functionality is required.
//DijkstraShortestPath<NodeId, Link> shortestPath = null;

/**
 * Adds links to existing graph or creates new directed graph with given links if graph was not initialized.
 * @param links The links to add.
 */
@override
public synchronized void addLinks(List<Link> links) {
if(links == null || links.isEmpty()) {
_logger.info("In addLinks: No link added as links is null or empty.");
return;
}
if(networkGraph == null) {
networkGraph = new SparseMultigraph<>();
}

for(Link link : links) {
if(linkAlreadyAdded(link)) {
continue;
}
}
NodeId sourceNodeId = link.getSource().getSourceNode();
NodeId destinationNodeId = link.getDestination().getDestNode();
networkGraph.addVertex(sourceNodeId);
networkGraph.addVertex(destinationNodeId);
networkGraph.addEdge(link, sourceNodeId, destinationNodeId, EdgeType.UNDIRECTED);
}
/*if(shortestPath == null) {
    shortestPath = new DijkstraShortestPath<>(networkGraph);
} else {
    shortestPath.reset();
}*/
}

private boolean linkAlreadyAdded(Link link) {
    String linkAddedKey = null;
    if(link.getDestination().getDestTp().hashCode() > link.getSource().getSourceTp().hashCode()) {
        linkAddedKey = link.getSource().getSourceTp().getValue() + link.getDestination().getDestTp().getValue();
    } else {
        linkAddedKey = link.getDestination().getDestTp().getValue() + link.getSource().getSourceTp().getValue();
    }
    if(linkAdded.contains(linkAddedKey)) {
        return true;
    } else {
        linkAdded.add(linkAddedKey);
        return false;
    }
}

/**
 * Removes links from existing graph.
 *
 * @param links The links to remove.
 */
@Override
public synchronized void removeLinks(List<Link> links) {
    Preconditions.checkNotNull(networkGraph, "Graph is not initialized, add links first.");

    if(links == null || links.isEmpty()) {
        _logger.info("In removeLinks: No link removed as links is null or empty.");
        return;
    }

    for(Link link : links) {
        networkGraph.removeEdge(link);
    }
    /*if(shortestPath == null) {
        shortestPath = new DijkstraShortestPath<>(networkGraph);*/
}
} else {
    shortestPath.reset();
}*/

/**
 * returns a path between 2 nodes. Uses Dijkstra's algorithm to return shortest path.
 * @param sourceNodeId
 * @param destinationNodeId
 * @return
 */
//@Override
/*public synchronized List<Link> getPath(NodeId sourceNodeId, NodeId destinationNodeId) {
    Preconditions.checkNotNull(shortestPath, "Graph is not initialized, add links first.");

    if(sourceNodeId == null || destinationNodeId == null) {
        _logger.info("In getPath: returning null, as sourceNodeId or destinationNodeId is null.");
        return null;
    }

    return shortestPath.getPath(sourceNodeId, destinationNodeId);
}*/

/**
 * Clears the prebuilt graph, in case same service instance is required to process a new graph.
 */
//@Override
public synchronized void clear() {
    networkGraph = null;
    //shortestPath = null;
}

/**
 * Forms MST(minimum spanning tree) from network graph and returns links that are not in MST.
 * @return The links in the MST (minimum spanning tree)
 */
//@Override
public synchronized List<Link> getLinksInMst() {
    List<Link> linksInMst = new ArrayList<>();
    if(networkGraph != null) {
        PrimMinimumSpanningTree<NodeId, Link> networkMst = new
        PrimMinimumSpanningTree<>(DelegateTree.<NodeId, Link>getFactory());
        Graph<NodeId, Link> mstGraph = networkMst.transform(networkGraph);
        Collection<Link> mstLinks = mstGraph.getEdges();
        linksInMst.addAll(mstLinks);
    }
}
return linksInMst;
}

/**
* Get all the links in the network.
*/
@override
public List<Link> getAllLinks() {
List<Link> allLinks = new ArrayList<>();
if(networkGraph != null) {
    allLinks.addAll(networkGraph.getEdges());
}
return allLinks;
}

---

### 7.77 loopremover-model 0.1.1-Helium-SR1

#### 7.77.1 Available under license:

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### 7.78 main-config 0.1.1-Helium-SR1

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## 7.79 main-impl 0.1.1-Helium-SR1

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 */
package org.opendaylight.l2switch.flow;

import com.google.common.base.Preconditions;
import com.google.common.collect.ImmutableList;
import org.opendaylight.l2switch.util.InstanceIdentifierUtils;
import org.opendaylight.yang.gen.v1.urn.ietf.params.xml.ns.yang.ietf.inet.types.rev100924.Uri;
import org.opendaylight.yang.gen.v1.urn.ietf.params.xml.ns.yang.ietf.yang.types.rev100924.MacAddress;
import org.opendaylight.yang.gen.v1.urn.opendaylight.action.types.rev131112.action.action.OutputActionCaseBuilder;
import org.opendaylight.yang.gen.v1.urn.opendaylight.action.types.rev131112.action.list.Action;
import org.opendaylight.yang.gen.v1.urn.opendaylight.action.types.rev131112.action.list.ActionBuilder;
import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.inventory.rev130819.FlowId;
import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.inventory.rev130819.tables.Table;
import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.inventory.rev130819.tables.table.Flow;
import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.inventory.rev130819.tables.table.FlowKey;
import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.service.rev130819.AddFlowInputBuilder;
import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.service.rev130819.FlowTableRef;
import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.service.rev130819.SalFlowService;
import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.types.rev131026.FlowModFlags;
import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.types.rev131026.FlowRef;
import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.types.rev131026.flow.InstructionsBuilder;
import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.types.rev131026.flow.Match;
```
import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.types.rev131026.flow.MatchBuilder;
import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.types.rev131026.instruction.instruction.ApplyActionsCaseBuilder;
import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.types.rev131026.instruction.instruction.apply.actions._case.ApplyActions;
import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.types.rev131026.instruction.instruction.apply.actions._case.ApplyActionsBuilder;
import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.types.rev131026.instruction.list.Instruction;
import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.types.rev131026.instruction.list.InstructionBuilder;
import org.opendaylight.yang.gen.v1.urn.opendaylight.inventory.rev130819.NodeConnectorRef;
import org.opendaylight.yang.gen.v1.urn.opendaylight.inventory.rev130819.NodeRef;
import org.opendaylight.yang.gen.v1.urn.opendaylight.inventory.rev130819.node.NodeConnector;
import org.opendaylight.yang.gen.v1.urn.opendaylight.inventory.rev130819.node.NodeConnectorKey;
import org.opendaylight.yang.gen.v1.urn.opendaylight.inventory.rev130819.nodes.Node;
import org.opendaylight.yang.gen.v1.urn.opendaylight.model.match.types.rev131026.ethernet.match.fields.EthernetDestinationBuilder;
import org.opendaylight.yang.gen.v1.urn.opendaylight.model.match.types.rev131026.ethernet.match.fields.EthernetSourceBuilder;
import org.opendaylight.yang.gen.v1.urn.opendaylight.model.match.types.rev131026.match.EthernetMatch;
import org.opendaylight.yang.gen.v1.urn.opendaylight.model.match.types.rev131026.match.EthernetMatchBuilder;
import org.opendaylight.yangtools.yang.binding.InstanceIdentifier;
import org.opendaylight.yangtools.yang.common.RpcResult;
import org.slf4j.Logger;
import org.slf4j.LoggerFactory;
import java.math.BigInteger;
import java.util.concurrent.Future;
import java.util.concurrent.atomic.AtomicLong;

/**
 * that builds required flow and writes to configuration data store using provided DataBrokerService
 * {@link org.opendaylight.controller.sal.binding.api.data.DataBrokerService}
 */
public class FlowWriterServiceImpl implements FlowWriterService {
    private static final Logger _logger = LoggerFactory.getLogger(FlowWriterServiceImpl.class);
    private SalFlowService salFlowService;
    private short flowTableId;
    private int flowPriority;
    private int flowIdleTimeout;
    private int flowHardTimeout;

    import java.math.BigInteger;
    import java.util.concurrent.Future;
    import java.util.concurrent.atomic.AtomicLong;

    /**
     * that builds required flow and writes to configuration data store using provided DataBrokerService
     * {@link org.opendaylight.controller.sal.binding.api.data.DataBrokerService}
     */
    public class FlowWriterServiceImplImpl implements FlowWriterService {
        private static final Logger _logger = LoggerFactory.getLogger(FlowWriterServiceImpl.class);
        private SalFlowService salFlowService;
        private short flowTableId;
        private int flowPriority;
        private int flowIdleTimeout;
        private int flowHardTimeout;
private AtomicLong flowIdInc = new AtomicLong();
private AtomicLong flowCookieInc = new AtomicLong(0x2a00000000000000L);
private final Integer DEFAULT_TABLE_ID = new Integer(0);
private final Integer DEFAULT_PRIORITY = new Integer(10);
private final Integer DEFAULT_HARD_TIMEOUT = new Integer(3600);
private final Integer DEFAULT_IDLE_TIMEOUT = new Integer(1800);

public FlowWriterServiceImpl(SalFlowService salFlowService) {
    Preconditions.checkNotNull(salFlowService, "salFlowService should not be null.");
    this.salFlowService = salFlowService;
}

public void setFlowTableId(short flowTableId) {
    this.flowTableId = flowTableId;
}

public void setFlowPriority(int flowPriority) {
    this.flowPriority = flowPriority;
}

public void setFlowIdleTimeout(int flowIdleTimeout) {
    this.flowIdleTimeout = flowIdleTimeout;
}

public void setFlowHardTimeout(int flowHardTimeout) {
    this.flowHardTimeout = flowHardTimeout;
}

/**
 * Writes a flow that forwards packets to destPort if destination mac in packet is destMac and
 * source Mac in packet is sourceMac. If sourceMac is null then flow would not set any source mac,
 * resulting in all packets with destMac being forwarded to destPort.
 *
 * @param sourceMac
 * @param destMac
 * @param destNodeConnectorRef
 */
@Override
public void addMacToMacFlow(MacAddress sourceMac, MacAddress destMac, NodeConnectorRef destNodeConnectorRef) {

    Preconditions.checkNotNull(destMac, "Destination mac address should not be null.");
    Preconditions.checkNotNull(destNodeConnectorRef, "Destination port should not be null.");

    // do not add flow if both macs are same.
    if(sourceMac != null && destMac.equals(sourceMac)) {
        _logger.info("In addMacToMacFlow: No flows added. Source and Destination mac are same.");
    }
return;
}

// get flow table key
TableKey flowTableKey = new TableKey((short) flowTableId);

// build a flow path based on node connector to program flow
InstanceIdentifier<Flow> flowPath = buildFlowPath(destNodeConnectorRef, flowTableKey);

// build a flow that target given mac id
Flow flowBody = createMacToMacFlow(flowTableKey.getId(), flowPriority, sourceMac, destMac, destNodeConnectorRef);

// commit the flow in config data
writeFlowToConfigData(flowPath, flowBody);
}

/**
 * Writes mac-to-mac flow on all ports that are in the path between given source and destination ports.
 * It uses path provided by NetworkGraphService
 * [ @link org.opendaylight.controller.sample.l2switch.md.topology.NetworkGraphService ] to find a links
 * [ @link org.opendaylight.yang.gen.v1.urn.tbd.params.xml.ns.yang.network.topology.rev131021.network.topology.topology.
 * Link ]
 * between given ports. And then writes appropriate flow on each port that is covered in that path.
 *
 * @param sourceMac
 * @param sourceNodeConnectorRef
 * @param destMac
 * @param destNodeConnectorRef
 */
@Override
public void addBidirectionalMacToMacFlows(MacAddress sourceMac,
        NodeConnectorRef sourceNodeConnectorRef,
        MacAddress destMac,
        NodeConnectorRef destNodeConnectorRef) {
    Preconditions.checkNotNull(sourceMac, "Source mac address should not be null.");
    Preconditions.checkNotNull(sourceNodeConnectorRef, "Source port should not be null.");
    Preconditions.checkNotNull(destMac, "Destination mac address should not be null.");
    Preconditions.checkNotNull(destNodeConnectorRef, "Destination port should not be null.");

    if(sourceNodeConnectorRef.equals(destNodeConnectorRef)) {
        _logger.info("In addMacToMacFlowsUsingShortestPath: No flows added. Source and Destination ports are
        same.");
        return;
    }
}
// add destMac-To-sourceMac flow on source port
addMacToMacFlow(destMac, sourceMac, sourceNodeConnectorRef);

// add sourceMac-To-destMac flow on destination port
addMacToMacFlow(sourceMac, destMac, destNodeConnectorRef);
}

/**
 * @param nodeConnectorRef
 * @return
 */
private InstanceIdentifier<Flow> buildFlowPath(NodeConnectorRef nodeConnectorRef, TableKey flowTableKey) {
    // generate unique flow key
    FlowId flowId = new FlowId(String.valueOf(flowIdInc.getAndIncrement()));
    FlowKey flowKey = new FlowKey(flowId);
    return InstanceIdentifierUtils.generateFlowInstanceIdentifier(nodeConnectorRef, flowTableKey, flowKey);
}

/**
 * @param tableId
 * @param priority
 * @param sourceMac
 * @param destMac
 * @param destPort
 * @return {@link org.opendaylight.yang.gen.v1.urn.opendaylight.flow.inventory.rev130819.tables.table.FlowBuilder}
 * builds flow that forwards all packets with destMac to given port
 */
private Flow createMacToMacFlow(Short tableId, int priority,
MacAddress sourceMac, MacAddress destMac, NodeConnectorRef destPort) {
    // start building flow
    FlowBuilder macToMacFlow = new FlowBuilder() //
        .setTableId(tableId) //
        .setFlowName("mac2mac");

    // use its own hash code for id.
    macToMacFlow.setId(new FlowId(Long.toString(macToMacFlow.hashCode())));

    // create a match that has mac to mac ethernet match
    EthernetMatchBuilder ethernetMatchBuilder = new EthernetMatchBuilder() //
        .setEthernetDestination(new EthernetDestinationBuilder() //
            .setAddress(destMac) //
            .build());
    // set source in the match only if present

if(sourceMac != null) {
    ethernetMatchBuilder.setEthernetSource(new EthernetSourceBuilder()
        .setAddress(sourceMac)
        .build());
}

EthernetMatch ethernetMatch = ethernetMatchBuilder.build();
Match match = new MatchBuilder()
        .setEthernetMatch(ethernetMatch)
        .build();

Uri destPortUri = destPort.getValue().firstKeyOf(NodeConnector.class, NodeConnectorKey.class).getId();

Action outputToControllerAction = new ActionBuilder() //
    .setOrder(0)
    .setAction(new OutputActionCaseBuilder() //
        .setOutputAction(new OutputActionBuilder() //
            .setMaxLength(new Integer(0xffff)) //
            .setOutputNodeConnector(destPortUri) //
            .build()) //
        .build()) //
    .build();

// Create an Apply Action
ApplyActions applyActions = new
ApplyActionsBuilder().setAction(ImmutableList.of(outputToControllerAction))
    .build();

// Wrap our Apply Action in an Instruction
Instruction applyActionsInstruction = new InstructionBuilder() //
    .setOrder(0)
    .setInstruction(new ApplyActionsCaseBuilder()//
        .setApplyActions(applyActions) //
        .build()); //

// Put our Instruction in a list of Instructions
macToMacFlow
    .setMatch(match) //
    .setInstructions(new InstructionsBuilder() //
        .setInstruction(ImmutableList.of(applyActionsInstruction)) //
        .build()) //
    .setPriority(priority) //
    .setBufferId(0L) //
    .setHardTimeout(flowHardTimeout) //
    .setIdleTimeout(flowIdleTimeout) //
    .setCookie(new FlowCookie(BigInteger.valueOf(flowCookieInc.getAndIncrement())))
    .setFlags(new FlowModFlags(false, false, false, false, false));
/**
 * Starts and commits data change transaction which
 * modifies provided flow path with supplied body.
 *
 * @param flowPath
 * @param flow
 * @return transaction commit
 */
private Future<RpcResult<AddFlowOutput>> writeFlowToConfigData(InstanceIdentifier<Flow> flowPath,
                                                           Flow flow) {
    final InstanceIdentifier<Table> tableInstanceId = flowPath.<Table>firstIdentifierOf(Table.class);
    final InstanceIdentifier<Node> nodeInstanceId = flowPath.<Node>firstIdentifierOf(Node.class);
    final AddFlowInputBuilder builder = new AddFlowInputBuilder(flow);
    builder.setNode(new NodeRef(nodeInstanceId));
    builder.setFlowRef(new FlowRef(flowPath));
    builder.setFlowTable(new FlowTableRef(tableInstanceId));
    builder.setTransactionUri(new Uri(flow.getId().getValue()));
    return salFlowService.addFlow(builder.build());
}
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7.96 MD-SAL to AD-SAL Adaptation 1.1.1-
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package org.opendaylight.controller.sal.compatibility.topology;

import static org.opendaylight.controller.sal.compatibility.topology.TopologyMapping.toAdEdge;
import static org.opendaylight.controller.sal.compatibility.topology.TopologyMapping.toTopoEdgeUpdate;
import java.util.Map.Entry;
import java.util.concurrent.CopyOnWriteArrayList;
import org.opendaylight.controller.md.sal.binding.util.TypeSafeDataReader;
import org.opendaylight.controller.md.sal.common.api.data.DataChangeEvent;
import org.opendaylight.controller.sal.binding.api.data.DataChangeListener;
import org.opendaylight.controller.sal.binding.api.data.DataProviderService;
import org.opendaylight.controller.sal.core.UpdateType;
import org.opendaylight.controller.sal.topology.IPluginOutTopologyService;
import org.opendaylight.yang.gen.v1.urn.tbd.params.xml.ns.yang.network.topology.rev131021.TopologyId;
Link;
import org.osgi.util.promise.Promise;
import org.opendaylight.yangtools.yang.binding.DataObject;
import org.opendaylight.yangtools.yang.binding.InstanceIdentifier;
import org.slf4j.Logger;
import org.slf4j.LoggerFactory;

public class TopologyCommitHandler implements DataChangeListener {


private static final Logger LOG = LoggerFactory.getLogger(TopologyCommitHandler.class);

private IPluginOutTopologyService topologyPublisher;

private final DataProviderService dataService;

public TopologyCommitHandler(final DataProviderService dataService, final IPluginOutTopologyService topologyPub) {
    this.topologyPublisher = topologyPub;
    this.dataService = dataService;
}

@Override
public void onDataChanged(final DataChangeEvent<InstanceIdentifier<?>, DataObject> modification) {
    CopyOnWriteArrayList<TopoEdgeUpdate> msg = new CopyOnWriteArrayList<TopoEdgeUpdate>();
    try {
        TypeSafeDataReader reader = TypeSafeDataReader.forReader(dataService);
        InstanceIdentifier<Topology> topologyPath = InstanceIdentifier.builder(NetworkTopology.class)
            .child(Topology.class, new TopologyKey(new TopologyId("flow:1"))).build();
        Topology topology = reader.readOperationalData(topologyPath);

        for (Entry<InstanceIdentifier<? extends DataObject>, DataObject> entry : modification.getCreatedOperationalData().entrySet()) {
            if (entry.getValue() instanceof Link && modification.getCreatedOperationalData().containsKey(entry.getKey())) {
                msg.add(toTopoEdgeUpdate(toAdEdge((Link) entry.getValue(), topology), UpdateType.ADDED, reader));
            }
        }

        for (Entry<InstanceIdentifier<? extends DataObject>, DataObject> entry : modification.getUpdatedOperationalData().entrySet()) {
            if (entry.getValue() instanceof Link) {
                msg.add(toTopoEdgeUpdate(toAdEdge((Link) entry.getValue(), topology), UpdateType.CHANGED, reader));
            }
        }

        for (InstanceIdentifier<? extends DataObject> path : modification.getRemovedOperationalData()) {
            if (path.getTargetType() == Link.class) {
                Link link = (Link) modification.getOriginalOperationalData().get(path);
                msg.add(toTopoEdgeUpdate(toAdEdge(link, topology), UpdateType.REMOVED, reader));
            }
        }
    }
    if (topologyPublisher != null && msg != null && !msg.isEmpty()) {
        topologyPublisher.edgeUpdate(msg);
    }
}
} catch (Exception e) {
    LOG.error("Exception caught", e);
}

protected IPluginOutTopologyService getTopologyPublisher() {
    return topologyPublisher;
}

protected void setTopologyPublisher(final IPluginOutTopologyService topologyPublisher) {
    this.topologyPublisher = topologyPublisher;
}

7.97 model-flow-base 1.1.1-Helium-SR1

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# ng-grid : An Angular DataGrid


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7.108 Openflow Protocol Library - SPI 0.5.1-
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7.109 openflowjava-extension-nicira 0.0.4-Helium-SR1

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7.110 openflowjava-extension-nicira-api 0.0.4-Helium-SR1

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7.114 openflowplugin-extension-api 0.0.4-Helium-SR1

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package org.ops4j.pax.exam.options.extra;

import static org.ops4j.lang.NullArgumentException.validateNotEmpty;

/**
 * {@link RepositoryOption} implementation.
 * @author Toni Menzel (tonit)
 * @author Alin Dreghiciu (adreghiciu@gmail.com)
 * @since 0.3.0, December 19, 2008
 */
public class RepositoryOptionImpl implements RepositoryOption {

    /**
     * Repository url (cannot be null or empty).
     */
    private final String repositoryUrl;

    /**
     * Marks repository as allowing snapshots.
     */
    private boolean allowSnapshots;

    /**
     * Marks repository as allowing releases.
     */
    private boolean allowReleases;

    /**
     * Defines repository identifier to be referenced in Maven settings.
     */
    private String id;

    /**
     * Constructor.
     *
     * @param repositoryUrl repository url (cannot be null or empty)
     * @throws IllegalArgumentException - If repository url is null or empty
     */
    public RepositoryOptionImpl(final String repositoryUrl) {
        validateNotEmpty(repositoryUrl, "Repository URL");
        this.repositoryUrl = repositoryUrl;
        this.allowSnapshots = true;
        this.allowReleases = true;
        this.id = repositoryUrl.replaceFirst("http://", "");
    }

    // Other methods and constructors...

allowSnapshots = false;
allowReleases = true;
}

public RepositoryOptionImpl allowSnapshots() {
    allowSnapshots = true;
    return this;
}

public RepositoryOptionImpl disableReleases() {
    allowReleases = false;
    return this;
}

public RepositoryOption id(String _id) {
    this.id = _id;
    return this;
}

/***/
* Returns the full repository url.
*
* @return the full repository as given plus eventual snapshot/release tags (cannot be null or
*        empty)
* *
* @throws IllegalStateException
*        - if both snapshots and releases are not allowed
*/
public String getRepository() {
    if (!allowReleases && !allowSnapshots) {
        throw new IllegalStateException(
            "Does not make sense to disallow both releases and snapshots. ");
    }
    final StringBuilder url = new StringBuilder();
    url.append(this.repositoryUrl);
    if (allowSnapshots) {
        url.append("@snapshots");
    }
    if (!allowReleases) {
        url.append("@noreleases");
    }
    if (id != null) {
        url.append("@id=");
        url.append(id);
    }
    return url.toString();
}
/**
 * @inheritDoc
 */

@Override
public String toString() {
    final StringBuilder sb = new StringBuilder();
    sb.append("RepositoryOptionImpl");
    sb.append("{url=").append(getRepository());
    sb.append('}');
    return sb.toString();
}

public String getValue() {
    return getRepository();
}

7.122 OPS4J Pax Exam - UI Low Level SPI
3.0.0

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 */
package org.ops4j.pax.exam.spi.intern;

import static org.ops4j.pax.exam.Constants.PROBE_EXECUTABLE;
import static org.ops4j.pax.tinybundles.core.TinyBundles.bundle;
import static org.ops4j.pax.tinybundles.core.TinyBundles.withClassicBuilder;
import java.io.File;
import java.io.IOException;
import java.io.InputStream;
import java.lang.reflect.Method;
import java.net.URISyntaxException;
import java.net.URL;
import java.util.ArrayList;
import java.util.HashMap;
import java.util.HashSet;
import java.util.LinkedHashMap;
import java.util.List;
import java.util.Map;
import java.util.Properties;
import java.util.Set;
import org.ops4j.pax.exam.TestAddress;
import org.ops4j.pax.exam.TestContainerException;
import org.ops4j.pax.exam.TestInstantiationInstruction;
import org.ops4j.pax.exam.TestProbeBuilder;
import org.ops4j.pax.exam.TestProbeProvider;
import org.ops4j.pax.exam.spi.ContentCollector;
import org.ops4j.pax.tinybundles.core.TinyBundle;
import org.ops4j.pax.wcontext.store.Store;
import org.osgi.framework.Constants;

/**
 * Default implementation allows you to dynamically create a probe from current classpath.
 *
 * @author Toni Menzel
 * @since Dec 2, 2009
 */
public class TestProbeBuilderImpl implements TestProbeBuilder {

    private static final String DEFAULT_PROBE_METHOD_NAME = "probe";

    private final Map<TestAddress, TestInstantiationInstruction> probeCalls = new LinkedHashMap<TestAddress, TestInstantiationInstruction>();
    private final List<Class<?>> anchors;
    private final Properties extraProperties;
    private final Set<String> ignorePackages = new HashSet<String>();
    private final Store<InputStream> store;

    public TestProbeBuilderImpl(Store<InputStream> store) throws IOException {
        anchors = new ArrayList<Class<?>>();
        this.store = store;
        extraProperties = new Properties();
    }

    public TestAddress addTest(Class<?> clazz, String methodName, Object... args) {
        TestAddress address = new DefaultTestAddress(clazz.getName() + "." + methodName, args);
        return address;
    }
}
probeCalls.put(address,
    new TestInstantiationInstruction(clazz.getName() + ";" + methodName));
addAnchor(clazz);
return address;
}

public TestAddress addTest(Class<?> clazz, Object... args) {
    return addTest(clazz, DEFAULT_PROBE_METHOD_NAME, args);
}

public List<TestAddress> addTests(Class<?> clazz, Method... methods) {
    List<TestAddress> list = new ArrayList<TestAddress>();
    for (Method method : methods) {
        list.add(addTest(clazz, method.getName()));
    }
    return list;
}

public TestProbeBuilder addAnchor(Class<?> clazz) {
    anchors.add(clazz);
    return this;
}

public TestProbeBuilder setHeader(String key, String value) {
    extraProperties.put(key, value);
    return this;
}

// when your testclass contains clutter in non-test methods,
// bnd generates too many imports.
// This makes packages optional.
public TestProbeBuilder ignorePackageOf(Class<?>... classes) {
    for (Class<?> c : classes) {
        ignorePackages.add(c.getPackage().getName());
    }
    return this;
}

public TestProbeProvider build() {
    if (anchors.size() == 0) {
        throw new TestContainerException("No tests added to setup!");
    }

    constructProbeTag(extraProperties);
    try {
        TinyBundle bundle = prepareProbeBundle(createExtraIgnores());
        return new DefaultTestProbeProvider(getTests(), store, store.store(bundle
private TinyBundle prepareProbeBundle(Properties p) throws IOException {
    TinyBundle bundle = bundle(store).set(Constants.DYNAMICIMPORT_PACKAGE, "*");

    bundle.set(Constants.BUNDLE_SYMBOLICNAME, "");
    bundle.set(Constants.BUNDLE_MANIFESTVERSION, "2");
    for (Object key : extraProperties.keySet()) {
        bundle.set((String) key, (String) extraProperties.get(key));
    }
    for (Object key : p.keySet()) {
        bundle.set((String) key, (String) p.get(key));
    }

    Map<String, URL> map = collectResources();
    for (String item : map.keySet()) {
        bundle.add(item, map.get(item));
    }
    return bundle;
}

private Map<String, URL> collectResources() throws IOException {
    ContentCollector collector = selectCollector();
    Map<String, URL> map = new HashMap<String, URL>();
    collector.collect(map);
    return map;
}

static String convertClassToPath(Class<?> c) {
    return c.getName().replace(".", File.separator) + ".class";
}

/**
 * @param clazz
to find the root classes folder for.
 *
 * @return A File instance being the exact folder on disk or null, if it hasn't been found.
 *
 * @throws java.io.IOException
 * if a problem occurs (method crawls folders on disk..)
 */
public static File findClassesFolder(Class<?> clazz) throws IOException {

}
ClassLoader classLoader = clazz.getClassLoader();
String clazzPath = convertClassToPath(clazz);
URL url = classLoader.getResource(clazzPath);
if (url == null || !"file".equals(url.getProtocol()))
    return null;
else {
    try {
        File file = new File(url.toURI());
        String fullPath = file.getCanonicalPath();
        String parentDirPath = fullPath
            .substring(0, fullPath.length() - clazzPath.length());
        return new File(parentDirPath);
    }
    catch (URISyntaxException e) {
        // this should not happen as the uri was obtained from getResource
        throw new TestContainerException(e);
    }
}
private ContentCollector selectCollector() throws IOException {
    File root = findClassesFolder(anchors.get(0));
    if (root != null) {
        return new CompositeCollector(new CollectFromBase(root), new CollectFromItems(anchors));
    } else {
        return new CollectFromItems(anchors);
    }
}
public Set<TestAddress> getTests() {
    return probeCalls.keySet();
}
private Properties createExtraIgnores() {
    Properties properties = new Properties();
    StringBuilder sb = new StringBuilder();
    for (String p : ignorePackages) {
        if (sb.length() > 0) {
            sb.append(",");
        }
        sb.append(p);
    }
    properties.put("Ignore-Package", sb.toString());
    return properties;
}
private void constructProbeTag(Properties p) {
    // construct out of added Tests
    StringBuilder sbKeyChain = new StringBuilder();

    for (TestAddress address : probeCalls.keySet()) {
        sbKeyChain.append(address.identifier());
        sbKeyChain.append(",");
        p.put(address.identifier(), probeCalls.get(address).toString());
    }
    p.put(PROBE_EXECUTABLE, sbKeyChain.toString());
}

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 */
package org.ops4j.pax.exam.spi.intern;

import java.io.IOException;
import java.io.OutputStream;
import java.util.HashSet;
import java.util.Set;
import java.util.jar.JarOutputStream;
import java.util.jar.Manifest;
import java.util.zip.ZipEntry;

/**
 * This is a more convenient JarOutputStream that imits any writing of duplicate entries. If someone
 * tries to do so, it just does not write anything. Be aware that this could be a source of trouble
 * - but it simplifies merging jars with first come first serve policy.
 * <p/>
 * Implementation note: some silly class init starvation prevents constructor initialization of
 * entrynames..
 */

import java.io.IOException;
import java.io.OutputStream;
import java.util.HashSet;
import java.util.Set;
import java.util.jar.JarOutputStream;
import java.util.jar.Manifest;
import java.util.zip.ZipEntry;

/**
 * This is a more convenient JarOutputStream that imits any writing of duplicate entries. If someone
 * tries to do so, it just does not write anything. Be aware that this could be a source of trouble
 * - but it simplifies merging jars with first come first serve policy.
 * <p/>
 * Implementation note: some silly class init starvation prevents constructor initialization of
 * entrynames..
 */
/* @author Toni Menzel (tonit)
   @since May 29, 2008
*/
public class DuplicateAwareJarOutputStream extends JarOutputStream {

    private Set<String> entrynames;
    private boolean writable;

    public DuplicateAwareJarOutputStream(OutputStream outputStream, Manifest manifest) throws IOException {
        super(outputStream, manifest);
    }

    public DuplicateAwareJarOutputStream(OutputStream outputStream) throws IOException {
        super(outputStream);
    }

    public void write(int i) throws IOException {
        if (writable) {
            super.write(i);
        }
    }

    public synchronized void write(byte[] bytes, int i, int i1) throws IOException {
        if (writable) {
            super.write(bytes, i, i1);
        }
    }

    public void write(byte[] bytes) throws IOException {
        if (writable) {
            super.write(bytes);
        }
    }

    public void putNextEntry(ZipEntry zipEntry) throws IOException {
        if (entrynames == null) {
            entrynames = new HashSet<String>();
        }
        if (entrynames.add(zipEntry.getName())) {
            super.putNextEntry(zipEntry);
            writable = true;
        } else {
            writable = false;
        }
    }
}
package org.ops4j.pax.exam.spi.war;

import java.lang.reflect.Method;
import java.net.URI;
import java.util.HashMap;
import java.util.List;
import java.util.Map;
import java.util.Set;
import org.ops4j.pax.exam.TestAddress;
import org.ops4j.pax.exam.TestInstantiationInstruction;
import org.ops4j.pax.exam.TestProbeBuilder;
import org.ops4j.pax.exam.TestProbeProvider;
import org.ops4j.pax.exam.options.WarProbeOption;
import org.ops4j.pax.exam.spi.intern.DefaultTestAddress;

/**
 * Builds a WAR probe.
 *
 * @author Harald Wellmann
 *
 */
public class WarTestProbeBuilderImpl implements TestProbeBuilder {

    private WarProbeOption option;
    private final Map<TestAddress, TestInstantiationInstruction> probeCalls = new HashMap<TestAddress, TestInstantiationInstruction>();

    public WarTestProbeBuilderImpl() {
        this(new WarProbeOption().classPathDefaultExcludes());
    }

    public WarTestProbeBuilderImpl(WarProbeOption option) {
        this(option);
    }

    private void addProbeCalls(Map<TestAddress, TestInstantiationInstruction> probeCalls, WarProbeOption option) {
        // Add probe calls...
    }

    public WarProbeOption option() {
        return option;
    }

    public boolean supports(WarProbeOption option) {
        return true;
    }

    @Override
    public void build(TestProbeProvider provider, WarProbeOption option) {
        addProbeCalls(probeCalls, option);
        provider.addProbeBuilder(new WarTestProbeBuilderImpl() { (new WarProbeOption().classPathDefaultExcludes());
    }

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    * limitations under the License.
    */
public WarTestProbeBuilderImpl(WarProbeOption option) {
    this.option = option;
}

@Override
public TestAddress addTest(Class<?> clazz, String methodName, Object... args) {
    TestAddress address = new DefaultTestAddress(clazz.getSimpleName() + "." + methodName, args);
    probeCalls.put(address,
        new TestInstantiationInstruction(clazz.getName() + ";" + methodName));
    return address;
}

@Override
public TestAddress addTest(Class<?> clazz, Object... args) {
    throw new UnsupportedOperationException();
}

@Override
public List<TestAddress> addTests(Class<?> clazz, Method... m) {
    throw new UnsupportedOperationException();
}

@Override
public TestProbeBuilder setHeader(String key, String value) {
    throw new UnsupportedOperationException();
}

@Override
public TestProbeBuilder ignorePackageOf(Class<?>... classes) {
    throw new UnsupportedOperationException();
}

@Override
public TestProbeProvider build() {
    WarBuilder warBuilder = new WarBuilder(option);
    URI warUri = warBuilder.buildWar();
    return new WarTestProbeProvider(warUri, getTests());
}

public Set<TestAddress> getTests() {
    return probeCalls.keySet();
}
7.123 OPS4J Pax Exam Remote Bundle
Context Client 3.5.0

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7.129 org.eclipse.sisu.plexus 0.1.0

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* Stuart McCulloch (Sonatype, Inc.) - initial API and implementation
*******************************************************************************/
package org.eclipse.sisu.plexus;

import java.lang.annotation.Annotation;
import org.codehaus.plexus.component.annotations.Component;

/**
 * Partial runtime implementation of Plexus @Component annotation, supporting the most common
 * attributes.
 */
final class ComponentImpl
    implements Component
{
    // ----------------------------------------------------------------------
    // Constants
    // ----------------------------------------------------------------------
    // computed hashCode representing hard-coded attributes
private static final int HASH_CODE_OFFSET = 0x685499F5;

// Implemention fields

private final Class<?> role;

private final String hint;

private final String instantiationStrategy;

private final String description;

// Constructors

ComponentImpl( final Class<?> role, final String hint, final String instantiationStrategy, final String description )
{
  if ( null == role || null == hint || null == instantiationStrategy || null == description )
  {
    throw new IllegalArgumentException( "@Component cannot contain null values" );
  }
  this.role = role;
  this.hint = hint;
  this.instantiationStrategy = instantiationStrategy;
  this.description = description;
}

// Annotation properties

public Class<?> role()
{
  return role;
}

public String hint()
{
  return hint;
}

public String instantiationStrategy()
{
  return instantiationStrategy;
public String description()
{
    return description;
}

public boolean isolatedRealm()
{
    return false;
}

public String alias()
{
    return "";
}

public String composer()
{
    return "";
}

public String configurator()
{
    return "";
}

public String factory()
{
    return "";
}

public String lifecycleHandler()
{
    return "";
}

public String profile()
{
    return "";
}

public String type()
{
    return "";
}

public String version()
// Standard annotation behaviour
// ----------------------------------------------------------------------

@override
public boolean equals( final Object rhs )
{
    if ( this == rhs )
    {
        return true;
    }

    if ( rhs instanceof Component )
    {
        final Component cmp = (Component) rhs;

        if ( role.equals( cmp.role() ) && hint.equals( cmp.hint() )
             && instantiationStrategy.equals( cmp.instantiationStrategy() )
             && description.equals( cmp.description() ) )
        {
            // optimization: we hard-code all these attributes to be empty
            final String hardCodedAttributes =
            cmp.alias() + cmp.composer() + cmp.configurator() + cmp.factory() + cmp.lifecycleHandler()
            + cmp.profile() + cmp.type() + cmp.version();

            return hardCodedAttributes.length() == 0 && !cmp.isolatedRealm();
        }
    }

    return false;
}

@override
public int hashCode()
{
    return HASH_CODE_OFFSET + ( 127 * "role".hashCode() ^ role.hashCode() )
           + ( 127 * "hint".hashCode() ^ hint.hashCode() )
           + ( 127 * "instantiationStrategy".hashCode() ^ instantiationStrategy.hashCode() )
           + ( 127 * "description".hashCode() ^ description.hashCode() );
}

@override
public String toString()
{
return String.format( "@%s(isolatedRealm=false, composer=, configurator=, alias=, description=%s, " + "instantiationStrategy=%s, factory=, hint=%s, type=, lifecycleHandler=, version=, " + "profile=, role=%s)", Component.class.getName(), description, instantiationStrategy, hint, role );
}

public Class<? extends Annotation> annotationType()
{
    return Component.class;
}
}

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*
* Contributors:
*    Stuart McCulloch (Sonatype, Inc.) - initial API and implementation
***********************************************************************/
package org.eclipse.sisu.plexus;

import java.lang.annotation.Annotation;
import org.codehaus.plexus.component.annotations.Configuration;

/**
 * Runtime implementation of Plexus @{@link Configuration} annotation.
 */
final class ConfigurationImpl
    implements Configuration
{
    // ----------------------------------------------------------------------
    // Implementation fields
    // ----------------------------------------------------------------------

    private final String name;

    private final String value;

    // ----------------------------------------------------------------------
    // Constructors
    // ----------------------------------------------------------------------

    ConfigurationImpl( final String name, final String value )
    {
        if ( null == name || null == value )
        {
            
            import java.lang.annotation.Annotation;

            import org.codehaus.plexus.component.annotations.Configuration;

            /**
             * Runtime implementation of Plexus @{@link Configuration} annotation.
             */
            final class ConfigurationImpl
                implements Configuration
            {
                // ----------------------------------------------------------------------
                // Implementation fields
                // ----------------------------------------------------------------------

                private final String name;

                private final String value;

                // ----------------------------------------------------------------------
                // Constructors
                // ----------------------------------------------------------------------

                ConfigurationImpl( final String name, final String value )
                {
                    if ( null == name || null == value )
                    {
                        
                        import java.lang.annotation.Annotation;

                        import org.codehaus.plexus.component.annotations.Configuration;

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                         * Runtime implementation of Plexus @{@link Configuration} annotation.
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                        final class ConfigurationImpl
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                            // Constructors
                            // ----------------------------------------------------------------------

                            ConfigurationImpl( final String name, final String value )
                            {
                                if ( null == name || null == value )
                                {
                                    
                                    import java.lang.annotation.Annotation;

                                    import org.codehaus.plexus.component.annotations.Configuration;

                                    /**
                                     * Runtime implementation of Plexus @{@link Configuration} annotation.
                                     */
                                    final class ConfigurationImpl
                                        implements Configuration
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                                        // Implementation fields
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                                        // ----------------------------------------------------------------------
                                        // Constructors
                                        // ----------------------------------------------------------------------

                                        ConfigurationImpl( final String name, final String value )
                                        {
                                            if ( null == name || null == value )
                                            {
                                                
                                                import java.lang.annotation.Annotation;

                                                import org.codehaus.plexus.component.annotations.Configuration;

                                                /**
                                                 * Runtime implementation of Plexus @{@link Configuration} annotation.
                                                 */
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                                                    // ----------------------------------------------------------------------
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                                                    // ----------------------------------------------------------------------
                                                    // Constructors
                                                    // ----------------------------------------------------------------------

                                                    ConfigurationImpl( final String name, final String value )
                                                    {
                                                        if ( null == name || null == value )
                                                        {
                                                            
                                                            import java.lang.annotation.Annotation;

                                                            import org.codehaus.plexus.component.annotations.Configuration;

                                                            /**
                                                             * Runtime implementation of Plexus @{@link Configuration} annotation.
                                                             */
                                                             final class ConfigurationImpl
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                                                                // ----------------------------------------------------------------------
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                                                                ConfigurationImpl( final String name, final String value )
                                                                {
                                                                    if ( null == name || null == value )
                                                                    {
                                                                        
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                                                                        /**
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                                                                             // ----------------------------------------------------------------------
                                                                             // Constructors
                                                                             // ----------------------------------------------------------------------

                                                                             ConfigurationImpl( final String name, final String value )
                                                                             {
                                                                                 if ( null == name || null == value )
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                                                                                  * Runtime implementation of Plexus @{@link Configuration} annotation.
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                                                                                           // ----------------------------------------------------------------------

                                                                                           ConfigurationImpl( final String name, final String value )
                                                                                           {
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                                                                                               {
                                                                                                    
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                                                                                                    import org.codehaus.plexus.component.annotations.Configuration;

                                                                                                    /**
                                                                                                     * Runtime implementation of Plexus @{@link Configuration} annotation.
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                                                                                                             private final String value;

                                                                                                             // ----------------------------------------------------------------------
                                                                                                             // Constructors
                                                                                                             // ----------------------------------------------------------------------

                                                                                                             ConfigurationImpl( final String name, final String value )
                                                                                                             {
                                                                                                                               if ( null == name || null == value )
                                                                                                                               {
                                                                                                                                    
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                                                                                                                                                // ----------------------------------------------------------------------

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                                                                                                                                                {
                                                                                                                                                           if ( null == name || null == value )
                                                                                                                                                           {
                                                                                                                                                                             
                                                                                                                                                                             import java.lang.annotation.Annotation;

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                                             /**
                                            * Runtime implementation of Plexus @{@link Configuration} annotation.
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                                                // Implementation fields
                                                // ----------------------------------------------------------------------

                                                private final String name;

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                                                // ----------------------------------------------------------------------
                                                // Constructors
                                                // ----------------------------------------------------------------------

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                                                {
                                                    if ( null == name || null == value )
                                                    {
                                                        
                                                        import java.lang.annotation.Annotation;

                                                        import org.codehaus.plexus.component.annotations.Configuration;

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                                                         * Runtime implementation of Plexus @{@link Configuration} annotation.
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                                                             // ----------------------------------------------------------------------
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                                                             // ----------------------------------------------------------------------

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                                                             {
                                                                 if ( null == name || null == value )
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                                                                                     import java.lang.annotation.Annotation;

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                                                                                           // ----------------------------------------------------------------------

                                                                                           ConfigurationImpl( final String name, final String value )
                                                                                           {
                                                                                                           if ( null == name || null == value )
                                                                                                           {
                                                                                                                              
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                                                                                                                               final class ConfigurationImpl
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                                                                                                                                            private final String value;

                                                                                                                                            // ----------------------------------------------------------------------
                                                                                                                                            // Constructors
                                                                                                                                            // ----------------------------------------------------------------------

                                                                                                                                            ConfigurationImpl( final String name, final String value )
                                                                                                                                            {
                                                                                                                                                           if ( null == name || null == value )
                                                                                                                                                           {
                                                                                                                                                                             
                                                                                                                                                                             import java.lang.annotation.Annotation;

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                                            * Runtime implementation of Plexus @{@link Configuration} annotation.
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                                                // Implementation fields
                                                // ----------------------------------------------------------------------

                                                private final String name;

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                                                // ----------------------------------------------------------------------
                                                // Constructors
                                                // ----------------------------------------------------------------------

                                                ConfigurationImpl( final String name, final String value )
                                                {
                                                    if ( null == name || null == value )
                                                    {
                                                        
                                                        import java.lang.annotation.Annotation;

                                                        import org.codehaus.plexus.component.annotations.Configuration;

                                                        /**
                                                         * Runtime implementation of Plexus @{@link Configuration} annotation.
                                                         */
                                                         final class ConfigurationImpl
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                                                             // Implementation fields
                                                             // ----------------------------------------------------------------------

                                                             private final String name;

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                                                             // ----------------------------------------------------------------------
                                                             // Constructors
                                                             // ----------------------------------------------------------------------

                                                             ConfigurationImpl( final String name, final String value )
                                                             {
                                                                 if ( null == name || null == value )
                                                                 {
                                                                                     
                                                                                     import java.lang.annotation.Annotation;

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                                                                                           // ----------------------------------------------------------------------

                                                                                           ConfigurationImpl( final String name, final String value )
                                                                                           {
                                                                                                           if ( null == name || null == value )
                                                                                                           {
                                                                                                               
                                                                                                               import java.lang.annotation.Annotation;

                                                                                                               import org.codehaus.plexus.component.annotations.Configuration;

                                                                                                               /**
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                                                                                                                                     // ----------------------------------------------------------------------
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                                                                                                                                     // ----------------------------------------------------------------------

                                                                                                                                     private final String name;

                                                                                                                                     private final String value;

                                                                                                                                     // ----------------------------------------------------------------------
                                                                                                                                     // Constructors
                                                                                                                                     // ----------------------------------------------------------------------

                                                                                                                                     ConfigurationImpl( final String name, final String value )
                                                                     

throw new IllegalArgumentException( "@Configuration cannot contain null values" );
}

this.name = name;
this.value = value;
}

// ----------------------------------------------------------------------
// Annotation properties
// ----------------------------------------------------------------------

public String name()
{
    return name;
}

public String value()
{
    return value;
}

// ----------------------------------------------------------------------
// Standard annotation behaviour
// ----------------------------------------------------------------------

@Override
public boolean equals( final Object rhs )
{
    if ( this == rhs )
    {
        return true;
    }

    if ( rhs instanceof Configuration )
    {
        final Configuration conf = (Configuration) rhs;

        return name.equals( conf.name() ) && value.equals( conf.value() );
    }

    return false;
}

@override
public int hashCode()
{
    return ( 127 * "name".hashCode() ^ name.hashCode() ) + ( 127 * "value".hashCode() ^ value.hashCode() );
}
public String toString()
{
    return String.format("@%s(name=%s, value=%s)", Configuration.class.getName(), name, value);
}

public Class<? extends Annotation> annotationType()
{
    return Configuration.class;
}

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 *
 * Contributors:
 * Stuart McCulloch (Sonatype, Inc.) - initial API and implementation
 */
package org.eclipse.sisu.plexus;

import java.util.Map.Entry;
import com.google.inject.TypeLiteral;
import com.google.inject.name.Named;

/**
 * Entry representing a missing @Named Plexus bean.
 */
final class MissingPlexusBean<T> implements PlexusBean<T>
{
    // ----------------------------------------------------------------------
    // Implementation fields
    // ----------------------------------------------------------------------

    private final TypeLiteral<T> role;
    private final String hint;

    // ----------------------------------------------------------------------
    // Constructors
    // ----------------------------------------------------------------------

    MissingPlexusBean( final TypeLiteral<T> role, final String hint )
{  
  this.role = role;
  this.hint = hint;
}

// ├________________________________________________________________________
// Public methods
// ├________________________________________________________________________

public String getKey()
{
  return hint;
}

public T getValue()
{
  return Roles.throwMissingComponentException( role, hint );
}

public T setValue( final T value )
{
  throw new UnsupportedOperationException();
}

public String getDescription()
{
  return null;
}

public Class<T> getImplementationClass()
{
  return null;
}

@override
public String toString()
{
  return getKey() + "=<missing>";
}

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* http://www.eclipse.org/legal/epl-v10.html                                  *
*                                                                          *
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package org.eclipse.sisu.plexus;

import java.lang.annotation.Annotation;
import java.util.Arrays;
import java.util.List;

import org.codehaus.plexus.component.annotations.Requirement;
import org.eclipse.sisu.inject.DeferredClass;
import org.eclipse.sisu.space.LoadedClass;

/**
 * Runtime implementation of Plexus @Requirement annotation.
 */
final class RequirementImpl
    implements Requirement
{
    // Implementation fields
    // ----------------------------------------------------------------------

    private final DeferredClass<?> role;
    private final boolean optional;
    private final String hint;
    private final String[] hints;

    // Constructors
    // ----------------------------------------------------------------------

    RequirementImpl( final DeferredClass<?> role, final boolean optional, final List<String> hints )
    {
        if ( null == role || null == hints || hints.contains( null ) )
        {
            throw new IllegalArgumentException( "@Requirement cannot contain null values" );
        }
        this.role = role;
        this.optional = optional;

        final int length = hints.size();
        if ( length == 0 )
        {
            hint = ""
        }
        this.hint = hint;
    }
}
this.hints = Hints.NO_HINTS;
}
else if ( length == 1 )
{
    hint = hints.get( 0 );
    this.hints = Hints.NO_HINTS;
}
else
{
    hint = "";
    this.hints = hints.toArray( new String[length] );
}
}

/**
 * For testing purposes only.
 */
@Deprecated
public RequirementImpl( final Class<?> role, final boolean optional, final String... hints )
{
    this( new LoadedClass<Object>( role ), optional, Arrays.asList( hints ) );
}

// ----------------------------------------------------------------------
// Annotation properties
// ----------------------------------------------------------------------

public Class<?> role()
{
    return role.load();
}

public boolean optional()
{
    return optional;
}

public String hint()
{
    return hint;
}

public String[] hints()
{
    return hints.clone();
}

// =======================================================================

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// Standard annotation behaviour
// -----------------------------------------------------------------------------

@Override
public boolean equals(final Object rhs)
{
    if (this == rhs)
    {
        return true;
    }

    if (rhs instanceof Requirement)
    {
        final Requirement req = (Requirement) rhs;

        return role().equals(req.role()) && optional == req.optional() && hint.equals(req.hint())
        && Arrays.equals(hints, req.hints());
    }

    return false;
}

@Override
public int hashCode()
{
    return (127 * "role".hashCode() ^ role().hashCode())
    + (127 * "optional".hashCode() ^ Boolean.valueOf(optional).hashCode())
    + (127 * "hint".hashCode() ^ hint.hashCode()) + (127 * "hints".hashCode() ^ Arrays.hashCode(hints));
}

@Override
public String toString()
{
    return String.format("@%s(hints=%s, optional=%b, role=%s, hint=%s)", Requirement.class.getName(),
    Arrays.toString(hints), Boolean.valueOf(optional), role(), hint);
}

public Class<? extends Annotation> annotationType()
{
    return Requirement.class;
}

7.130 org.osgi.compendium 4.2.0
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7.131 org.osgi.core 4.2.0

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7.132 osgi.cmpn 5.0.0
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*/

package org.osgi.application;

import java.util.Dictionary;
import java.util.Map;
import org.osgi.framework.Constants;
import org.osgi.framework.ServiceRegistration;

/**
* {@code ApplicationContext} is the access point for an OSGi-aware application
* to the features of the OSGi Service Platform. Each application instance will
* have its own {@code ApplicationContext} instance, which will not be reused
* after destroying the corresponding application instance.

* Application instances can obtain their {@code ApplicationContext} using the
*{@link Framework#getApplicationContext(Object)} method.

* The lifecycle of an {@code ApplicationContext} instance is bound to the
* lifecycle of the corresponding application instance. The
* {@code ApplicationContext} becomes available when the application is started
* and it is invalidated when the application instance is stopped (i.e. the
* "stop" method of the application activator object returned). All method calls
* (except {@link #getApplicationId()} and {@link #getInstanceId()}) to an
* invalidated context object result an {@code IllegalStateException}.

* @see org.osgi.application.Framework

* @author $Id: 51ddaaacd80155f91b38fe6d211a466447d4a $
*/

class ApplicationContext {

/**
 * Adds the specified {@link ApplicationServiceListener} object to this
 * context application instance's list of listeners. The specified
 * {@code referenceName} is a reference name specified in the descriptor of
 * the corresponding application. The registered @code listener] will only
 * receive the @link ApplicationServiceEvent)s related to the referred
 * service.
 * @param listener The
 *        @link org.osgi.application.ApplicationServiceListener to be
 *        added. It must not be @code null]
 * @param referenceName the reference name of a service from the descriptor
 *        of the corresponding application. It must not be @code null].
 * @throws java.lang.IllegalArgumentException If this context application
 *        instance has stopped.
 * @throws java.lang.NullPointerException If @code listener} or
 *        @code referenceName] is @code null]
 * @throws java.lang.IllegalArgumentException If there is no service in the
 *        application descriptor with the specified @code referenceName].
 */
    public void addServiceListener(ApplicationServiceListener listener, String referenceName) throws
java.lang.IllegalArgumentException;
/**
 * Adds the specified {ApplicationServiceListener} object to this context application instance's list of listeners. The
 * execution context parameter is an array of reference name specified in the descriptor of the corresponding application. The registered
 * {listener} will only receive the {ApplicationServiceEvent}s related to the referred services.
 *  
 * If the {listener} was already added, calling this method will overwrite the previous registration.
 *  
 * @param listener The
 *        ApplicationServiceListener to be added. It must not be {null}
 * @param referenceNames and array of service reference names from the
 *        descriptor of the corresponding application. It must not be
 *        {null} and it must not be empty.
 * @throws java.lang.IllegalStateException If this context application instance has stopped.
 * @throws java.lang.NullPointerException If {listener} is {null}
 * @throws java.lang.IllegalArgumentException If {referenceNames} array is empty or it contains unknown references
 * */
public void addServiceListener(ApplicationServiceListener listener, String[] referenceNames) throws
java.lang.IllegalArgumentException;

/**
 * Removes the specified
 * ApplicationServiceListener object from this context application instances's list of listeners.
 *  
 * If {listener} is not contained in this context application instance's list of listeners, this method does nothing.
 *  
 * @param listener The
 *        ApplicationServiceListener object to be removed.
 * @throws java.lang.IllegalStateException If this context application instance has stopped.
 * @throws java.lang.NullPointerException If {listener} is {null}
 * @throws java.lang.IllegalArgumentException If {referenceNames} array is empty or it contains unknown references
 * */
public void removeServiceListener(ApplicationServiceListener listener);

/**
 * This method returns the identifier of the corresponding application instance. This identifier is guaranteed to be unique within the scope of
public String getInstanceId();

/**
 * This method return the identifier of the corresponding application type.
 * This identifier is the same for the different instances of the same
 * application but it is different for different application type.
 * <p>
 * Note: this method can safely be called on an invalid
 * {ApplicationContext} as well.
 * <p>
 * @see org.osgi.service.application.ApplicationDescriptor#getApplicationId()
 *
 * @return the identifier of the application type.
 */
public String getApplicationId();

/**
 * This method returns the service object for the specified
 * {referenceName}. If the cardinality of the reference is 0..n or
 * 1..n and multiple services are bound to the reference, the service with
 * the highest ranking (as specified in its
 * {link org.osgi.framework.Constants#SERVICE_RANKING} property) is
 * returned. If there is a tie in ranking, the service with the lowest
 * service ID (as specified in its
 * {link org.osgi.framework.Constants#SERVICE_ID} property); that is, the
 * service that was registered first is returned.
 *
 * @param referenceName The name of a reference as specified in a reference
 * element in this context applications's description. It must not be
 * {code null}
 * @return A service object for the referenced service or {code null} if
 * the reference cardinality is 0..1 or 0..n and no bound service is
 * available.
 * @throws java.lang.NullPointerException If {code referenceName} is
 * {code null}.
 * @throws java.lang.IllegalArgumentException If there is no service in the
 * application descriptor with the specified {code referenceName}.
 * @throws java.lang.IllegalStateException If this context application
 * instance has stopped.
public Object locateService(String referenceName);

/**
 * This method returns the service objects for the specified
 * {code referenceName}.
 *
 * {param referenceName} The name of a reference as specified in a reference
 * element in this context applications's description. It must not be
 * {code null}.
 * {return} An array of service object for the referenced service or
 * {code null} if the reference cardinality is 0..1 or 0..n and no
 * bound service is available.
 * {throws java.lang.NullPointerException} If {code referenceName} is
 * {code null}.
 * {throws java.lang.IllegalArgumentException} If there is no service in the
 * application descriptor with the specified {code referenceName}.
 * {throws java.lang.IllegalStateException} If this context application
 * instance has stopped.
 */
public Object[] locateServices(String referenceName);

/**
 * Returns the startup parameters specified when calling the
 * {org.osgi.service.application.ApplicationDescriptor#launch(Map)}
 * method.
 * {p>
 * Startup arguments can be specified as name, value pairs. The name must be
 * of type {link java.lang.String}, which must not be {code null} or empty
 * {code null} {code ""}, the value can be any object
 * including {code null}.
 *
 * {return} a {link java.util.Map} containing the startup arguments. It can
 * be {code null}.
 * {throws java.lang.IllegalStateException} If this context application
 * instance has stopped.
 */
public Map getStartupParameters();

/**
 * Application can query the service properties of a service object it is
 * bound to. Application gets bound to a service object when it first
 * obtains a reference to the service by calling {code locateService} or
 * {code locateServices} methods.
 *
 * {param serviceObject} A service object the application is bound to. It
 * must not be null.
 * {return} The service properties associated with the specified service
 */
public Map getServiceProperties(Object serviceObject);

/**
 * Registers the specified service object with the specified properties
 * under the specified class names into the Framework. A
 * @link org.osgi.framework.ServiceRegistration} object is returned. The
 * @link org.osgi.framework.ServiceRegistration} object is for the private
 * use of the application registering the service and should not be shared
 * with other applications. The registering application is defined to be the
 * context application. Bundles can locate the service by using either the
 * @link org.osgi.framework.BundleContext#getServiceReferences(String, String)}
 * or @link org.osgi.framework.BundleContext#getServiceReference(String)}
 * method. Other applications can locate this service by using
 * @link #locateService(String)} or @link #locateServices(String)} method,
 * if they declared their dependence on the registered service.
 * 
 * <p>
 * An application can register a service object that implements the
 * @link org.osgi.framework.ServiceFactory} interface to have more
 * flexibility in providing service objects to other applications or
 * bundles.
 * 
 * <p>
 * The following steps are required to register a service:
 * 
 * @<ol>
 * @<li> If @code service} is not a @code ServiceFactory}, an
 * @code IllegalArgumentException} is thrown if @code service} is not an
 * @code instanceof} all the classes named.</li>
 * @<li>The Framework adds these service properties to the specified
 * @code Dictionary} (which may be @code null}}; a property named
 * @link org.osgi.framework.FrameworkConstants#SERVICE_ID} identifying the
 * registration number of the service and a property named
 * @link org.osgi.framework.FrameworkConstants#OBJECTCLASS} containing all the
 * specified classes. If any of these properties have already been specified
 * by the registering bundle, their values will be overwritten by the
 * Framework.</li>
 * @<li>The service is added to the Framework service registry and may now be
 * used by others.</li>
 * @<li>A service event of type
 * @link org.osgi.framework.ServiceEvent#REGISTERED} is fired. This event
* triggers the corresponding [@link ApplicationServiceEvent] to be
delivered to the applications that registered the appropriate listener.</li>
* <li>A [@code ServiceRegistration] object for this registration is
returned.</li>
* </ol>
* 
* @param clazzes The class names under which the service can be located.
* The class names in this array will be stored in the service's
* properties under the key
* [ @link org.osgi.framework.Constants#OBJECTCLASS]. This parameter
* must not be [@code null].
* @param service The service object or a [@code ServiceFactory] object.
* @param properties The properties for this service. The keys in the
* properties object must all be [@code String] objects. See
* [ @link org.osgi.framework.Constants] for a list of standard
* service property keys. Changes should not be made to this object
* after calling this method. To update the service's properties the
* [ @link org.osgi.framework.ServiceRegistration#setProperties(Dictionary)]
* method must be called. The set of properties may be [@code null]
* if the service has no properties.
* 
* @return A [@link org.osgi.framework.ServiceRegistration] object for use
* by the application registering the service to update the
* service's properties or to unregister the service.
* 
* @throws java.lang.IllegalArgumentException If one of the following is
* true:
* <ul>
* <li>[@code service] is [@code null].</li>
* <li>[@code service] is not a [@code ServiceFactory] object and is not an instance of all
* the named classes in [@code clazzes].</li>
* <li>[@code properties] contains case variants of the same key name.</li>
* </ul>
* @throws NullPointerException if [@code clazzes] is [@code null]
* 
* @throws java.lang.SecurityException If the caller does not have the
* [ @code ServicePermission] to register the service for all the
* named classes and the Java Runtime Environment supports
* permissions.
* 
* @throws java.lang.IllegalStateException If this ApplicationContext is no
* longer valid.
* 
* @see org.osgi.framework.BundleContext#registerService(java.lang.String[],
* java.lang.Object, java.util.Dictionary)
* @see org.osgi.framework.ServiceRegistration
* @see org.osgi.framework.ServiceFactory
public ServiceRegistration registerService(String[] clazzes, Object service, Dictionary properties);

/**
 * Registers the specified service object with the specified properties
 * under the specified class name with the Framework.
 *
 * <p>
 * This method is otherwise identical to
 * {registerService(java.lang.String[], java.lang.Object, java.util.Dictionary)}
 * and is provided as a convenience when {service} will only be
 * registered under a single class name. Note that even in this case the
 * value of the service's {Constants#OBJECTCLASS} property will be an
 * array of strings, rather than just a single string.
 *
 * @param clazz The class name under which the service can be located. It
 * must not be {null}
 * @param service The service object or a {ServiceFactory} object.
 * @param properties The properties for this service.
 *
 * @return A {ServiceRegistration} object for use by the application
 * registering the service to update the service's properties or to
 * unregister the service.
 *
 * @throws java.lang.IllegalArgumentException If one of the following is
 * true:
 * <ul>
 * <li>{service} is {null}.</li><li>{service} is
 * not a {ServiceFactory} object and is not an instance of the
 * named class in {clazz}.</li><li>{properties} contains
 * case variants of the same key name.</li>
 * </ul>
 * @throws NullPointerException if {clazz} is {null}
 * @throws java.lang.SecurityException If the caller does not have the
 * {ServicePermission} to register the service the named class
 * and the Java Runtime Environment supports permissions.
 * @throws java.lang.IllegalStateException If this ApplicationContext is no
 * longer valid.
 * @see registerService(java.lang.String[], java.lang.Object,
 * java.util.Dictionary)
 */
public ServiceRegistration registerService(String clazz, Object service, Dictionary properties);

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 */
package org.osgi.application;

import org.osgi.framework.ServiceEvent;
import org.osgi.framework.ServiceReference;

/**
 * An event from the Framework describing a service lifecycle change.
 * <p>
 * [@code ApplicationServiceEvent] objects are delivered to a
 * [@code ApplicationServiceListener] objects when a change occurs in this
 * service's lifecycle. The delivery of an [@code ApplicationServiceEvent] is
 * always triggered by a [@link org.osgi.framework.ServiceEvent].
 * [@code ApplicationServiceEvent] extends the content of [@code ServiceEvent]
 * with the service object the event is referring to as applications has no
 * means to find the corresponding service object for a
 * [@link org.osgi.framework.ServiceReference]. A type code is used to identify
 * the event type for future extendability. The available type codes are defined
 * in [@link org.osgi.framework.ServiceEvent].
 *<p>
 * OSGi Alliance reserves the right to extend the set of types.
 *
 * [@see org.osgi.framework.ServiceEvent]
 * [@see ApplicationServiceListener]
 *
 * [@author $Id: feb6a13123707549d3efdb5f06ba69ee82368cb9 $]
 */

public class ApplicationServiceEvent extends ServiceEvent {

    private static final long serialVersionUID = -4762149286971897323L;

    final Object serviceObject;

    /**
     * Creates a new application service event object.
     *
     * @param type The event type. Available type codes are defines in
* @param reference A @code ServiceReference} object to the service that
* had a lifecycle change. This reference will be used as the
* @code source} in the @link java.util.EventObject} baseclass,
* therefore, it must not be null.
* @param serviceObject The service object bound to this application
* instance. It can be @code null} if this application is not bound
* to this service yet.
* @throws IllegalArgumentException if the specified @code reference} is
* null.
* *
public ApplicationServiceEvent(int type, ServiceReference reference, Object serviceObject) {
    super(type, reference);
    this.serviceObject = serviceObject;
}

/**
 * This method returns the service object of this service bound to the
 * listener application instance. A service object becomes bound to the
 * application when it first obtains a service object reference to that
 * service by calling the @code ApplicationContext.locateService} or
 * @code locateServices} methods. If the application is not bound to the
 * service yet, this method returns @code null}.
 * *
 * @return the service object bound to the listener application or
 * @code null} if it isn't bound to this service yet.
 */
public Object getServiceObject() {
    return this.serviceObject;
}

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*/
package org.osgi.application;

import java.util.EventListener;
import org.osgi.framework.*;

/**
 * An [@code ApplicationServiceEvent] listener. When a [@code ServiceEvent] is
 * fired, it is converted to an [@code ApplicationServiceEvent] and it is
 * synchronously delivered to an [@code ApplicationServiceListener].
 *<p>
 * [@code ApplicationServiceListener] is a listener interface that may be
 * implemented by an application developer.
 *<p>
 * An [@code ApplicationServiceListener] object is registered with the Framework
 * using the [@code ApplicationContext.addServiceListener] method.
 * [@code ApplicationServiceListener] objects are called with an
 * [@code ApplicationServiceEvent] object when a service is registered,
 * modified, or is in the process of unregistering.
 *
 */

public interface ApplicationServiceListener extends EventListener {

/**
 * Receives notification that a service has had a lifecycle change.
 *<p>
 * @param event The [@code ApplicationServiceEvent] object.
 */

public void serviceChanged(ApplicationServiceEvent event);


package org.osgi.service.application;

import java.security.Permission;
import java.util.Hashtable;
import java.util.StringTokenizer;
import java.util.Vector;
import org.osgi.framework.Filter;
import org.osgi.framework.FrameworkUtil;
import org.osgi.framework.InvalidSyntaxException;

/**
 * This class implements permissions for manipulating applications and their
 * instances.
 * 
 * ApplicationAdminPermission can be targeted to applications that matches the
 * specified filter.
 * 
 * ApplicationAdminPermission may be granted for different actions:
 * { @code lifecycle}, { @code schedule} and { @code lock}. The permission
 * { @code schedule} implies the permission { @code lifecycle}.
 * 
 * @author $Id: c8c799ae29ff5bb6095e22d201b47a3445eb42cb $
 */
public class ApplicationAdminPermission extends Permission {

    private static final long serialVersionUID = 1L;

    /**
     * Allows the lifecycle management of the target applications.
     */
    public static final String LIFECYCLE_ACTION = "lifecycle";

/**
 * Allows scheduling of the target applications. The permission to schedule
 * an application implies that the scheduler can also manage the lifecycle
 * of that application i.e. [@code schedule] implies [@code lifecycle]
 */
public static final String SCHEDULE_ACTION = "schedule";

/**
 * Allows setting/unsetting the locking state of the target applications.
 */
public static final String LOCK_ACTION = "lock";

private ApplicationDescriptor applicationDescriptor;

/**
 * Constructs an ApplicationAdminPermission. The [@code filter] specifies
 * the target application. The [@code filter] is an LDAP-style filter, the
 * recognized properties are [@code signer] and [@code pid]. The pattern
 * specified in the [@code signer] is matched with the Distinguished Name
 * chain used to sign the application. Wildcards in a DN are not matched
 * according to the filter string rules, but according to the rules defined
 * for a DN chain. The attribute [@code pid] is matched with the PID of the
 * application according to the filter string rules.
 * <p>
 * If the [@code filter] is [@code null] then it matches [@code "*"]. If
 * [@code actions] is [@code "*"], then it identifies all the possible
 * actions.
 *<p>
 * @param filter filter to identify application. The value [@code null] is
 * equivalent to [@code "*"], and it indicates "all application".
 * @param actions comma-separated list of the desired actions granted on the
 * applications or [@code "*"], means all the actions. It must not be
 * [@code null]. The order of the actions in the list is significant.
 * @throws InvalidSyntaxException is thrown if the specified [@code filter]
 * is not syntactically correct.
 *
 * @exception NullPointerException is thrown if the actions parameter is
 * [@code null]
 *
 * @see ApplicationDescriptor
 * @see org.osgi.framework.AdminPermission
 */
public ApplicationAdminPermission(String filter, String actions) throws InvalidSyntaxException {
    super(filter == null ? "*" : filter);
    if (filter == null)
        filter = "*";
}
if (actions == null)
throw new NullPointerException("Action string cannot be null!");

this.applicationDescriptor = null;
this.filter = (filter == null ? "**" : filter);
this.actions = actions;

if (!filter.equals("*") && !filter.equals("<<SELF>>"))
FrameworkUtil.createFilter(this.filter); // check if the filter is
// valid
init();
}

/**
 * This constructor should be used when creating
 * {code ApplicationAdminPermission} instance for {code checkPermission}
 * call.
 *
 * @param application the target of the operation, it must not be
 * @code null
 * @param actions the required operation, it must not be {code null}
 * @throws NullPointerException if any of the arguments is null.
 */
public ApplicationAdminPermission(ApplicationDescriptor application, String actions) {
super(application.getApplicationId());

if (application == null || actions == null)
throw new NullPointerException("ApplicationDescriptor and action string cannot be null!");

this.filter = application.getApplicationId();
this.applicationDescriptor = application;
this.actions = actions;

init();
}

/**
 * This method can be used in the {link java.security.ProtectionDomain}
 * implementation in the {code implies} method to insert the application ID
 * of the current application into the permission being checked. This
 * enables the evaluation of the {code <<SELF>>} pseudo targets.
 * @param applicationId the ID of the current application.
 * @return the permission updated with the ID of the current application
 */
public ApplicationAdminPermission setCurrentApplicationId(String applicationId) {
ApplicationAdminPermission newPerm = null;

if (this.applicationDescriptor == null) {
  try {
    newPerm = new ApplicationAdminPermission(this.filter, this.actions);
  } catch (InvalidSyntaxException e) {
    throw new RuntimeException(e); /* this can never happen */
  }
} else
newPerm = new ApplicationAdminPermission(this.applicationDescriptor, this.actions);

newPerm.applicationID = applicationId;

return newPerm;

/**
 * Checks if the specified {@code permission} is implied by this permission.
 * The method returns true under the following conditions:
 * <ul>
 *   <li>This permission was created by specifying a filter (see
 *       {@link #ApplicationAdminPermission(String, String)})</li>
 *   <li>The implied {@code otherPermission} was created for a particular
 *       {@link ApplicationDescriptor} (see
 *       {@link #ApplicationAdminPermission(ApplicationDescriptor, String)})</li>
 *   <li>The filter of this permission mathes the
 *       {code ApplicationDescriptor} specified in the {code otherPermission}.
 *       If the filter in this permission is the {code <<SELF>>} pseudo target,
 *       then the currentApplicationId set in the {code otherPermission} is
 *       compared to the application Id of the target
 *       {code ApplicationDescriptor}.</li>
 *   <li>The list of permitted actions in this permission contains all actions
 *       required in the {code otherPermission}</li>
 * </ul>
 * Otherwise the method returns false.
 */
public boolean implies(Permission otherPermission) {
  if (otherPermission == null)
    return false;
  if (!(otherPermission instanceof ApplicationAdminPermission))
    return false;
  ApplicationAdminPermission other = (ApplicationAdminPermission) otherPermission;

if (!filter.equals("\"\"")) {
    if (other.applicationDescriptor == null)
        return false;

    if (filter.equals("\"<<SELF>>\"")) {
        if (other.applicationID == null)
            return false; /* it cannot be, this might be a bug */
    } else {
    Hashtable props = new Hashtable();
    props.put("pid", other.applicationDescriptor.getApplicationId());
    props.put("signer", new SignerWrapper(other.applicationDescriptor));

    Filter flt = getFilter();
    if (flt == null)
        return false;

    if (!flt.match(props))
        return false;
    }

    if (!actionsVector.containsAll(other.actionsVector))
        return false;

    return true;
}

public boolean equals(Object with) {
    if (with == null || !(with instanceof ApplicationAdminPermission))
        return false;

    ApplicationAdminPermission other = (ApplicationAdminPermission) with;

    // Compare actions:
    if (other.actionsVector.size() != actionsVector.size())
        return false;

    for (int i = 0; i != actionsVector.size(); i++)
        if (!other.actionsVector.contains(actionsVector.get(i)))
            return false;

    return equal(this.filter, other.filter) && equal(this.applicationDescriptor, other.applicationDescriptor) &&
        equal(this.applicationID, other.applicationID);
}
/**
 * Compares parameters for equality. If both object are null, they are
 * considered equal.
 *
 * @param a object to compare
 * @param b other object to compare
 * @return true if both objects are equal or both are null
 */
private static boolean equal(Object a, Object b) {
  // This equation is true if both references are null or both point
  // to the same object. In both cases they are considered as equal.
  if (a == b) {
    return true;
  }

  return a.equals(b);
}

public int hashCode() {
  int hc = 0;
  for (int i = 0; i != actionsVector.size(); i++)
    hc ^= ((String) actionsVector.get(i)).hashCode();
  hc ^= (null == this.filter) ? 0 : this.filter.hashCode();
  hc ^= (null == this.applicationDescriptor) ? 0 : this.applicationDescriptor.hashCode();
  hc ^= (null == this.applicationID) ? 0 : this.applicationID.hashCode();
  return hc;
}

/**
 * Returns the actions of this permission.
 *
 * @return the actions specified when this permission was created
 */
public String getActions() {
  return actions;
}

private String applicationID;

private static final Vector ACTIONS = new Vector()
private Vector actionsVector;
private final String filter;
private final String actions;
private Filter appliedFilter = null;

static {
  ACTIONS.add(LIFECYCLE_ACTION);
  ACTIONS.add(SCHEDULE_ACTION);
}
ACTIONS.add(LOCK_ACTION);

private static Vector actionsVector(String actions) {
    Vector v = new Vector();
    StringTokenizer t = new StringTokenizer(actions.toUpperCase(), ",");
    while (t.hasMoreTokens()) {
        String action = t.nextToken().trim();
        v.add(action.toLowerCase());
    }

    if (v.contains(SCHEDULE_ACTION) && !v.contains(LIFECYCLE_ACTION))
        v.add(LIFECYCLE_ACTION);

    return v;
}

private static class SignerWrapper extends Object {
    private String pattern;
    private ApplicationDescriptor appDesc;

    /**
     * @param pattern
     */
    public SignerWrapper(String pattern) {
        this.pattern = pattern;
    }

    SignerWrapper(ApplicationDescriptor appDesc) {
        this.appDesc = appDesc;
    }

    public boolean equals(Object o) {
        if (!(o instanceof SignerWrapper))
            return false;
        SignerWrapper other = (SignerWrapper) o;
        ApplicationDescriptor matchAppDesc = appDesc != null ? appDesc : other.appDesc;
        String matchPattern = appDesc != null ? other.pattern : pattern;
        return matchAppDesc.matchDNChain(matchPattern);
    }

    private void init() {
        actionsVector = actionsVector(actions);

        if (actions.equals("*"))
            actionsVector = actionsVector(LIFECYCLE_ACTION + "," + SCHEDULE_ACTION + "," + LOCK_ACTION);
    }
if (!ACTIONS.containsAll(actionsVector))
throw new IllegalArgumentException("Illegal action!");

applicationID = null;
}

private Filter getFilter() {
if (appliedFilter == null) {
try {
appliedFilter = FrameworkUtil.createFilter(filter);
} catch (InvalidSyntaxException e) {
// we will return null

}
}
return appliedFilter;
}

/************************************************************************
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* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
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* limitations under the License.
**************************************************************************/

package org.osgi.service.application;

import java.lang.reflect.InvocationTargetException;
import java.lang.reflect.Method;
import java.security.AccessController;
import java.security.PrivilegedAction;
import java.security.PrivilegedExceptionAction;
import java.util.Map;
import org.osgi.framework.Constants;
import org.osgi.framework.InvalidSyntaxException;

/**
 * An OSGi service that represents an installed application and stores
 * information about it. The application descriptor can be used for instance
 * creation.
public abstract class ApplicationDescriptor {

    public static final String APPLICATION_NAME = "application.name";

    public static final String APPLICATION_ICON = "application.icon";

    public static final String APPLICATION_PID = Constants.SERVICE_PID;

    public static final String APPLICATION_VERSION = "application.version";

    public static final String APPLICATION_VENDOR = Constants.SERVICE_VENDOR;

    public static final String APPLICATION_VISIBLE = "application.visible";

    public static final String APPLICATION_LAUNCHABLE = "application.launchable";
public static final String APPLICATION_LOCKED = "application.locked";

public static final String APPLICATION_DESCRIPTION = "application.description";

public static final String APPLICATION_DOCUMENTATION = "application.documentation";

public static final String APPLICATION_COPYRIGHT = "application.copyright";

public static final String APPLICATION_LICENSE = "application.license";

public static final String APPLICATION_CONTAINER = "application.container";

public static final String APPLICATION_LOCATION = "application.location";

private final String pid;

/**
 * Constructs the {code ApplicationDescriptor}.
 * @param applicationId The identifier of the application. Its value is also
 * available as the {code service.pid} service property of this
 * {code ApplicationDescriptor} service. This parameter must not be
 * {code null}.
 * @throws NullPointerException if the specified {code applicationId} is
 * null.
 */
protected ApplicationDescriptor(String applicationId) {
    if (null == applicationId) {
        // Code snippet for the ApplicationDescriptor constructor.
    }
}
throw new NullPointerException("Application ID must not be null!");
}

this.pid = applicationId;
try {
delegate = new Delegate();
delegate.setApplicationDescriptor(this, applicationId);
} catch (Exception e) {
    // Too bad ...
    e.printStackTrace();
    System.err.println("No implementation available for ApplicationDescriptor, property is: " + Delegate.cName);
}
}

/**
 * Returns the identifier of the represented application.
 * @return the identifier of the represented application
 */
public final String getApplicationId() {
    return pid;
}

/**
 * This method verifies whether the specified [@code pattern] matches the
 * Distinguished Names of any of the certificate chains used to authenticate
 * this application.
 * @param pattern a pattern for a chain of Distinguished Names. It must not
 * be null.
 * @return [@code true] if the specified pattern matches at least one of the
 * certificate chains used to authenticate this application
 * @throws NullPointerException if the specified [@code pattern] is null.
 * @throws IllegalStateException if the application descriptor was
 * unregistered
 */
public abstract boolean matchDNChain(String pattern);
* The return value contains the locale aware and unaware properties as well. The returned \{@code Map\} will include the service properties of this \{@code ApplicationDescriptor\} as well.

* <p>
* This method will call the \{@code getPropertiesSpecific\} method to enable the container implementation to insert application model and/or container implementation specific properties.
* <p>
* The returned \{@link java.util.Map\} will contain the standard OSGi service properties as well (e.g. service.id, service.vendor etc.) and specialized application descriptors may offer further service properties. The returned Map contains a snapshot of the properties. It will not reflect further changes in the property values nor will the update of the Map change the corresponding service property.
* <p>
* @param locale the locale string, it may be null, the value null means the default locale. If the provided locale is the empty String ( \{@code ""\} then raw (non-localized) values are returned.
* <p>
* @return copy of the service properties of this application descriptor service, according to the specified locale. If locale is null then the default locale's properties will be returned. (Since service properties are always exist it cannot return null.)
* <p>
* @throws IllegalStateException if the application descriptor is unregistered
* <p>

public final Map getProperties(String locale) {
Map props = getPropertiesSpecific(locale);

/* currently the ApplicationDescriptor manages the load/save of locking */
boolean isLocked = delegate.isLocked(); // the real locking state
Boolean containerLocked = (Boolean) props.remove(APPLICATION_LOCKED);
if (containerLocked != null && containerLocked.booleanValue() != isLocked) {
try {
if (isLocked) /* if the container's information is not correct */
lockSpecific(); /*
* about the locking state (after loading
* the lock states)
*/
else
unlockSpecific();
} catch (Exception e) {
}
}
/*
* replace the container's lock with the application model's lock,
* that's the correct
props.put(APPLICATION_LOCKED, new Boolean(isLocked));
return props;

/**
 * Container implementations can provide application model specific and/or
 * container implementation specific properties via this method.
 *
 * Localizable properties must be returned localized if the provided
 * {@code locale} argument is not the empty String. The value {@code null}
 * indicates to use the default locale, for other values the specified
 * locale should be used.
 *
 * The returned {link java.util.Map} must contain the standard OSGi service
 * properties as well (e.g. service.id, service.vendor etc.) and specialized
 * application descriptors may offer further service properties. The
 * returned {link java.util.Map} contains a snapshot of the properties. It will not
 * reflect further changes in the property values nor will the update of the
 * Map change the corresponding service property.
 *
 * {param locale} the locale to be used for localizing the properties. If
 * {code null} the default locale should be used. If it is the empty
 * String ({code ""}) then raw (non-localized) values should be
 * returned.
 *
 * {return} the application model specific and/or container implementation
 * specific properties of this application descriptor.
 *
 * {throws} IllegalStateException if the application descriptor is
 * unregistered
 */
protected abstract Map getPropertiesSpecific(String locale);

/**
 * Launches a new instance of an application. The {code args} parameter
 * specifies the startup parameters for the instance to be launched, it may
 * be null.
 * {p}
 * The following steps are made:
 * {ul}
 * {li}Check for the appropriate permission.</li>
 * {li}Check the locking state of the application. If locked then throw an
 * {link ApplicationException} with the reason code
 * {link Application#APPLICATION_LOCKED}.</li>
 * {li}Calls the {code launchSpecific()} method to create and start an
 * application instance.</li>
 * {li}Returns the {code ApplicationHandle} returned by the

* launchSpecific()</li>
* </ul>
* The caller has to have ApplicationAdminPermission(applicationPID,
* "launch") in order to be able to perform this operation.
* <p>
* The \{@code Map\} argument of the launch method contains startup arguments
* for the application. The keys used in the Map must be non-null, non-empty
* \{@code String\} objects. They can be standard or application specific.
* OSGi defines the \{@code org.osgi.triggeringevent\} key to be used to pass
* the triggering event to a scheduled application, however in the future it
* is possible that other well-known keys will be defined. To avoid unwanted
* clashes of keys, the following rules should be applied:
* <ul>
* <li>The keys starting with the dash (-) character are application
* specific, no well-known meaning should be associated with them.</li>
* <li>Well-known keys should follow the reverse domain name based naming.
* In particular, the keys standardized in OSGi should start with
* \{@code org.osgi.\}.</li>
* </ul>
* <p>
* The method is synchronous, it return only when the application instance
* was successfully started or the attempt to start it failed.
* <p>
* This method never returns \{@code null\}. If launching an application
* fails, the appropriate exception is thrown.
* *
* \@param arguments Arguments for the newly launched application, may be
* null
* *
* \@return the registered ApplicationHandle, which represents the newly
* launched application instance. Never returns \{@code null\}.
* *
* \@throws SecurityException if the caller doesn't have "lifecycle"
* \@throws ApplicationAdminPermission for the application.
* \@throws ApplicationException if starting the application failed
* \@throws IllegalStateException if the application descriptor is
* unregistered
* \@throws IllegalArgumentException if the specified \{@code Map\} contains
* invalid keys (null objects, empty \{@code String\} or a key that is
* not \{@code String\})
*/

```java
public final ApplicationHandle launch(Map arguments) throws ApplicationException {
    try {
        delegate.launch(arguments);
    } catch (SecurityException se) {
        isLaunchableSpecific(); /* check whether the bundle was uninstalled */
    /* if yes, throws IllegalStateException */
    throw se; /* otherwise throw the caught SecurityException */
```
if (!isLaunchableSpecific())
throw new ApplicationException(ApplicationException.APPLICATION_NOT_LAUNCHABLE, "Cannot launch the application!");
try {
return launchSpecific(arguments);
} catch (IllegalStateException ise) {
throw ise;
} catch (SecurityException se) {
throw se;
} catch (ApplicationException ae) {
throw ae;
} catch (Exception t) {
throw new ApplicationException(ApplicationException.APPLICATION_INTERNAL_ERROR, t);
}

/**
 * Called by launch() to create and start a new instance in an application model specific way. It also creates and registers the application handle to represent the newly created and started instance and registers it. The method is synchronous, it return only when the application instance was successfully started or the attempt to start it failed.
 * <p>
 * This method must not return {@code null}. If launching the application failed, and exception must be thrown.
 * <p>
 * @param arguments the startup parameters of the new application instance, may be null
 * @return the registered application model specific application handle for the newly created and started instance.
 * @throws IllegalStateException if the application descriptor is unregistered
 * @throws Exception if any problem occurs.
 */
protected abstract ApplicationHandle launchSpecific(Map arguments) throws Exception;

/**
 * This method is called by launch() to verify that according to the container, the application is launchable.
 * @return true, if the application is launchable according to the container, false otherwise.
 * @throws IllegalStateException if the application descriptor is unregistered
protected abstract boolean isLaunchableSpecific();

/**
 * Schedules the application at a specified event. Schedule information
 * should not get lost even if the framework or the device restarts so it
 * should be stored in a persistent storage. The method registers a
 * [@link ScheduledApplication] service in Service Registry, representing
 * the created schedule.
 * <p>
 * The { @code Map} argument of the method contains startup arguments for the
 * application. The keys used in the Map must be non-null, non-empty
 * { @code String} objects. The argument values must be of primitive types,
 * wrapper classes of primitive types, { @code String} or arrays or
 * collections of these.
 * <p>
 * The created schedules have a unique identifier within the scope of this
 * { @code ApplicationDescriptor}. This identifier can be specified in the
 * { @code scheduleId} argument. If this argument is { @code null}, the
 * identifier is automatically generated.
 * 
 * @param scheduleId the identifier of the created schedule. It can be
 *        { @code null}, in this case the identifier is automatically
 *        generated.
 * @param arguments the startup arguments for the scheduled application, may
 *        be null
 * @param topic specifies the topic of the triggering event, it may contain
 *        a trailing asterisk as wildcard, the empty string is treated as
 *        ", must not be null
 * @param eventFilter specifies and LDAP filter to filter on the properties
 *        of the triggering event, may be null
 * @param recurring if the recurring parameter is false then the application
 *        will be launched only once, when the event firstly occurs. If the
 *        parameter is true then scheduling will take place for every event
 *        occurrence; i.e. it is a recurring schedule
 * 
 * @return the registered scheduled application service
 * 
 * @throws NullPointerException if the topic is { @code null}
 * @throws InvalidSyntaxException if the specified { @code eventFilter} is
 *        not syntactically correct
 * @throws ApplicationException if the schedule couldn't be created. The
 *        possible error codes are
 *        <ul>
 *        <li>
 *        [ @link ApplicationException#APPLICATION_DUPLICATE_SCHEDULE_ID] if
 *        the specified { @code scheduleId} is already used for this
 *        </li>
 *        </ul>
* {@link ApplicationException#APPLICATION_SCHEDULING_FAILED} if the
* scheduling failed due to some internal reason (e.g. persistent
* storage error).</li> <li>
* {@link ApplicationException#APPLICATION_INVALID_STARTUP_ARGUMENT}
* if the specified startup argument doesn't satisfy the type or
* value constraints of startup arguments.</li>
* </ul>
* @throws SecurityException if the caller doesn't have "schedule"
* ApplicationAdminPermission for the application.
* @throws IlleagalStateException if the application descriptor is
* unregistered
* @throws IlleagalArgumentException if the specified {@code Map} contains
* invalid keys (null objects, empty {@code String} or a key that is
* not {@code String})
*/
public final ScheduledApplication schedule(String scheduleId, Map arguments, String topic, String eventFilter,
boolean recurring) throws InvalidSyntaxException, ApplicationException {
    isLaunchableSpecific(); // checks if the ApplicationDescriptor was
    // already unregistered
    try {
        return delegate.schedule(scheduleId, arguments, topic, eventFilter, recurring);
    } catch (SecurityException se) {
        isLaunchableSpecific(); /* check whether the bundle was uninstalled */
        /* if yes, throws IlleagalStateException */
        throw se; /* otherwise throw the caught SecurityException */
    }
}

/**
* Sets the lock state of the application. If an application is locked then
* launching a new instance is not possible. It does not affect the already
* launched instances.
* @throws SecurityException if the caller doesn't have "lock"
* ApplicationAdminPermission for the application.
* @throws IlleagalStateException if the application descriptor is
* unregistered
*/
public final void lock() {
    try {
        delegate.lock();
    } catch (SecurityException se) {
        isLaunchableSpecific(); /* check whether the bundle was uninstalled */
        /* if yes, throws IlleagalStateException */
        throw se; /* otherwise throw the caught SecurityException */
    }
    lockSpecific();
}
/**
 * This method is used to notify the container implementation that the
 * corresponding application has been locked and it should update the
 * [@code application.locked] service property accordingly.
 *
 * @throws IllegalStateException if the application descriptor is
 *         unregistered
 */
protected abstract void lockSpecific();

/**
 * Unsets the lock state of the application.
 *
 * @throws SecurityException if the caller doesn't have "lock"
 *         ApplicationAdminPermission for the application.
 * @throws IllegalStateException if the application descriptor is
 *         unregistered
 */
public final void unlock() {
    try {
        delegate.unlock();
    } catch (SecurityException se) {
        isLaunchableSpecific(); /* check whether the bundle was uninstalled */
        /* if yes, throws IllegalStateException */
        throw se; /* otherwise throw the catched SecurityException */
    }
    unlockSpecific();
}

/**
 * This method is used to notify the container implementation that the
 * corresponding application has been unlocked and it should update the
 * [@code application.locked] service property accordingly.
 *
 * @throws IllegalStateException if the application descriptor is
 *         unregistered
 */
protected abstract void unlockSpecific();

Delegate delegate;

/**
 * This class will load the class named by the
 * org.osgi.vendor.application.ApplicationDescriptor and delegate method
 * calls to an instance of the class.
 */
static class Delegate {
static String cName;
static Class implementation;
static Method setApplicationDescriptor;
static Method isLocked;
static Method lock;
static Method unlock;
static Method schedule;
static Method launch;

static {
    AccessController.doPrivileged(new PrivilegedAction() {
        public Object run() {
            cName = System.getProperty("org.osgi.vendor.application.ApplicationDescriptor");
            if (cName == null) {
                throw new NoClassDefFoundError("org.osgi.vendor.application.ApplicationDescriptor property must be set");
            }

            try {
                implementation = Class.forName(cName);
            } catch (ClassNotFoundException e) {
                throw new NoClassDefFoundError(e.toString());
            }

            try {
                setApplicationDescriptor = implementation.getMethod("setApplicationDescriptor", new Class[] {ApplicationDescriptor.class, String.class});
                isLocked = implementation.getMethod("isLocked", new Class[] {});
                lock = implementation.getMethod("lock", new Class[] {});
                unlock = implementation.getMethod("unlock", new Class[] {});
                schedule = implementation.getMethod("schedule", new Class[] {String.class, Map.class, String.class, String.class, boolean.class});
                launch = implementation.getMethod("launch", new Class[] {Map.class});
            } catch (NoSuchMethodException e) {
                throw new NoSuchMethodError(e.toString());
            }

            return null;
        }
    });
}

Object target;

Delegate() throws Exception {
    target = AccessController.doPrivileged(new PrivilegedExceptionAction() {
        public Object run() throws Exception {
            return implementation.newInstance();
        }
    });
}
void setApplicationDescriptor(ApplicationDescriptor d, String pid) {
    try {
        try {
            setApplicationDescriptor.invoke(target, new Object[] {d, pid});
        } catch (InvocationTargetException e) {
            throw e.getTargetException();
        }
    } catch (Error e) {
        throw e;
    } catch (RuntimeException e) {
        throw e;
    } catch (Throwable e) {
        throw new RuntimeException(e);
    }
}

boolean isLocked() {
    try {
        try {
            return ((Boolean) isLocked.invoke(target, new Object[] {})).booleanValue();
        } catch (InvocationTargetException e) {
            throw e.getTargetException();
        }
    } catch (Error e) {
        throw e;
    } catch (RuntimeException e) {
        throw e;
    } catch (Throwable e) {
        throw new RuntimeException(e);
    }
}

void lock() {
    try {
        try {
            lock.invoke(target, new Object[] {});
        } catch (InvocationTargetException e) {
            throw e.getTargetException();
        }
    } catch (Error e) {
        throw e;
    } catch (RuntimeException e) {
        throw e;
    } catch (Throwable e) {
        throw new RuntimeException(e);
    }
}
```java
void unlock() {
    try {
        try {
            unlock.invoke(target, new Object[] {});
        } catch (InvocationTargetException e) {
            throw e.getTargetException();
        }
    } catch (Error e) {
        throw e;
    } catch (RuntimeException e) {
        throw e;
    } catch (Throwable e) {
        throw new RuntimeException(e);
    }
}

ScheduledApplication schedule(String scheduleId, Map args, String topic, String filter, boolean recurs) throws
InvalidSyntaxException, ApplicationException {
    try {
        try {
            return (ScheduledApplication) schedule.invoke(target, new Object[] {scheduleId, args, topic, filter, new
            Boolean(recurs)});
        } catch (InvocationTargetException e) {
            throw e.getTargetException();
        }
    } catch (InvalidSyntaxException e) {
        throw e;
    } catch (ApplicationException e) {
        throw e;
    } catch (Error e) {
        throw e;
    } catch (RuntimeException e) {
        throw e;
    } catch (Throwable e) {
        throw new RuntimeException(e);
    }
}

void launch(Map arguments) throws ApplicationException {
    try {
        try {
            launch.invoke(target, new Object[] {arguments});
        } catch (InvocationTargetException e) {
            throw e.getTargetException();
        }
    } catch (Exception e) {
        throw e;
    }
}
```
open source used in WAE 6.3

```java
} catch (ApplicationException e) {
    throw e;
} catch (Error e) {
    throw e;
} catch (RuntimeException e) {
    throw e;
} catch (Throwable e) {
    throw new RuntimeException(e);
}

} /*
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 */

package org.osgi.service.application;

/**
 * This exception is used to indicate problems related to application lifecycle
 * management.
 *
 * {code ApplicationException} object is created by the Application Admin to
 * denote an exception condition in the lifecycle of an application.
 * {code ApplicationException}s should not be created by developers.
 * {code ApplicationException}s are associated with an error code. This code
 * describes the type of problem reported in this exception. The possible codes
 * are:
 * <ul>
 *     <li> {code APPLICATION_LOCKED} - The application couldn't be launched
 *         because it is locked.</li>
 *     <li> {code APPLICATION_NOT_LAUNCHABLE} - The application is not in
 *         launchable state.</li>
 *     <li> {code APPLICATION_INTERNAL_ERROR} - An exception was thrown by the
 *         application or its container during launch.</li>
 * </ul>
 */
* <li> {@link #APPLICATION_SCHEDULING_FAILED} - The scheduling of an application failed.</li>
* <li> {@link #APPLICATION_DUPLICATE_SCHEDULE_ID} - The application scheduling failed because the specified identifier is already in use.</li>
* <li> {@link #APPLICATION_EXITVALUE_NOT_AVAILABLE} - The exit value is not available for an application instance because the instance has not terminated.</li>
* <li> {@link #APPLICATION_INVALID_STARTUP_ARGUMENT} - One of the specified startup arguments is invalid, for example its type is not permitted.</li>

* @author $Id: 5f2542a639033d6c4f85feaf1cbe7f1f0a9d892f$
*
public class ApplicationException extends Exception {
private static final long serialVersionUID = -7173190453622508207L;
private final int errorCode;

/**
 * The application couldn't be launched because it is locked.
 */
public static final int APPLICATION_LOCKED = 0x01;

/**
 * The application is not in launchable state, it's
 * {@link ApplicationDescriptor#APPLICATION_LAUNCHABLE} attribute is false.
 */
public static final int APPLICATION_NOT_LAUNCHABLE = 0x02;

/**
 * An exception was thrown by the application or the corresponding container
 * during launch. The exception is available from {@code getCause()}. 
 */
public static final int APPLICATION_INTERNAL_ERROR = 0x03;

/**
 * The application schedule could not be created due to some internal error
 * (for example, the schedule information couldn't be saved due to some
 * storage error).
 */
public static final int APPLICATION_SCHEDULING_FAILED = 0x04;

/**
 * The application scheduling failed because the specified identifier is
 * already in use.
 */
public static final int APPLICATION_DUPLICATE_SCHEDULE_ID = 0x05;

/**
* The exit value is not available for an application instance because the
* instance has not terminated.
*  
* @since 1.1
*/
public static final int APPLICATION_EXITVALUE_NOT_AVAILABLE = 0x06;

/**
 * One of the specified startup arguments is invalid, for example its type
 * is not permitted.
 *  
* @since 1.1
*/
public static final int APPLICATION_INVALID_STARTUP_ARGUMENT = 0x07;

/**
 * Creates an {@code ApplicationException} with the specified error code.
 *  
* @param errorCode The code of the error
 */
public ApplicationException(int errorCode) {
    super();
    this.errorCode = errorCode;
}

/**
 * Creates a {@code ApplicationException} that wraps another exception.
 *  
* @param errorCode The code of the error
* @param cause The cause of this exception.
 */
public ApplicationException(int errorCode, Throwable cause) {
    super(cause);
    this.errorCode = errorCode;
}

/**
 * Creates an {@code ApplicationException} with the specified error code.
 *  
* @param errorCode The code of the error
* @param message The associated message
 */
public ApplicationException(int errorCode, String message) {
    super(message);
    this.errorCode = errorCode;
}
* Creates a {@code ApplicationException} that wraps another exception.
* 
* @param errorCode The code of the error
* @param message The associated message.
* @param cause The cause of this exception.
*/

public ApplicationException(int errorCode, String message, Throwable cause) {
    super(message, cause);
    this.errorCode = errorCode;
}

/**
 * Returns the cause of this exception or {@code null} if no cause was set.
 *
 * @return The cause of this exception or {@code null} if no cause was set.
 */

public Throwable getCause() {
    return super.getCause();
}

/**
 * Returns the error code associated with this exception.
 *
 * @return The error code of this exception.
 */

public int getErrorCode() {
    return errorCode;
}

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 */

package org.osgi.service.application;

import java.lang.reflect.InvocationTargetException;
import java.security.AccessController;
import java.security.PrivilegedAction;
import java.security.PrivilegedExceptionAction;
import org.osgi.framework.Constants;

/**
 * ApplicationHandle is an OSGi service interface which represents an instance
 * of an application. It provides the functionality to query and manipulate the
 * lifecycle state of the represented application instance. It defines constants
 * for the lifecycle states.
 * 
 * @author $Id: 4a9c1d6258e03ce4eb1a26748bcco783661a8244 $
 */
public abstract class ApplicationHandle {

/**
 * NOTE: An implementor may also choose to replace this class in their
 * distribution with a class that directly interfaces with the
 * org.osgi.service.application implementation. This replacement class MUST
 * NOT alter the public/protected signature of this class.
 */

/**
 * The property key for the unique identifier (PID) of the application
 * instance.
 */
public static final String APPLICATION_PID = Constants.SERVICE_PID;

/**
 * The property key for the pid of the corresponding application descriptor.
 */
public final static String APPLICATION_DESCRIPTOR = "application.descriptor";

/**
 * The property key for the state of this application instance.
 */
public final static String APPLICATION_STATE = "application.state";

/**
 * The property key for the supports exit value property of this application
 * instance.
 *
 * @since 1.1
 */
public final static String APPLICATION_SUPPORTS_EXITVALUE = "application.supports.exitvalue";

/**
 * The application instance is running. This is the initial state of a newly
 * running instance.
 */
public final static String RUNNING = "RUNNING";

/**
 * The application instance is being stopped. This is the state of the
 * application instance during the execution of the {@code destroy()} method.
 */
public final static String STOPPING = "STOPPING";

private final String instanceId;
private final ApplicationDescriptor descriptor;

/**
 * Application instance identifier is specified by the container when the
 * instance is created. The instance identifier must remain static for the
 * lifetime of the instance, it must remain the same even across framework
 * restarts for the same application instance. This value must be the same
 * as the {@code service.pid} service property of this application handle.
 *<p>
 * The instance identifier should follow the following scheme:
 * &lt;i&gt;application descriptor PID&lt;/i&gt;.&lt;i&gt;index&lt;/i&gt;&lt;/p&gt; where
 * &lt;i&gt;application descriptor PID&lt;/i&gt; is the PID of the corresponding
 * {@code ApplicationDescriptor} and &lt;i&gt;index&lt;/i&gt; is a unique
 * integer index assigned by the application container. Even after
 * destroying the application index the same index value should not be
 * reused in a reasonably long timeframe.
 *
 * @param instanceId the instance identifier of the represented application
 * instance. It must not be null.
 *
 * @param descriptor the {@code ApplicationDescriptor} of the represented
 * application instance. It must not be null.
 *
 * @throws NullPointerException if any of the arguments is null.
 */
protected ApplicationHandle(String instanceId, ApplicationDescriptor descriptor) {
    if ((null == instanceId) || (null == descriptor)) {
        throw new NullPointerException("Parameters must not be null!");
    }

    this.instanceId = instanceId;
    this.descriptor = descriptor;

    try {
        delegate = new Delegate();
    }
delegate.setApplicationHandle(this, descriptor.delegate);
} catch (Exception e) {
    // Too bad ...
    e.printStackTrace();
    System.err.println("No implementation available for ApplicationDescriptor, property is: " + Delegate.cName);
}

/**
 * Retrieves the {code ApplicationDescriptor} to which this
 * {code ApplicationHandle} belongs.
 *
 * @return The corresponding {code ApplicationDescriptor}
 */
public final ApplicationDescriptor getApplicationDescriptor() {
    return descriptor;
}

/**
 * Get the state of the application instance.
 *
 * @return the state of the application.
 *
 * @throws IllegalStateException if the application handle is unregistered
 */
public abstract String getState();

/**
 * Returns the exit value for the application instance. The timeout
 * specifies how the method behaves when the application has not yet
 * terminated. A negative, zero or positive value may be used.
 *
 * @ul
 * @li negative - The method does not wait for termination. If the
 * application has not terminated then an {code ApplicationException} is
 * thrown.
 * @li zero - The method waits until the application terminates.
 * @li positive - The method waits until the application terminates or the
 * timeout expires. If the timeout expires and the application has not
 * terminated then an {code ApplicationException} is thrown.
 * @ul
 *
 * The default implementation throws an
 * {code UnsupportedOperationException}. The application model should
 * override this method if exit values are supported.
 */

* @param timeout The maximum time in milliseconds to wait for the
  * application to timeout.
* @return The exit value for the application instance. The value is
  * application specific.
* @throws UnsupportedOperationException If the application model does not
  * support exit values.
* @throws InterruptedException If the thread is interrupted while waiting
  * for the timeout.
* @throws ApplicationException If the application has not terminated. The
  * error code will be
  * [ @link ApplicationException#APPLICATION_EXITVALUE_NOT_AVAILABLE].
* @since 1.1
  */
public Object getExitValue(long timeout) throws ApplicationException, InterruptedException {
  throw new UnsupportedOperationException();
}

/**
 * Returns the unique identifier of this instance. This value is also
 * available as a service property of this application handle's service.pid.
 *
 * @return the unique identifier of the instance
 */
public final String getInstanceId() {
  return instanceId;
}

/**
 * The application instance's lifecycle state can be influenced by this
 * method. It lets the application instance perform operations to stop the
 * application safely, e.g. saving its state to a permanent storage.
 * <p>
 * The method must check if the lifecycle transition is valid; a STOPPING
 * application cannot be stopped. If it is invalid then the method must
 * exit. Otherwise the lifecycle state of the application instance must be
 * set to STOPPING. Then the destroySpecific() method must be called to
 * perform any application model specific steps for safe stopping of the
 * represented application instance.
 * <p>
 * At the end the [ @code ApplicationHandle] must be unregistered. This
 * method should free all the resources related to this
 * [ @code ApplicationHandle].
 * <p>
 * When this method is completed the application instance has already made
 * its operations for safe stopping, the ApplicationHandle has been
 * unregistered and its related resources has been freed. Further calls on
 * this application should not be made because they may have unexpected
public final void destroy() {
    try {
        delegate.destroy();
    } catch (SecurityException se) {
        descriptor.isLaunchableSpecific(); /*
         * check whether the bundle was
         * uninstalled
        */
        /* if yes, throws IllegalStateException */
        throw se; /* otherwise throw the caught SecurityException */
    }
    destroySpecific();
}

/**
 * Called by the destroy() method to perform application model specific
 * steps to stop and destroy an application instance safely.
 */
protected abstract void destroySpecific();

Delegate delegate;

/**
 * This class will load the class named by the
 * org.osgi.vendor.application.ApplicationHandle and delegate method calls
 * to an instance of the class.
 */
static class Delegate {
    static String cName;
    static Class implementation;
    static Method setApplicationHandle;
    static Method destroy;
    static {
        AccessController.doPrivileged(new PrivilegedAction() {
            public Object run() {
                cName = System.getProperty("org.osgi.vendor.application.ApplicationHandle");
                if (cName == null) {
throw new NoClassDefFoundError("org.osgi.vendor.application.ApplicationHandle property must be set");
}

try {
    implementation = Class.forName(cName);
} catch (ClassNotFoundException e) {
    throw new NoClassDefFoundError(e.toString());
}

try {
    setApplicationHandle = implementation.getMethod("setApplicationHandle", new Class[]{ApplicationHandle.class, Object.class});
    destroy = implementation.getMethod("destroy", new Class[] {});
} catch (NoSuchMethodException e) {
    throw new NoSuchMethodError(e.toString());
}

return null;
);
);

Object target;

Delegate() throws Exception {
    target = AccessController.doPrivileged(new PrivilegedExceptionAction() {
        public Object run() throws Exception {
            return implementation.newInstance();
        }
    });
}

void setApplicationHandle(ApplicationHandle d, ApplicationDescriptor.Delegate descriptor) {
    try {
        try {
            setApplicationHandle.invoke(target, new Object[] {d, descriptor.target});
        } catch (InvocationTargetException e) {
            throw e.getTargetException();
        }
    } catch (Error e) {
        throw e;
    } catch (RuntimeException e) {
        throw e;
    } catch (Throwable e) {
        throw new RuntimeException(e);
    }
}
void destroy() {
try {
try {
    destroy.invoke(target, new Object[]{})
} catch (InvocationTargetException e) {
    throw e.getTargetException();
}
} catch (Error e) {
    throw e;
} catch (RuntimeException e) {
    throw e;
} catch (Throwable e) {
    throw new RuntimeException(e);
}

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 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
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 * limitations under the License.
 */

package org.osgi.service.application;

import java.util.Map;

/**
 * It is allowed to schedule an application based on a specific event.
 * ScheduledApplication service keeps the schedule information. When the
 * specified event is fired a new instance must be launched. Note that launching
 * operation may fail because e.g. the application is locked.
 * <p>
 * Each [code ScheduledApplication] instance has an identifier which is unique
 * within the scope of the application being scheduled.
 * <p>
 * [code ScheduledApplication] instances are registered as services. The
 * [link APPLICATION_PID] service property contains the PID of the application
 */
* being scheduled, the {@link #SCHEDULE_ID} service property contains the
* schedule identifier.
*
* @author $Id: 69c9a4995399ff1619ec236dcb9ae2553a12d1ae $
*/
public interface ScheduledApplication {

/**
 * The property key for the identifier of the application being scheduled.
 */
public static final String APPLICATION_PID = ApplicationDescriptor.APPLICATION_PID;

/**
 * The property key for the schedule identifier. The identifier is unique
 * within the scope of the application being scheduled.
 */
public static final String SCHEDULE_ID = "schedule.id";

/**
 * The key for the startup argument used to pass the event object that
 * triggered the schedule to launch the application instance. The event is
 * passed in a {@link java.security.GuardedObject} protected by the
 * corresponding {@link org.osgi.service.event.TopicPermission}.
 */
public static final String TRIGGERING_EVENT = "org.osgi.triggeringevent";

/**
 * The topic name for the virtual timer topic. Time based schedules should
 * be created using this topic.
 */
public static final String TIMER_TOPIC = "org/osgi/application/timer";

/**
 * The name of the <i>year</i> attribute of a virtual timer event. The value
 * is defined by {@link java.util.Calendar#YEAR}.
 */
public static final String YEAR = "year";

/**
 * The name of the <i>month</i> attribute of a virtual timer event. The
 * value is defined by {@link java.util.Calendar#MONTH}.
 */
public static final String MONTH = "month";

/**
 * The name of the <i>day of month</i> attribute of a virtual timer event.
 * The value is defined by {@link java.util.Calendar#DAY_OF_MONTH}.
 */
public static final String DAY_OF_MONTH = "day_of_month";

/**
 * The name of the <i>day of week</i> attribute of a virtual timer event.
 * The value is defined by [@link java.util.Calendar.DAY_OF_WEEK].
 */
public static final String DAY_OF_WEEK = "day_of_week";

/**
 * The name of the <i>hour of day</i> attribute of a virtual timer event.
 * The value is defined by [@link java.util.Calendar.HOUR_OF_DAY].
 */
public static final String HOUR_OF_DAY = "hour_of_day";

/**
 * The name of the <i>minute</i> attribute of a virtual timer event. The
 * value is defined by [@link java.util.Calendar.MINUTE].
 */
public static final String MINUTE = "minute";

/**
 * Returns the identifier of this schedule. The identifier is unique within
 * the scope of the application that the schedule is related to.
 *
 * @return the identifier of this schedule
 */
public String getScheduleId();

/**
 * Queries the topic of the triggering event. The topic may contain a
 * trailing asterisk as wildcard.
 *
 * @return the topic of the triggering event
 *
 * @throws IllegalStateException if the scheduled application service is
 *         unregistered
 */
public String getTopic();

/**
 * Queries the event filter for the triggering event.
 *
 * @return the event filter for triggering event
 *
 * @throws IllegalStateException if the scheduled application service is
 *         unregistered
 */
public String getEventFilter();

/**
 * Queries if the schedule is recurring.
 * @return true if the schedule is recurring, otherwise returns false
 * @throws IllegalStateException if the scheduled application service is unregistered
 */
public boolean isRecurring();

/**
 * Retrieves the ApplicationDescriptor which represents the application and necessary for launching.
 * @return the application descriptor that represents the scheduled application
 * @throws IllegalStateException if the scheduled application service is unregistered
 */
public ApplicationDescriptor getApplicationDescriptor();

/**
 * Queries the startup arguments specified when the application was scheduled. The method returns a copy of the arguments, it is not possible to modify the arguments after scheduling.
 * @return the startup arguments of the scheduled application. It may be null if null argument was specified.
 * @throws IllegalStateException if the scheduled application service is unregistered
 */
public Map getArguments();

/**
 * Cancels this schedule of the application.
 * @throws SecurityException if the caller doesn't have "schedule" ApplicationAdminPermission for the scheduled application.
 * @throws IllegalStateException if the scheduled application service is unregistered
 */
public void remove();
}
package org.osgi.service.cm;

import java.io.IOException;
import java.io.ObjectInputStream;
import java.io.ObjectOutputStream;
import java.io.ObjectStreamField;
import java.security.BasicPermission;
import java.security.Permission;
import java.security.PermissionCollection;
import java.util.ArrayList;
import java.util.Collection;
import java.util.Collections;
import java.util.Enumeration;
import java.util.HashMap;
import java.util.List;
import java.util.Map;
import org.osgi.framework.Filter;

/**
 * Indicates a bundle's authority to configure bundles or be updated by
 * Configuration Admin.
 *
 * @ThreadSafe
 * @author $Id: 8d063b34f0b7e467b8bf7ec88e6d42384fdcb7 $
 * @since 1.2
 */

public final class ConfigurationPermission extends BasicPermission {
    static final long serialVersionUID = 5716868734811965383L;

    /**
     * Provides permission to create new configurations for other bundles as
     * well as manipulate them. The action string [ @value #CONFIGURE].
     */
}
public final static String CONFIGURE = "configure";

public final static String TARGET = "target";

private final static int ACTION_CONFIGURE = 0x00000001;
private final static int ACTION_TARGET = 0x00000002;
private final static int ACTION_ALL = ACTION_CONFIGURE | ACTION_TARGET;
final static int ACTION_NONE = 0;

private final static int ACTION_CONFIGURE = 0x00000001;
private final static int ACTION_TARGET = 0x00000002;
private final static int ACTION_ALL = ACTION_CONFIGURE | ACTION_TARGET;
final static int ACTION_NONE = 0;

transient int action_mask;

private volatile String actions = null;

private transient List<String> substrings;

public ConfigurationPermission(String name, String actions) {
    this(name, parseActions(actions));
}
/**
 * Package private constructor used by ConfigurationPermissionCollection.
 *
 * @param name location string
 * @param mask action mask
 */
ConfigurationPermission(String name, int mask) {
    super(name);
    setTransients(mask);
}

/**
 * Called by constructors and when deserialized.
 *
 * @param mask action mask
 */
private void setTransients(int mask) {
    if ((mask == ACTION_NONE) || ((mask & ACTION_ALL) != mask)) {
        throw new IllegalArgumentException("invalid action string");
    }
    action_mask = mask;
    substrings = parseSubstring(getName());
}

/**
 * Parse action string into action mask.
 *
 * @param actions Action string.
 * @return action mask.
 */
private static int parseActions(String actions) {
    if (actions == null) {
        return mask;
    }
    char[] a = actions.toCharArray();
    int i = a.length - 1;
    if (i < 0)
        return mask;
    while (i != -1) {
        char c;
// skip whitespace
while ((i != -1) && ((c = a[i]) == ' ' || c == '' || c == '
' || c == '' || c == '\t'))
i--;

// check for the known strings
int matchlen;

if (i >= 5 && (a[i - 5] == 't' || a[i - 5] == 'T')
    && (a[i - 4] == 'a' || a[i - 4] == 'A')
    && (a[i - 3] == 'r' || a[i - 3] == 'R')
    && (a[i - 2] == 'g' || a[i - 2] == 'G')
    && (a[i - 1] == 'e' || a[i - 1] == 'E')
    && (a[i] == 't' || a[i] == 'T')) {
    matchlen = 6;
    mask |= ACTION_TARGET;
} else
if (i >= 8 && (a[i - 8] == 'c' || a[i - 8] == 'C')
    && (a[i - 7] == 'o' || a[i - 7] == 'O')
    && (a[i - 6] == 'n' || a[i - 6] == 'N')
    && (a[i - 5] == 'f' || a[i - 5] == 'F')
    && (a[i - 4] == 'i' || a[i - 4] == 'I')
    && (a[i - 3] == 'g' || a[i - 3] == 'G')
    && (a[i - 2] == 'u' || a[i - 2] == 'U')
    && (a[i - 1] == 'r' || a[i - 1] == 'R')
    && (a[i] == 'e' || a[i] == 'E')) {
    matchlen = 9;
    mask |= ACTION_CONFIGURE;
} else {
    // parse error
    throw new IllegalArgumentException("invalid actions: "+ actions);
}

// make sure we didn't just match the tail of a word
// like "ackbarftarget". Also, skip to the comma.
seencomma = false;
while (i >= matchlen && !seencomma) {
    switch (a[i - matchlen]) {
    case ',' :
        seencomma = true;
        /* FALLTHROUGH */
    case ' ' :
    case '' :
    case '
' :
    case '' :
    case '\t' :
        break;
default:
throw new IllegalArgumentException("invalid permission: "+actions);
}
i--;
}

// point i at the location of the comma minus one (or -1).
i -= matchlen;
}

if (seencomma) {
throw new IllegalArgumentException("invalid actions: "+actions);
}

return mask;
}

/**
 * Parse the name for wildcard processing.
 * @param name The name of the permission.
 * @return null is the name has no wildcards or a
 * List<String> where element is a substring to match or
 * null for ".*
 */
private static List<String> parseSubstring(String name) {
    if (name.indexOf('*') < 0) {
        return null;
    }
    char[] chars = name.toCharArray();
    StringBuffer sb = new StringBuffer(chars.length);
    List<String> sub = new ArrayList<String>(10);
    for (int pos = 0; pos < chars.length; pos++) {
        char c = chars[pos];
        switch (c) {
            case '*':
                if (sb.length() > 0) {
                    sub.add(sb.toString());
                }
                sb.setLength(0);
                sub.add(null);
                break;
            case '\':
                break;
            default:
                sb.append(c);
        }
    }
    return sub;
}
pos++;
if (pos < chars.length) {
c = chars[pos];
} /* fall through into default */
}

default : {
    sb.append(c);
    break;
}

}

if (sb.length() > 0) {
    sub.add(sb.toString());
}

int size = sub.size();

if (size == 0) {
    return null;
}

if (size == 1) {
    if (sub.get(0) != null) {
        return null;
    }
}

return sub;

/**
 * Determines if a ConfigurationPermission object "implies" the
 * specified permission.
 *
 * @param p The target permission to check.
 * @return true if the specified permission is implied by this
 *         object; false otherwise.
 */

public boolean implies(Permission p) {
    if (!(p instanceof ConfigurationPermission)) {
        return false;
    }
    ConfigurationPermission requested = (ConfigurationPermission) p;
    return implies0(requested, ACTION_NONE);
}
/**
 * Internal implies method. Used by the implies and the permission
 * collection implies methods.
 *
 * @param requested The requested ConfigurationPermission which has already
 * be validated as a proper argument.
 * @param effective The effective actions with which to start.
 * @return {@code true} if the specified permission is implied by this
 * object; {@code false} otherwise.
 */
boolean implies0(ConfigurationPermission requested, int effective) {
  /* check actions first - much faster */
effective |= action_mask;
  final int desired = requested.action_mask;
  if ((effective & desired) != desired) {
    return false;
  }
  String requestedName = requested.getName();
  if (substrings == null) {
    return getName().equals(requestedName);
  }
  for (int i = 0, pos = 0, size = substrings.size(); i < size; i++) {
    String substr = substrings.get(i);
    if (i + 1 < size) /* if this is not that last substr */{
      if (substr == null) /* * */{
        String substr2 = substrings.get(i + 1);
        if (substr2 == null) /* ** */{
          continue; /* ignore first star */
          /* xxx */
          int index = requestedName.indexOf(substr2, pos);
          if (index == -1) {
            return false;
          }
          pos = index + substr2.length();
          if (i + 2 < size) // if there are more
            // substrings, increment
            // over the string we just
            // matched; otherwise need
            // to do the last substr
            // check
            i++;
          } else /* xxx */{
            int len = substr.length();
            if (requestedName.regionMatches(pos, substr, 0, len)) {
              pos += len;
            }
          }
        }
      }
    }
  }
}
} else {
  return false;
} 

else /* last substr */{
  if (substr == null) /* * */{
    return true;
  }
  /* xxx */
  return requestedName.endsWith(substr);
}

return false;

/**
 * Determines the equality of two [@code ConfigurationPermission] objects.
 * <p>
 * Two [@code ConfigurationPermission] objects are equal.
 * *
 * @param obj The object being compared for equality with this object.
 * @return {@code true} if [@code obj] is equivalent to this
 *         {@code ConfigurationPermission}; {@code false} otherwise.
 */
public boolean equals(Object obj) {
  if (obj == this) {
    return true;
  }
  if (!(obj instanceof ConfigurationPermission)) {
    return false;
  }
  ConfigurationPermission cp = (ConfigurationPermission) obj;

  return (action_mask == cp.action_mask) && getName().equals(cp.getName());
}

/**
 * Returns the hash code value for this object.
 *
 * @return Hash code value for this object.
 */
public int hashCode() {
  int h = 31 * 17 + getName().hashCode();
  h = 31 * h + getActions().hashCode();
  return h;
}
return h;
}

/**
 * Returns the canonical string representation of the
 * @{code ConfigurationPermission} actions.
 * *
 * Always returns present @{code ConfigurationPermission} actions in the
 * following order: [@value #CONFIGURE], [@value #TARGET]
 * *
 * @return Canonical string representation of the
 *        @{code ConfigurationPermission} actions.
 */
public String getActions() {
String result = actions;
if (result == null) {
    StringBuffer sb = new StringBuffer();
    boolean comma = false;

    int mask = action_mask;
    if ((mask & ACTION_CONFIGURE) == ACTION_CONFIGURE) {
        sb.append(CONFIGURE);
        comma = true;
    }

    if ((mask & ACTION_TARGET) == ACTION_TARGET) {
        if (comma)
            sb.append(',');
        sb.append(TARGET);
    }

    actions = result = sb.toString();
}

return result;
}

/**
 * Returns a new @{code PermissionCollection} object suitable for storing
 * @{code ConfigurationPermission}s.
 * *
 * @return A new @{code PermissionCollection} object.
 */
public PermissionCollection newPermissionCollection() {
    return new ConfigurationPermissionCollection();
}
/**
 * WriteObject is called to save the state of this permission object to a
 * stream. The actions are serialized, and the superclass takes care of the
 * name.
 */
private synchronized void writeObject(java.io.ObjectOutputStream s) throws IOException {
    // Write out the actions. The superclass takes care of the name
    // call getActions to make sure actions field is initialized
    if (actions == null)
        getActions();
    s.defaultWriteObject();
}

/**
 * readObject is called to restore the state of this permission from a
 * stream.
 */
private synchronized void readObject(java.io.ObjectInputStream s) throws IOException, ClassNotFoundException {
    // Read in the data, then initialize the transients
    s.defaultReadObject();
    setTransients(parseActions(actions));
}

/**
 * Stores a set of ConfigurationPermission permissions.
 * @see java.security.Permission
 * @see java.security.Permissions
 * @see java.security.PermissionCollection
 */
final class ConfigurationPermissionCollection extends PermissionCollection {
    static final long serialVersionUID = -6917638867081695839L;
    
    /**
     * Collection of permissions.
     * @serial
     * @GuardedBy this
     */
    private Map<String, ConfigurationPermission> permissions;

    /**
     * Boolean saying "*" is in the collection.
     * @serial
     * @GuardedBy this
     */
    private boolean all_allowed;
}
/**
 * Creates an empty {@code ConfigurationPermissionCollection} object.
 * *
 */

public ConfigurationPermissionCollection() {
    permissions = new HashMap<String, ConfigurationPermission>();
    all_allowed = false;
}

/**
 * Adds the specified permission to the
 * {@code ConfigurationPermissionCollection}. The key for the hash is the
 * interface name of the service.
 *
 * @param permission The {@code Permission} object to add.
 *
 * @exception IllegalArgumentException If the permission is not an
 *            {@code ConfigurationPermission}.
 *
 * @exception SecurityException If this ConfigurationPermissionCollection
 *            object has been marked read-only.
 *
 */

public void add(Permission permission) {
    if (!(permission instanceof ConfigurationPermission)) {
        throw new IllegalArgumentException("invalid permission: " + permission);
    }
    if (isReadOnly())
        throw new SecurityException("attempt to add a Permission to a " + "readonly PermissionCollection");
    final ConfigurationPermission cp = (ConfigurationPermission) permission;
    final String name = cp.getName();
    synchronized (this) {
        Map<String, ConfigurationPermission> pc = permissions;
        final ConfigurationPermission existing = pc.get(name);
        if (existing != null) {
            final int oldMask = existing.action_mask;
            final int newMask = cp.action_mask;
            if (oldMask != newMask) {
                pc.put(name, new ConfigurationPermission(name, oldMask | newMask));
            }
        } else {
            pc.put(name, cp);
        }
    }
    if (!all_allowed) {

if (name.equals("*")) {
    all_allowed = true;
}
}
}
}

/**
 * Determines if the specified permissions implies the permissions expressed
 * in [ @code permission ].
 *
 * @param permission The Permission object to compare with this
 *         [ @code ConfigurationPermission ] object.
 * @return [ @code true ] if [ @code permission ] is a proper subset of a
 *         permission in the set; [ @code false ] otherwise.
 */
public boolean implies(Permission permission) {
    if (!(permission instanceof ConfigurationPermission)) {
        return false;
    }
    final ConfigurationPermission requested = (ConfigurationPermission) permission;
    int effective = ConfigurationPermission.ACTION_NONE;
    Collection<ConfigurationPermission> perms;
    synchronized (this) {
        Map<String, ConfigurationPermission> pc = permissions;
        /* short circuit if the "*" Permission was added */
        if (all_allowed) {
            ConfigurationPermission cp = pc.get("*");
            if (cp != null) {
                effective |= cp.action_mask;
                final int desired = requested.action_mask;
                if ((effective & desired) == desired) {
                    return true;
                }
            }
        }
        perms = pc.values();
    }
    /* iterate one by one over permissions */
    for (ConfigurationPermission perm : perms) {
        if (perm.implies0(requested, effective)) {
            return true;
        }
    }
    return false;
}
/**
   * Returns an enumeration of all {@code ConfigurationPermission} objects in
   * the container.
   *
   * @return Enumeration of all {@code ConfigurationPermission} objects.
   */
   public synchronized Enumeration<Permission> elements() {
   List<Permission> all = new ArrayList<Permission>(permissions.values());
   return Collections.enumeration(all);
   }

   /* serialization logic */
   private static final ObjectStreamField[] serialPersistentFields = {
   new ObjectStreamField("hasElement", Boolean.TYPE),
   new ObjectStreamField("permissions", HashMap.class),
   new ObjectStreamField("all_allowed", Boolean.TYPE)
   };

   private synchronized void writeObject(ObjectOutputStream out) throws IOException {
   ObjectOutputStream.PutField pfields = out.putFields();
   pfields.put("hasElement", false);
   pfields.put("permissions", permissions);
   pfields.put("all_allowed", all_allowed);
   out.writeFields();
   }

   private synchronized void readObject(java.io.ObjectInputStream in) throws IOException, ClassNotFoundException {
   ObjectInputStream.GetField gfields = in.readFields();
   boolean hasElement = gfields.get("hasElement", false);
   if (hasElement) { // old format
   permissions = new HashMap<String, ConfigurationPermission>();
   permissions.put("*", new ConfigurationPermission("*", ConfigurationPermission.CONFIGURE));
   all_allowed = true;
   } else {
   permissions = (HashMap<String, ConfigurationPermission>) gfields.get("permissions", new HashMap<String,
   ConfigurationPermission>());
   all_allowed = gfields.get("all_allowed", false);
   }
   }

   /*
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*/

package org.osgi.service.component.annotations;

/**
 * Configuration Policy for the {@link Component} annotation.
 * 
 * Controls whether component configurations must be satisfied depending on the
 * presence of a corresponding Configuration object in the OSGi Configuration
 * Admin service. A corresponding configuration is a Configuration object where
 * the PID is the name of the component.
 *
 * @author $Id: 2bb2640aed7d09d30e9ec3f471f6a8ccccfcf3c$
 * @since 1.1
 */

public enum ConfigurationPolicy {
    /**
     * Use the corresponding Configuration object if present but allow the
     * component to be satisfied even if the corresponding Configuration object
     * is not present.
     */
    OPTIONAL("optional"),

    /**
     * There must be a corresponding Configuration object for the component
     * configuration to become satisfied.
     */
    REQUIRE("require"),

    /**
     * Always allow the component configuration to be satisfied and do not use
     * the corresponding Configuration object even if it is present.
     */
    IGNORE("ignore"),

    private final String value;

    ConfigurationPolicy(String value) {
        this.value = value;
    }

    @Override
}
public String toString() {
    return value;
}
}

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 */

package org.osgi.service.component.annotations;

/**
 * Policy for the [@link Reference] annotation.
 *
 * @author $Id: 835125670fa25ca1205beacabb2d4cfa5896fd4 $
 */

public enum ReferencePolicy {
    /**
     * The static policy is the most simple policy and is the default policy. A
     * component instance never sees any of the dynamics. Component
     * configurations are deactivated before any bound service for a reference
     * having a static policy becomes unavailable. If a target service is
     * available to replace the bound service which became unavailable, the
     * component configuration must be reactivated and bound to the replacement
     * service.
     */
    STATIC("static"),
    /**
     * The dynamic policy is slightly more complex since the component
     * implementation must properly handle changes in the set of bound services.
     * With the dynamic policy, SCR can change the set of bound services without
     * deactivating a component configuration. If the component uses the event
     * strategy to access services, then the component instance will be notified
     * of changes in the set of bound services by calls to the bind and unbind
     * methods.
     */
}
DYNAMIC("dynamic");

private final String value;

ReferencePolicy(String value) {
    this.value = value;
}

@Override
public String toString() {
    return value;
}

/*@Override
public String toString() {
    return value;
}
*/

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    * limitations under the License.
    */

package org.osgi.service.component.annotations;

/**
 * Policy option for the [@link Reference] annotation.
 */
@Author $Id: 1023cb41ab8539820d1658af1eb7d08944932353 $
@Since 1.2

public enum ReferencePolicyOption {
    /**
     * The reluctant policy option is the default policy option for both
     * [@link ReferencePolicy#STATIC static] and [@link ReferencePolicy#DYNAMIC dynamic] reference policies. When a new target service for a reference
     * becomes available, references having the reluctant policy option for the
     * static policy or the dynamic policy with a unary cardinality will ignore
     * the new target service. References having the dynamic policy with a
     * multiple cardinality will bind the new target service.
     */
    RELUCTANT("reluctant"),
/**
 * The greedy policy option is a valid policy option for both
 * {@link ReferencePolicy#STATIC static} and {@link ReferencePolicy#DYNAMIC
dynamic} reference policies. When a new target service for a reference
 * becomes available, references having the greedy policy option will bind
 * the new target service.
 */
GREEDY("greedy");

private final String	value;

ReferencePolicyOption(String value) {
    this.value = value;
}

@Override
public String toString() {
    return value;
}

package org.osgi.service.coordinator;

import java.io.IOException;
import java.io.NotSerializableException;
import java.io.ObjectInputStream;
import java.io.ObjectOutputStream;
import java.io.ObjectStreamField;
import java.security.AccessController;
import java.security.BasicPermission;
import java.security.Permission;
import java.security.PermissionCollection;
import java.security.PrivilegedAction;
import java.security.cert.X509Certificate;
import java.util.ArrayList;
import java.util.Collection;
import java.util.Collections;
import java.util.Enumeration;
import java.util.HashMap;
import java.util.List;
import java.util.Map;
import org.osgi.framework.Bundle;
import org.osgi.framework.Filter;
import org.osgi.framework.FrameworkUtil;
import org.osgi.framework.InvalidSyntaxException;

/**
 * A bundle's authority to create or use a {@link Coordination}.
 * <p>
 * {@code CoordinationPermission} has three actions: {code initiate},
 * {code participate} and {code admin}.
 * <p>
 * @ThreadSafe
 * @author $Id: 13aa34eaca5f268a315be475fa8bb7b2718415bd $
 */
public final class CoordinationPermission extends BasicPermission {

private static final long serialVersionUID = 1L;

/**
 * The action string {code initiate}.
 */
public final static String INITIATE = "initiate";

/**
 * The action string {code participate}.
 */
public final static String PARTICIPATE = "participate";

/**
 * The action string {code admin}.
 */
public final static String ADMIN = "admin";

private final static int ACTION_INITIATE = 0x00000001;
private final static int ACTION_PARTICIPATE = 0x00000002;
private final static int ACTION_ADMIN = 0x00000004;
private final static int ACTION_ALL = ACTION_INITIATE | ACTION_PARTICIPATE | ACTION_ADMIN;
final static int ACTION_NONE = 0;

/**
* The actions mask.
* /
    transient int action_mask;

/**
 * The actions in canonical form.
 *
 * @serial
 */
private volatile String actions = null;

/**
 * The bundle used by this CoordinationPermission.
 */
    transient final Bundle bundle;

/**
 * If this CoordinationPermission was constructed with a filter, this holds
 * a Filter matching object used to evaluate the filter in implies.
 */
    transient Filter filter;

/**
 * This map holds the properties of the permission, used to match a filter
 * in implies. This is not initialized until necessary, and then cached in
 * this object.
 */
    private transient volatile Map<String, Object> properties;

/**
 * Creates a new granted { @code CoordinationPermission} object.
 *
 * This constructor must only be used to create a permission that is going
 * to be checked.
 * <p>
 * Examples:
 * <pre>
 * (coordination.name=com.acme.*)
 * (&(signer=\*,o=ACME,c=US)(coordination.name=com.acme.*))
 * (signer=\*,o=ACME,c=US)
 * </pre>
 * <p>
 * When a signer key is used within the filter expression the signer value
 * must escape the special filter chars ('*', ',', '.').
 * <p>
 * The name is specified as a filter expression. The filter gives access to
* the following attributes:
  * <ul>
  * <li>signer - A Distinguished Name chain used to sign the exporting
    bundle. Wildcards in a DN are not matched according to the filter string
    rules, but according to the rules defined for a DN chain.</li>
  * <li>location - The location of the exporting bundle.</li>
  * <li>id - The bundle ID of the exporting bundle.</li>
  * <li>name - The symbolic name of the exporting bundle.</li>
  * <li>coordination.name - The name of the requested coordination.</li>
  * </ul>
* Filter attribute names are processed in a case sensitive manner.

  * @param filter A filter expression. Filter attribute names are processed
    in a case sensitive manner. A special value of {@code "*"} can be
    used to match all coordinations.
  * @param actions [@code admin], [@code initiate] or [@code participate]
    (canonical order).
  * @throws IllegalArgumentException If the filter has an invalid syntax.
*/
public CoordinationPermission(String filter, String actions) {
  this(parseFilter(filter), parseActions(actions));
}

/**
 * Creates a new requested [@code CoordinationPermission] object to be used
 * by the code that must perform [@code checkPermission].
 * [@code CoordinationPermission] objects created with this constructor
 * cannot be added to an [@code CoordinationPermission] permission
 * collection.
 *
 * @param coordinationName The name of the requested Coordination.
 * @param coordinationBundle The bundle which
 *   [@link Coordination#getBundle() created] the requested
 *   Coordination.
 * @param actions [@code admin], [@code initiate] or [@code participate]
 *   (canonical order).
 */
public CoordinationPermission(String coordinationName, Bundle coordinationBundle, String actions) {
  super(coordinationName);
  setTransients(null, parseActions(actions));
  this.bundle = coordinationBundle;
  if (coordinationName == null) {
    throw new NullPointerException("coordinationName must not be null");
  }
  if (coordinationBundle == null) {
    throw new NullPointerException("coordinationBundle must not be null");
  }
}
/**
 * Package private constructor used by CoordinationPermissionCollection.
 *
 * @param filter name filter
 * @param mask action mask
 */
CoordinationPermission(Filter filter, int mask) {
    super((filter == null) ? "*" : filter.toString());
    setTransients(filter, mask);
    this.bundle = null;
}

/**
 * Called by constructors and when deserialized.
 *
 * @param filter Permission's filter or @code null} for wildcard.
 * @param mask action mask
 */
private void setTransients(Filter filter, int mask) {
    this.filter = filter;
    if ((mask == ACTION_NONE) || ((mask & ACTION_ALL) != mask)) {
        throw new IllegalArgumentException("invalid action string");
    }
    this.action_mask = mask;
}

/**
 * Parse action string into action mask.
 *
 * @param actions Action string.
 * @return action mask.
 */
private static int parseActions(String actions) {
    boolean seencomma = false;
    int mask = ACTION_NONE;
    if (actions == null) {
        return mask;
    }
    char[] a = actions.toCharArray();
    int i = a.length - 1;
    if (i < 0)
        return mask;
    for (int j = 0; j < i; j++) {
        char c = a[j];
        boolean isAction = Character.isLetter(c);
        if (isAction) {
            seencomma = true;
            if (c == ',') {
                mask |= (action_mask & ACTION_ALL);
            } else {
                mask &= ~(ACTION_ALL);
            }
        }
    }
    if (!seencomma)
        return mask;
    return (mask | ACTION_ALL);
}
while (i != -1) {
    char c;

    // skip whitespace
    while ((i != -1) && ((c = a[i]) == ' ' || c == '' || c == '
' || c == '' || c == '	'))
        i--;

    // check for the known strings
    int matchlen;

    if (i >= 4 && (a[i - 4] == 'a' || a[i - 4] == 'A') && (a[i - 3] == 'd' || a[i - 3] == 'D') && (a[i - 2] == 'm' || a[i - 2] == 'M') && (a[i - 1] == 'i' || a[i - 1] == 'I') && (a[i] == 'n' || a[i] == 'N')) {
        matchlen = 5;
        mask |= ACTION_ADMIN;
    }
    else
        if (i >= 7 && (a[i - 7] == 'i' || a[i - 7] == 'T') && (a[i - 6] == 'n' || a[i - 6] == 'N') && (a[i - 5] == 'i' || a[i - 5] == 'I') && (a[i - 4] == 't' || a[i - 4] == 'T') && (a[i - 3] == 'i' || a[i - 3] == 'I') && (a[i - 2] == 'a' || a[i - 2] == 'A') && (a[i - 1] == 't' || a[i - 1] == 'T') && (a[i] == 'e' || a[i] == 'E')) {
            matchlen = 8;
            mask |= ACTION_INITIATE;
        }
        else {
            if (i >= 10 && (a[i - 10] == 'p' || a[i - 10] == 'P') && (a[i - 9] == 'a' || a[i - 9] == 'A') && (a[i - 8] == 'r' || a[i - 8] == 'R') && (a[i - 7] == 't' || a[i - 7] == 'T') && (a[i - 6] == 'i' || a[i - 6] == 'I') && (a[i - 5] == 'c' || a[i - 5] == 'C') && (a[i - 4] == 'i' || a[i - 4] == 'I') && (a[i - 3] == 'p' || a[i - 3] == 'P') && (a[i - 2] == 'a' || a[i - 2] == 'A') && (a[i - 1] == 't' || a[i - 1] == 'T') && (a[i] == 'e' || a[i] == 'E')) {
                matchlen = 11;
                mask |= ACTION_PARTICIPATE;
            }
            else {
                // If none of the above conditions are met
                // Additional code can be added here
            }
        }
}
// parse error
throw new IllegalArgumentException("invalid permission: " + actions);

// make sure we didn’t just match the tail of a word
// like "ackbarfadmin". Also, skip to the comma.
seencomma = false;
while (i >= matchlen && !seencomma) {
    switch (a[i - matchlen]) {
        case ',':
            seencomma = true;
            // FALLTHROUGH */
        case ' ':
        case '
' :
        case '\n' :
        case '' :
        case '	' :
            break;
        default :
            throw new IllegalArgumentException("invalid permission: " + actions);
    }
    i--;
}

// point i at the location of the comma minus one (or -1).
i -= matchlen;

if (seencomma) {
    throw new IllegalArgumentException("invalid permission: " + actions);
}

return mask;

/**
 * Parse filter string into a Filter object.
 *
 * @param filterString The filter string to parse.
 * @return a Filter for this bundle.
 * @throws IllegalArgumentException If the filter syntax is invalid.
 */
private static Filter parseFilter(String filterString) {
    filterString = filterString.trim();
    if (filterString.equals("*")) {
        return null;
    }
try {
    return FrameworkUtil.createFilter(filterString);
} catch (InvalidSyntaxException e) {
    IllegalArgumentException iae = new IllegalArgumentException("invalid filter");
    iae.initCause(e);
    throw iae;
}

/**
 * Determines if the specified permission is implied by this object.
 * 
 * This method checks that the filter of the target is implied by the
 * coordination name of this object. The list of
 * CoordinationPermission actions must either match or allow for the
 * list of the target object to imply the target
 * CoordinationPermission action.
 *
 * @param p The requested permission.
 * @return true if the specified permission is implied by this
 *         object; false otherwise.
 */
public boolean implies(Permission p) {
    if (!(p instanceof CoordinationPermission)) {
        return false;
    }
    CoordinationPermission requested = (CoordinationPermission) p;
    if (bundle != null) {
        return false;
    }
    // if requested permission has a filter, then it is an invalid argument
    if (requested.filter != null) {
        return false;
    }
    return implies0(requested, ACTION_NONE);
}

/**
 * Internal implies method. Used by the implies and the permission
 * collection implies methods.
 *
 * @param requested The requested CoordinationPermission which has already
 *        be validated as a proper argument. The requested
 *        CoordinationPermission must not have a filter expression.
 * @param effective The effective actions with which to start.
 * @return true if the specified permission is implied by this
boolean implies0(CoordinationPermission requested, int effective) {
    /* check actions first - much faster */
    effective |= action_mask;
    final int desired = requested.action_mask;
    if ((effective & desired) != desired) {
        return false;
    }
    /* Get filter */
    Filter f = filter;
    if (f == null) {
        // it's "*"
        return true;
    }
    return f.matches(requested.getProperties());
}

/**
 * Returns the canonical string representation of the
 * {CoordinationPermission} actions.
 *
 * Always returns present {CoordinationPermission} actions in the
 * following order: {admin}, {initiate}, {participate}.
 *
 * @return Canonical string representation of the
 *         {CoordinationPermission} actions.
 */
public String getActions() {
    String result = actions;
    if (result == null) {
        StringBuffer sb = new StringBuffer();
        boolean comma = false;
        int mask = action_mask;
        if ((mask & ACTION_ADMIN) == ACTION_ADMIN) {
            sb.append(ADMIN);
            comma = true;
        }
        if ((mask & ACTION_INITIATE) == ACTION_INITIATE) {
            if (comma)
                sb.append(',');
            sb.append(INITIATE);
            comma = true;
        }
        // ...
    }
    return sb.toString();
}
if ((mask & ACTION_PARTICIPATE) == ACTION_PARTICIPATE) {
    if (comma)
        sb.append(');
    sb.append(PARTICIPATE);
    comma = true;
}

actions = result = sb.toString();
}
return result;
}

/**
 * Returns a new [code PermissionCollection] object suitable for storing
 * [code CoordinationPermission] objects.
 *
 * @return A new [code PermissionCollection] object.
 */
public PermissionCollection newPermissionCollection() {
    return new CoordinationPermissionCollection();
}

/**
 * Determines the equality of two [code CoordinationPermission] objects.
 *
 * This method checks that specified permission has the same name and
 * [code CoordinationPermission] actions as this
 * [code CoordinationPermission] object.
 *
 * @param obj The object to test for equality with this
 * [code CoordinationPermission] object.
 * @return [code true] if [code obj] is a [code CoordinationPermission],
 * and has the same name and actions as this
 * [code CoordinationPermission] object; [code false] otherwise.
 */
public boolean equals(Object obj) {
    if (obj == this) {
        return true;
    }
    if (!(obj instanceof CoordinationPermission)) {
        return false;
    }
    CoordinationPermission cp = (CoordinationPermission) obj;

    return (action_mask == cp.action_mask) && getName().equals(cp.getName()) && ((bundle == cp.bundle) ||
    ((bundle != null) && bundle.equals(cp.bundle)));
}
/**
 * Returns the hash code value for this object.
 *
 * @return A hash code value for this object.
 */
public int hashCode() {
    int h = 31 * 17 + getName().hashCode();
    h = 31 * h + getActions().hashCode();
    if (bundle != null) {
        h = 31 * h + bundle.hashCode();
    }
    return h;
}

/**
 * @return A hash code value for this object.
 */
private synchronized void writeObject(java.io.ObjectOutputStream s) throws IOException {
    if (bundle != null) {
        throw new NotSerializableException("cannot serialize");
    }
    // Write out the actions. The superclass takes care of the name.
    // call getActions to make sure actions field is initialized
    if (actions == null)
        getActions();
    s.defaultWriteObject();
}

/**
 * @return A hash code value for this object.
 */
private synchronized void readObject(java.io.ObjectInputStream s) throws IOException, ClassNotFoundException {
    // Read in the action, then initialize the rest
    s.defaultReadObject();
    setTransients(parseFilter(getName()), parseActions(actions));
}

/**
 * Called by CoordinationPermission#implies(Permission). This method
 * is only called on a requested permission which cannot have a filter set.
 * @return a map of properties for this permission.
 */
private Map<String, Object> getProperties() {
    Map<String, Object> result = properties;
    if (result != null) {
        return result;
    }
    final Map<String, Object> map = new HashMap<String, Object>(5);
    map.put("coordination.name", getName());
    if (bundle != null) {
        AccessController.doPrivileged(new PrivilegedAction<Object>() {
            public Object run() {
                map.put("id", new Long(bundle.getBundleId()));
                map.put("location", bundle.getLocation());
                String name = bundle.getSymbolicName();
                if (name != null) {
                    map.put("name", name);
                }
                SignerProperty signer = new SignerProperty(bundle);
                if (signer.isBundleSigned()) {
                    map.put("signer", signer);
                }
                return null;
            }
        });
    }
    return properties = map;
}

/**
 * Package private class used for filter matching on signer key during filter
 * expression evaluation in the permission implies method.
 *
 * @Immutable
 */
final class SignerProperty {
    private final Bundle bundle;
    private final String pattern;
    /**
     * String constructor used by the filter matching algorithm to construct a
     * SignerProperty from the attribute value in a filter expression.
     *
     * @param pattern Attribute value in the filter expression.
     */
    public SignerProperty(String pattern) {
        this.pattern = pattern;
        this.bundle = null;
    }
/**
 * Used by the permission implies method to build the properties for a
 * filter match.
 *
 * @param bundle The bundle whose signers are to be matched.
 */
SignerProperty(Bundle bundle) {
    this.bundle = bundle;
    this.pattern = null;
}

/**
 * Used by the filter matching algorithm. This methods does NOT satisfy the
 * normal equals contract. Since the class is only used in filter expression
 * evaluations, it only needs to support comparing an instance created with
 * a Bundle to an instance created with a pattern string from the filter
 * expression.
 *
 * @param o SignerProperty to compare against.
 * @return true if the DN name chain matches the pattern.
 */
public boolean equals(Object o) {
    if (!(o instanceof SignerProperty))
        return false;
    SignerProperty other = (SignerProperty) o;
    Bundle matchBundle = bundle != null ? bundle : other.bundle;
    String matchPattern = bundle != null ? other.pattern : pattern;
    Map<X509Certificate, List<X509Certificate>> signers =
        matchBundle.getSignerCertificates(Bundle.SIGNERS_TRUSTED);
    for (List<X509Certificate> signerCerts : signers.values()) {
        List<String> dnChain = new ArrayList<String>(signerCerts.size());
        for (X509Certificate signerCert : signerCerts) {
            dnChain.add(signerCert.getSubjectDN().getName());
        }
        try {
            if (FrameworkUtil.matchDistinguishedNameChain(matchPattern, dnChain)) {
                return true;
            }
        } catch (IllegalArgumentException e) {
            continue; // bad pattern
        }
    }
    return false;
}

/**
 * Since the equals method does not obey the general equals contract, this
* method cannot generate hash codes which obey the equals contract.
 */
public int hashCode() {
    return 31;
}

/**
 * Check if the bundle is signed.
 *
 * @return true if constructed with a bundle that is signed.
 */
boolean isBundleSigned() {
    if (bundle == null) {
        return false;
    }
    Map<X509Certificate, List<X509Certificate>> signers =
        bundle.getSignerCertificates(Bundle.SIGNERS_TRUSTED);
    return !signers.isEmpty();
}

/**
 * Stores a set of {Code CoordinationPermission} permissions.
 *
 * @see java.security.Permission
 * @see java.security.Permissions
 * @see java.security.PermissionCollection
 */

final class CoordinationPermissionCollection extends PermissionCollection {
    static final long serialVersionUID = -3350758995234427603L;

    /**
     * Collection of permissions.
     *
     * @serial
     * @GuardedBy this
     */
    private Map<String, CoordinationPermission> permissions;

    /**
     * Boolean saying if "*" is in the collection.
     *
     * @serial
     * @GuardedBy this
     */
    private boolean all_allowed;

}
* Create an empty CoordinationPermissions object.
*/
public CoordinationPermissionCollection() {
permissions = new HashMap<String, CoordinationPermission>();
all_allowed = false;
}

/**
 * Adds a permission to this permission collection.
 *
 * @param permission The [code CoordinationPermission] object to add.
 * @throws IllegalArgumentException If the specified permission is not a
 * [code CoordinationPermission] instance or was constructed with a
 * Bundle object.
 * @throws SecurityException If this
 * [code CoordinationPermissionCollection] object has been marked
 * read-only.
 */
public void add(final Permission permission) {
if (!(permission instanceof CoordinationPermission)) {
throw new IllegalArgumentException("invalid permission: " + permission);
}
if (isReadOnly()) {
throw new SecurityException("attempt to add a Permission to a " + "readonly PermissionCollection");
}
final CoordinationPermission cp = (CoordinationPermission) permission;
if (cp.bundle != null) {
throw new IllegalArgumentException("cannot add to collection: " + cp);
}
final String name = cp.getName();
synchronized (this) {
Map<String, CoordinationPermission> pc = permissions;
final CoordinationPermission existing = pc.get(name);
if (existing != null) {
final int oldMask = existing.action_mask;
final int newMask = cp.action_mask;
if (oldMask != newMask) {
pc.put(name, new CoordinationPermission(existing.filter, oldMask | newMask));
}
} else {
pc.put(name, cp);
}
if (!all_allowed) {
if (name.equals("*")) {


all_allowed = true;
}
}
}
}

/**
 * Determines if the specified permissions implies the permissions expressed
 * in {@code permission}.
 *
 * @param permission The Permission object to compare with this
 *        {@code CoordinationPermission} object.
 * @return {@code true} if {@code permission} is a proper subset of a
 *         permission in the set; {@code false} otherwise.
 */
public boolean implies(final Permission permission) {
    if (!(permission instanceof CoordinationPermission)) {
        return false;
    }
    final CoordinationPermission requested = (CoordinationPermission) permission;
    // if requested permission has a filter, then it is an invalid argument */
    if (requested.filter != null) {
        return false;
    }
    int effective = CoordinationPermission.ACTION_NONE;
    Collection<CoordinationPermission> perms;
    synchronized (this) {
        Map<String, CoordinationPermission> pc = permissions;
        // short circuit if the "*" Permission was added */
        if (all_allowed) {
            CoordinationPermission cp = pc.get("*");
            if (cp != null) {
                effective |= cp.action_mask;
                final int desired = requested.action_mask;
                if ((effective & desired) == desired) {
                    return true;
                }
            }
        }
        perms = pc.values();
    }
    // iterate one by one over filteredPermissions */
    for (CoordinationPermission perm : perms) {
        if (perm.implies0(requested, effective)) {
            return true;
        }
    }
}
/**
 * Returns an enumeration of all CoordinationPermission objects in the container.
 * @return Enumeration of all CoordinationPermission objects.
 */
public synchronized Enumeration<Permission> elements() {
    List<Permission> all = new ArrayList<>(permissions.values());
    return Collections.enumeration(all);
}

/* serialization logic */
private static final ObjectStreamField[] serialPersistentFields = {
    new ObjectStreamField("permissions", HashMap.class),
    new ObjectStreamField("all_allowed", Boolean.TYPE)
};

private synchronized void writeObject(ObjectOutputStream out) throws IOException {
    ObjectOutputStream.PutField pfields = out.putFields();
    pfields.put("permissions", permissions);
    pfields.put("all_allowed", all_allowed);
    out.writeFields();
}

private synchronized void readObject(java.io.ObjectInputStream in) throws IOException, ClassNotFoundException {
    ObjectInputStream.GetField gfields = in.readFields();
    permissions = (HashMap<String, CoordinationPermission>) gfields.get("permissions", null);
    all_allowed = gfields.get("all_allowed", false);
}

*/

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*/
package org.osgi.service.deploymentadmin.spi;

import java.lang.reflect.Constructor;
import java.lang.reflect.InvocationTargetException;
import java.security.AccessController;
import java.security.Permission;
import java.security.PermissionCollection;
import java.security.PrivilegedAction;
import org.osgi.framework.Bundle;
import org.osgi.service.deploymentadmin.DeploymentAdminPermission;

/**
 * The DeploymentCustomizerPermission permission gives the right to
 * Resource Processors to access a bundle's (residing in a Deployment Package)
 * private area. The bundle and the Resource Processor (customizer) have to be
 * in the same Deployment Package.
 * <p>
 * The Resource Processor that has this permission is allowed to access the
 * bundle's private area by calling the
 * DeploymentSession#getDataFile(Bundle) method during the session (see
 * DeploymentSession). After the session ends the FilePermissions are
 * withdrawn. The Resource Processor will have FilePermission with
 * "read", "write" and "delete" actions for the returned java.io.File
 * that represents the base directory of the persistent storage area and for
 * its subdirectories.
 * <p>
 * The actions string is converted to lowercase before processing.
 */
public class DeploymentCustomizerPermission extends Permission {

/**
 *
 */
private static final long serialVersionUID = 1L;

/**
 * Constant String to the "privatearea" action.
 */
public static final String PRIVATEAREA = "privatearea";

private static final String delegateProperty = "org.osgi.vendor.deploymentadmin";
private static final Constructor constructor;
private final Permission delegate;
static {
    constructor = (Constructor) AccessController.doPrivileged(new PrivilegedAction() {=}
public Object run() {
    String pckg = System.getProperty(delegateProperty);
    if (null == pckg)
        throw new RuntimeException("Property "+ delegateProperty + " is not set");
    try {
        Class c = Class.forName(pckg + ".DeploymentCustomizerPermission");
        return c.getConstructor(new Class[]{String.class, String.class});
    } catch (Exception e) {
        throw new RuntimeException(e);
    }
}
*/

/**
 * Creates a new {@code DeploymentCustomizerPermission} object for the given
 * [code name] and [code action].
 * <p>
 * The name parameter is a filter string. This filter has the same syntax as
 * an OSGi filter but only the "name" attribute is allowed. The value of the
 * attribute is a Bundle Symbolic Name that represents a bundle. The only
 * allowed action is the "privatearea" action. E.g.
 *<pre>
 * Permission perm = new DeploymentCustomizerPermission(  
 *     "(name=com.acme.bundle)"&quot;, &quot;privatearea&quot;);  
 *</pre>
 * The Resource Processor that has this permission is allowed to access the
 * bundle's private area by calling the
 * [link DeploymentSession#getDataFile(Bundle)] method. The Resource
 * Processor will have [code FilePermission] with "read", "write" and
 * "delete" actions for the returned [link java.io.File] and its
 * subdirectories during the deployment session.
 * @param name Bundle Symbolic Name of the target bundle, must not be
 * [code null].
 * @param actions action string (only the "privatearea" or "*" action is
 * valid; "*" means all the possible actions), must not be
 * [code null].
 * @throws IllegalArgumentException if the filter is invalid, the list of
 * actions contains unknown operations or one of the parameters is
 * [code null]
 */
public DeploymentCustomizerPermission(String name, String actions) {
    super(name);
    try {
try {
    delegate = (Permission) constructor.newInstance(new Object[] {name, actions});
} catch (InvocationTargetException e) {
    throw e.getTargetException();
}
} catch (Error e) {
    throw e;
} catch (RuntimeException e) {
    throw e;
} catch (Throwable e) {
    throw new RuntimeException(e);
}

/**
 * Checks two DeploymentCustomizerPermission objects for equality. Two
 * permission objects are equal if:
 * <p>
 * <ul>
 * <li>their target filters are equal (semantically and not character by
 * character) and</li>
 * <li>their actions are the same</li>
 * </ul>
 * @param obj the reference object with which to compare.
 * @return true if the two objects are equal.
 * @see java.lang.Object#equals(java.lang.Object)
 */
public boolean equals(Object obj) {
    if (obj == this)
        return true;
    if (!(obj instanceof DeploymentCustomizerPermission))
        return false;
    DeploymentCustomizerPermission dcp = (DeploymentCustomizerPermission) obj;
    return delegate.equals(dcp.delegate);
}

/**
 * Returns hash code for this permission object.
 * @return Hash code for this permission object.
 * @see java.lang.Object#hashCode()
 */
public int hashCode() {
    return delegate.hashCode();
}
/**
 * Returns the String representation of the action list.
 *
 * @return Action list of this permission instance. It is always
 *         "privatearea".
 * @see java.security.Permission#getActions()
 */
public String getActions() {
    return delegate.getActions();
}

/**
 * Checks if this DeploymentCustomizerPermission would imply the parameter
 * permission. This permission implies another
 * DeploymentCustomizerPermission permission if:
 *
 * <ul>
 * <li>both of them has the "privatearea" action (other actions are not
 *     allowed) and</li>
 * <li>their filters (only name attribute is allowed in the filters) match
 *     similarly to {@link DeploymentAdminPermission}.</li>
 * </ul>
 *
 * The value of the name attribute means Bundle Symbolic Name and not
 * Deployment Package Symbolic Name here!
 *
 * @param permission Permission to check.
 * @return true if this DeploymentCustomizerPermission object implies the
 *         specified permission.
 * @see java.security.Permission#implies(java.security.Permission)
 */
public boolean implies(Permission permission) {
    if (!(permission instanceof DeploymentCustomizerPermission))
        return false;
    DeploymentCustomizerPermission dcp = (DeploymentCustomizerPermission) permission;
    return delegate.implies(dcp.delegate);
    }

/**
 * Returns a new PermissionCollection object for storing
 * DeploymentCustomizerPermission objects.
 *
 * @return The new PermissionCollection.
 * @see java.security.Permission#newPermissionCollection()
 */
public PermissionCollection newPermissionCollection() {
    return delegate.newPermissionCollection();
}

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 * limitations under the License.
 */

package org.osgi.service.deploymentadmin;

import java.io.InputStream;
import java.lang.reflect.Constructor;
import java.lang.reflect.InvocationTargetException;
import java.security.AccessController;
import java.security.Permission;
import java.security.PermissionCollection;
import java.security.PrivilegedAction;
import org.osgi.framework.Bundle;

/**
 * DeploymentAdminPermission controls access to the Deployment Admin service.
 * *
 * The permission uses a filter string formatted similarly to the
 * [@link org.osgi.framework.Filter]. The filter determines the target of the
 * permission. The [@code DeploymentAdminPermission] uses the [@code name] and
 * the [@code signer] filter attributes only. The value of the [@code signer]
 * attribute is matched against the signer chain (represented with its semicolon
 * separated Distinguished Name chain) of the Deployment Package, and the value
 * of the [@code name] attribute is matched against the value of the
 * "DeploymentPackage-Name" manifest header of the Deployment Package. Example:
 * *
 * <ul>
 * <li>(signer=cn = Bugs Bunny, o = ACME, c = US)</li>
 * <li>(name=org.osgi.ExampleApp)</li>
 */
* Wildcards also can be used:
  * (signer=cn=*\, o=ACME, c=*)
  *
  * "cn" and "c" may have an arbitrary value
  *
  * (signer=*, o=ACME, c=US)
  *
  * Only the value of "o" and "c" are significant
  *
  * (signer=*, ou=S & V, o=Tweety Inc., c=US)
  *
  * The first element of the certificate chain is not important, only the second
  * (the Distinguished Name of the root certificate)
  *
  * (signer=*, o=Tweety Inc., c=US)
  *
  * The same as the previous but '-' represents zero or more certificates,
  * whereas the asterisk only represents a single certificate
  *
  * (name=*)
  *
  * The name of the Deployment Package doesn't matter
  *
  * (name=org.osgi.*)
  *
  * The name has to begin with "org.osgi."
  *
  * The following actions are allowed:
  * list
  *
  * list
* A holder of this permission can access the inventory information of the deployment packages selected by the &lt;filter&gt; string. The filter selects the deployment packages on which the holder of the permission can acquire detailed inventory information. See [@link DeploymentAdmin#getDeploymentPackage(Bundle)], [@link DeploymentAdmin#getDeploymentPackage(String)] and [@link DeploymentAdmin#listDeploymentPackages].
* <p>
* <b>install</b>
* <p>
* A holder of this permission can install/update deployment packages if the deployment package satisfies the &lt;filter&gt; string. See [@link DeploymentAdmin#installDeploymentPackage].
* <p>
* <b>uninstall</b>
* <p>
* A holder of this permission can uninstall deployment packages if the deployment package satisfies the &lt;filter&gt; string. See [@link DeploymentPackage#uninstall()].
* <p>
* <b>uninstall_forced</b>
* <p>
* A holder of this permission can forcefully uninstall deployment packages if the deployment package satisfies the &lt;filter&gt; string. See [@link DeploymentPackage#uninstallForced()].
* <p>
* <b>cancel</b>
* <p>
* A holder of this permission can cancel an active deployment action. This action being canceled could correspond to the install, update or uninstall of a deployment package that satisfies the &lt;filter&gt; string. See [@link DeploymentAdmin#cancel()]
* <p>
* <b>metadata</b>
* <p>
* A holder of this permission is able to retrieve metadata information about a Deployment Package (e.g. is able to ask its manifest headers). See
* {@link org.osgi.service.deploymentadmin.DeploymentPackage#getBundle(String)},
* {@link org.osgi.service.deploymentadmin.DeploymentPackage#getBundleInfos()},
* {@link org.osgi.service.deploymentadmin.DeploymentPackage#getHeader(String)},
* {@link org.osgi.service.deploymentadmin.DeploymentPackage#getResourceHeader(String, String)},
* {@link org.osgi.service.deploymentadmin.DeploymentPackage#getResourceProcessor(String)},
* {@link org.osgi.service.deploymentadmin.DeploymentPackage#getResources()}

* The actions string is converted to lower case before processing.
*/
public final class DeploymentAdminPermission extends Permission {

/**
 * 
 */
private static final long serialVersionUID = 1L;

/**
 * Constant String to the "install" action.
 * <p>
 */
public static final String INSTALL = "install";

/**
 * Constant String to the "list" action.
 * <p>
 */
public static final String LIST = "list";

/**
 * Constant String to the "uninstall" action.
 * <p>
 */
public static final String UNINSTALL = "uninstall";

/**
 * Constant String to the "uninstall_forced" action.
 * <p>
 */
public static final String UNINSTALLFORCED = "uninstall_forced";
public static final String UNINSTALL_FORCED = "uninstall_forced";

/**
 * Constant String to the "cancel" action.
 * <p>
 * @see DeploymentAdmin#cancel()
 */
public static final String CANCEL = "cancel";

/**
 * Constant String to the "metadata" action.
 * <p>
 * @see org.osgi.service.deploymentadmin.DeploymentPackage#getBundle(String)
 * @see org.osgi.service.deploymentadmin.DeploymentPackage#getBundleInfos()
 * @see org.osgi.service.deploymentadmin.DeploymentPackage#getHeader(String)
 * @see org.osgi.service.deploymentadmin.DeploymentPackage#getResourceHeader(String,
 *      String)
 * @see org.osgi.service.deploymentadmin.DeploymentPackage#getResourceProcessor(String)
 * @see org.osgi.service.deploymentadmin.DeploymentPackage#getResourceProcessor(String)
 * @see org.osgi.service.deploymentadmin.DeploymentPackage#getResourceProcessor(String)
 */
public static final String METADATA = "metadata";

private static final String delegateProperty = "org.osgi.vendor.deploymentadmin";
private static final Constructor constructor;
private final Permission delegate;
static {
    constructor = (Constructor) AccessController.doPrivileged(new PrivilegedAction() {
        @Override
        public Object run() {
            String pckg = System.getProperty(delegateProperty);
            if (null == pckg)
                throw new RuntimeException("Property '" + delegateProperty + '" is not set");
            try {
                Class c = Class.forName(pckg + ".DeploymentAdminPermission");
                return c.getConstructor(new Class[] {String.class, String.class});
            } catch (Exception e) {
                throw new RuntimeException(e);
            }
        }
    });
}

/**
 * Creates a new [@code DeploymentAdminPermission] object for the given
 * [@code name] and [@code action].
 * <p>
* The `@code name` parameter identifies the target deployment package the
  * permission relates to. The `@code actions` parameter contains the comma
  * separated list of allowed actions.

* @param name filter string, must not be null.
* @param actions action string, must not be null. "*" means all the
  * possible actions.
* @throws IllegalArgumentException if the filter is invalid, the list of
  * actions contains unknown operations or one of the parameters is
  * null
*/
public DeploymentAdminPermission(String name, String actions) {
    super(name);
    try {
        try {
            delegate = (Permission) constructor.newInstance(new Object[] {name, actions});
        } catch (InvocationTargetException e) {
            throw e.getTargetException();
        }
        } catch (Error e) {
            throw e;
        } catch (RuntimeException e) {
            throw e;
        } catch (Throwable e) {
            throw new RuntimeException(e);
        }
    }
}

/**
 * Checks two DeploymentAdminPermission objects for equality. Two permission
 * objects are equal if:
 * <p>
 *  <ul>
 *  <li>their target filters are semantically equal and</li>
 *  <li>their actions are the same</li>
 *  </ul>
 * 
 * @param obj The reference object with which to compare.
 * @return true if the two objects are equal.
 * @see java.lang.Object#equals(java.lang.Object)
 */
public boolean equals(Object obj) {
    if (obj == this)
        return true;
    if (!(obj instanceof DeploymentAdminPermission))
        return false;
    DeploymentAdminPermission dap = (DeploymentAdminPermission) obj;
return delegate.equals(dap.delegate);
}

/**
 * Returns hash code for this permission object.
 * @return Hash code for this permission object.
 * @see java.lang.Object#hashCode()
 */
public int hashCode() {
    return delegate.hashCode();
}

/**
 * Returns the String representation of the action list.
 * @return Action list of this permission instance. This is a
 *         comma-separated list that reflects the action parameter of the
 *         constructor.
 * @see java.security.Permission#getActions()
 */
public String getActions() {
    return delegate.getActions();
}

/**
 * Checks if this DeploymentAdminPermission would imply the parameter
 * permission.
 * @param <p>
 * Precondition of the implication is that the action set of this permission
 * is the superset of the action set of the other permission. Further rules
 * of implication are determined by the [ @link org.osgi.framework.Filter]
 * rules and the "OSGi Service Platform, Core Specification Release 4,
 * Chapter Certificate Matching".
 * @param <p>
 * The allowed attributes are: [ @code name] (the symbolic name of the
 * deployment package) and [ @code signer] (the signer of the deployment
 * package). In both cases wildcards can be used.
 * @param <p>
 * Examples:
 * @param <pre>
1. DeploymentAdminPermission("(name=org.osgi.ExampleApp)", "list")
2. DeploymentAdminPermission("(name=org.osgi.ExampleApp)", "list, install")
3. DeploymentAdminPermission("(name=org.osgi.*)", "list")
4. DeploymentAdminPermission("(signer=*, o=ACME, c=US)", "list")
5. DeploymentAdminPermission("(signer=cn=Bugs Bunny, o=ACME, c=US)", "list")

```java
public boolean implies(Permission permission) {
    if (!(permission instanceof DeploymentAdminPermission))
        return false;
    DeploymentAdminPermission dap = (DeploymentAdminPermission) permission;
    return delegate.implies(dap.delegate);
}
```

```java
public PermissionCollection newPermissionCollection() {
    return delegate.newPermissionCollection();
}
```

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package org.osgi.service.dmt.security;

import java.security.Permission;
import java.security.PermissionCollection;
import java.util.ArrayList;
import java.util.Collections;
import java.util.Enumeration;
import java.util.Iterator;

/**
 * Indicates the callers authority to send alerts to management servers,
 * identified by their principal names.
 * <p>
 * {@code AlertPermission} has a target string which controls the principal
 * names where alerts can be sent. A wildcard is allowed at the end of the
 * target string, to allow sending alerts to any principal with a name matching
 * the given prefix. The "*" target means that alerts can be sent to
 * any destination.
 * <p>
 * @author $Id: c6a01d2c5e33287b1fd6bf40fedca908e9ddd072$
 */

public class AlertPermission extends Permission {

    // specifies whether the target string had a wildcard at the end
    private static final long serialVersionUID = -3206463101788245739L;

    // the target string without the wildcard (if there was one)
    private final String serverId;

    /**
     * Creates a new {@code AlertPermission} object with its name set to the
     * target string. Name must be non-null and non-empty.
     *
     * @param target the name of a principal, can end with {@code *}
     * to match any principal identifier with the given prefix
     * @throws NullPointerException if name is null
     */

    public AlertPermission(String target) {
        super(target);
        serverId = target.replace('*', '
');
    }
public AlertPermission(String target) {
    super(target);

    if (target == null)
        throw new NullPointerException("'target' parameter must not be null.");

    if (target.equals"")
        throw new IllegalArgumentException("'target' parameter must not be empty.");

    isPrefix = target.endsWith("*");
    if (isPrefix)
        serverId = target.substring(0, target.length() - 1);
    else
        serverId = target;
}

/**
 * Creates a new AlertPermission object using the 'canonical' two
 * argument constructor. In this version this class does not define any
 * actions, the second argument of this constructor must be "*" so that this
 * class can later be extended in a backward compatible way.
 *
 * @param target the name of the server, can end with * to match any
 *      server identifier with the given prefix
 * @param actions no actions defined, must be "*" for forward compatibility
 * @throws NullPointerException if name or actions is null
 * @throws IllegalArgumentException if name is empty or actions is not "*"
 */
public AlertPermission(String target, String actions) {
    this(target);

    if (actions == null)
        throw new NullPointerException("'actions' parameter must not be null.");

    if (!actions.equals("*"))
        throw new IllegalArgumentException("'actions' parameter must be \"*\".");
}

/**
 * Checks whether the given object is equal to this AlertPermission
 * instance. Two AlertPermission instances are equal if they have the same
 * target string.
 *
 * @param obj the object to compare to this AlertPermission instance
 */
public boolean equals(Object obj) {
if (obj == this)
return true;

if (!(obj instanceof AlertPermission))
return false;

AlertPermission other = (AlertPermission) obj;

return isPrefix == other.isPrefix && serverId.equals(other.serverId);
}

/**
 * Returns the action list (always @code {*}) in the current version.
 *
 * @return the action string &quot;*";
 */
public String getActions() {
return ";*";
}

/**
 * Returns the hash code for this permission object. If two AlertPermission
 * objects are equal according to the [@link #equals(Object)] method, then
 * calling this method on each of the two AlertPermission objects must
 * produce the same integer result.
 *
 * @return hash code for this permission object
 */
public int hashCode() {
return new Boolean(isPrefix).hashCode() ^ serverId.hashCode();
}

/**
 * Checks if this AlertPermission object implies the specified permission.
 * Another AlertPermission instance is implied by this permission either if
 * the target strings are identical, or if this target can be made identical
 * to the other target by replacing a trailing &quot;*"; with any
 * string.
 *
 * @param p the permission to check for implication
 * @return true if this AlertPermission instance implies the specified
 *         permission
 */
public boolean implies(Permission p) {
if (!(p instanceof AlertPermission))
return false;

AlertPermission other = (AlertPermission) p;

return impliesServer(other);
}

/**
* Returns a new PermissionCollection object for storing AlertPermission
* objects.
*
* @return the new PermissionCollection
*/
public PermissionCollection newPermissionCollection() {
return new DmtAlertPermissionCollection();
}

/**
* Returns true if the server name parameter of the given AlertPermission is
* implied by the server name of this permission, i.e. this server name is a
* prefix of the other one but ends with a *, or the two server names are
* equal.
* /
boolean impliesServer(AlertPermission p) {
return isPrefix ? p.serverId.startsWith(serverId) : !p.isPrefix && p.serverId.equals(serverId);
}

/**
* Represents a homogeneous collection of AlertPermission objects.
*/
final class DmtAlertPermissionCollection extends PermissionCollection {
private static final long serialVersionUID = 2288462124510043429L;

private ArrayList perms;

/**
* Create an empty DmtAlertPermissionCollection object.
* /
public DmtAlertPermissionCollection() {
perms = new ArrayList();
}

/**
* Adds a permission to the DmtAlertPermissionCollection.
* *
* @param permission the Permission object to add
*/
public void add(Permission permission) {
    if (!(permission instanceof AlertPermission))
        throw new IllegalArgumentException("Cannot add permission, invalid permission type: " + permission);
    if (isReadOnly())
        throw new SecurityException("Cannot add permission, collection is marked read-only.");

    // only add new permission if it is not already implied by the
    // permissions in the collection
    if (!implies(permission)) {
        // remove all permissions that are implied by the new one
        Iterator i = perms.iterator();
        while (i.hasNext())
            if (permission.implies((AlertPermission) i.next()))
                i.remove();

        // no need to synchronize because all adds are done sequentially
        // before any implies() calls
        perms.add(permission);
    }
}

/**
 * Check whether this set of permissions implies the permission specified in
 * the parameter.
 *
 * @param permission the Permission object to compare
 * @return true if the parameter permission is a proper subset of the
 *         permissions in the collection, false otherwise
 */
public boolean implies(Permission permission) {
    if (!(permission instanceof AlertPermission))
        return false;
    AlertPermission other = (AlertPermission) permission;

    Iterator i = perms.iterator();
    while (i.hasNext())
        if (((AlertPermission) i.next()).impliesServer(other))
            return true;

    return false;
}
/**
 * Returns an enumeration of all the AlertPermission objects in the container. The returned value cannot be [code null].
 *
 * @return an enumeration of all the AlertPermission objects
 */
public Enumeration elements() {
    // Convert Iterator into Enumeration
    return Collections.enumeration(perms);
}
*/

package org.osgi.service.dmt.security;

import java.security.Permission;
import java.security.PermissionCollection;
import java.util.ArrayList;
import java.util.Collections;
import java.util.Enumeration;
import java.util.Iterator;
import java.util.StringTokenizer;
import org.osgi.service.dmt.Acl;
import org.osgi.service.dmt.Uri;

/**
 * Controls access to management objects in the Device Management Tree (DMT). It is intended to control local access to the DMT. DmtPermission target string identifies the management object URI and the action field lists the OMA DM commands that are permitted on the management object. Example:
 */
*DmtPermission("./OSGi/bundles", "Add,Replace,Get");
This means that owner of this permission can execute Add, Replace and Get commands on the /OSGi/bundles management object. It is possible to use wildcards in both the target and the actions field. Wildcard in the target field means that the owner of the permission can access children nodes of the target node. Example:

```
DmtPermission("./OSGi/bundles/*", "Get");
```

This means that owner of this permission has Get access on every child node of /OSGi/bundles. The asterix does not necessarily have to follow a '/' character. For example the `{@code "./OSGi/a*"}` target matches the `{@code ./OSGi/applications}` subtree.

If wildcard is present in the actions field, all legal OMA DM commands are allowed on the designated nodes(s) by the owner of the permission. Action names are interpreted case-insensitively, but the canonical action string returned by `{@link #getActions()}` uses the forms defined by the action constants.

```java
public class DmtPermission extends Permission {

private static final long serialVersionUID = -1910969921419407809L;

/**
 * Holders of DmtPermission with the Add action present can create new nodes in the DMT, that is they are authorized to execute the createInteriorNode() and createLeafNode() methods of the DmtSession. This action is also required for the copy() command, which needs to perform node creation operations (among others).
 */
public static final String ADD = "Add";

/**
 * Holders of DmtPermission with the Delete action present can delete nodes from the DMT, that is they are authorized to execute the deleteNode() method of the DmtSession.
 */
public static final String DELETE = "Delete";

/**
 * Holders of DmtPermission with the Exec action present can execute nodes in the DMT, that is they are authorized to call the execute() method of
 */
public static final String EXEC = "Exec";

/**
 * Holders of DmtPermission with the Get action present can query DMT node
 * value or properties, that is they are authorized to execute the
 * isLeafNode(), getNodeAcl(), getEffectiveNodeAcl(), getMetaNode(),
 * getNodeValue(), getChildNodeNames(), getNodeTitle(), getNodeVersion(),
 * getNodeTimeStamp(), getNodeSize() and getNodeType() methods of the
 * DmtSession. This action is also required for the copy() command, which
 * needs to perform node query operations (among others).
 */
public static final String GET = "Get";

/**
 * Holders of DmtPermission with the Replace action present can update DMT
 * node value or properties, that is they are authorized to execute the
 * setNodeAcl(), setNodeTitle(), setNodeValue(), setNodeType() and
 * renameNode() methods of the DmtSession. This action is also be required
 * for the copy() command if the original node had a title property (which
 * must be set in the new node).
 */
public static final String REPLACE = "Replace";

// does this permission have a wildcard at the end?
private final boolean prefixPath;

// the name without the wildcard on the end
private final String path;

// the actions mask
private final int mask;

// the canonical action string (redundant)
private final String actions;

/**
 * Creates a new DmtPermission object for the specified DMT URI with the
 * specified actions. The given URI can be:
 * <ul>
 * <li> {@code ","}, which matches all valid (see
 * \{@link Uri#isValidUri(String)\} absolute URIs;</li>
 * <li> the prefix of an absolute URI followed by the \{@code ","\} character
 * (for example \{@code \"/OSGi/L,\"\}), which matches all valid absolute URIs
 * beginning with the given prefix;</li>
 * <li> a valid absolute URI, which matches itself.</li>
 * </ul>
 */
* Since the {code @} character is itself a valid URI character, it can
* appear as the last character of a valid absolute URI. To distinguish this
* case from using {code @} as a wildcard, the {code @} character at the
* end of the URI must be escaped with the {code @} \ character. For example
* the URI {code @} matches {code @} \ }, \ {{code @} }
* [ {code @} ] etc. while {code @} matches {code @} only.
* <sp>
* The actions string must either be "" to allow all actions, or it must
* contain a non-empty subset of the valid actions, defined as constants in
* this class.
* *
* @param dmtUri URI of the management object (or subtree)
* @param actions OMA DM actions allowed
* @throws NullPointerException if any of the parameters are {code null}
* @throws IllegalArgumentException if any of the parameters are invalid
*/
public DmtPermission(String dmtUri, String actions) {
    super(dmtUri);
    mask = getMask(actions);
    this.actions = canonicalActions(mask);

    if (dmtUri == null)
        throw new NullPointerException("'dmtUri' parameter must not be " + "null.");

    prefixPath = dmtUri.endsWith("*") && !dmtUri.endsWith("\*");

    if (prefixPath) {
        dmtUri = dmtUri.substring(0, dmtUri.length() - 1);

        // the single "*" as dmtUri is the only valid non-absolute URI param
        if (dmtUri.length() == 0) {
            path = "";
            return;
        }
    }

    // if URI ends with "/*", remove it before the validity check
    if (prefixPath && dmtUri.endsWith("/") && !dmtUri.endsWith("\\"))
        checkUri(dmtUri.substring(0, dmtUri.length() - 1));
    else
        checkUri(dmtUri);

    // canonicalize URI: remove escapes from non-special characters
    StringBuffer sb = new StringBuffer(dmtUri);
    int i = 0;
    while (i < sb.length()) { // length can decrease during the loop!
        if (sb.charAt(i) == '\') {
            // there must be a next character after a \ in a valid URI
char nextCh = sb.charAt(i + 1);
if (nextCh != '/' && nextCh != '\\')
sb.deleteCharAt(i); // remove the extra '\'
else
i++;
}
i++;
}
path = sb.toString();
}
private void checkUri(String dmtUri) throws IllegalArgumentException {
if (!Uri.isValidUri(dmtUri))
throw new IllegalArgumentException("'dmtUri' parameter does not " + "contain a valid URI.");
if (!Uri.isAbsoluteUri(dmtUri))
throw new IllegalArgumentException("'dmtUri' parameter does not " + "contain an absolute URI.");
}
/**
* Checks whether the given object is equal to this DmtPermission instance.
* Two DmtPermission instances are equal if they have the same target string
* and the same action mask. The "*" action mask is considered equal to a
* mask containing all actions.
*
* @param obj the object to compare to this DmtPermission instance
* @return {@code true} if the parameter represents the same permissions as
*
this instance
*/
public boolean equals(Object obj) {
if (obj == this)
return true;
if (!(obj instanceof DmtPermission))
return false;
DmtPermission other = (DmtPermission) obj;
return mask == other.mask && prefixPath == other.prefixPath && path.equals(other.path);
}
/**
* Returns the String representation of the action list. The allowed actions
* are listed in the following order: Add, Delete, Exec, Get, Replace. The
* wildcard character is not used in the returned string, even if the class
* was created using the "*" wildcard.
*
* @return canonical action list for this permission object

Open Source Used In WAE 6.3

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public String getActions() {
    return actions;
}

/**
 * Returns the hash code for this permission object. If two DmtPermission
 * objects are equal according to the {@link #equals(Object)} method, then
 * calling this method on each of the two DmtPermission objects must produce
 * the same integer result.
 *
 * @return hash code for this permission object
 */
public int hashCode() {
}

/**
 * Checks if this DmtPermission object "implies" the specified
 * permission. This method returns {@code false} if and only if at least one
 * of the following conditions are fulfilled for the specified permission:
 * <ul>
 * <li>it is not a DmtPermission</li>
 * <li>its set of actions contains an action not allowed by this permission</li>
 * <li>the set of nodes defined by its path contains a node not defined by
 * the path of this permission</li>
 * </ul>
 *
 * @param p the permission to check for implication
 * @return true if this DmtPermission instance implies the specified
 *         permission
 */
public boolean implies(Permission p) {
    if (!(p instanceof DmtPermission))
        return false;
    DmtPermission other = (DmtPermission) p;
    if ((mask & other.mask) != other.mask)
        return false;
    return impliesPath(other);
}

/**
 * Returns a new PermissionCollection object for storing DmtPermission
 * objects.
 */
* @return the new PermissionCollection
*/
public PermissionCollection newPermissionCollection() {
return new DmtPermissionCollection();
}
// parses the given action string, and returns the corresponding action mask
private static int getMask(String actions) {
int mask = 0;
if (actions == null)
throw new NullPointerException("'actions' parameter cannot be null.");
if (actions.equals("*"))
return Acl.ALL_PERMISSION;
// empty tokens (swallowed by StringTokenizer) are not considered errors
StringTokenizer st = new StringTokenizer(actions, ",");
while (st.hasMoreTokens()) {
String action = st.nextToken().trim();
if (action.equalsIgnoreCase(GET)) {
mask |= Acl.GET;
} else
if (action.equalsIgnoreCase(ADD)) {
mask |= Acl.ADD;
} else
if (action.equalsIgnoreCase(REPLACE)) {
mask |= Acl.REPLACE;
} else
if (action.equalsIgnoreCase(DELETE)) {
mask |= Acl.DELETE;
} else
if (action.equalsIgnoreCase(EXEC)) {
mask |= Acl.EXEC;
} else
throw new IllegalArgumentException("Invalid action '" + action + "'");
}
if (mask == 0)
throw new IllegalArgumentException("Action mask cannot be empty.");
return mask;
}
// generates the canonical string representation of the action list
private static String canonicalActions(int mask) {
StringBuffer sb = new StringBuffer();
addAction(sb, mask, Acl.ADD, ADD);

Open Source Used In WAE 6.3

7105


addAction(sb, mask, Acl.DELETE, DELETE);
addAction(sb, mask, Acl.EXEC, EXEC);
addAction(sb, mask, Acl.GET, GET);
addAction(sb, mask, Acl.REPLACE, REPLACE);
return sb.toString();
}

// if 'flag' appears in 'mask', appends the 'action' string to the contents
// of 'sb', separated by a comma if needed
private static void addAction(StringBuffer sb, int mask, int flag, String action) {
    if ((mask & flag) != 0) {
        if (sb.length() > 0)
            sb.append(',');
        sb.append(action);
    }
}

// used by DmtPermissionCollection to retrieve the action mask
int getMask() {
    return mask;
}

// returns true if the path parameter of the given DmtPermission is
// implied by the path of this permission, i.e. this path is a prefix of the
// other path, but ends with a *, or the two path strings are equal
boolean impliesPath(DmtPermission p) {
    return prefixPath ? p.path.startsWith(path) : !p.prefixPath && p.path.equals(path);
}

/**
* Represents a homogeneous collection of DmtPermission objects.
*/
final class DmtPermissionCollection extends PermissionCollection {

    private static final long serialVersionUID = -4172481774562012941L;

    // OPTIMIZE keep a special flag for permissions of "*" path

    private ArrayList perms;

    /**
     * Create an empty DmtPermissionCollection object.
     */
    public DmtPermissionCollection() {
        perms = new ArrayList();
    }

    /**
* Adds a permission to the DmtPermissionCollection.
* @param permission the Permission object to add
* @exception IllegalArgumentException if the permission is not a DmtPermission
* @exception SecurityException if this DmtPermissionCollection object has been marked readonly
*/
public void add(Permission permission) {
    if (!(permission instanceof DmtPermission))
        throw new IllegalArgumentException("Cannot add permission, invalid permission type: " + permission);
    if (isReadOnly())
        throw new SecurityException("Cannot add permission, collection is marked read-only.");

    // No need to synchronize because all adds are done sequentially
    // before any implies() calls
    perms.add(permission);
}

/**
* Check whether this set of permissions implies the permission specified in the parameter.
* @param permission the Permission object to compare
* @return true if the parameter permission is a proper subset of the permissions in the collection, false otherwise
*/
public boolean implies(Permission permission) {
    if (!(permission instanceof DmtPermission))
        return false;
    DmtPermission other = (DmtPermission) permission;

    int required = other.getMask();
    int available = 0;
    int needed = required;

    Iterator i = perms.iterator();
    while (i.hasNext()) {
        DmtPermission p = (DmtPermission) i.next();
        if (((needed & p.getMask()) != 0) && p.impliesPath(other)) {
            available |= p.getMask();
            if ((available & required) == required)
                return true;
            needed = (required ^ available);
        }
    }
}
return false;
}

/**
 * Returns an enumeration of all the DmtPermission objects in the container.
 * The returned value cannot be [code null].
 *
 * @return an enumeration of all the DmtPermission objects
 */
public Enumeration elements() {
    // Convert Iterator into Enumeration
    return Collections.enumeration(perms);
}

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 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
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 * limitations under the License.
 */

package org.osgi.service.dmt.security;

import java.security.Permission;
import java.security.PermissionCollection;
import java.util.ArrayList;
import java.util.Collections;
import java.util.Enumeration;
import java.util.Iterator;

/**
 * Indicates the callers authority to create DMT sessions on behalf of a remote
 * management server. Only protocol adapters communicating with management
 * servers should be granted this permission.
 * <p>
 * [code DmtPrincipalPermission] has a target string which controls the name of
 * the principal on whose behalf the protocol adapter can act. A wildcard is
 * allowed at the end of the target string, to allow using any principal name
 * with the given prefix. The *\"*\" target means the adapter can create
* a session in the name of any principal.
* 
* @author $Id: f58885e938ced170c689e746d5326e01c5fa8079 $ 
*/
public class DmtPrincipalPermission extends Permission {
private static final long serialVersionUID = 6388752177325038332L;

// specifies whether the target string had a wildcard at the end
private final boolean isPrefix;

// the target string without the wildcard (if there was one)
private final String principal;

/***
* Creates a new [code DmtPrincipalPermission] object with its name set to
* the target string. Name must be non-null and non-empty.
* 
* @param target the name of the principal, can end with [code *] to match
* any principal with the given prefix
* @throws NullPointerException if [code name] is [code null]
* @throws IllegalArgumentException if [code name] is empty
*/
public DmtPrincipalPermission(String target) {
    super(target);

    if (target == null)
        throw new NullPointerException("'target' parameter must not be null.");

    if (target.equals(""))
        throw new IllegalArgumentException("'target' parameter must not be empty.");

    isPrefix = target.endsWith("*");
    if (isPrefix)
        principal = target.substring(0, target.length() - 1);
    else
        principal = target;
}

/***
* Creates a new [code DmtPrincipalPermission] object using the 'canonical'
* two argument constructor. In this version this class does not define any
* actions, the second argument of this constructor must be "*" so that this
* class can later be extended in a backward compatible way.
* 
* @param target the name of the principal, can end with [code *] to match
* any principal with the given prefix
* @param actions no actions defined, must be "*" for forward compatibility
* @throws NullPointerException if [code name] or [code actions] is
public DmtPrincipalPermission(String target, String actions) {
    this(target);
    if (actions == null)
        throw new NullPointerException("'actions' parameter must not be null.");
    if (!actions.equals("*"))
        throw new IllegalArgumentException("'actions' parameter must be " + "," + ");
}
/**
 * Checks whether the given object is equal to this DmtPrincipalPermission instance. Two DmtPrincipalPermission instances are equal if they have the same target string.
 * @param obj the object to compare to this DmtPrincipalPermission instance
 * @return [ @code true ] if the parameter represents the same permissions as this instance
 */
public boolean equals(Object obj) {
    if (obj == this)
        return true;
    if (!(obj instanceof DmtPrincipalPermission))
        return false;
    DmtPrincipalPermission other = (DmtPrincipalPermission) obj;
    return isPrefix == other.isPrefix && principal.equals(other.principal);
}
/**
 * Returns the action list (always [ @code * ] in the current version).
 * @return the action string "*"
 */
public String getActions() {
    return "*";
}
/**
 * Returns the hash code for this permission object. If two DmtPrincipalPermission objects are equal according to the
 * [ @link #equals(Object) } method, then calling this method on each of the

public int hashCode() {
    return new Boolean(isPrefix).hashCode() ^ principal.hashCode();
}

/**
 * Checks if this DmtPrincipalPermission object implies the specified
 * permission. Another DmtPrincipalPermission instance is implied by this
 * permission either if the target strings are identical, or if this target
 * can be made identical to the other target by replacing a trailing
 * "*" with any string.
 * @param p the permission to check for implication
 * @return true if this DmtPrincipalPermission instance implies the
 *         specified permission
 */
public boolean implies(Permission p) {
    if (!(p instanceof DmtPrincipalPermission))
        return false;
    DmtPrincipalPermission other = (DmtPrincipalPermission) p;

    return impliesPrincipal(other);
}

/**
 * Returns true if the principal parameter of the given
 * DmtPrincipalPermission is implied by the principal of this permission,
 * i.e. this principal is a prefix of the other principal but ends with a *,
 * or the two principal strings are equal.
 */
boolean impliesPrincipal(DmtPrincipalPermission p) {
    return isPrefix ? p.principal.startsWith(principal) : !p.isPrefix && p.principal.equals(principal);
}
/**
 * Represents a homogeneous collection of DmtPrincipalPermission objects.
 */
final class DmtPrincipalPermissionCollection extends PermissionCollection {
private static final long serialVersionUID = -66921035375802684L;

private ArrayList perms;

/**
 * Create an empty DmtPrincipalPermissionCollection object.
 */
public DmtPrincipalPermissionCollection() {
perms = new ArrayList();
}

/**
 * Adds a permission to the DmtPrincipalPermissionCollection.
 *
 * @param permission the Permission object to add
 * @exception IllegalArgumentException if the permission is not a
 * DmtPrincipalPermission
 * @exception SecurityException if this DmtPrincipalPermissionCollection
 * object has been marked readonly
 */
public void add(Permission permission) {
if (!(permission instanceof DmtPrincipalPermission))
throw new IllegalArgumentException("Cannot add permission, invalid permission type: " + permission);
if (isReadOnly())
throw new SecurityException("Cannot add permission, collection is marked read-only.");

// only add new permission if it is not already implied by the
// permissions in the collection
if (!implies(permission)) {
// remove all permissions that are implied by the new one
Iterator i = perms.iterator();
while (i.hasNext())
if (permission.implies((DmtPrincipalPermission) i.next()))
i.remove();

// no need to synchronize because all adds are done sequentially
// before any implies() calls
perms.add(permission);
}
}
* Check whether this set of permissions implies the permission specified in
  * the parameter.
  *
  * @param permission the Permission object to compare
  * @return true if the parameter permission is a proper subset of the
  *         permissions in the collection, false otherwise
  */
public boolean implies(Permission permission) {
if (!(permission instanceof DmtPrincipalPermission))
return false;

DmtPrincipalPermission other = (DmtPrincipalPermission) permission;

Iterator i = perms.iterator();
while (i.hasNext())
if (((DmtPrincipalPermission) i.next()).impliesPrincipal(other))
return true;

return false;
}

/**
 * Returns an enumeration of all the DmtPrincipalPermission objects in the
 * container. The returned value cannot be [ @code null ].
 * @return an enumeration of all the DmtPrincipalPermission objects
 */
public Enumeration elements() {
  // Convert Iterator into Enumeration
  return Collections.enumeration(perms);
}

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 */
package org.osgi.service.dmt;

/**
 * Unchecked illegal state exception. This class is used in DMT because
 * java.lang.IllegalStateException does not exist in CLDC.
 *
 * @author $Id: ab7441ab9ccea82894de416498a66b9376001581 $
 */
public class DmtIllegalStateException extends RuntimeException {
    private static final long serialVersionUID = 2015244852018469700L;

    /**
     * Create an instance of the exception with no message.
     *
     */
    public DmtIllegalStateException() {
        super();
    }

    /**
     * Create an instance of the exception with the specified message.
     *
     * @param message the reason for the exception
     *
     */
    public DmtIllegalStateException(String message) {
        super(message);
    }

    /**
     * Create an instance of the exception with the specified cause exception
     * and no message.
     *
     * @param cause the cause of the exception
     *
     */
    public DmtIllegalStateException(Throwables cause) {
        super(cause);
    }

    /**
     * Create an instance of the exception with the specified message and cause
     * exception.
     *
     * @param message the reason for the exception
     * @param cause the cause of the exception
     *
     */
    public DmtIllegalStateException(String message, Throwable cause) {
        super(message, cause);
    }
}
package org.osgi.service.event;

import java.io.IOException;
import java.io.ObjectInputStream;
import java.io.ObjectOutputStream;
import java.io.ObjectStreamField;
import java.security.Permission;
import java.security.PermissionCollection;
import java.util.ArrayList;
import java.util.Collections;
import java.util.Enumeration;
import java.util.HashMap;
import java.util.Hashtable;
import java.util.List;
import java.util.Map;

/**
 * A bundle's authority to publish or subscribe to event on a topic.
 * <p>
 * A topic is a slash-separated string that defines a topic.
 * <p>
 * For example:
 * <p>
 * <code>
 * org/osgi/service/foo/FooEvent/ACTION
 * </code>
 * <p>
 * [@code TopicPermission] has two actions: [@code publish] and
 * [@code subscribe].
 */

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 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
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 * limitations under the License.
 */
public final class TopicPermission extends Permission {
  static final long serialVersionUID = -585563886961618300L;
  /**
   * The action string [code publish].
   */
  public final static String PUBLISH = "publish";
  /**
   * The action string [code subscribe].
   */
  public final static String SUBSCRIBE = "subscribe";
  private final static int ACTION_PUBLISH = 0x00000001;
  private final static int ACTION_SUBSCRIBE = 0x00000002;
  private final static int ACTION_ALL = ACTION_PUBLISH | ACTION_SUBSCRIBE;
  private final static int ACTION_NONE = 0;
  /**
   * The actions mask.
   */
  private transient int action_mask;
  /**
   * prefix if the name is wildcarded.
   */
  private transient volatile String prefix;
  /**
   * The actions in canonical form.
   */
  * 
  * @serial
  */
  private volatile String actions = null;
  /**
   * Defines the authority to publich and/or subscribe to a topic within the
   * EventAdmin service.
   * <p>
   * The name is specified as a slash-separated string. Wildcards may be used.
   * For example:
   * 
   * org/osgi/service/fooFooEvent/ACTION
   * com/isv/*
   * *
   * pre
   * 
   * p
   */
* A bundle that needs to publish events on a topic must have the
* appropriate [@code TopicPermission] for that topic; similarly, a bundle
* that needs to subscribe to events on a topic must have the appropriate
* [@code TopicPermission] for that topic.
* <p>
* @param name Topic name.
* @param actions [@code publish], [@code subscribe] (canonical order).
*/
public TopicPermission(String name, String actions) {
    this(name, parseActions(actions));
}

/**
 * Package private constructor used by TopicPermissionCollection.
 *
 * @param name class name
 * @param mask action mask
 */
TopicPermission(String name, int mask) {
    super(name);
    setTransients(mask);
}

/**
 * Called by constructors and when deserialized.
 *
 * @param name topic name
 * @param mask action mask
 */
private synchronized void setTransients(final int mask) {
    final String name = getName();
    if ((name == null) || name.length() == 0) {
        throw new IllegalArgumentException("invalid name");
    }
    if ((mask == ACTION_NONE) || ((mask & ACTION_ALL) != mask)) {
        throw new IllegalArgumentException("invalid action string");
    }
    action_mask = mask;
    if (name.equals("\*\*")) {
        prefix = "";
    } else {
        if (name.endsWith("\*/")) {
            prefix = name.substring(0, name.length() - 1);
        } else {
            prefix = null;
        }
    }
}
/**
 * Returns the current action mask.
 * <p>
 * Used by the TopicPermissionCollection class.
 * *
 * @return Current action mask.
 */
synchronized int getActionsMask() {
    return action_mask;
}

/**
 * Parse action string into action mask.
 * *
 * @param actions Action string.
 * @return action mask.
 */
private static int parseActions(final String actions) {
    boolean seencomma = false;
    int mask = ACTION_NONE;
    if (actions == null) {
        return mask;
    }
    char[] a = actions.toCharArray();
    int i = a.length - 1;
    if (i < 0)
        return mask;
    while (i != -1) {
        char c;
        // skip whitespace
        while ((i != -1) && ((c = a[i]) == ' ' || c == '' || c == '
' || c == '' || c == '	'))
            i--;
        // check for the known strings
        int matchlen;
        if (i >= 8 && ((c = a[i]) == ' ' || c == 'u' || c == 'u' || c == 'f' || c == 'f'))
            i--;
        // check for the known strings
        int matchlen;
        if (i >= 8 && (a[i - 8] == 's' || a[i - 8] == 'S')
            && (a[i - 7] == 'u' || a[i - 7] == 'U')
            && (a[i - 6] == 'b' || a[i - 6] == 'B')
            && (a[i - 5] == 's' || a[i - 5] == 'S')
            && (a[i - 4] == 'c' || a[i - 4] == 'C')
            && (a[i - 3] == 'r' || a[i - 3] == 'R')
            && (a[i - 2] == 'i' || a[i - 2] == 'I')
            && (a[i - 1] == 'b' || a[i - 1] == 'B')
            && (a[i] == 'e' || a[i] == 'E'))
            matchlen = 9;
mask |= ACTION_SUBSCRIBE;
}
else
if (i >= 6 && (a[i - 6] == 'p' || a[i - 6] == 'P')
&& (a[i - 5] == 'u' || a[i - 5] == 'U')
&& (a[i - 4] == 'b' || a[i - 4] == 'B')
&& (a[i - 3] == 'l' || a[i - 3] == 'L')
&& (a[i - 2] == 'i' || a[i - 2] == 'I')
&& (a[i - 1] == 's' || a[i - 1] == 'S')
&& (a[i] == 'h' || a[i] == 'H')) {
matchlen = 7;
mask |= ACTION_PUBLISH;
}
else {
// parse error
throw new IllegalArgumentException("invalid permission: "
+ actions);
}
// make sure we didn't just match the tail of a word
// like "ackbarfpublish". Also, skip to the comma.
seencomma = false;
while (i >= matchlen && !seencomma) {
switch (a[i - matchlen]) {
 case ',' :
seencomma = true;
 /* FALLTHROUGH */
 case ' ' :
break;
 default :
throw new IllegalArgumentException("invalid permission: " + actions);
}
i--;
}
// point i at the location of the comma minus one (or -1).
i -= matchlen;
if (seencomma) {
throw new IllegalArgumentException("invalid permission: " + actions);
}
return mask;

/**
 * Determines if the specified permission is implied by this object.
This method checks that the topic name of the target is implied by the topic name of this object. The list of @code TopicPermission] actions must either match or allow for the list of the target object to imply the target @code TopicPermission] action.

```java
public boolean implies(Permission p) {
    if (p instanceof TopicPermission) {
        TopicPermission requested = (TopicPermission) p;
        int requestedMask = requested.getActionsMask();
        if ((getActionsMask() & requestedMask) == requestedMask) {
            String requestedName = requested.getName();
            String pre = prefix;
            if (pre != null) {
                return requestedName.startsWith(pre);
            }
            return requestedName.equals(getName());
        }
    }
    return false;
}
```

This method returns the canonical string representation of the @code TopicPermission] actions.

```java
public String getActions() {
    String result = actions;
    return result;
}
```
if (result == null) {
    StringBuffer sb = new StringBuffer();
    boolean comma = false;
    int mask = getActionsMask();
    if ((mask & ACTION_PUBLISH) == ACTION_PUBLISH) {
        sb.append(PUBLISH);
        comma = true;
    }
    if ((mask & ACTION_SUBSCRIBE) == ACTION_SUBSCRIBE) {
        if (comma)
            sb.append(',');
        sb.append(SUBSCRIBE);
    }
    actions = result = sb.toString();
}
return result;
}

/**
 * Returns a new {@code PermissionCollection} object suitable for storing
 * [ @code TopicPermission ] objects.
 * *
 * @return A new [ @code PermissionCollection ] object.
 */
public PermissionCollection newPermissionCollection() {
    return new TopicPermissionCollection();
}

/**
 * Determines the equality of two [ @code TopicPermission ] objects.
 *
 * This method checks that specified [ @code TopicPermission ] has the same
 * topic name and actions as this [ @code TopicPermission ] object.
 *
 * @param obj The object to test for equality with this
 * [ @code TopicPermission ] object.
 * @return [ @code true ] if [ @code obj ] is a [ @code TopicPermission ], and has
 * the same topic name and actions as this [ @code TopicPermission ]
 * object; [ @code false ] otherwise.
 */
public boolean equals(Object obj) {
    if (obj == this) {
        return true;
    }
    if (!(obj instanceof TopicPermission)) {
        return false;
    }
    TopicPermission tp = (TopicPermission) obj;
return (getActionsMask() == tp.getActionsMask()) && getName().equals(tp.getName());
}

/**
 * Returns the hash code value for this object.
 *
 * @return A hash code value for this object.
 */
public int hashCode() {
    int h = 31 * 17 + getName().hashCode();
    h = 31 * h + getActions().hashCode();
    return h;
}

/**
 * WriteObject is called to save the state of this permission object to a
 * stream. The actions are serialized, and the superclass takes care of the
 * name.
 */
private synchronized void writeObject(java.io.ObjectOutputStream s) throws IOException {
    // Write out the actions. The superclass takes care of the name
    // call getActions to make sure actions field is initialized
    if (actions == null)
        getActions();
    s.defaultWriteObject();
}

/**
 * readObject is called to restore the state of this permission from a
 * stream.
 */
private synchronized void readObject(java.io.ObjectInputStream s) throws IOException, ClassNotFoundException {
    // Read in the action, then initialize the rest
    s.defaultReadObject();
    setTransients(parseActions(actions));
}

/**
 * Stores a set of (@code TopicPermission) permissions.
 *
 * @see java.security.Permission
 * @see java.security.Permissions
 * @see java.security.PermissionCollection
 */
final class TopicPermissionCollection extends PermissionCollection {
    static final long serialVersionUID = -614647783533924048L;

    /**
     * Stores a set of (@code TopicPermission) permissions.
     *
     * @see java.security.Permission
     * @see java.security.Permissions
     * @see java.security.PermissionCollection
     */
    final class TopicPermissionCollection extends PermissionCollection {
    static final long serialVersionUID = -614647783533924048L;
private transient Map<String, TopicPermission> permissions;
/**
 * Boolean saying if "*" is in the collection.
 */
private boolean all_allowed;

/**
 * Create an empty TopicPermissions object.
 */
public TopicPermissionCollection() {
    permissions = new HashMap<String, TopicPermission>();
    all_allowed = false;
}

/**
 * Adds a permission to the @code TopicPermission objects. The key for the
 * hash is the name.
 * @param permission The @code TopicPermission object to add.
 * @throws IllegalArgumentException If the permission is not a
 *         @code TopicPermission instance.
 * @throws SecurityException If this @code TopicPermissionCollection
 *         object has been marked read-only.
 */
public void add(final Permission permission) {
    if (!(permission instanceof TopicPermission)) {
        throw new IllegalArgumentException("invalid permission: "+ permission);
    }
    if (isReadOnly()) {
        throw new SecurityException("attempt to add a Permission to a " + "readonly PermissionCollection");
    }
    final TopicPermission tp = (TopicPermission) permission;
    final String name = tp.getName();
    final int newMask = tp.getActionsMask();
    synchronized (this) {
        final TopicPermission existing = permissions.get(name);
        if (existing != null) {

final int oldMask = existing.getActionsMask();
if (oldMask != newMask) {
    permissions.put(name, new TopicPermission(name, oldMask | newMask));
} else {
    permissions.put(name, tp);
}
if (!all_allowed) {
    if (name.equals("*"))
        all_allowed = true;
}
}

/**
 * Determines if the specified permissions implies the permissions expressed
 * in {@code permission}.
 *
 * @param permission The Permission object to compare with this
 *        {@code TopicPermission} object.
 *
 * @return {@code true} if {@code permission} is a proper subset of a
 *         permission in the set; {@code false} otherwise.
 */
public boolean implies(final Permission permission) {
    if (!(permission instanceof TopicPermission)) {
        return false;
    }
    final TopicPermission requested = (TopicPermission) permission;
    String name = requested.getName();
    final int desired = requested.getActionsMask();
    int effective = 0;
    TopicPermission x;
    // short circuit if the "*" Permission was added
    synchronized (this) {
        if (all_allowed) {
            x = permissions.get("*");
            if (x != null) {
                effective |= x.getActionsMask();
                if ((effective & desired) == desired) {
                    return true;
                }
            }
        }
        x = permissions.get(name);
    }
    // strategy:
// Check for full match first. Then work our way up the
// name looking for matches on a/b/*
if (x != null) {
    // we have a direct hit!
effective |= x.getActionsMask();
    if ((effective & desired) == desired) {
        return true;
    }
}

// work our way up the tree...
int last;
int offset = name.length() - 1;
while ((last = name.lastIndexOf("/", offset)) != -1) {
    name = name.substring(0, last + 1) + "*";
    synchronized (this) {
        x = permissions.get(name);
    }
    if (x != null) {
        effective |= x.getActionsMask();
        if ((effective & desired) == desired) {
            return true;
        }
    }
    offset = last - 1;
}
// we don't have to check for "*" as it was already checked
// at the top (all_allowed), so we just return false
return false;

/**
 * Returns an enumeration of all [code TopicPermission] objects in the
 * container.
 *
 * @return Enumeration of all [code TopicPermission] objects.
 */
public synchronized Enumeration<Permission> elements() {
    List<Permission> all = new ArrayList<Permission>(permissions.values());
    return Collections.enumeration(all);
}

/* serialization logic */
private static final ObjectStreamField[] serialPersistentFields = {
    new ObjectStreamField("permissions", Hashtable.class),
    new ObjectStreamField("all_allowed", Boolean.TYPE)
};

private synchronized void writeObject(ObjectOutputStream out) throws IOException {
    Hashtable<String, TopicPermission> hashtable = new Hashtable<String, TopicPermission>(permissions);
    ObjectOutputStream.PutField pfields = out.putFields();

    hashtable = new Hashtable<String, TopicPermission>(permissions);
    ObjectOutputSteam.PutField pfields = out.putFields();
pfields.put("permissions", hashtable);
pfields.put("all_allowed", all_allowed);
out.writeFields();
}

private synchronized void readObject(java.io.ObjectInputStream in) throws IOException, ClassNotFoundException {
    ObjectInputStream.GetField gfields = in.readFields();
    Hashtable<String, TopicPermission> hashtable = (Hashtable<String, TopicPermission>) gfields.get("permissions", null);
    permissions = new HashMap<String, TopicPermission>(hashtable);
    all_allowed = gfields.get("all_allowed", false);
}

package org.osgi.service.monitor;

import java.io.UnsupportedEncodingException;
import java.security.Permission;
import java.util.StringTokenizer;

/**
 * Indicates the callers authority to publish, read or reset
 * StatusVariable)s, to switch event sending on or off or to start
 * monitoring jobs. The target of the permission is the identifier of the
 * StatusVariable], the action can be [ @code read], [ @code publish],
 * [ @code reset], [ @code startJob], [ @code switchEvents], or the combination of
 * these separated by commas. Action names are interpreted case-insensitively,
 * but the canonical action string returned by [ @link #getActions()] uses the
 * forms defined by the action constants.
 * <p>
 * If the wildcard [ @code *] appears in the actions field, all legal monitoring
 * commands are allowed on the designated target(s) by the owner of the

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 * limitations under the License. */

//
public class MonitorPermission extends Permission {

private static final long serialVersionUID = -9084425194463274314L;

public static final String READ = "read";

public static final String RESET = "reset";

public static final String PUBLISH = "publish";

public static final String startjob = "startjob:n";

public static final long MINIMAL_SAMPLING_INTERVAL = 1;

/**
 * Holders of {@link MonitorPermission} with the {@link #READ} action present
 * are allowed to read the value of the {@link StatusVariable}s specified in
 * the permission's target field.
 *
 */

/**
 * Holders of {@link MonitorPermission} with the {@link #RESET} action
 * present are allowed to reset the value of the {@link StatusVariable}s
 * specified in the permission's target field.
 *
 */

/**
 * Holders of {@link MonitorPermission} with the {@link #PUBLISH} action
 * present are allowed to publish the
 * {@link StatusVariable}s specified in the permission's target field. Note,
 * that this permission cannot be enforced when a {@link Monitorable}
 * registers to the framework, because the Service Registry does not know
 * about this permission. Instead, any {@link StatusVariable}s published by
 * a {@link Monitorable} without the corresponding {@link #PUBLISH}
 * permission are silently ignored by {@link MonitorAdmin}, and are
 * therefore invisible to the users of the monitoring service.
 *
 */

/**
 * Holders of {@link MonitorPermission} with the {@link #startjob} action
 * present are allowed to initiate monitoring jobs involving the
 * {@link StatusVariable}s specified in the permission's target field.
 *
 */

*/

* permission.
*
* @author $Id: 2899bf825eb4b7708601d99fb39019087deddefb $
* frequency.
*/

public static final String STARTJOB = "startjob";

/**
 * Holders of {@code MonitorPermission} with the {@code switchevents} action
 * present are allowed to switch event sending on or off for the value of
 * the {@code StatusVariable}s specified in the permission's target field.
 */

public static final String SWITCHEVENTS = "switchevents";

private static final int READ_FLAG = 0x1;
private static final int RESET_FLAG = 0x2;
private static final int PUBLISH_FLAG = 0x4;
private static final int STARTJOB_FLAG = 0x8;
private static final int SWITCHEVENTS_FLAG = 0x10;

private static final int ALL_FLAGS = READ_FLAG | RESET_FLAG | PUBLISH_FLAG | STARTJOB_FLAG | SWITCHEVENTS_FLAG;

private String monId;
private String varId;
prefixMonId;
prefixVarId;
private int mask;
private int minJobInterval;

/**
 * Create a {@code MonitorPermission} object, specifying the target and
 * actions.
 * <p>
 * The [@code statusVariable] parameter is the target of the permission,
 * defining one or more status variable names to which the specified actions
 * apply. Multiple status variable names can be selected by using the
 * wildcard [@code *] in the target string. The wildcard is allowed in both
 * fragments, but only at the end of the fragments.
 * <p>
 * For example, the following targets are valid:
 * [@code com.mycomp.myapp/queue_length], [@code com.mycomp.myapp/*],
 * [@code &amp;#42;//*], <code>&amp;#42;/</code>, <code>&amp;#42;/</code>, <code>&amp;#42;/queue</code>, <code>&amp;#42;/queue*</code>.
 * <p>
 * The following targets are invalid: [@code *..myapp/queue_length],
 * [@code myapp/queue_length], [@code *].
 */

* [@code read], [@code publish], [@code startjob], [@code reset],
* [@code switchevents], or the combination of these separated by commas.
String constants are defined in this class for each valid action. Passing
[@code "*" ] as the action string is equivalent to listing all actions.
*
* @param statusVariable the identifier of the [ @code StatusVariable ] in
*        [Monitorable_id]/[StatusVariable_id] format
* @param actions the list of allowed actions separated by commas, or
*        [ @code * ] for all actions
* @throws java.lang.IllegalArgumentException if either parameter is
*        [ @code null ], or invalid with regard to the constraints defined
*        above and in the documentation of the used actions
*/
public MonitorPermission(String statusVariable, String actions) throws IllegalArgumentException {
    super(statusVariable);
    if (statusVariable == null)
        throw new IllegalArgumentException("Invalid StatusVariable path 'null'.");
    if (actions == null)
        throw new IllegalArgumentException("Invalid actions string 'null'.");

    int sep = statusVariable.indexOf('/');
    int len = statusVariable.length();
    if (sep == -1)
        throw new IllegalArgumentException("Invalid StatusVariable path: should contain '/' separator.");
    if (sep == 0 || sep == statusVariable.length() - 1)
        throw new IllegalArgumentException("Invalid StatusVariable path: empty monitorable ID or StatusVariable
name.");

    prefixMonId = statusVariable.charAt(sep - 1) == '*';
    prefixVarId = statusVariable.charAt(len - 1) == '*';

    monId = statusVariable.substring(0, prefixMonId ? sep - 1 : sep);
    varId = statusVariable.substring(sep + 1, prefixVarId ? len - 1 : len);

    checkId(monId, "Monitorable ID part of the target");
    checkId(varId, "Status Variable ID part of the target");

    minJobInterval = 0;

    if (actions.equals("*"))
        mask = ALL_FLAGS;
    else {
        mask = 0;
        StringTokenizer st = new StringTokenizer(actions, ",");
        while (st.hasMoreTokens()) {
            String action = st.nextToken().trim();
            if (action.equalsIgnoreCase(READ)) {
addToMask(READ_FLAG, READ);
} else
if (action.equalsIgnoreCase(RESET)) {
addToMask(RESET_FLAG, RESET);
} else
if (action.equalsIgnoreCase(PUBLISH)) {
addToMask(PUBLISH_FLAG, PUBLISH);
} else
if (action.equalsIgnoreCase(SWITCHEVENTS)) {
addToMask(SWITCHEVENTS_FLAG, SWITCHEVENTS);
} else
if (action.toLowerCase().startsWith(STARTJOB)) {
minJobInterval = 0;

int slen = STARTJOB.length();
if (action.length() != slen) {
if (action.charAt(slen) != ':')
throw new IllegalArgumentException("Invalid action '" + action + '".");

try {
minJobInterval = Integer.parseInt(action.substring(slen + 1));
} catch (NumberFormatException e) {
throw new IllegalArgumentException("Invalid parameter in startjob action '" + action + '".");
}
addToMask(STARTJOB_FLAG, STARTJOB);
} else
throw new IllegalArgumentException("Invalid action '" + action + '".");
}

private void addToMask(int action, String actionString) {
if ((mask & action) != 0)
throw new IllegalArgumentException("Invalid action string: " + actionString + " appears multiple times.");

mask |= action;
}

private void checkId(String id, String idName) throws IllegalArgumentException {
byte[] nameBytes;
try {
nameBytes = id.getBytes("UTF-8");
} catch (UnsupportedEncodingException e) {
// never happens, "UTF-8" must always be supported
throw new IllegalStateException(e.getMessage());
}
if (nameBytes.length > StatusVariable.MAX_ID_LENGTH)
throw new IllegalArgumentException(idName + " is too long (over " + StatusVariable.MAX_ID_LENGTH + "
bytes in UTF-8 encoding.");

if (id.equals( ".") || id.equals(".."))
throw new IllegalArgumentException(idName + " is invalid.");

char[] chars = id.toCharArray();
for (int i = 0; i < chars.length; i++)
if (StatusVariable.SYMBOLIC_NAME_CHARACTERS.indexOf(chars[i]) == -1)
throw new IllegalArgumentException(idName + " contains invalid characters.");

/**
* Create an integer hash of the object. The hash codes of
* MonitorPermission s [ @code p1 ] and [ @code p2 ] are the same if
* [ @code p1.equals(p2) ].
* @return the hash of the object
*/
public int hashCode() {
return new Integer(mask).hashCode() ^ new Integer(minJobInterval).hashCode() ^ monId.hashCode() ^
new Boolean(prefixMonId).hashCode() ^ varId.hashCode() ^ new Boolean(prefixVarId).hashCode();
}

/**
* Determines the equality of two MonitorPermission objects. Two
* MonitorPermission objects are equal if their target strings are
* equal and the same set of actions are listed in their action strings.
* @param o the object being compared for equality with this object
* @return [ @code true ] if the two permissions are equal
*/
public boolean equals(Object o) {
if (!(o instanceof MonitorPermission))
return false;

MonitorPermission other = (MonitorPermission) o;
return mask == other.mask &&
minJobInterval == other.minJobInterval &&
monId.equals(other.monId) &&
prefixMonId == other.prefixMonId &&
varId.equals(other.varId) &&
prefixVarId == other.prefixVarId;
}

/**
* Get the action string associated with this permission. The actions are
* returned in the following order: [ @code read ], [ @code reset ],
* [ @code publish ], [ @code startjob ], [ @code switchevents ].
*/
public String getActions() {
    StringBuffer sb = new StringBuffer();

    appendAction(sb, READ_FLAG, READ);
    appendAction(sb, RESET_FLAG, RESET);
    appendAction(sb, PUBLISH_FLAG, PUBLISH);
    appendAction(sb, STARTJOB_FLAG, STARTJOB);
    appendAction(sb, SWITCHEVENTS_FLAG, SWITCHEVENTS);

    return sb.toString();
}

private void appendAction(StringBuffer sb, int flag, String actionName) {
    if ((mask & flag) != 0) {
        if (sb.length() != 0)
            sb.append(',');
        sb.append(actionName);
        if (flag == STARTJOB_FLAG && minJobInterval != 0)
            sb.append(':').append(minJobInterval);
    }
}

/**
 * Determines if the specified permission is implied by this permission.
 * @param p the permission to be checked
 * @return true if the given permission is implied by this permission
 */
public boolean implies(Permission p) {
    if (!(p instanceof MonitorPermission))
        return false;

    return false;
}
return false;

MonitorPermission other = (MonitorPermission) p;

if ((mask & other.mask) != other.mask)
    return false;

if ((other.mask & STARTJOB_FLAG) != 0 && minJobInterval > other.minJobInterval)
    return false;

return implies(monId, prefixMonId, other.monId, other.prefixMonId) && implies(varId, prefixVarId, other.varId, other.prefixVarId);
}

private boolean implies(String id, boolean prefix, String oid, boolean oprefix) {
    return prefix ? oid.startsWith(id) : !oprefix && id.equals(oid);
}

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**7.135 packethandler-impl 0.1.1-Helium-SR1**

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7.136 packethandler-model 0.1.1-Helium-SR1

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7.142 pcep-tunnel-api 0.3.2-Helium-SR1

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7.149 Plexus Interpolation API_ASLv1.1 1.15

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7.153 sal-akka-raft 1.1.1-Helium-SR1

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 */

package org.opendaylight.controller.cluster.example;

import akka.actor.ActorRef;
import akka.actor.Props;
import akka.actor.Creator;
import com.google.common.base.Optional;
import com.google.protobuf.ByteString;
import org.opendaylight.controller.cluster.DataPersistenceProvider;
import org.opendaylight.controller.cluster.example.messages.KeyValue;
import org.opendaylight.controller.cluster.example.messages.KeyValueSaved;
import org.opendaylight.controller.cluster.example.messages.PrintRole;
import org.opendaylight.controller.cluster.example.messages.PrintState;
import org.opendaylight.controller.cluster.raft.ConfigParams;
import org.opendaylight.controller.cluster.raft.RaftActor;
import org.opendaylight.controller.cluster.raft.base.messages.CaptureSnapshotReply;
import org.opendaylight.controller.cluster.raft.protobuff.client.messages.Payload;

import java.io.ByteArrayInputStream;
import java.io.ByteArrayOutputStream;
import java.io.IOException;
import java.io.ObjectInputStream;
import java.io.ObjectOutputStream;
import java.util.HashMap;
import java.util.Map;

/**
 * A sample actor showing how the RaftActor is to be extended
 */
```
public class ExampleActor extends RaftActor {

    private final Map<String, String> state = new HashMap();
    private final DataPersistenceProvider dataPersistenceProvider;

    private long persistIdentifier = 1;

    public ExampleActor(String id, Map<String, String> peerAddresses,
                         Optional<ConfigParams> configParams) {
        super(id, peerAddresses, configParams);
        this.dataPersistenceProvider = new PersistentDataProvider();
    }

    public static Props props(final String id, final Map<String, String> peerAddresses,
                               final Optional<ConfigParams> configParams){
        return Props.create(new Creator<ExampleActor>(){

            @Override public ExampleActor create() throws Exception {
                return new ExampleActor(id, peerAddresses, configParams);
            }
        });
    }

    @Override public void onReceiveCommand(Object message) throws Exception{
        if(message instanceof KeyValue){
            if(isLeader()) {
                String persistId = Long.toString(persistIdentifier++);
                persistData(getSender(), persistId, (Payload) message);
            } else {
                if(getLeader() != null) {
                    getLeader().forward(message, getContext());
                }
            }
        } else if (message instanceof PrintState) {
            if(LOG.isDebugEnabled()) {
                LOG.debug("State of the node:{} has entries={}, {}",
                           getId(), state.size(), getReplicatedLogState());
            }
        } else if (message instanceof PrintRole) {
            if(LOG.isDebugEnabled()) {
                LOG.debug("{} = {}, Peers={}", getId(), getRaftState(), getPeers());
            }
        } else {
        }
    }

    }
super.onReceiveCommand(message);
}

@override protected void applyState(ActorRef clientActor, String identifier, Object data) {
  if(data instanceof KeyValue){
    KeyValue kv = (KeyValue) data;
    state.put(kv.getKey(), kv.getValue());
    if(clientActor != null) {
      clientActor.tell(new KeyValueSaved(), getSelf());
    }
  }
}

@override protected void createSnapshot() {
  ByteString bs = null;
  try {
    bs = fromObject(state);
  } catch (Exception e) {
    LOG.error(e, "Exception in creating snapshot");
  }
  getSelf().tell(new CaptureSnapshotReply(bs), null);
}

@override protected void applySnapshot(ByteString snapshot) {
  state.clear();
  try {
    state.putAll((HashMap) toObject(snapshot));
  } catch (Exception e) {
    LOG.error(e, "Exception in applying snapshot");
  }
  if(LOG.isDebugEnabled()) {
    LOG.debug("Snapshot applied to state : ", ((HashMap) state).size());
  }
}

private ByteString fromObject(Object snapshot) throws Exception {
  ByteArrayOutputStream b = null;
  ObjectOutputStream o = null;
  try {
    b = new ByteArrayOutputStream();
    o = new ObjectOutputStream(b);
    o.writeObject(snapshot);
    byte[] snapshotBytes = b.toByteArray();
    return ByteString.copyFrom(snapshotBytes);
  } finally {
    if (o != null) {
    
    }
  }

o.flush();
o.close();
}
if (b != null) {
b.close();
}
}
}

private Object toObject(ByteString bs) throws ClassNotFoundException, IOException {
    Object obj = null;
    ByteArrayInputStream bis = null;
    ObjectInputStream ois = null;
    try {
        bis = new ByteArrayInputStream(bs.toByteArray());
        ois = new ObjectInputStream(bis);
        obj = ois.readObject();
    } finally {
        if (bis != null) {
            bis.close();
        }
        if (ois != null) {
            ois.close();
        }
    }
    return obj;
}

@Override protected void onStateChanged() {
}

@Override
protected DataPersistenceProvider persistence() {
    return dataPersistenceProvider;
}

@Override public void onReceiveRecover(Object message) throws Exception {
    super.onReceiveRecover(message);
}

@Override public String persistenceId() {
    return getId();
}

@Override
protected void startLogRecoveryBatch(int maxBatchSize) {
}
@Override
protected void appendRecoveredLogEntry(Payload data) {
}

@Override
protected void applyCurrentLogRecoveryBatch() {
}

@Override
protected void onRecoveryComplete() {
}

@Override
protected void applyRecoverySnapshot(ByteString snapshot) {
}

package org.opendaylight.controller.cluster.example;

import org.opendaylight.controller.cluster.raft.DefaultConfigParamsImpl;

public class ExampleConfigParamsImpl extends DefaultConfigParamsImpl {
    @Override
    public long getSnapshotBatchCount() {
        return 50;
    }

    @Override
    public int getSnapshotChunkSize() {
        return 50;
    }
}

package org.opendaylight.controller.cluster.example;

import org.opendaylight.controller.cluster.raft.DefaultConfigParamsImpl;

/**
 * Implementation of ConfigParams for Example
 */
public class ExampleConfigParamsImpl extends DefaultConfigParamsImpl {
    @Override
    public long getSnapshotBatchCount() {
        return 50;
    }

    @Override
    public int getSnapshotChunkSize() {
        return 50;
    }
}

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 */
package org.opendaylight.controller.cluster.raft.base.messages;

import java.io.Serializable;

/**
 * Message sent to commit an entry to the log
 */
public class CommitEntry implements Serializable {
}

package org.opendaylight.controller.cluster.raft.base.messages;

import akka.actor.ActorRef;
import org.opendaylight.controller.cluster.raft.ReplicatedLogEntry;
import java.io.Serializable;

public class Replicate implements Serializable {
    private final ActorRef clientActor;
    private final String identifier;
    private final ReplicatedLogEntry replicatedLogEntry;

    public Replicate(ActorRef clientActor, String identifier, ReplicatedLogEntry replicatedLogEntry) {
        this.clientActor = clientActor;
        this.identifier = identifier;
        this.replicatedLogEntry = replicatedLogEntry;
    }

    public ActorRef getClientActor() {
        return clientActor;
    }

    public String getIdentifier() {
        return identifier;
    }

    public ReplicatedLogEntry getReplicatedLogEntry() {
        return replicatedLogEntry;
    }
}
return replicatedLogEntry;
}
}

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*/

package org.opendaylight.controller.cluster.raft;

import java.util.concurrent.atomic.AtomicLong;

public class FollowerLogInformationImpl implements FollowerLogInformation{

    private final String id;

    private final AtomicLong nextIndex;

    private final AtomicLong matchIndex;

    public FollowerLogInformationImpl(String id, AtomicLong nextIndex, AtomicLong matchIndex) {
        this.id = id;
        this.nextIndex = nextIndex;
        this.matchIndex = matchIndex;
    }

    public long incrNextIndex(){
        return nextIndex.incrementAndGet();
    }

    @Override public long decrNextIndex() {
        return nextIndex.decrementAndGet();
    }

    @Override public void setNextIndex(long nextIndex) {
        this.nextIndex.set(nextIndex);
    }

    public long incrMatchIndex(){
        return matchIndex.incrementAndGet();
    }

    @Override public void setMatchIndex(long matchIndex) {
        this.matchIndex.set(matchIndex);
    }
public String getId() {
    return id;
}

public AtomicLong getNextIndex() {
    return nextIndex;
}

public AtomicLong getMatchIndex() {
    return matchIndex;
}

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 */

package org.opendaylight.controller.cluster.raft;

import akka.actor.ActorRef;
import akka.actor.ActorSelection;
import akka.actor.ActorSystem;
import akka.actor.Props;
import akka.actor.UntypedActorContext;
import akka.event.LoggingAdapter;
import java.util.Map;
import static com.google.common.base.Preconditions.checkState;

public class RaftActorContextImpl implements RaftActorContext {
    private final ActorRef actor;
    private final UntypedActorContext context;
    private final String id;
    private final ElectionTerm termInformation;
    private long commitIndex;

private long lastApplied;

private ReplicatedLog replicatedLog;

private final Map<String, String> peerAddresses;

private final LoggingAdapter LOG;

private final ConfigParams configParams;

public RaftActorContextImpl(ActorRef actor, UntypedActorContext context,
        String id,
        ElectionTerm termInformation, long commitIndex,
        long lastApplied, ReplicatedLog replicatedLog,
        Map<String, String> peerAddresses, ConfigParams configParams,
        LoggingAdapter logger) {
    this.actor = actor;
    this.context = context;
    this.id = id;
    this.termInformation = termInformation;
    this.commitIndex = commitIndex;
    this.lastApplied = lastApplied;
    this.replicatedLog = replicatedLog;
    this.peerAddresses = peerAddresses;
    this.configParams = configParams;
    this.LOG = logger;
}

@Override
public ActorRef actorOf(Props props){
    return context.actorOf(props);
}

@Override
public ActorSelection actorSelection(String path){
    return context.actorSelection(path);
}

@Override
public String getId() {
    return id;
}

@Override
public ActorRef getActor() {
    return actor;
}
@Override
public ElectionTerm getTermInformation() {
    return termInformation;
}

@Override
public long getCommitIndex() {
    return commitIndex;
}

@Override
public void setCommitIndex(long commitIndex) {
    this.commitIndex = commitIndex;
}

@Override
public long getLastApplied() {
    return lastApplied;
}

@Override
public void setLastApplied(long lastApplied) {
    this.lastApplied = lastApplied;
}

@Override
public void setReplicatedLog(ReplicatedLog replicatedLog) {
    this.replicatedLog = replicatedLog;
}

@Override
public ReplicatedLog getReplicatedLog() {
    return replicatedLog;
}

@Override
public ActorSystem getActorSystem() {
    return context.system();
}

@Override
public LoggingAdapter getLogger() {
    return this.LOG;
}

@Override
public Map<String, String> getPeerAddresses() {
    return peerAddresses;
}

@Override
public String getPeerAddress(String peerId) {
    return peerAddresses.get(peerId);
}

@Override
public ConfigParams getConfigParams() {
return configParams;
}

@Override public void addToPeers(String name, String address) {
    peerAddresses.put(name, address);
}

@Override public void removePeer(String name) {
    peerAddresses.remove(name);
}

@Override public ActorSelection getPeerActorSelection(String peerId) {
    String peerAddress = getPeerAddress(peerId);
    if(peerAddress != null){
        return actorSelection(peerAddress);
    }
    return null;
}

@Override public void setPeerAddress(String peerId, String peerAddress) {
    LOG.info("Peer address for peer {} set to {}", peerId, peerAddress);
    checkState(peerAddresses.containsKey(peerId), peerId + " is unknown");

    peerAddresses.put(peerId, peerAddress);
}
*/

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 */

package org.opendaylight.controller.cluster.raft;

import com.google.protobuf.ByteString;
import java.util.List;

/**
 * Represents the ReplicatedLog that needs to be kept in sync by the RaftActor
 */
public interface ReplicatedLog {
    /**
     * Get a replicated log entry at the specified index
     *
     * @param index the index of the log entry
     */

@return the ReplicatedLogEntry at index. null if index less than 0 or greater than the size of the in-memory journal.
*/
ReplicatedLogEntry get(long index);

/**
 * Get the last replicated log entry
 */
* @return
*/
ReplicatedLogEntry last();

/**
 * @return
*/
long lastIndex();

/**
 * @return
*/
long lastTerm();

/**
 * To be called when we need to remove entries from the in-memory log.
 * This method will remove all entries >= index. This method should be used
during recovery to appropriately trim the log based on persisted
* information
*
* @param index the index of the log entry
*/
void removeFrom(long index);

/**
 * To be called when we need to remove entries from the in-memory log and we
 * need that information persisted to disk. This method will remove all
 * entries >= index.
 * <p>
 * The persisted information would then be used during recovery to properly
 * reconstruct the state of the in-memory replicated log
 * *
 * @param index the index of the log entry
 */
void removeFromAndPersist(long index);
/**
 * Append an entry to the log
 * @param replicatedLogEntry
 */
void append(ReplicatedLogEntry replicatedLogEntry);

/**
 * Optimization method to increase the capacity of the journal log prior to appending entries.
 * @param amount the amount to increase by
 */
void increaseJournalLogCapacity(int amount);

/**
 * @param replicatedLogEntry
 */
void appendAndPersist(final ReplicatedLogEntry replicatedLogEntry);

/**
 * @param index the index of the log entry
 */
List<ReplicatedLogEntry> getFrom(long index);

/**
 * @param index the index of the log entry
 */
List<ReplicatedLogEntry> getFrom(long index, int max);

/**
 * @return
 */
long size();

/**
 * Checks if the entry at the specified index is present or not
 * @param index the index of the log entry
 * @return true if the entry is present in the in-memory journal
 */
boolean isPresent(long index);

/**
 * Checks if the entry is present in a snapshot
 *
boolean isInSnapshot(long index);

ByteString getSnapshot();

long getSnapshotIndex();

long getSnapshotTerm();

void setSnapshotIndex(long snapshotIndex);

public void setSnapshotTerm(long snapshotTerm);

public void setSnapshot(ByteString snapshot);

/**
 * Clears the journal entries with startIndex(inclusive) and endIndex (exclusive)
 */
public void clear(int startIndex, int endIndex);

/**
 * Handles all the bookkeeping in order to perform a rollback in the
 * event of SaveSnapshotFailure
 */
public void snapshotPreCommit(ByteString snapshot,
   long snapshotCapturedIndex, long snapshotCapturedTerm);

/**
 * Sets the Replicated log to state after snapshot success.
 */
public void snapshotCommit();

/**
 * Restores the replicated log to a state in the event of a save snapshot failure
 */
public void snapshotRollback();

package org.opendaylight.controller.cluster.raft;

import akka.actor.ActorRef;

public class ClientRequestTrackerImpl implements ClientRequestTracker {

   private final ActorRef clientActor;
   private final String identifier;
   private final long logIndex;

   public ClientRequestTrackerImpl(ActorRef clientActor, String identifier,
      long logIndex) {

      this.clientActor = clientActor;
   }
this.identifier = identifier;

this.logIndex = logIndex;
}

@Override public ActorRef getClientActor() {
    return clientActor;
}

@Override public long getIndex() {
    return logIndex;
}

public String getIdentifier() {
    return identifier;
}
}

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 */

package org.opendaylight.controller.cluster.raft;

import org.opendaylight.controller.cluster.raft.protobuff.client.messages.Payload;

import java.io.Serializable;

public class ReplicatedLogImplEntry implements ReplicatedLogEntry, Serializable {

    private final long index;
    private final long term;
    private final Payload payload;

    public ReplicatedLogImplEntry(long index, long term, Payload payload) {
        this.index = index;
        this.term = term;
        this.payload = payload;
    }

    @Override public Payload getData() {
        return payload;
    }
}
@Override public long getTerm() {
    return term;
}

@Override public long getIndex() {
    return index;
}

@Override public String toString() {
    return "Entry{" +
    "index=" + index +
    ", term=" + term +
    "}";
}
}

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 */
package org.opendaylight.controller.cluster.raft;

import scala.concurrent.duration.FiniteDuration;

import java.util.concurrent.TimeUnit;

/**
 * Default implementation of the ConfigParams
 *
 * If no implementation is provided for ConfigParams, then this will be used.
 */
public class DefaultConfigParamsImpl implements ConfigParams {

    private static final int SNAPSHOT_BATCH_COUNT = 20000;

    private static final int JOURNAL_RECOVERY_LOG_BATCH_SIZE = 1000;

    /**
     * The maximum election time variance
     */
    private static final int ELECTION_TIME_MAX_VARIANCE = 100;

    private static final int SNAPSHOT_CHUNK_SIZE = 2048 * 1000; //2MB
/**
 * The interval at which a heart beat message will be sent to the remote
 * RaftActor
 * Since this is set to 100 milliseconds the Election timeout should be
 * at least 200 milliseconds
 */
public static final FiniteDuration HEART_BEAT_INTERVAL =
    new FiniteDuration(100, TimeUnit.MILLISECONDS);

private FiniteDuration heartBeatInterval = HEART_BEAT_INTERVAL;
private long snapshotBatchCount = SNAPSHOT_BATCH_COUNT;
private int journalRecoveryLogBatchSize = JOURNAL_RECOVERY_LOG_BATCH_SIZE;

public void setHeartBeatInterval(FiniteDuration heartBeatInterval) {
    this.heartBeatInterval = heartBeatInterval;
}

public void setSnapshotBatchCount(long snapshotBatchCount) {
    this.snapshotBatchCount = snapshotBatchCount;
}

public void setJournalRecoveryLogBatchSize(int journalRecoveryLogBatchSize) {
    this.journalRecoveryLogBatchSize = journalRecoveryLogBatchSize;
}

@Override
public long getSnapshotBatchCount() {
    return snapshotBatchCount;
}

@Override
public FiniteDuration getHeartBeatInterval() {
    return heartBeatInterval;
}

@Override
public FiniteDuration getElectionTimeOutInterval() {
    // returns 2 times the heart beat interval
    return getHeartBeatInterval().times(2);
}

@Override
public int getElectionTimeVariance() {
    return ELECTION_TIME_MAX_VARIANCE;
}
@Override
public int getSnapshotChunkSize() {
    return SNAPSHOT_CHUNK_SIZE;
}

@override
public int getJournalRecoveryLogBatchSize() {
    return journalRecoveryLogBatchSize;
}

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 */

package org.opendaylight.controller.cluster.raft;

import com.google.protobuf.ByteString;
import java.util.ArrayList;
import java.util.List;

/**
 * Abstract class handling the mapping of
 * logical LogEntry Index and the physical list index.
 */
public abstract class AbstractReplicatedLogImpl implements ReplicatedLog {

    // We define this as ArrayList so we can use ensureCapacity.
    protected ArrayList<ReplicatedLogEntry> journal;
    protected ByteString snapshot;
    protected long snapshotIndex = -1;
    protected long snapshotTerm = -1;

    // to be used for rollback during save snapshot failure
    protected ArrayList<ReplicatedLogEntry> snapshottedJournal;
    protected ByteString previousSnapshot;
    protected long previousSnapshotIndex = -1;
    protected long previousSnapshotTerm = -1;

    public AbstractReplicatedLogImpl(ByteString state, long snapshotIndex,
            long snapshotTerm, List<ReplicatedLogEntry> unAppliedEntries) {
        this.snapshot = state;
        this.snapshotIndex = snapshotIndex;
        this.snapshotTerm = snapshotTerm;
        this.journal = new ArrayList<>((unAppliedEntries);
public AbstractReplicatedLogImpl() {
    this.snapshot = null;
    this.journal = new ArrayList<>();
}

protected int adjustedIndex(long logEntryIndex) {
    if (snapshotIndex < 0) {
        return (int) logEntryIndex;
    }
    return (int) (logEntryIndex - (snapshotIndex + 1));
}

@Override
public ReplicatedLogEntry get(long logEntryIndex) {
    int adjustedIndex = adjustedIndex(logEntryIndex);

    if (adjustedIndex < 0 || adjustedIndex >= journal.size()) {
        // physical index should be less than list size and >= 0
        return null;
    }

    return journal.get(adjustedIndex);
}

@Override
public ReplicatedLogEntry last() {
    if (journal.isEmpty()) {
        return null;
    }
    // get the last entry directly from the physical index
    return journal.get(journal.size() - 1);
}

@Override
public long lastIndex() {
    if (journal.isEmpty()) {
        // it can happen that after snapshot, all the entries of the
        // journal are trimmed till lastApplied, so lastIndex = snapshotIndex
        return snapshotIndex;
    }
    return last().getIndex();
}

@Override
public long lastTerm() {

}
if (journal.isEmpty()) {
    // it can happen that after snapshot, all the entries of the
    // journal are trimmed till lastApplied, so lastTerm = snapshotTerm
    return snapshotTerm;
}
return last().getTerm();
}

@Override
public void removeFrom(long logEntryIndex) {
    int adjustedIndex = adjustedIndex(logEntryIndex);
    if (adjustedIndex < 0 || adjustedIndex >= journal.size()) {
        // physical index should be less than list size and >= 0
        return;
    }
    journal.subList(adjustedIndex, journal.size()).clear();
}

@Override
public void append(ReplicatedLogEntry replicatedLogEntry) {
    journal.add(replicatedLogEntry);
}

@Override
public void increaseJournalLogCapacity(int amount) {
    journal.ensureCapacity(journal.size() + amount);
}

@Override
public List<ReplicatedLogEntry> getFrom(long logEntryIndex) {
    return getFrom(logEntryIndex, journal.size());
}

@Override
public List<ReplicatedLogEntry> getFrom(long logEntryIndex, int max) {
    int adjustedIndex = adjustedIndex(logEntryIndex);
    int size = journal.size();
    List<ReplicatedLogEntry> entries = new ArrayList<>(100);
    if (adjustedIndex >= 0 && adjustedIndex < size) {
        // physical index should be less than list size and >= 0
        int maxIndex = adjustedIndex + max;
        if (maxIndex > size) {
            maxIndex = size;
        }
        entries.addAll(journal.subList(adjustedIndex, maxIndex));
    }
    return entries;
}
@Override
public long size() {
    return journal.size();
}

@Override
public boolean isPresent(long logEntryIndex) {
    if (logEntryIndex > lastIndex()) {
        // if the request logical index is less than the last present in the list
        return false;
    }
    int adjustedIndex = adjustedIndex(logEntryIndex);
    return (adjustedIndex >= 0);
}

@Override
public boolean isInSnapshot(long logEntryIndex) {
    return logEntryIndex <= snapshotIndex && snapshotIndex != -1;
}

@Override
public ByteString getSnapshot() {
    return snapshot;
}

@Override
public long getSnapshotIndex() {
    return snapshotIndex;
}

@Override
public long getSnapshotTerm() {
    return snapshotTerm;
}

@Override
public abstract void appendAndPersist(ReplicatedLogEntry replicatedLogEntry);

@Override
public abstract void removeFromAndPersist(long index);

@Override
public void setSnapshotIndex(long snapshotIndex) {
    this.snapshotIndex = snapshotIndex;
}
@Override
public void setSnapshotTerm(long snapshotTerm) {
    this.snapshotTerm = snapshotTerm;
}

@Override
public void setSnapshot(ByteString snapshot) {
    this.snapshot = snapshot;
}

@Override
public void clear(int startIndex, int endIndex) {
    journal.subList(startIndex, endIndex).clear();
}

@Override
public void snapshotPreCommit(ByteString snapshot, long snapshotCapturedIndex, long snapshotCapturedTerm) {
    snapshottedJournal = new ArrayList<>(journal.size());

    snapshottedJournal.addAll(journal.subList(0, (int)(snapshotCapturedIndex - snapshotIndex)));
    clear(0, (int) (snapshotCapturedIndex - snapshotIndex));

    previousSnapshotIndex = snapshotIndex;
    setSnapshotIndex(snapshotCapturedIndex);

    previousSnapshotTerm = snapshotTerm;
    setSnapshotTerm(snapshotCapturedTerm);

    previousSnapshot = getSnapshot();
    setSnapshot(snapshot);
}

@Override
public void snapshotCommit() {
    snapshottedJournal = null;
    previousSnapshotIndex = -1;
    previousSnapshotTerm = -1;
    previousSnapshot = null;
}

@Override
public void snapshotRollback() {
    snapshottedJournal.addAll(journal);
    journal = snapshottedJournal;
    snapshottedJournal = null;

    snapshotIndex = previousSnapshotIndex;
previousSnapshotIndex = -1;

snapshotTerm = previousSnapshotTerm;
previousSnapshotTerm = -1;

snapshot = previousSnapshot;
previousSnapshot = null;

*/

package org.opendaylight.controller.cluster.raft;

import org.opendaylight.controller.cluster.raft.protobuff.client.messages.Payload;

/**
 * Represents one entry in the replicated log
 */

public interface ReplicatedLogEntry {
    /**
     * The data stored in that entry
     *
     * @return
     */
    Payload getData();

    /**
     * The term stored in that entry
     *
     * @return
     */
    long getTerm();

    /**
     * The index of the entry
     *
     * @return
     */
    long getIndex();
}
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7.155 sal-binding-broker-impl 1.1.1-Helium-SR1

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 */

package org.opendaylight.controller.md.sal.binding.impl;

import org.opendaylight.controller.md.sal.binding.api.ReadOnlyTransaction;
import org.opendaylight.controller.md.sal.common.api.data.LogicalDatastoreType;
import org.opendaylight.controller.md.sal.common.api.data.ReadFailedException;
import org.opendaylight.controller.md.sal.dom.api.DOMDataReadOnlyTransaction;
import org.opendaylight.yangtools.yang.binding.DataObject;
import org.opendaylight.yangtools.yang.binding.InstanceIdentifier;

import com.google.common.base.Optional;
import com.google.common.util.concurrent.CheckedFuture;

class BindingDataReadTransactionImpl extends AbstractForwardedTransaction<DOMDataReadOnlyTransaction>
implements
   ReadOnlyTransaction {

   protected BindingDataReadTransactionImpl(final DOMDataReadOnlyTransaction delegate,
   final BindingToNormalizedNodeCodec codec) {
      super(delegate, codec);
   }

   @Override
   public <T extends DataObject> CheckedFuture<Optional<T>,ReadFailedException> read(
   final LogicalDatastoreType store, final InstanceIdentifier<T> path) {
      return doRead(getDelegate(),store, path);
   }

   @Override
   public void close() {
      getDelegate().close();
   }

} /*
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 */
package org.opendaylight.controller.md.sal.binding.impl;

import java.util.ArrayList;
import java.util.Iterator;
import java.util.List;
import org.opendaylight.controller.md.sal.binding.api.WriteTransaction;
import org.opendaylight.controller.md.sal.common.api.TransactionStatus;
import org.opendaylight.controller.md.sal.common.api.data.LogicalDatastoreType;
import org.opendaylight.controller.md.sal.common.api.data.TransactionCommitFailedException;
import org.opendaylight.controller.md.sal.common.impl.service.AbstractDataTransaction;
import org.opendaylight.controller.md.sal.common.impl.util.compat.DataNormalizationException;
import org.opendaylight.controller.md.sal.common.impl.util.compat.DataNormalizationOperation;
import org.opendaylight.controller.md.sal.dom.api.DOMDataWriteTransaction;
import org.opendaylight.yangtools.yang.binding.DataObject;
import org.opendaylight.yangtools.yang.binding.InstanceIdentifier;
import org.opendaylight.yangtools.yang.data.api.YangInstanceIdentifier.PathArgument;
import com.google.common.util.concurrent.CheckedFuture;
import com.google.common.util.concurrent.ListenableFuture;

class BindingDataWriteTransactionImpl<T extends DOMDataWriteTransaction> extends
    AbstractWriteTransaction<T> implements WriteTransaction {

    protected BindingDataWriteTransactionImpl(final T delegateTx, final BindingToNormalizedNodeCodec codec) {
        super(delegateTx, codec);
    }

    @Override
    public <U extends DataObject> void put(final LogicalDatastoreType store, final InstanceIdentifier<U> path,
        final U data) {
        put(store, path, data,false);
    }

    @Override
    public <T extends DataObject> void merge(final LogicalDatastoreType store, final InstanceIdentifier<T> path,
        final T data) {
        merge(store, path, data,false);
    }

    @Override
    protected void ensureParentsByMerge(final LogicalDatastoreType store,
        final org.opendaylight.yangtools.yang.data.api.YangInstanceIdentifier normalizedPath, final
        InstanceIdentifier<?> path) {
        List<PathArgument> currentArguments = new ArrayList<>();
        DataNormalizationOperation<?> currentOp = getCodec().getDataNormalizer().getRootOperation();
        Iterator<PathArgument> iterator = normalizedPath.getPathArguments().iterator();
        while (iterator.hasNext()) {
            PathArgument currentArg = iterator.next();
            try {
                currentOp = currentOp.getChild(currentArg);
            } catch (DataNormalizationException e) {
                throw new IllegalArgumentException(String.format("Invalid child encountered in path %s", path), e);
            }
            currentArguments.add(currentArg);
        }
        org.opendaylight.yangtools.yang.data.api.YangInstanceIdentifier currentPath =
            org.opendaylight.yangtools.yang.data.api.YangInstanceIdentifier.create(Open Source Used In WAE 6.3
  7246

  Open Source Used In WAE 6.3
  7246
currentArguments);

getDelegate().merge(store, currentPath, currentOp.createDefault(currentArg));
}

@Override
public void delete(final LogicalDatastoreType store, final InstanceIdentifier<?> path) {
    doDelete( store, path);
}

@Override
public ListenableFuture<RpcResult<TransactionStatus>> commit() {
    return AbstractDataTransaction.convertToLegacyCommitFuture(submit());
}

@Override
public CheckedFuture<Void,TransactionCommitFailedException> submit() {
    return doSubmit();
}

@Override
public boolean cancel() {
    return doCancel();
}
*/
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package org.opendaylight.controller.md.sal.binding.impl;

import org.opendaylight.controller.md.sal.binding.api.ReadWriteTransaction;
import org.opendaylight.controller.md.sal.binding.api.data.LogicalDatastoreType;
import org.opendaylight.controller.md.sal.common.api.data.ReadFailedException;
import org.opendaylight.controller.md.sal.dom.api.DOMDataReadWriteTransaction;
import org.opendaylight.yangtools.yang.binding.DataObject;
import org.opendaylight.yangtools.yang.binding.InstanceIdentifier;
import com.google.common.base.Optional;
import com.google.common.util.concurrent.CheckedFuture;

class BindingDataReadWriteTransactionImpl extends
    BindingDataWriteTransactionImpl<DOMDataReadWriteTransaction> implements ReadWriteTransaction {
protected BindingDataReadWriteTransactionImpl(final DOMDataReadWriteTransaction delegate, final BindingToNormalizedNodeCodec codec) {
    super(delegate, codec);
}

@Override
public <T extends DataObject> CheckedFuture<Optional<T>, ReadFailedException> read(
    final LogicalDatastoreType store, final InstanceIdentifier<T> path) {
    return doRead(getDelegate(), store, path);
}
public class NotificationBrokerImplModuleFactory extends org.opendaylight.controller.config.yang.md.sal.binding.impl.AbstractNotificationBrokerImplModuleFactory {

    
} /*
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*/

package org.opendaylight.controller.config.yang.md.sal.binding.impl;

import org.opendaylight.controller.sal.binding.codegen.impl.SingletonHolder;
import org.opendaylight.controller.sal.binding.impl.NotificationBrokerImpl;

import com.google.common.util.concurrent.ListeningExecutorService;

/**
* 
*/

public final class NotificationBrokerImplModule extends org.opendaylight.controller.config.yang.md.sal.binding.impl.AbstractNotificationBrokerImplModule {

    public NotificationBrokerImplModule(org.opendaylight.controller.config.api.ModuleIdentifier identifier,
            org.opendaylight.controller.config.api.DependencyResolver dependencyResolver) {
        super(identifier, dependencyResolver);
    }

    public NotificationBrokerImplModule(org.opendaylight.controller.config.api.ModuleIdentifier identifier,
            org.opendaylight.controller.config.api.DependencyResolver dependencyResolver,
            NotificationBrokerImplModule oldModule, java.lang.AutoCloseable oldInstance) {
        super(identifier, dependencyResolver, oldModule, oldInstance);
    }

    @Override
    public void validate() {
        super.validate();
        // Add custom validation for module attributes here.
    }

    @Override
    public java.lang.AutoCloseable createInstance() {
        ListeningExecutorService listeningExecutor = SingletonHolder.getDefaultNotificationExecutor();
        NotificationBrokerImpl broker = new NotificationBrokerImpl(listeningExecutor);
        return broker;
    }
}
import org.opendaylight.controller.sal.binding.codegen.impl.SingletonHolder;
import org.opendaylight.controller.sal.binding.impl.RootBindingAwareBroker;
import org.opendaylight.controller.sal.binding.impl.RpcProviderRegistryImpl;
import org.opendaylight.controller.sal.binding.impl.forward.DomForwardedBindingBrokerImpl;
import org.opendaylight.controller.sal.binding.impl.forward.DomForwardingUtils;

public final class BindingBrokerImplModule extends
        org.opendaylight.controller.config.yang.md.sal.binding.impl.AbstractBindingBrokerImplModule {

    public BindingBrokerImplModule(final org.opendaylight.controller.config.api.ModuleIdentifier identifier,
            final org.opendaylight.controller.config.api.DependencyResolver dependencyResolver) {
        super(identifier, dependencyResolver);
    }

    public BindingBrokerImplModule(final org.opendaylight.controller.config.api.ModuleIdentifier identifier,
            final org.opendaylight.controller.config.api.DependencyResolver dependencyResolver,
            final BindingBrokerImplModule oldModule, final java.lang.AutoCloseable oldInstance) {
        super(identifier, dependencyResolver, oldModule, oldInstance);
    }

    @Override
    public void validate() {
        super.validate();
    }
}
@Override
public java.lang.AutoCloseable createInstance() {

    RootBindingAwareBroker broker;
    if (DomForwardingUtils.isDomForwardedBroker(getDataBrokerDependency())) {
        broker = createForwardedBroker();
    } else {
        broker = createStandaloneBroker();
    }
    broker.start();
    return broker;
}

private RootBindingAwareBroker createStandaloneBroker() {
    RootBindingAwareBroker broker = new RootBindingAwareBroker(getInitializer().getInstanceName());

    broker.setLegacyDataBroker(getDataBrokerDependency());
    broker.setNotificationBroker(getNotificationServiceDependency());
    broker.setRpcBroker(new RpcProviderRegistryImpl(broker.getIdentifier()));
    broker.setDataBroker(getRootDataBrokerDependency());
    return broker;
}

private RootBindingAwareBroker createForwardedBroker() {
    DomForwardingBindingBrokerImpl broker = new
    DomForwardingBindingBrokerImpl(getInitializer().getInstanceName());

    broker.setLegacyDataBroker(getDataBrokerDependency());
    broker.setNotificationBroker(getNotificationServiceDependency());
    broker.setRpcBroker(new RpcProviderRegistryImpl(broker.getIdentifier()));

    broker.getMountManager().setDataCommitExecutor(SingletonHolder.getDefaultCommitExecutor());
    broker.getMountManager().setNotificationExecutor(SingletonHolder.getDefaultNotificationExecutor());

    broker.setDataBroker(getRootDataBrokerDependency());
    DomForwardingUtils.reuseForwardingFrom(broker, broker.getDataBroker());
    broker.startForwarding();
    return broker;
}

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*  
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* terms of the Eclipse Public License v1.0 which accompanies this distribution,  
* and is available at http://www.eclipse.org/legal/epl-v10.html  
*/
package org.opendaylight.controller.config.yang.md.sal.binding.impl;

/**
 *
 */
public class RpcBrokerImplModuleFactory extends org.opendaylight.controller.config.yang.md.sal.binding.impl.AbstractRpcBrokerImplModuleFactory {

}

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 * terms of the Eclipse Public License v1.0 which accompanies this distribution,
 * and is available at http://www.eclipse.org/legal/epl-v10.html
 */
package org.opendaylight.controller.config.yang.md.sal.binding.impl;

/**
 *
 */
public final class RpcBrokerImplModule extends org.opendaylight.controller.config.yang.md.sal.binding.impl.AbstractRpcBrokerImplModule {

    public RpcBrokerImplModule(org.opendaylight.controller.config.api.ModuleIdentifier identifier, org.opendaylight.controller.config.api.DependencyResolver dependencyResolver) {
        super(identifier, dependencyResolver);
    }

        super(identifier, dependencyResolver, oldModule, oldInstance);
    }

    @Override
    public void validate() {
        super.validate();
        // Add custom validation for module attributes here.
    }

    @Override
    public java.lang.AutoCloseable createInstance() {
        throw new java.lang.UnsupportedOperationException("Unimplemented stub method");
    }
}

package org.opendaylight.controller.config.yang.md.sal.binding.impl;

/**
 *
 */
public class RpcBrokerImplModuleFactory extends org.opendaylight.controller.config.yang.md.sal.binding.impl.AbstractRpcBrokerImplModuleFactory {

    public RpcBrokerImplModuleFactory() {
    
    }

    @Override
    public void validate() {
        super.validate();
        // Add custom validation for module attributes here.
    }

    @Override
    public java.lang.AutoCloseable createInstance() {
        throw new java.lang.UnsupportedOperationException("Unimplemented stub method");
    }

    public RpcBrokerImplModuleFactory(org.opendaylight.controller.config.api.ModuleIdentifier identifier) {
        super(identifier);
    }

    public RpcBrokerImplModuleFactory(org.opendaylight.controller.config.api.ModuleIdentifier identifier, org.opendaylight.controller.config.api.DependencyResolver dependencyResolver) {
        super(identifier, dependencyResolver);
    }

        super(identifier, dependencyResolver, oldModule, oldInstance);
    }

    @Override
    public void validate() {
        super.validate();
        // Add custom validation for module attributes here.
    }

    @Override
    public java.lang.AutoCloseable createInstance() {
        throw new java.lang.UnsupportedOperationException("Unimplemented stub method");
    }
}

package org.opendaylight.controller.config.yang.md.sal.binding.impl;

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public class RpcBrokerImplModuleFactory extends org.opendaylight.controller.config.yang.md.sal.binding.impl.AbstractRpcBrokerImplModuleFactory {

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    }

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    public void validate() {
        super.validate();
        // Add custom validation for module attributes here.
    }

    @Override
    public java.lang.AutoCloseable createInstance() {
        throw new java.lang.UnsupportedOperationException("Unimplemented stub method");
    }

    public RpcBrokerImplModuleFactory(org.opendaylight.controller.config.api.ModuleIdentifier identifier) {
        super(identifier);
    }

    public RpcBrokerImplModuleFactory(org.opendaylight.controller.config.api.ModuleIdentifier identifier, org.opendaylight.controller.config.api.DependencyResolver dependencyResolver) {
        super(identifier, dependencyResolver);
    }

        super(identifier, dependencyResolver, oldModule, oldInstance);
    }

    @Override
    public void validate() {
        super.validate();
        // Add custom validation for module attributes here.
    }

    @Override
    public java.lang.AutoCloseable createInstance() {
        throw new java.lang.UnsupportedOperationException("Unimplemented stub method");
    }

    private RpcBrokerImplModuleFactory() {
    
    }

    private RpcBrokerImplModuleFactory(org.opendaylight.controller.config.api.ModuleIdentifier identifier) {
        super(identifier);
    }

    private RpcBrokerImplModuleFactory(org.opendaylight.controller.config.api.ModuleIdentifier identifier, org.opendaylight.controller.config.api.DependencyResolver dependencyResolver) {
        super(identifier, dependencyResolver);
    }

        super(identifier, dependencyResolver, oldModule, oldInstance);
    }

    @Override
    public void validate() {
        super.validate();
        // Add custom validation for module attributes here.
    }

    @Override
    public java.lang.AutoCloseable createInstance() {
        throw new java.lang.UnsupportedOperationException("Unimplemented stub method");
    }
}

package org.opendaylight.controller.config.yang.md.sal.binding.impl;

/**
 *
 */
public class RpcBrokerImplModuleFactory extends org.opendaylight.controller.config.yang.md.sal.binding.impl.AbstractRpcBrokerImplModuleFactory {

    public RpcBrokerImplModuleFactory() {
    
    }

    @Override
    public void validate() {
        super.validate();
        // Add custom validation for module attributes here.
    }

    @Override
    public java.lang.AutoCloseable createInstance() {
        throw new java.lang.UnsupportedOperationException("Unimplemented stub method");
    }

    public RpcBrokerImplModuleFactory(org.opendaylight.controller.config.api.ModuleIdentifier identifier) {
        super(identifier);
    }

    public RpcBrokerImplModuleFactory(org.opendaylight.controller.config.api.ModuleIdentifier identifier, org.opendaylight.controller.config.api.DependencyResolver dependencyResolver) {
        super(identifier, dependencyResolver);
    }

        super(identifier, dependencyResolver, oldModule, oldInstance);
    }

    @Override
    public void validate() {
        super.validate();
        // Add custom validation for module attributes here.
    }

    @Override
    public java.lang.AutoCloseable createInstance() {
        throw new java.lang.UnsupportedOperationException("Unimplemented stub method");
    }

    private RpcBrokerImplModuleFactory() {
    
    }

    private RpcBrokerImplModuleFactory(org.opendaylight.controller.config.api.ModuleIdentifier identifier) {
        super(identifier);
    }

    private RpcBrokerImplModuleFactory(org.opendaylight.controller.config.api.ModuleIdentifier identifier, org.opendaylight.controller.config.api.DependencyResolver dependencyResolver) {
        super(identifier, dependencyResolver);
    }

        super(identifier, dependencyResolver, oldModule, oldInstance);
    }

    @Override
    public void validate() {
        super.validate();
        // Add custom validation for module attributes here.
    }

    @Override
    public java.lang.AutoCloseable createInstance() {
        throw new java.lang.UnsupportedOperationException("Unimplemented stub method");
    }

    private RpcBrokerImplModuleFactory() {
    
    }

    private RpcBrokerImplModuleFactory(org.opendaylight.controller.config.api.ModuleIdentifier identifier) {
        super(identifier);
    }

    private RpcBrokerImplModuleFactory(org.opendaylight.controller.config.api.ModuleIdentifier identifier, org.opendaylight.controller.config.api.DependencyResolver dependencyResolver) {
        super(identifier, dependencyResolver);
    }

        super(identifier, dependencyResolver, oldModule, oldInstance);
    }

    @Override
    public void validate() {
        super.validate();
        // Add custom validation for module attributes here.
    }

    @Override
    public java.lang.AutoCloseable createInstance() {
        throw new java.lang.UnsupportedOperationException("Unimplemented stub method");
    }

    public RpcBrokerImplModuleFactory() {
    
    }

    public RpcBrokerImplModuleFactory(org.opendaylight.controller.config.api.ModuleIdentifier identifier) {
        super(identifier);
    }

    public RpcBrokerImplModuleFactory(org.opendaylight.controller.config.api.ModuleIdentifier identifier, org.opendaylight.controller.config.api.DependencyResolver dependencyResolver) {
        super(identifier, dependencyResolver);
    }

        super(identifier, dependencyResolver, oldModule, oldInstance);
    }

    @Override
    public void validate() {
        super.validate();
        // Add custom validation for module attributes here.
    }

    @Override
    public java.lang.AutoCloseable createInstance() {
        throw new java.lang.UnsupportedOperationException("Unimplemented stub method");
    }

    private RpcBrokerImplModuleFactory() {
    
    }

    private RpcBrokerImplModuleFactory(org.opendaylight.controller.config.api.ModuleIdentifier identifier) {
        super(identifier);
    }

    private RpcBrokerImplModuleFactory(org.opendaylight.controller.config.api.ModuleIdentifier identifier, org.opendaylight.controller.config.api.DependencyResolver dependencyResolver) {
        super(identifier, dependencyResolver);
    }

        super(identifier, dependencyResolver, oldModule, oldInstance);
    }

    @Override
    public void validate() {
        super.validate();
        // Add custom validation for module attributes here.
    }

    @Override
    public java.lang.AutoCloseable createInstance() {
        throw new java.lang.UnsupportedOperationException("Unimplemented stub method");
    }

    private RpcBrokerImplModuleFactory() {
    
    }

    private RpcBrokerImplModuleFactory(org.opendaylight.controller.config.api.ModuleIdentifier identifier) {
        super(identifier);
    }

    private RpcBrokerImplModuleFactory(org.opendaylight.controller.config.api.ModuleIdentifier identifier, org.opendaylight.controller.config.api.DependencyResolver dependencyResolver) {
        super(identifier, dependencyResolver);
    }

    private RpcBrokerImplModuleFactory(}
package org.opendaylight.controller.config.yang.md.sal.binding.impl;

import com.google.common.util.concurrent.ListeningExecutorService;
import java.util.Collection;
import java.util.Collections;
import org.opendaylight.controller.md.sal.binding.impl.BindingToNormalizedNodeCodec;
import org.opendaylight.controller.md.sal.binding.impl.ForwardedBackwardsCompatibleDataBroker;
import org.opendaylight.controller.md.sal.dom.api.DOMDataBroker;
import org.opendaylight.controller.sal.binding.codegen.impl.SingletonHolder;
import org.opendaylight.controller.sal.binding.impl.connect.dom.BindingDomConnectorDeployer;
import org.opendaylight.controller.sal.core.api.Broker;
import org.opendaylight.controller.sal.core.api.Broker.ProviderSession;
import org.opendaylight.controller.sal.core.api.Provider;
import org.opendaylight.controller.sal.core.api.model.SchemaService;

/**
 * Class for handling data broker modules that are compatible with older data
 * brokers.
 */
public final class ForwardedCompatibleDataBrokerImplModule extends
    org.opendaylight.controller.config.yang.md.sal.binding.impl.AbstractForwardedCompatibleDataBrokerImplModule
    implements Provider {

    public ForwardedCompatibleDataBrokerImplModule(
        final org.opendaylight.controller.config.api.ModuleIdentifier identifier,
        final org.opendaylight.controller.config.api.DependencyResolver dependencyResolver) {
        super(identifier, dependencyResolver);
    }

    public ForwardedCompatibleDataBrokerImplModule(
        final org.opendaylight.controller.config.api.ModuleIdentifier identifier,
        final org.opendaylight.controller.config.api.DependencyResolver dependencyResolver,
        final ForwardedCompatibleDataBrokerImplModule oldModule, final java.lang.AutoCloseable oldInstance) {
        super(identifier, dependencyResolver, oldModule, oldInstance);
    }

    @Override
    protected void customValidation() {
        // Add custom validation for module attributes here.
    }
}
@Override
public java.lang.AutoCloseable createInstance() {
    ListeningExecutorService listeningExecutor = SingletonHolder.getDefaultCommitExecutor();
    BindingToNormalizedNodeCodec mappingService = getBindingMappingServiceDependency();

    Broker domBroker = getDomAsyncBrokerDependency();
    ProviderSession session = domBroker.registerProvider(this, null);
    DOMDataBroker domDataBroker = session.getService(DOMDataBroker.class);
    SchemaService schemaService = session.getService(SchemaService.class);
    ForwardedBackwardsCompatibleDataBroker dataBroker = new ForwardedBackwardsCompatibleDataBroker(domDataBroker,
                                                                                  mappingService, schemaService, listeningExecutor);

    dataBroker.setConnector(BindingDomConnectorDeployer.createConnector(mappingService.getLegacy()));
    dataBroker.setDomProviderContext(session);
    return dataBroker;
}

@override
public void onSessionInitiated(final ProviderSession session) {
}

@override
public Collection<ProviderFunctionality> getProviderFunctionality() {
    return Collections.emptySet();
}

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 * and is available at http://www.eclipse.org/legal/epl-v10.html
 */
package org.opendaylight.controller.config.yang.md.sal.binding.impl;

/**
 *
 */
public class ForwardedCompatibleDataBrokerImplModuleFactory extends
org.opendaylight.controller.config.yang.md.sal.binding.impl.AbstractForwardedCompatibleDataBrokerImplModuleFactory
{
}
import java.util.concurrent.ConcurrentHashMap;
import java.util.concurrent.ConcurrentMap;

import org.opendaylight.controller.sal.binding.api.mount.MountProviderInstance;
import org.opendaylight.controller.sal.binding.impl.RootBindingAwareBroker;
import org.opendaylight.controller.sal.binding.impl.connect.dom.BindingDomConnectorDeployer;
import org.opendaylight.controller.sal.binding.impl.connect.dom.BindingIndependentConnector;
import org.opendaylight.yangtools.yang.data.impl.codec.DeserializationException;
import org.opendaylight.controller.sal.core.api.Broker.ProviderSession;
import org.opendaylight.controller.sal.core.api.mount.MountProvisionInstance;
import org.opendaylight.controller.sal.core.api.mount.MountProvisionService;
import org.opendaylight.controller.sal.core.api.mount.MountProvisionListener;
import org.opendaylight.yangtools.concepts.ListenerRegistration;
import org.opendaylight.yangtools.yang.binding.InstanceIdentifier;

public class DomForwardedBindingBrokerImpl extends RootBindingAwareBroker implements DomForwardedBroker {

    private ProviderSession domProviderContext;
    private BindingIndependentConnector connector;

    private MountProvisionService domMountService;

    private final DomMountPointForwardingManager domForwardingManager = new DomMountPointForwardingManager();
    private final BindingMountPointForwardingManager bindingForwardingManager = new BindingMountPointForwardingManager();

    private ConcurrentMap<InstanceIdentifier<?>, BindingIndependentConnector> connectors = new ConcurrentHashMap<>();
    private ConcurrentMap<InstanceIdentifier<?>, org.opendaylight.yangtools.yang.data.api.YangInstanceIdentifier> forwarded = new ConcurrentHashMap<>();
    private ListenerRegistration<MountProvisionListener> domListenerRegistration;
    private ListenerRegistration<org.opendaylight.controller.sal.binding.api.mount.MountProviderService.MountProvisionListener> baListenerRegistration;

    public DomForwardedBindingBrokerImpl(String instanceName) {
    }
}
super(instanceName);
}

@Override
public BindingIndependentConnector getConnector() {
    return connector;
}

@Override
public ProviderSession getDomProviderContext() {
    return domProviderContext;
}

@Override
public void setConnector(BindingIndependentConnector connector) {
    this.connector = connector;
}

@Override
public void setDomProviderContext(ProviderSession domProviderContext) {
    this.domProviderContext = domProviderContext;
}

@Override
public void startForwarding() {
    BindingDomConnectorDeployer.startDataForwarding(getConnector(), getDataBroker(),
    getDomProviderContext());
    BindingDomConnectorDeployer.startRpcForwarding(getConnector(), getRpcProviderRegistry(),
    getDomProviderContext());
    BindingDomConnectorDeployer.startNotificationForwarding(getConnector(), getNotificationBroker(),
    getDomProviderContext());
    startMountpointForwarding();
}

private void startMountpointForwarding() {
    domMountService = getDomProviderContext().getService(MountProvisionService.class);
    if (domMountService != null && getMountManager() != null) {
        domListenerRegistration = domMountService.registerProvisionListener(domForwardingManager);
        baListenerRegistration = getMountManager().registerProvisionListener(bindingForwardingManager);
    }
}

public MountProvisionService getDomMountService() {
    return domMountService;
}

public void setDomMountService(MountProvisionService domMountService) {
    this.domMountService = domMountService;
private void tryToDeployConnector(InstanceIdentifier<?> baPath, org.opendaylight.yangtools.yang.data.api.YangInstanceIdentifier biPath) {
    org.opendaylight.yangtools.yang.data.api.YangInstanceIdentifier previous = forwarded.putIfAbsent(baPath, biPath);
    if (previous != null) {
        return;
    }
    MountProviderInstance baMountPoint = getMountManager().createOrGetMountPoint(baPath);
    MountProvisionInstance domMountPoint = domMountService.createOrGetMountPoint(biPath);
    BindingIndependentConnector connector = createForwarder(baPath, baMountPoint, domMountPoint);
    connectors.put(baPath, connector);
}

private BindingIndependentConnector createForwarder(InstanceIdentifier<?> path, MountProviderInstance baMountPoint, MountProvisionInstance domMountPoint) {
    BindingIndependentConnector mountConnector = BindingDomConnectorDeployer.createConnector(getConnector());
    BindingDomConnectorDeployer.startDataForwarding(mountConnector, baMountPoint, domMountPoint);
    BindingDomConnectorDeployer.startRpcForwarding(mountConnector, baMountPoint, domMountPoint);
    BindingDomConnectorDeployer.startNotificationForwarding(mountConnector, baMountPoint, domMountPoint);
    // connector.setDomNotificationBroker(domMountPoint);
    return mountConnector;
}

public synchronized void tryToDeployDomForwarder(org.opendaylight.yangtools.yang.data.api.YangInstanceIdentifier domPath) {
    InstanceIdentifier<?> baPath;
    try {
        baPath = connector.getMappingService().fromDataDom(domPath);
        BindingIndependentConnector potentialConnector = connectors.get(baPath);
        if (potentialConnector != null) {
            return;
        }
        tryToDeployConnector(baPath, domPath);
    } catch (DeserializationException e) {
    }
}

public synchronized void tryToDeployBindingForwarder(InstanceIdentifier<?> baPath) {
    BindingIndependentConnector potentialConnector = connectors.get(baPath);
    if (potentialConnector != null) {
        return;
    }
org.opendaylight.yangtools.yang.data.api.YangInstanceIdentifier domPath =
connector.getMappingService().toDataDom(baPath);
tryToDeployConnector(baPath, domPath);
}

public synchronized void undeployBindingForwarder(InstanceIdentifier<?> baPath) {
    // FIXME: Implement closeMountPoint
}

public synchronized void
undeployDomForwarder(org.opendaylight.yangtools.yang.data.api.YangInstanceIdentifier biPath) {
    // FIXME: Implement closeMountPoint
}

private class DomMountPointForwardingManager implements MountProvisionListener {
    @Override
    public void onMountPointCreated(org.opendaylight.yangtools.yang.data.api.YangInstanceIdentifier path) {
        tryToDeployDomForwarder(path);
    }

    @Override
    public void onMountPointRemoved(org.opendaylight.yangtools.yang.data.api.YangInstanceIdentifier path) {
        undeployDomForwarder(path);
    }
}

private class BindingMountPointForwardingManager implements
    org.opendaylight.controller.sal.binding.api.mount.MountProviderService.MountProvisionListener {
    @Override
    public void onMountPointCreated(InstanceIdentifier<?> path) {
        tryToDeployBindingForwarder(path);
    }

    @Override
    public void onMountPointRemoved(InstanceIdentifier<?> path) {
        undeployBindingForwarder(path);
    }
}

/*
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 *
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 * terms of the Eclipse Public License v1.0 which accompanies this distribution,
package org.opendaylight.controller.sal.binding.impl;

import java.util.Map;
import java.util.Map.Entry;
import java.util.Set;
import java.util.concurrent.atomic.AtomicLong;

import org.opendaylight.controller.md.sal.common.api.data.DataCommitHandler;
import org.opendaylight.controller.md.sal.common.api.data.DataReader;
import org.opendaylight.controller.md.sal.common.impl.routing.AbstractDataReadRouter;
import org.opendaylight.controller.md.sal.common.impl.service.AbstractDataBroker;
import org.opendaylight.controller.md.sal.common.impl.service.DataChangeListeners;
import org.opendaylight.controller.sal.binding.api.data.DataChangeListener;
import org.opendaylight.controller.sal.binding.api.data.DataProviderService;
import org.opendaylight.yangtools.concepts.Registration;
import org.opendaylight.yangtools.yang.binding.DataObject;
import org.opendaylight.yangtools.yang.binding.InstanceIdentifier;
import org.opendaylight.yangtools.yang.binding.util.DataObjectReadingUtil;
import com.google.common.base.Predicate;
import com.google.common.collect.ImmutableList;
import com.google.common.collect.ImmutableMap;
import com.google.common.collect.ImmutableMap.Builder;
import com.google.common.collect.Maps;

public class DataBrokerImpl extends AbstractDataBroker<InstanceIdentifier<? extends DataObject>, DataObject, DataChangeListener> implements DataProviderService, AutoCloseable {

private final static class ContainsWildcarded implements Predicate<InstanceIdentifier<? extends DataObject>> {
    private final InstanceIdentifier<? extends DataObject> key;

    public ContainsWildcarded(final InstanceIdentifier<? extends DataObject> key) {
        this.key = key;
    }

    @Override
    public boolean apply(final InstanceIdentifier<? extends DataObject> input) {
        return key.containsWildcarded(input);
    }
}

private final static class IsContainedWildcarded implements Predicate<InstanceIdentifier<? extends DataObject>> {
    private final InstanceIdentifier<? extends DataObject> key;

    public IsContainedWildcarded(final InstanceIdentifier<? extends DataObject> key) {
        this.key = key;
    }

    @Override
    public boolean apply(final InstanceIdentifier<? extends DataObject> input) {
        return key.containsWildcarded(input);
    }
}


private final static class ContainsWildcarded implements Predicate<InstanceIdentifier<? extends DataObject>> {
    private final InstanceIdentifier<? extends DataObject> key;

    public ContainsWildcarded(final InstanceIdentifier<? extends DataObject> key) {
        this.key = key;
    }

    @Override
    public boolean apply(final InstanceIdentifier<? extends DataObject> input) {
        return key.containsWildcarded(input);
    }
}

private final static class IsContainedWildcarded implements Predicate<InstanceIdentifier<? extends DataObject>> {
    private final InstanceIdentifier<? extends DataObject> key;

    public IsContainedWildcarded(final InstanceIdentifier<? extends DataObject> key) {
        this.key = key;
    }

    @Override
    public boolean apply(final InstanceIdentifier<? extends DataObject> input) {
        return key.containsWildcarded(input);
    }
}

public class DataBrokerImpl extends AbstractDataBroker<InstanceIdentifier<? extends DataObject>, DataObject, DataChangeListener> implements DataProviderService, AutoCloseable {

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    private final InstanceIdentifier<? extends DataObject> key;

    public ContainsWildcarded(final InstanceIdentifier<? extends DataObject> key) {
        this.key = key;
    }

    @Override
    public boolean apply(final InstanceIdentifier<? extends DataObject> input) {
        return key.containsWildcarded(input);
    }
}

private final static class IsContainedWildcarded implements Predicate<InstanceIdentifier<? extends DataObject>> {
    private final InstanceIdentifier<? extends DataObject> key;

    public IsContainedWildcarded(final InstanceIdentifier<? extends DataObject> key) {
        this.key = key;
    }

    @Override
    public boolean apply(final InstanceIdentifier<? extends DataObject> input) {
        return key.containsWildcarded(input);
    }
}

private final static class ContainsWildcarded implements Predicate<InstanceIdentifier<? extends DataObject>> {
    private final InstanceIdentifier<? extends DataObject> key;

    public ContainsWildcarded(final InstanceIdentifier<? extends DataObject> key) {
        this.key = key;
    }

    @Override
    public boolean apply(final InstanceIdentifier<? extends DataObject> input) {
        return key.containsWildcarded(input);
    }
}

private final static class IsContainedWildcarded implements Predicate<InstanceIdentifier<? extends DataObject>> {
    private final InstanceIdentifier<? extends DataObject> key;

    public IsContainedWildcarded(final InstanceIdentifier<? extends DataObject> key) {
        this.key = key;
    }

    @Override
    public boolean apply(final InstanceIdentifier<? extends DataObject> input) {
        return key.containsWildcarded(input);
    }
}
public IsContainedWildcarded(final InstanceIdentifier<? extends DataObject> key) {
    this.key = key;
}

@Override
public boolean apply(final InstanceIdentifier<? extends DataObject> input) {
    return input.containsWildcarded(key);
}

private final AtomicLong nextTransaction = new AtomicLong();
private final AtomicLong createdTransactionsCount = new AtomicLong();
private final DelegatingDataReadRouter router = new DelegatingDataReadRouter();
private DataCommitHandler<InstanceIdentifier<? extends DataObject>, DataObject> rootCommitHandler;

public DataBrokerImpl() {
    setDataReadRouter(router);
}

public void setDataReadDelegate(final DataReader<InstanceIdentifier<? extends DataObject>, DataObject> delegate) {
    router.setDelegate(delegate);
}

public AtomicLong getCreatedTransactionsCount() {
    return createdTransactionsCount;
}

@Override
public DataTransactionImpl beginTransaction() {
    String transactionId = "BA-" + nextTransaction.getAndIncrement();
    createdTransactionsCount.getAndIncrement();
    return new DataTransactionImpl(transactionId, this);
}

@Override
public void close() {
}

@Override
protected Predicate<InstanceIdentifier<? extends DataObject>> createContainsPredicate(
    final InstanceIdentifier<? extends DataObject> key) {
    return new ContainsWildcarded(key);
}

@Override
protected Predicate<InstanceIdentifier<? extends DataObject>> createIsContainedPredicate(final InstanceIdentifier<? extends DataObject> key) {
    return new IsContainedWildcarded(key);
}

@SuppressWarnings({ "unchecked", "rawtypes" })
@Override
protected Map<InstanceIdentifier<? extends DataObject>, DataObject> deepGetBySubpath(final Map<InstanceIdentifier<? extends DataObject>, DataObject> dataSet,
    final InstanceIdentifier<? extends DataObject> path) {
    Builder<InstanceIdentifier<? extends DataObject>, DataObject> builder = ImmutableMap.builder();
    Map<InstanceIdentifier<? extends DataObject>, DataObject> potential = Maps.filterKeys(dataSet,
        createIsContainedPredicate(path));
    for (Entry<InstanceIdentifier<? extends DataObject>, DataObject> entry : potential.entrySet()) {
        try {
            builder.putAll(DataObjectReadingUtil.readData(entry.getValue(), (InstanceIdentifier) entry.getKey(),
                path));
        } catch (Exception e) {
            // FIXME : Log exception;
        }
    }
    return builder.build();
}

public class DelegatingDataReadRouter extends
    AbstractDataReadRouter<InstanceIdentifier<? extends DataObject>, DataObject> {
    private DataReader<InstanceIdentifier<? extends DataObject>, DataObject> delegate;

    @Override
    public DataObject readConfigurationData(final InstanceIdentifier<? extends DataObject> path) {
        return delegate.readConfigurationData(path);
    }

    public void setDelegate(final DataReader<InstanceIdentifier<? extends DataObject>, DataObject> delegate) {
        this.delegate = delegate;
    }

    @Override
    public DataObject readOperationalData(final InstanceIdentifier<? extends DataObject> path) {
        return delegate.readOperationalData(path);
    }

    @Override
    protected DataObject merge(final InstanceIdentifier<? extends DataObject> path, final Iterable<DataObject>
        data) {
        throw new UnsupportedOperationException("Not supported");
    }
@Override
public Registration registerConfigurationReader(
    final InstanceIdentifier<? extends DataObject> path,
    final DataReader<InstanceIdentifier<? extends DataObject>, DataObject> reader) {
    throw new UnsupportedOperationException("Not supported");
}

@Override
public Registration registerOperationalReader(
    final InstanceIdentifier<? extends DataObject> path,
    final DataReader<InstanceIdentifier<? extends DataObject>, DataObject> reader) {
    throw new UnsupportedOperationException("Not supported");
}

@Override
protected ImmutableList<DataCommitHandler<InstanceIdentifier<? extends DataObject>, DataObject>>
affectedCommitHandlers(
    final Set<InstanceIdentifier<? extends DataObject>> paths) {
    ImmutableList.Builder<DataCommitHandler<InstanceIdentifier<? extends DataObject>, DataObject>>
handlersBuilder = ImmutableList.builder();
    return handlersBuilder //
        .add(rootCommitHandler) //
        .addAll(super.affectedCommitHandlers(paths)) //
        .build();
}

public void setRootCommitHandler(final DataCommitHandler<InstanceIdentifier<? extends DataObject>, DataObject> commitHandler) {
    rootCommitHandler = commitHandler;
}

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* terms of the Eclipse Public License v1.0 which accompanies this distribution,
* and is available at http://www.eclipse.org/legal/epl-v10.html
*/
package org.opendaylight.controller.sal.binding.impl;

import org.opendaylight.controller.md.sal.common.api.TransactionStatus;
import org.opendaylight.controller.md.sal.common.impl.service.AbstractDataTransaction;
import org.opendaylight.yangtools.concepts.ListenerRegistration;
import org.opendaylight.yangtools.util.ListenerRegistry;
import org.opendaylight.yangtools.yang.binding.DataObject;
import org.opendaylight.yangtools.yang.binding.InstanceIdentifier;

public class DataTransactionImpl extends AbstractDataTransaction<InstanceIdentifier<? extends DataObject>, DataObject>
    implements DataModificationTransaction {
    private final ListenerRegistry<DataTransactionListener> listeners = new ListenerRegistry<DataTransactionListener>();

    public DataTransactionImpl(Object identifier, DataBrokerImpl dataBroker) {
        super(identifier, dataBroker);
    }

    @Override
    public ListenerRegistration<DataTransactionListener> registerListener(DataTransactionListener listener) {
        return listeners.register(listener);
    }

    @Override
    protected void onStatusChange(TransactionStatus status) {
        for (ListenerRegistration<DataTransactionListener> listenerRegistration : listeners) {
            listenerRegistration.getInstance().onStatusUpdated(this, status);
        }
    }

    /*
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    * terms of the Eclipse Public License v1.0 which accompanies this distribution,
    * and is available at http://www.eclipse.org/legal/epl-v10.html
    */

    package org.opendaylight.controller.sal.binding.impl;

    import com.google.common.util.concurrent.ListeningExecutorService;
    import com.google.common.util.concurrent.MoreExecutors;
    import java.util.concurrent.ConcurrentHashMap;
    import java.util.concurrent.ConcurrentMap;
    import java.util.concurrent.ExecutorService;
    import java.util.concurrent.Executors;
    import org.opendaylight.controller.md.sal.binding.util.AbstractBindingSalProviderInstance;
    import org.opendaylight.controller.sal.binding.api.mount.MountProviderInstance;
    import org.opendaylight.yangtools.concepts.ListenerRegistration;
    import org.opendaylight.yangtools.util.ListenerRegistry;
    import org.opendaylight.yangtools.yang.binding.InstanceIdentifier;
import org.slf4j.Logger;
import org.slf4j.LoggerFactory;

public class MountPointManagerImpl implements MountProviderService {

    public final Logger LOG = LoggerFactory.getLogger(MountPointManagerImpl.class);

    private final ConcurrentMap<InstanceIdentifier<?>, BindingMountPointImpl> mountPoints;
    private final ListenerRegistry<MountProvisionListener> listeners = ListenerRegistry.create();

    private ListeningExecutorService notificationExecutor;
    private ListeningExecutorService dataCommitExecutor;

    public MountPointManagerImpl() {
        mountPoints = new ConcurrentHashMap<>();
    }

    public ListeningExecutorService getNotificationExecutor() {
        return notificationExecutor;
    }

    public void setNotificationExecutor(final ListeningExecutorService notificationExecutor) {
        this.notificationExecutor = notificationExecutor;
    }

    public ListeningExecutorService getDataCommitExecutor() {
        return dataCommitExecutor;
    }

    public void setDataCommitExecutor(final ListeningExecutorService dataCommitExecutor) {
        this.dataCommitExecutor = dataCommitExecutor;
    }

    @Override
    public synchronized BindingMountPointImpl createMountPoint(final InstanceIdentifier<?> path) {
        BindingMountPointImpl potential = mountPoints.get(path);
        if (potential != null) {
            throw new IllegalStateException("Mount point already exists.");
        }
        return createOrGetMountPointImpl(path);
    }

    @Override
    public BindingMountPointImpl createOrGetMountPoint(final InstanceIdentifier<?> path) {
        BindingMountPointImpl potential = getMountPoint(path);
        if (potential != null) {
            return potential;
        }
    }
}
@Override
public BindingMountPointImpl getMountPoint(final InstanceIdentifier<?> path) {
    return mountPoints.get(path);
}

private synchronized BindingMountPointImpl createOrGetMountPointImpl(final InstanceIdentifier<?> path) {
    BindingMountPointImpl potential = getMountPoint(path);
    if (potential != null) {
        return potential;
    }
    RpcProviderRegistryImpl rpcRegistry = new RpcProviderRegistryImpl("mount");
    NotificationBrokerImpl notificationBroker = new NotificationBrokerImpl(getNotificationExecutor());
    DataBrokerImpl dataBroker = new DataBrokerImpl();
    dataBroker.setExecutor(MoreExecutors.listeningDecorator(Executors.newSingleThreadExecutor()));
    BindingMountPointImpl mountInstance = new BindingMountPointImpl(path, rpcRegistry, notificationBroker, dataBroker);
    mountPoints.putIfAbsent(path, mountInstance);
    notifyMountPointCreated(path);
    return mountInstance;
}

private void notifyMountPointCreated(final InstanceIdentifier<?> path) {
    for (ListenerRegistration<MountProvisionListener> listener : listeners) {
        try {
            listener.getInstance().onMountPointCreated(path);
        } catch (Exception e) {
            LOG.error("Unhandled exception during invoking listener.", e);
        }
    }
}

@Override
public ListenerRegistration<MountProvisionListener> registerProvisionListener(final MountProvisionListener listener) {
    return listeners.register(listener);
}

public class BindingMountPointImpl extends AbstractBindingSalProviderInstance<DataBrokerImpl, NotificationBrokerImpl, RpcProviderRegistryImpl> implements MountProviderInstance {

    private final InstanceIdentifier<?> identifier;

    public BindingMountPointImpl(final InstanceIdentifier<?> identifier, final RpcProviderRegistryImpl rpcRegistry, final NotificationBrokerImpl notificationBroker,
final DataBrokerImpl dataBroker) {
    super(rpcRegistry, notificationBroker, dataBroker);
    this.identifier = identifier;
}

// Needed only for BI Connector
public DataBrokerImpl getDataBrokerImpl() {
    return getDataBroker();
}

@Override
public InstanceIdentifier<??> getIdentifier() {
    return this.identifier;
}

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 * and is available at http://www.eclipse.org/legal/epl-v10.html
 */
package org.opendaylight.controller.sal.binding.impl;

import java.util.Set;
import java.util.concurrent.ExecutorService;
import java.util.concurrent.atomic.AtomicReference;
import javax.annotation.concurrent.GuardedBy;
import org.opendaylight.controller.sal.binding.api.NotificationListener;
import org.opendaylight.controller.sal.binding.api.NotificationProviderService;
import org.opendaylight.controller.sal.binding.codegen.impl.SingletonHolder;
import org.opendaylight.yangtools.concepts.AbstractListenerRegistration;
import org.opendaylight.yangtools.concepts.ListenerRegistration;
import org.opendaylight.yangtools.util.ListenerRegistry;
import org.opendaylight.yangtools.yang.binding.Notification;
import org.slf4j.Logger;
import org.slf4j.LoggerFactory;
import com.google.common.base.Preconditions;
import com.google.common.collect.HashMultimap;
import com.google.common.collect.Multimap;

public class NotificationBrokerImpl implements NotificationProviderService, AutoCloseable {
    private static final Logger LOG = LoggerFactory.getLogger(NotificationBrokerImpl.class);
}
private final ListenerRegistry<NotificationInterestListener> interestListeners = ListenerRegistry.create();
private final AtomicReference<ListenerMapGeneration> listeners = new AtomicReference<>(new ListenerMapGeneration());
private final ExecutorService executor;

public NotificationBrokerImpl(final ExecutorService executor) {
    this.executor = Preconditions.checkNotNull(executor);
}

@Override
public void publish(final Notification notification) {
    publish(notification, executor);
}

@Override
public void publish(final Notification notification, final ExecutorService service) {
    for (NotificationListenerRegistration<?> r : listeners.get().listenersFor(notification)) {
        service.submit(new NotifyTask(r, notification));
    }
}

@GuardedBy("this")
private Multimap<Class<? extends Notification>, NotificationListenerRegistration<?>> mutableListeners() {
    return HashMultimap.create(listeners.get().getListeners());
}

private final void addRegistrations(final NotificationListenerRegistration<?>... registrations) {
    synchronized (this) {
        final Multimap<Class<? extends Notification>, NotificationListenerRegistration<?>> newListeners = mutableListeners();
        for (NotificationListenerRegistration<?> reg : registrations) {
            newListeners.put(reg.getType(), reg);
        }

        listeners.set(new ListenerMapGeneration(newListeners));
    }

    // Notifications are dispatched out of lock...
    for (NotificationListenerRegistration<?> reg : registrations) {
        announceNotificationSubscription(reg.getType());
    }
}

private synchronized void removeRegistrations(final NotificationListenerRegistration<?>... registrations) {
    final Multimap<Class<? extends Notification>, NotificationListenerRegistration<?>> newListeners = mutableListeners();
for (NotificationListenerRegistration<?> reg : registrations) {
    newListeners.remove(reg.getType(), reg);
}

listeners.set(new ListenerMapGeneration(newListeners));

private void announceNotificationSubscription(final Class<? extends Notification> notification) {
    for (final ListenerRegistration<NotificationInterestListener> listener : interestListeners) {
        try {
            listener.getInstance().onNotificationSubscription(notification);
        } catch (Exception e) {
            LOG.warn("Listener {} reported unexpected error on notification {}", 
                listener.getInstance(), notification, e);
        }
    }
}

@Override
public ListenerRegistration<NotificationInterestListener> registerInterestListener(final NotificationInterestListener interestListener) {
    final ListenerRegistration<NotificationInterestListener> registration = 
        this.interestListeners.register(interestListener);

    for (final Class<? extends Notification> notification : listeners.get().getKnownTypes()) {
        interestListener.onNotificationSubscription(notification);
    }
    return registration;
}

@Override
public <T extends Notification> NotificationListenerRegistration<T> registerNotificationListener(final Class<T> notificationType, final NotificationListener<T> listener) {
    final NotificationListenerRegistration<T> reg = new 
        AbstractNotificationListenerRegistration<T>(notificationType, listener) {
            @Override
            protected void removeRegistration() {
                removeRegistrations(this);
            }
        };

    addRegistrations(reg);
    return reg;
}

@Override
public ListenerRegistration<org.opendaylight.yangtools.yang.binding.NotificationListener>
registerNotificationListener(final org.opendaylight.yangtools.yang.binding.NotificationListener listener) {
    final NotificationInvoker invoker = SingletonHolder.INVOKER_FACTORY.invokerFor(listener);
    final Set<Class<? extends Notification>> types = invoker.getSupportedNotifications();
    final NotificationListenerRegistration<?>[] regs = new NotificationListenerRegistration<?>[types.size()];

    // Populate the registrations...
    int i = 0;
    for (Class<? extends Notification> type : types) {
        regs[i] = new AggregatedNotificationListenerRegistration<Notification, Object>(type,
            invoker.getInvocationProxy(), regs) {
            @Override
            protected void removeRegistration() {
                // Nothing to do, will be cleaned up by parent (below)
            }
        };
        ++i;
    }

    // ... now put them to use ...
    addRegistrations(regs);

    // ... finally return the parent registration
    return new AbstractListenerRegistration<org.opendaylight.yangtools.yang.binding.NotificationListener>(listener) {
        @Override
        protected void removeRegistration() {
            removeRegistrations(regs);
            for (ListenerRegistration<?> reg : regs) {
                reg.close();
            }
        }
    };

    @Override
    public void close() {
    }

} /*
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 * terms of the Eclipse Public License v1.0 which accompanies this distribution,
 * and is available at http://www.eclipse.org/legal/epl-v10.html
 */
package org.opendaylight.controller.sal.binding.impl;
import static com.google.common.base.Preconditions.checkState;
import java.util.EventListener;
import java.util.HashMap;
import java.util.Map;
import java.util.Map.Entry;
import java.util.Set;
import java.util.concurrent.Callable;
import java.util.concurrent.ExecutionException;
import java.util.concurrent.atomic.AtomicBoolean;
import org.opendaylight.controller.md.sal.common.api.routing.RouteChange;
import org.opendaylight.controller.md.sal.common.api.routing.RouteChangeListener;
import org.opendaylight.controller.md.sal.common.api.routing.RouteChangePublisher;
import org.opendaylight.controller.md.sal.common.impl.routing.RoutingUtils;
import org.opendaylight.controller.sal.binding.api.BindingAwareBroker.RoutedRpcRegistration;
import org.opendaylight.controller.sal.binding.api.BindingAwareBroker.RpcRegistration;
import org.opendaylight.controller.sal.binding.api.RpcProviderRegistry;
import org.opendaylight.controller.sal.binding.api.rpc.RpcContextIdentifier;
import org.opendaylight.controller.sal.binding.api.rpc.RpcRouter;
import org.opendaylight.controller.sal.binding.api.rpc.RpcProviderRegistry;
import org.opendaylight.controller.sal.binding.codegen.RpcIsNotRoutedException;
import org.opendaylight.controller.sal.binding.codegen.RuntimeCodeGenerator;
import org.opendaylight.controller.sal.binding.codegen.RuntimeCodeHelper;
import org.opendaylight.controller.sal.binding.codegen.impl.SingletonHolder;
import org.opendaylight.yangtools.concepts.AbstractObjectRegistration;
import org.opendaylight.yangtools.concepts.ListenerRegistration;
import org.opendaylight.yangtools.util.ListenerRegistry;
import org.opendaylight.yangtools.yang.binding.BaseIdentity;
import org.opendaylight.yangtools.yang.binding.InstanceIdentifier;
import org.opendaylight.yangtools.yang.binding.RpcService;
import org.slf4j.Logger;
import org.slf4j.LoggerFactory;
import com.google.common.base.Throwables;
import com.google.common.base.Cache;
import com.google.common.cache.CacheBuilder;
import com.google.common.cache.CacheLoader;
import com.google.common.util.concurrent.UncheckedExecutionException;

public class RpcProviderRegistryImpl implements RpcProviderRegistry,
RouteChangePublisher<RpcContextIdentifier, InstanceIdentifier<?>> {
    private RuntimeCodeGenerator rpcFactory = SingletonHolder.RPC_GENERATOR_IMPL;

    // cache of proxy objects where each value in the map corresponds to a specific RpcService
    private final LoadingCache<Class<? extends RpcService>, RpcService> publicProxies =
    CacheBuilder.newBuilder().weakKeys().build();
build(new CacheLoader<Class<? extends RpcService>, RpcService>() {
    @Override
    public RpcService load(final Class<? extends RpcService> type) {
        final RpcService proxy = rpcFactory.getDirectProxyFor(type);
        LOG.debug("Created {} as public proxy for {} in {}", proxy, type.getSimpleName(), this);
        return proxy;
    }
});

private final Cache<Class<? extends RpcService>, RpcRouter<?>> rpcRouters =
    CacheBuilder.newBuilder().weakKeys()
    .build();

private final ListenerRegistry<RouteChangeListener<RpcContextIdentifier, InstanceIdentifier<?>>> routeChangeListeners = ListenerRegistry
    .create();
private final ListenerRegistry<RouterInstantiationListener> routerInstantiationListener =
    ListenerRegistry.create();

private final static Logger LOG = LoggerFactory.getLogger(RpcProviderRegistryImpl.class);
private final String name;
private final ListenerRegistry<GlobalRpcRegistrationListener> globalRpcListeners = ListenerRegistry.create();

public String getName() {
    return name;
}

public RpcProviderRegistryImpl(final String name) {
    super();
    this.name = name;
}

@Override
public final <T extends RpcService> RoutedRpcRegistration<T> addRoutedRpcImplementation(final Class<T> type,
    final T implementation) throws IllegalStateException {
    return getRpcRouter(type).addRoutedRpcImplementation(implementation);
}

@Override
public final <T extends RpcService> RpcRegistration<T> addRpcImplementation(final Class<T> type, final T implementation)
    throws IllegalStateException {
    // FIXME: This should be well documented - addRpcImplementation for
    // routed RPCs
try {
    // Note: If RPC is really global, expected count of registrations
    // of this method is really low.
    RpcRouter<T> potentialRouter = getRpcRouter(type);
    checkState(potentialRouter.getDefaultService() == null,
        "Default service for routed RPC already registered.");
    return potentialRouter.registerDefaultService(implementation);
} catch (RpcIsNotRoutedException e) {
    // NOOP - we could safely continue, since RPC is not routed
    // so we fallback to global routing.
    LOG.debug("RPC is not routed. Using global registration.",e);
}

T publicProxy = getRpcService(type);
RpcService currentDelegate = RuntimeCodeHelper.getDelegate(publicProxy);
checkState(currentDelegate == null, "Rpc service is already registered");
LOG.debug("Registering {} as global implementation of {} in {}", implementation, type.getSimpleName(),
    this);
    RuntimeCodeHelper.setDelegate(publicProxy, implementation);
    notifyGlobalRpcAdded(type);
    return new RpcProxyRegistration<T>(type, implementation, this);
}

@SuppressWarnings("unchecked")
@Override
public final <T extends RpcService> T getRpcService(final Class<T> type) {
    return (T) publicProxies.getUnchecked(type);
}

public <T extends RpcService> RpcRouter<T> getRpcRouter(final Class<T> type) {
    try {
        final AtomicBoolean created = new AtomicBoolean(false);
        @SuppressWarnings("unchecked")
        // LoadingCache is unsuitable for RpcRouter since we need to distinguish
        // first creation of RPC Router, so that is why
        // we are using normal cache with load API and shared AtomicBoolean
        // for this call, which will be set to true if router was created.
        RpcRouter<T> router = (RpcRouter<T>) rpcRouters.get(type,
            new Callable<RpcRouter<?>>() {
                @Override
                public org.opendaylight.controller.sal.binding.api.rpc.RpcRouter<?> call() {
                    RpcRouter<?> router = rpcFactory.getRouterFor(type, name);
                    router.registerRouteChangeListener(new RouteChangeForwarder<T>(type));
                    LOG.debug("Registering router {} as global implementation of {} in {}", router,
                        type.getSimpleName(), this);
                    RuntimeCodeHelper.setDelegate(getRpcService(type), router.getInvocationProxy());
                    created.set(true);
                    return router;
                }
            });

        @Override
        public org.opendaylight.controller.sal.binding.api.rpc.RpcRouter<?> call() {
            RpcRouter<T> router = rpcFactory.getRouterFor(type, name);
            router.registerRouteChangeListener(new RouteChangeForwarder<T>(type));
            LOG.debug("Registering router {} as global implementation of {} in {}", router,
                type.getSimpleName(), this);
            RuntimeCodeHelper.setDelegate(getRpcService(type), router.getInvocationProxy());
            created.set(true);
            return router;
        }
    }
    return router;
}
if (created.get()) {
    notifyListenersRoutedCreated(router);
}
return router;
} catch (ExecutionException | UncheckedExecutionException e) {
    // We rethrow Runtime Exceptions which were wrapped by
    // Execution Exceptions
    // otherwise we throw IllegalStateException with original
    throwables.propagateIfPossible(e.getCause());
    throw new IllegalStateException("Could not load RPC Router for "+type.getName(), e);
}
}

private void notifyGlobalRpcAdded(final Class<? extends RpcService> type) {
    for (ListenerRegistration<GlobalRpcRegistrationListener> listener : globalRpcListeners) {
        try {
            listener.getInstance().onGlobalRpcRegistered(type);
        } catch (Exception e) {
            LOG.error("Unhandled exception during invoking listener {}", e);
        }
    }
}
private void notifyListenersRoutedCreated(final RpcRouter<?> router) {
    for (ListenerRegistration<RouterInstantiationListener> listener : routerInstantiationListener) {
        try {
            listener.getInstance().onRpcRouterCreated(router);
        } catch (Exception e) {
            LOG.error("Unhandled exception during invoking listener {}", e);
        }
    }
}

public ListenerRegistration<RouterInstantiationListener> registerRouterInstantiationListener(
    final RouterInstantiationListener listener) {
    ListenerRegistration<RouterInstantiationListener> reg = routerInstantiationListener.register(listener);
    try {
        for (RpcRouter<?> router : rpcRouters.asMap().values()) {
            listener.onRpcRouterCreated(router);
        }
    } catch (Exception e) {
        LOG.error("Unhandled exception during invoking listener {}", e);
    }
    return reg;
}
return reg;
}

@SuppressWarnings("unchecked")
@Override
public <L extends RouteChangeListerner<RpcContextIdentifier, InstanceIdentifier<?>>> ListenerRegistration<L>
registerRouteChangeListerner(
    final L listener) {
    return (ListenerRegistration<L>) routeChangeListeners.register(listener);
}

public RuntimeCodeGenerator getRpcFactory() {
    return rpcFactory;
}

public void setRpcFactory(final RuntimeCodeGenerator rpcFactory) {
    this.rpcFactory = rpcFactory;
}

public interface RouterInstantiationListener extends EventListener {
    void onRpcRouterCreated(RpcRouter<?> router);
}

public ListenerRegistration<GlobalRpcRegistrationListener> registerGlobalRpcRegistrationListener(final
    GlobalRpcRegistrationListener listener) {
    return globalRpcListeners.register(listener);
}

private class RouteChangeForwarder<T extends RpcService> implements RouteChangeListerner<Class<? extends BaseIdentity>, InstanceIdentifier<?>> {

    private final Class<T> type;

    public RouteChangeForwarder(final Class<T> type) {
        this.type = type;
    }

    @Override
    public void onRouteChange(final RouteChange<Class<? extends BaseIdentity>, InstanceIdentifier<?>> change) {
        Map<RpcContextIdentifier, Set<InstanceIdentifier<?>>> announcements = new HashMap<>();
        for (Entry<Class<? extends BaseIdentity>, Set<InstanceIdentifier<?>>> entry : change.getAnnouncements()
Map<RpcContextIdentifier, Set<InstanceIdentifier<?>>> announcements = new HashMap<>();
for (Entry<Class<? extends BaseIdentity>, Set<InstanceIdentifier<?>>> entry : change.getAdditions().entrySet()) {
    RpcContextIdentifier key = RpcContextIdentifier.contextFor(type, entry.getKey());
    announcements.put(key, entry.getValue());
}

Map<RpcContextIdentifier, Set<InstanceIdentifier<?>>> removals = new HashMap<>();
for (Entry<Class<? extends BaseIdentity>, Set<InstanceIdentifier<?>>> entry : change.getRemovals().entrySet()) {
    RpcContextIdentifier key = RpcContextIdentifier.contextFor(type, entry.getKey());
    removals.put(key, entry.getValue());
}

RouteChange<RpcContextIdentifier, InstanceIdentifier<?>> toPublish = RoutingUtils.change(announcements, removals);
for (ListenerRegistration<RouteChangeListener<RpcContextIdentifier, InstanceIdentifier<?>>> listener : routeChangeListeners) {
    try {
        listener.getInstance().onRouteChange(toPublish);
    } catch (Exception e) {
        LOG.error("Unhandled exception during invoking listener", listener.getInstance(), e);
    }
}

public static class RpcProxyRegistration<T extends RpcService> extends AbstractObjectRegistration<T> implements RpcRegistration<T> {

    private final Class<T> serviceType;
    private RpcProviderRegistryImpl registry;

    public RpcProxyRegistration(final Class<T> type, final T service, final RpcProviderRegistryImpl registry) {
        super(service);
        this.serviceType = type;
        this.registry = registry;
    }

    @Override
    public Class<T> getServiceType() {
        return serviceType;
    }

    @Override
    protected void removeRegistration() {
        if (registry != null) {
            T publicProxy = registry.getRpcService(serviceType);
            RpcService currentDelegate = RuntimeCodeHelper.getDelegate(publicProxy);
            if (currentDelegate == getInstance()) {
                RuntimeCodeHelper.setDelegate(publicProxy, null);
            }
        }
    }
}
import java.util.Collections;
import java.util.Map;
import java.util.concurrent.ConcurrentHashMap;
import java.util.concurrent.ConcurrentMap;
import org.opendaylight.controller.md.sal.common.api.routing.RouteChangeListener;
import org.opendaylight.controller.md.sal.common.api.routing.RouteChangePublisher;
import org.opendaylight.controller.md.sal.common.impl.routing.RoutingUtils;
import org.opendaylight.controller.sal.binding.api.rpc.RpcRoutingTable;
import org.opendaylight.yangtools.concepts.AbstractObjectRegistration;
import org.opendaylight.yangtools.concepts.ListenerRegistration;
import org.opendaylight.yangtools.concepts.Mutable;
import org.opendaylight.yangtools.yang.binding.BaseIdentity;
import org.opendaylight.yangtools.yang.binding.InstanceIdentifier;
import org.opendaylight.yangtools.yang.binding.RpcService;
import org.slf4j.Logger;
import org.slf4j.LoggerFactory;

class RpcRoutingTableImpl<C extends BaseIdentity, S extends RpcService> //
implements //
    Mutable, //
    RpcRoutingTable<C, S>, //
    RouteChangePublisher<Class<? extends BaseIdentity>, InstanceIdentifier<?>> {

    private static final Logger LOGGER = LoggerFactory.getLogger(RpcRoutingTableImpl.class);
    private final String routerName;
    private final Class<S> serviceType;
    private final Class<C> contextType;
    private final ConcurrentMap<InstanceIdentifier<?>, S> routes;
    private final Map<InstanceIdentifier<?>, S> unmodifiableRoutes;
    private RouteChangeListener<Class<? extends BaseIdentity>, InstanceIdentifier<?>> listener;
    private S defaultRoute;

    public RpcRoutingTableImpl(String routerName, Class<C> contextType, Class<S> serviceType) {
        this.routerName = routerName;
        this.contextType = contextType;
        this.serviceType = serviceType;
        this.routes = new ConcurrentHashMap<>();
        this.unmodifiableRoutes = Collections.unmodifiableMap(routes);
        this.listener = null;
        this.defaultRoute = null;
    }

    public S defaultRoute() {
        return defaultRoute;
    }

    public void registerRoute(InstanceIdentifier<?> route, S routeEntry) {
        RouteChangePublisher<Class<? extends BaseIdentity>, InstanceIdentifier<?>> publisher =
            getPublisher();
        if (listener == null) {
            LOGGER.warn("Route Changer is not registered. " +
                "Routes changes will not be published.");
        } else {
            RouteChangeListener<Class<? extends BaseIdentity>, InstanceIdentifier<?>>
                registration = listener.register(route, routeEntry);
        }
    }

    public void unmodifiableRoutes() {
        //
    }

    public void removeRoute(InstanceIdentifier<?> route) {
        RouteChangePublisher<Class<? extends BaseIdentity>, InstanceIdentifier<?>>
            publisher = getPublisher();
        if (listener == null) {
            LOGGER.warn("Route Changer is not registered. " +
                "Routes changes will not be published.");
        } else {
            RouteChangeListener<Class<? extends BaseIdentity>, InstanceIdentifier<?>>
                registration = listener.unregister(route);
        }
    }

    public void defaultRoute(S defaultRoute) {
        this.defaultRoute = defaultRoute;
    }

    public void unregisterRoute(InstanceIdentifier<?> route) {
        RouteChangePublisher<Class<? extends BaseIdentity>, InstanceIdentifier<?>>
            publisher = getPublisher();
        if (listener == null) {
            LOGGER.warn("Route Changer is not registered. " +
                "Routes changes will not be published.");
        } else {
            RouteChangeListener<Class<? extends BaseIdentity>, InstanceIdentifier<?>>
                registration = listener.unregister(route);
        }
    }

    public void setListener(RouteChangeListener<Class<? extends BaseIdentity>,
        InstanceIdentifier<?>> listener) {
        this.listener = listener;
    }

    // Other methods...

    private RouteChangePublisher<Class<? extends BaseIdentity>, InstanceIdentifier<?>>
        getPublisher() {
        //
    }

    private RouteChangeListener<Class<? extends BaseIdentity>, InstanceIdentifier<?>>
        getRegistration() {
        //
    }

    // Other methods...
}
public RpcRoutingTableImpl(String routerName, Class<C> contextType, Class<S> serviceType) {
    super();
    this.routerName = routerName;
    this.serviceType = serviceType;
    this.contextType = contextType;
    this.routes = new ConcurrentHashMap<>();
    this.unmodifiableRoutes = Collections.unmodifiableMap(routes);
}

@Override
public void setDefaultRoute(S target) {
    defaultRoute = target;
}

@Override
public S getDefaultRoute() {
    return defaultRoute;
}

@Override
public <L extends RouteChangeListener<Class<? extends BaseIdentity>, InstanceIdentifier<?>>>
ListenerRegistration<L> registerRouteChangeListener(
    L listener) {
    return new SingletonListenerRegistration<L>(listener);
}

@Override
public Class<C> getIdentifier() {
    return contextType;
}

@Override
@SuppressWarnings("unchecked")
public void updateRoute(InstanceIdentifier<?> path, S service) {
    S previous = this.routes.put(path, service);
    LOGGER.debug("Route {} updated to {} in routing table {}", path, service, this);
    @SuppressWarnings("rawtypes")
    RouteChangeListener listenerCapture = listener;
    if (previous == null && listenerCapture != null) {
        listenerCapture.onRouteChange(RoutingUtils.announcementChange(contextType, path));
    }
}

@Override
@SuppressWarnings("unchecked")
public void updateRoute(InstanceIdentifier<?> path, S service) {
    S previous = this.routes.put(path, service);
    LOGGER.debug("Route {} updated to {} in routing table {}", path, service, this);
    @SuppressWarnings("rawtypes")
    RouteChangeListener listenerCapture = listener;
    if (previous == null && listenerCapture != null) {
        listenerCapture.onRouteChange(RoutingUtils.announcementChange(contextType, path));
    }
}

@Override
@SuppressWarnings("unchecked")
public void removeRoute(InstanceIdentifier<?> path) {
    S previous = this.routes.remove(path);
    LOGGER.debug("Route {} to {} removed in routing table {}", path, previous, this);
    @SuppressWarnings("rawtypes")
    RouteChangeListener listenerCapture = listener;
    if (previous != null && listenerCapture != null) {
        listenerCapture.onRouteChange(RoutingUtils.removalChange(contextType, path));
    }
}

public void removeRoute(InstanceIdentifier<?> path, S service) {
    @SuppressWarnings("rawtypes")
    RouteChangeListener listenerCapture = listener;
    if (routes.remove(path, service) && listenerCapture != null) {
        LOGGER.debug("Route {} to {} removed in routing table {}", path, service, this);
        listenerCapture.onRouteChange(RoutingUtils.removalChange(contextType, path));
    }
}

@Override
public S getRoute(InstanceIdentifier<?> nodeInstance) {
    S route = routes.get(nodeInstance);
    if (route != null) {
        return route;
    }
    return getDefaultRoute();
}

@Override
public Map<InstanceIdentifier<?>, S> getRoutes() {
    return unmodifiableRoutes;
}

protected void removeAllReferences(S service) {
}

@Override
public String toString() {
    return "RpcRoutingTableImpl [router=", routerName + ", service=", serviceType.getSimpleName() + ",
        context=
        + contextType.getSimpleName() + "]";
}
public SingletonListenerRegistration<L extends RouteChangeListener<Class<? extends BaseIdentity>, InstanceIdentifier<?>>> extends AbstractObjectRegistration<L> implements ListenerRegistration<L> {

    public SingletonListenerRegistration(L instance) {
        super(instance);
        listener = instance;
    }

    @Override
    protected void removeRegistration() {
        listener = null;
    }
}

7.156 sal-binding-config 1.1.1-Helium-SR1
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 */

package org.opendaylight.controller.md.sal.dom.broker.impl.jmx;

/**
 * MXBean interface for retrieving write Tx commit statistics.
 * @author Thomas Pantelis
 */
public interface CommitStatsMXBean {

/**
 * Returns the total number of commits that have occurred.
 */
long getTotalCommits();

/**
 * Returns a string representing the time duration of the longest commit, in the appropriate
 * scaled units, along with the date/time that it occurred.
 */
String getLongestCommitTime();

/**
 * Returns a string representing the time duration of the shortest commit, in the appropriate
 * scaled units, along with the date/time that it occurred.
 */
String getShortestCommitTime();

/**
 * Returns a string representing average commit time duration, in the appropriate
 * scaled units.
 */
String getAverageCommitTime();

/**
 * Clears the current stats to their defaults.
 */
void clearStats();
/**
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 */

package org.opendaylight.controller.md.sal.dom.broker.impl.jmx;
import javax.annotation.Nonnull;
import org.opendaylight.controller.md.sal.common.util.jmx.AbstractMXBean;
import org.opendaylight.yangtools.util.DurationStatisticsTracker;

/**
 * Implementation of the CommitStatsMXBean interface.
 *
 * @author Thomas Pantelis
 */
public class CommitStatsMXBeanImpl extends AbstractMXBean implements CommitStatsMXBean {

private final DurationStatisticsTracker commitStatsTracker;

/**
 * Constructor.
 *
 * @param commitStatsTracker the DurationStatsTracker used to obtain the stats.
 * @param mBeanType mBeanType Used as the type property in the bean's ObjectName.
 */
public CommitStatsMXBeanImpl(@Nonnull DurationStatisticsTracker commitStatsTracker,
                           @Nonnull String mBeanType) {
   super("CommitStats", mBeanType, null);
   this.commitStatsTracker = commitStatsTracker;
}

@Override
public long getTotalCommits() {
   return commitStatsTracker.getTotalDurations();
}
package org.opendaylight.controller.md.sal.dom.broker.impl.mount;

import com.google.common.base.Optional;
import com.google.common.base.Preconditions;
import com.google.common.collect.ClassToInstanceMap;
import com.google.common.collect.MutableClassToInstanceMap;
import java.util.HashMap;
import java.util.Map;
import org.opendaylight.controller.md.sal.dom.api.DOMMountPoint;
import org.opendaylight.controller.md.sal.dom.api.DOMMountPointService;
import org.opendaylight.controller.md.sal.dom.broker.spi.mount.SimpleDOMMountPoint;
import org.opendaylight.yangtools.concepts.ListenerRegistration;
import org.opendaylight.yangtools.concepts.ObjectRegistration;
import org.opendaylight.yangtools.util.ListenerRegistry;
import org.opendaylight.yangtools.yang.data.api.YangInstanceIdentifier;
import org.opendaylight.yangtools.yang.model.api.SchemaContext;

public class DOMMountPointServiceImpl implements DOMMountPointService {

    @Override
    public String getLongestCommitTime() {
        return commitStatsTracker.getDisplayableLongestDuration();
    }

    @Override
    public String getShortestCommitTime() {
        return commitStatsTracker.getDisplayableShortestDuration();
    }

    @Override
    public String getAverageCommitTime() {
        return commitStatsTracker.getDisplayableAverageDuration();
    }

    @Override
    public void clearStats() {
        commitStatsTracker.reset();
    }
}

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 * terms of the Eclipse Public License v1.0 which accompanies this distribution,
 */
private final Map<YangInstanceIdentifier, DOMMountPoint> mountPoints = new HashMap<>();

private final ListenerRegistry<MountProvisionListener> listeners = ListenerRegistry.create();

@Override
public Optional<DOMMountPoint> getMountPoint(final YangInstanceIdentifier path) {
    return Optional.fromNullable(mountPoints.get(path));
}

@Override
public DOMMountPointBuilder createMountPoint(final YangInstanceIdentifier path) {
    Preconditions.checkState(!mountPoints.containsKey(path), "Mount point already exists");
    return new DOMMountPointBuilderImpl(path);
}

public void notifyMountCreated(final YangInstanceIdentifier identifier) {
    for (final ListenerRegistration<MountProvisionListener> listener : listeners.getListeners()) {
        listener.getInstance().onMountPointCreated(identifier);
    }
}

public void notifyMountRemoved(final YangInstanceIdentifier identifier) {
    for (final ListenerRegistration<MountProvisionListener> listener : listeners.getListeners()) {
        listener.getInstance().onMountPointRemoved(identifier);
    }
}

@Override
public ListenerRegistration<MountProvisionListener> registerProvisionListener(
        final MountProvisionListener listener) {
    return listeners.register(listener);
}

public ObjectRegistration<DOMMountPoint> registerMountPoint(final DOMMountPoint mountPoint) {
    synchronized (mountPoints) {
        Preconditions.checkState(!mountPoints.containsKey(mountPoint.getIdentifier()), "Mount point already exists");
        mountPoints.put(mountPoint.getIdentifier(), mountPoint);
        notifyMountCreated(mountPoint.getIdentifier());
    }
    return new MountRegistration(mountPoint);
}

public void unregisterMountPoint(final YangInstanceIdentifier mountPointId) {

synchronized (mountPoints) {
    Preconditions.checkNotNull(mountPoints.containsKey(mountPointId), "Mount point does not exist");
    mountPoints.remove(mountPointId);
}
notifyMountRemoved(mountPointId);

public class DOMMountPointBuilderImpl implements DOMMountPointBuilder {

    ClassToInstanceMap<DOMService> services = MutableClassToInstanceMap.create();
    private SimpleDOMMountPoint mountPoint;
    private final YangInstanceIdentifier path;
    private SchemaContext schemaContext;

    public DOMMountPointBuilderImpl(final YangInstanceIdentifier path) {
        this.path = path;
    }

    @Override
    public <T extends DOMService> DOMMountPointBuilder addService(final Class<T> type, final T impl) {
        services.putInstance(type, impl);
        return this;
    }

    @Override
    public DOMMountPointBuilder addInitialSchemaContext(final SchemaContext ctx) {
        schemaContext = ctx;
        return this;
    }

    @Override
    public ObjectRegistration<DOMMountPoint> register() {
        Preconditions.checkNotNull(mountPoint == null, "Mount point is already built.");
        mountPoint = SimpleDOMMountPoint.create(path, services, schemaContext);
        return registerMountPoint(mountPoint);
    }
}

private final class MountRegistration implements ObjectRegistration<DOMMountPoint> {
    private final DOMMountPoint mountPoint;

    public MountRegistration(final DOMMountPoint mountPoint) {
        this.mountPoint = mountPoint;
    }

    @Override
    public DOMMountPoint getInstance() {
        return mountPoint;
    }
}

private final class MountRegistration implements ObjectRegistration<DOMMountPoint> {
    private final DOMMountPoint mountPoint;

    public MountRegistration(final DOMMountPoint mountPoint) {
        this.mountPoint = mountPoint;
    }

    @Override
    public DOMMountPoint getInstance() {
        return mountPoint;
    }
}
public interface DOMDataCommitExecutor {

  /**
   * Submits supplied transaction to be executed in context of provided
   * cohorts.
   *
   * Transaction is used only as a context, cohorts should be associated with
   * this transaction.
   *
   * @param tx
   *   Transaction to be used as context for reporting
   * @param cohort
   *   DOM Store cohorts representing provided transaction, its
   *   subtransactions.
   * @return a CheckedFuture. if commit coordination on cohorts finished successfully,
   *   nothing is returned from the Future, On failure,
   *   the Future fails with a (@link TransactionCommitFailedException).
   */

*/

    import com.google.common.util.concurrent.CheckedFuture;
    import org.opendaylight.controller.md.sal.common.api.data.TransactionCommitFailedException;
    import org.opendaylight.controller.md.sal.dom.api.DOMDataWriteTransaction;
    import org.opendaylight.controller.sal.core.spi.data.DOMStoreThreePhaseCommitCohort;

    /**
     * Executor of Three Phase Commit coordination for
     * { @link DOMDataWriteTransaction} transactions.
     *
     * Implementations are responsible for executing implementation of three-phase
     * commit protocol on supplied { @link DOMStoreThreePhaseCommitCohort}s.
     *
     *
     */

    public interface DOMDataCommitExecutor {

        /**
         * Submits supplied transaction to be executed in context of provided
         * cohorts.
         *
         * Transaction is used only as a context, cohorts should be associated with
         * this transaction.
         *
         * @param tx
         *   Transaction to be used as context for reporting
         * @param cohort
         *   DOM Store cohorts representing provided transaction, its
         *   subtransactions.
         * @return a CheckedFuture. if commit coordination on cohorts finished successfully,
         *   nothing is returned from the Future, On failure,
         *   the Future fails with a (@link TransactionCommitFailedException).
         */
*  
*/  
  
CheckedFuture<Void, TransactionCommitFailedException> submit(DOMDataWriteTransaction tx,  
  Iterable<DOMStoreThreePhaseCommitCohort> cohort);

*/  
  
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*/

package org.opendaylight.controller.md.sal.dom.broker.impl;

import static com.google.common.base.Preconditions.checkNotNull;
import com.google.common.base.Preconditions;
import com.google.common.util.concurrent.CheckedFuture;
import com.google.common.util.concurrent.ListeningExecutorService;
import java.util.EnumMap;
import java.util.Map;
import java.util.Map.Entry;
import java.util.concurrent.atomic.AtomicLong;
import org.opendaylight.controller.md.sal.common.api.data.LogicalDatastoreType;
import org.opendaylight.controller.md.sal.common.api.data.TransactionChainListener;
import org.opendaylight.controller.md.sal.common.api.data.TransactionCommitFailedException;
import org.opendaylight.controller.md.sal.dom.api.DOMDataBroker;
import org.opendaylight.controller.md.sal.dom.api.DOMDataChangeListener;
import org.opendaylight.controller.md.sal.dom.api.DOMDataWriteTransaction;
import org.opendaylight.controller.md.sal.dom.api.DOMTransactionChain;
import org.opendaylight.controller.sal.core.spi.data.DOMStore;
import org.opendaylight.controller.sal.core.spi.data.DOMStoreThreePhaseCommitCohort;
import org.opendaylight.controller.sal.core.spi.data.DOMStoreTransactionChain;
import org.opendaylight.yangtools.concepts.ListenerRegistration;
import org.opendaylight.yangtools.yang.data.api.YangInstanceIdentifier;
import org.slf4j.Logger;
import org.slf4j.LoggerFactory;

public class DOMDataBrokerImpl extends AbstractDOMForwardedTransactionFactory<DOMStore> implements
DOMDataBroker,
AutoCloseable {

    private static final Logger LOG = LoggerFactory.getLogger(DOMDataBrokerImpl.class);

    private final DOMDataCommitExecutor coordinator;
    private final AtomicLong txNum = new AtomicLong();
    private final AtomicLong chainNum = new AtomicLong();
    private volatile AutoCloseable closeable;

    public class DOMDataBrokerImpl extends AbstractDOMForwardedTransactionFactory<DOMStore> implements
DOMDataBroker,
AutoCloseable {

    private static final Logger LOG = LoggerFactory.getLogger(DOMDataBrokerImpl.class);

    private final DOMDataCommitExecutor coordinator;
private final AtomicLong txNum = new AtomicLong();
private final AtomicLong chainNum = new AtomicLong();
private volatile AutoCloseable closeable;
public DOMDataBrokerImpl(final Map<LogicalDatastoreType, DOMStore> datastores, 
final ListeningExecutorService executor) {
    this(datastores, new DOMDataCommitCoordinatorImpl(executor));
}

public DOMDataBrokerImpl(final Map<LogicalDatastoreType, DOMStore> datastores, 
final DOMDataCommitExecutor coordinator) {
    super(datastores);
    this.coordinator = Preconditions.checkNotNull(coordinator);
}

public void setCloseable(final AutoCloseable closeable) {
    this.closeable = closeable;
}

@Override
public void close() {
    super.close();

    if(closeable != null) {
        try {
            closeable.close();
        } catch(Exception e) {
            LOG.debug("Error closing instance", e);
        }
    }
}

@Override
protected Object newTransactionIdentifier() {
    return "DOM-" + txNum.getAndIncrement();
}

@Override
public ListenerRegistration<DOMDataChangeListener> registerDataChangeListener(final LogicalDatastoreType store, 
final YangInstanceIdentifier path, final DOMDataChangeListener listener, final DataChangeScope triggeringScope) {
    DOMStore potentialStore = getTxFactories().get(store);
    checkState(potentialStore != null, "Requested logical data store is not available.");
    return potentialStore.registerChangeListener(path, listener, triggeringScope);
}

@Override
public DOMTransactionChain createTransactionChain(final TransactionChainListener listener) {
    checkNotClosed();
final Map<LogicalDatastoreType, DOMStoreTransactionChain> backingChains = new
    EnumMap<>(LogicalDatastoreType.class);
for (Entry<LogicalDatastoreType, DOMStore> entry : getTxFactories().entrySet()) {
    backingChains.put(entry.getKey(), entry.getValue().createTransactionChain());
}

final long chainId = chainNum.getAndIncrement();
LOG.debug("Transaction chain {} created with listener {}, backing store chains {}", chainId, listener,
    backingChains);
return new DOMDataBrokerTransactionChainImpl(chainId, backingChains, coordinator, listener);

@Override
public CheckedFuture<Void, TransactionCommitFailedException> submit(final DOMDataWriteTransaction
    transaction, final Iterable<DOMStoreThreePhaseCommitCohort> cohorts) {
    LOG.debug("Transaction: {} submitted with cohorts {}.", transaction.getIdentifier(), cohorts);
    return coordinator.submit(transaction, cohorts);
}

package org.opendaylight.controller.md.sal.dom.broker.impl;
import com.google.common.base.Preconditions;
import com.google.common.base.Throwables;
import com.google.common.collect.Iterables;
import com.google.common.util.concurrent.CheckedFuture;
import com.google.common.util.concurrent.Futures;
import com.google.common.util.concurrent.ListenableFuture;
import com.google.common.util.concurrent.ListeningExecutorService;
import java.util.concurrent.Callable;
import java.util.concurrent.ExecutionException;
import java.util.concurrent.RejectedExecutionException;
import java.util.concurrent.atomic.AtomicReferenceFieldUpdater;
import org.opendaylight.controller.md.sal.common.api.data.TransactionCommitFailedException;
import org.opendaylight.controller.md.sal.dom.api.DOMDataWriteTransaction;
import org.opendaylight.controller.sal.core.spi.data.DOMStoreThreePhaseCommitCohort;
import org.opendaylight.yangtools.util.DurationStatisticsTracker;
import org.opendaylight.yangtools.util.concurrent.MappingCheckedFuture;
import org.slf4j.Logger;
import org.slf4j.LoggerFactory;

/*
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* This program and the accompanying materials are made available under the
* terms of the Eclipse Public License v1.0 which accompanies this distribution,
* and is available at http://www.eclipse.org/legal/epl-v10.html
*/
/**
 * Implementation of blocking three phase commit coordinator, which which
 * supports coordination on multiple [DOMStoreThreePhaseCommitCohort].
 *
 * This implementation does not support cancelation of commit,
 *
 * In order to advance to next phase of three phase commit all subtasks of
 * previous step must be finish.
 *
 * This executor does not have an upper bound on subtask timeout.
 *
 */
public class DOMDataCommitCoordinatorImpl implements DOMDataCommitExecutor {

    private static final Logger LOG = LoggerFactory.getLogger(DOMDataCommitCoordinatorImpl.class);
    private final DurationStatisticsTracker commitStatsTracker = DurationStatisticsTracker.createConcurrent();
    private final ListeningExecutorService executor;

    public DOMDataCommitCoordinatorImpl(final ListeningExecutorService executor) {
        this.executor = Preconditions.checkNotNull(executor, "executor must not be null.");
    }

    public DurationStatisticsTracker getCommitStatsTracker() {
        return commitStatsTracker;
    }

    @Override
    public CheckedFuture<Void,TransactionCommitFailedException> submit(final DOMDataWriteTransaction transaction, final Iterable<DOMStoreThreePhaseCommitCohort> cohorts) {
        Preconditions.checkNotNull(transaction, "Transaction must not be null.");
        Preconditions.checkNotNull(cohorts, "Cohorts must not be null.");
        LOG.debug("Tx: {} is submitted for execution.", transaction.getIdentifier());

        ListenableFuture<Void> commitFuture = null;
        try {
            commitFuture = executor.submit(new CommitCoordinationTask(transaction, cohorts, commitStatsTracker));
        } catch (Exception e) {
            throw new TransactionCommitFailedException(e);
        }

        return new CheckedFuture<Void, TransactionCommitFailedException>() {
            @Override
            public Void get() throws InterruptedException, ExecutionException {
                return commitFuture.get();
            }
        };
    }
}
} catch(RejectedExecutionException e) {
    LOG.error("The commit executor's queue is full - submit task was rejected. \n    executor, e);
    return Futures.immediateFailedCheckedFuture(
        new TransactionCommitFailedException(
            "Could not submit the commit task - the commit queue capacity has been exceeded.", e));
}

return MappingCheckedFuture.create(commitFuture,
    TransactionCommitFailedExceptionMapper.COMMIT_ERROR_MAPPER);
}

/**
 * Phase of 3PC commit
 *
 * Represents phase of 3PC Commit
 *
 */
private static enum CommitPhase {
    /**
     * Commit Coordination Task is submitted for executing
     *
     */
    SUBMITTED,
    /**
     * Commit Coordination Task is in can commit phase of 3PC
     *
     */
    CAN_COMMIT,
    /**
     * Commit Coordination Task is in pre-commit phase of 3PC
     *
     */
    PRE_COMMIT,
    /**
     * Commit Coordination Task is in commit phase of 3PC
     *
     */
    COMMIT,
    /**
     * Commit Coordination Task is in abort phase of 3PC
     *
     */
    ABORT
}
private static final class CommitCoordinationTask implements Callable<Void> {
    private static final AtomicReferenceFieldUpdater<CommitCoordinationTask, CommitPhase>
    PHASE_UPDATER = 
        AtomicReferenceFieldUpdater.newUpdater(CommitCoordinationTask.class, CommitPhase.class,
        "currentPhase");

    private final DOMDataWriteTransaction tx;
    private final Iterable<DOMStoreThreePhaseCommitCohort> cohorts;
    private final DurationStatisticsTracker commitStatTracker;
    private final int cohortSize;
    private volatile CommitPhase currentPhase = CommitPhase.SUBMITTED;

    public CommitCoordinationTask(final DOMDataWriteTransaction transaction,
        final Iterable<DOMStoreThreePhaseCommitCohort> cohorts,
        final DurationStatisticsTracker commitStatsTracker) {
        this.tx = Preconditions.checkNotNull(transaction, "transaction must not be null");
        this.cohorts = Preconditions.checkNotNull(cohorts, "cohorts must not be null");
        this.commitStatTracker = commitStatsTracker;
        this.cohortSize = Iterables.size(cohorts);
    }

    @Override
    public Void call() throws TransactionCommitFailedException {
        final long startTime = commitStatTracker != null ? System.nanoTime() : 0;

        try {
            canCommitBlocking();
            preCommitBlocking();
            commitBlocking();
            return null;
        } catch (TransactionCommitFailedException e) {
            final CommitPhase phase = currentPhase;
            LOG.warn("Tx: {} Error during phase {}, starting Abort", tx.getIdentifier(), phase, e);
            abortBlocking(e, phase);
            throw e;
        } finally {
            if (commitStatTracker != null) {
                commitStatTracker.addDuration(System.nanoTime() - startTime);
            }
        }
    }

    /**
     * Implementation of blocking three-phase commit-coordination tasks without
     * support of cancellation.
     */
* Invokes canCommit on underlying cohorts and blocks till
  * all results are returned.
  *
  * Valid state transition is from SUBMITTED to CAN_COMMIT,
  * if currentPhase is not SUBMITTED throws IllegalStateException.
  *
  * @throws TransactionCommitFailedException
  * If one of cohorts failed can Commit
  *
  */
private void canCommitBlocking() throws TransactionCommitFailedException {
    for (ListenableFuture<?> canCommit : canCommitAll()) {
      try {
        final Boolean result = (Boolean)canCommit.get();
        if (result == null || !result) {
          throw new TransactionCommitFailedException("Can Commit failed, no detailed cause available.");
        }
      } catch (InterruptedException | ExecutionException e) {
        throw TransactionCommitFailedExceptionMapper.CAN_COMMIT_ERROR_MAPPER.apply(e);
      }
    }
  }

  /**
   *
   * Invokes canCommit on underlying cohorts and returns composite future
   * which will contains {@link Boolean#TRUE} only and only if
   * all cohorts returned true.
   *
   * Valid state transition is from SUBMITTED to CAN_COMMIT,
   * if currentPhase is not SUBMITTED throws IllegalStateException.
   *
   * @return List of all cohorts futures from can commit phase.
   *
   */
private ListenableFuture<?>[] canCommitAll() {
  changeStateFrom(CommitPhase.SUBMITTED, CommitPhase.CAN_COMMIT);

  final ListenableFuture<?>[] ops = new ListenableFuture<?>[cohortSize];
  int i = 0;
  for (DOMStoreThreePhaseCommitCohort cohort : cohorts) {
    ops[i++] = cohort.canCommit();
  }
  return ops;
  
  /**
   *
private void preCommitBlocking() throws TransactionCommitFailedException {
  final ListenableFuture<?>[] preCommitFutures = preCommitAll();
  try {
    for (ListenableFuture<?> future : preCommitFutures) {
      future.get();
    }
  } catch (InterruptedException | ExecutionException e) {
    throw TransactionCommitFailedExceptionMapper.PRE_COMMIT_MAPPER.apply(e);
  }
}

private ListenableFuture<?>[] preCommitAll() {
  changeStateFrom(CommitPhase.CAN_COMMIT, CommitPhase.PRE_COMMIT);
  final ListenableFuture<?>[] ops = new ListenableFuture<?>[cohortSize];
  int i = 0;
  for (DOMStoreThreePhaseCommitCohort cohort : cohorts) {
    ops[i++] = cohort.preCommit();
  }
  return ops;
}

/**
 * Invokes preCommit on underlying cohorts and returns future which will complete once all preCommit on cohorts completed or failed.
 * Valid state transition is from CAN_COMMIT to PRE_COMMIT, if current state is not CAN_COMMIT
 * throws IllegalStateException.
 * @return List of all cohorts futures from can commit phase.
 */
private void commitBlocking() throws TransactionCommitFailedException {
    final ListenableFuture<?>[] commitFutures = commitAll();
    try {
        for (ListenableFuture<?> future : commitFutures) {
            future.get();
        }
    } catch (InterruptedException | ExecutionException e) {
        throw TransactionCommitFailedExceptionMapper.COMMIT_ERROR_MAPPER.apply(e);
    }
}

private ListenableFuture<<?>[] commitAll() {
    changeStateFrom(CommitPhase.PRE_COMMIT, CommitPhase.COMMIT);

    final ListenableFuture<<?>[] ops = new ListenableFuture<<?>[cohortSize];
    int i = 0;
    for (DOMStoreThreePhaseCommitCohort cohort : cohorts) {
        ops[i++] = cohort.commit();
    }
    return ops;
}

/**
 * Aborts transaction.
 */
* Invokes {@link DOMStoreThreePhaseCommitCohort#abort()} on all
* cohorts, blocks
* for all results. If any of the abort failed throws
* IllegalStateException,
* which will contains originalCause as suppressed Exception.
*
* If aborts we're successful throws supplied exception
*
* @param originalCause
* Exception which should be used to fail transaction for
* consumers of transaction
* future and listeners of transaction failure.
* @param phase phase in which the problem ensued
* @throws TransactionCommitFailedException
* on invocation of this method.
* originalCa
* @throws IllegalStateException
* if abort failed.
*
private void abortBlocking(final TransactionCommitFailedException originalCause, final CommitPhase phase)
throws TransactionCommitFailedException {
    LOG.warn("Tx: {} Error during phase {}, starting Abort", tx.getIdentifier(), phase, originalCause);
    Exception cause = originalCause;
    try {
        abortAsyncAll(phase).get();
    } catch (InterruptedException | ExecutionException e) {
        LOG.error("Tx: {} Error during Abort.", tx.getIdentifier(), e);
        cause = new IllegalStateException("Abort failed.", e);
        cause.addSuppressed(e);
    }
    Throwables.propagateIfPossible(cause, TransactionCommitFailedException.class);
}

/**
* Invokes abort on underlying cohorts and returns future which
* completes once all abort on cohorts are completed.
*
* @param phase phase in which the problem ensued
* @return Future which will complete once all cohorts completed
*        abort.
*/
private ListenableFuture<Void> abortAsyncAll(final CommitPhase phase) {
    changeStateFrom(phase, CommitPhase.ABORT);

    final ListenableFuture<?>[] ops = new ListenableFuture<?>[cohortSize];
    int i = 0;
    for (DOMStoreThreePhaseCommitCohort cohort : cohorts) {
        ops[i++] = cohort.abort();
    }
}
@SuppressWarnings({"unchecked", "rawtypes"})
ListenableFuture<Void> compositeResult = (ListenableFuture) Futures.allAsList(ops);
return compositeResult;

private void changeStateFrom(final CommitPhase currentExpected, final CommitPhase newState) {
    final boolean success = PHASE_UPDATER.compareAndSet(this, currentExpected, newState);
    Preconditions.checkState(success, "Invalid state transition: Tx: %s expected: %s current: %s target: %s",
                                                                         tx.getIdentifier(), currentExpected, currentPhase, newState);
    LOG.debug("Transaction {}: Phase {} Started", tx.getIdentifier(), newState);
}

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 * terms of the Eclipse Public License v1.0 which accompanies this distribution,
 * and is available at http://www.eclipse.org/legal/epl-v10.html
 */
package org.opendaylight.controller.md.sal.dom.broker.impl;
import com.google.common.base.Preconditions;
import com.google.common.util.concurrent.CheckedFuture;
import com.google.common.util.concurrent.FutureCallback;
import com.google.common.util.concurrent.Futures;
import java.util.Map;
import java.util.concurrent.atomic.AtomicIntegerFieldUpdater;
import java.util.concurrent.atomic.AtomicLong;
import java.util.concurrent.atomic.AtomicReferenceFieldUpdater;
import org.opendaylight.controller.md.sal.common.api.data.LogicalDatastoreType;
import org.opendaylight.controller.md.sal.common.api.data.TransactionChainListener;
import org.opendaylight.controller.md.sal.common.api.data.TransactionCommitFailedException;
import org.opendaylight.controller.md.sal.dom.api.DOMDataWriteTransaction;
import org.opendaylight.controller.md.sal.dom.api.DOMTransactionChain;
import org.opendaylight.controller.sal.core.spi.data.DOMStoreThreePhaseCommitCohort;
import org.opendaylight.controller.sal.core.spi.data.DOMStoreTransactionChain;
import org.slf4j.Logger;
import org.slf4j.LoggerFactory;

/**
 * NormalizedNode implementation of [link org.opendaylight.controller.md.sal.common.api.data.TransactionChain] which is backed
 * by several [link DOMStoreTransactionChain] differentiated by provided
 * [link org.opendaylight.controller.md.sal.common.api.data.LogicalDatastoreType] type.
 *
 */
final class DOMDataBrokerTransactionChainImpl extends 
AbstractDOMForwardedTransactionFactory<DOMStoreTransactionChain> 
implements DOMTransactionChain {
    private static enum State {
        RUNNING,
        CLOSING,
        CLOSED,
        FAILED,
    }

    private static final AtomicIntegerFieldUpdater<DOMDataBrokerTransactionChainImpl> COUNTER_UPDATER = 
        AtomicIntegerFieldUpdater.newUpdater(DOMDataBrokerTransactionChainImpl.class, "counter");
    private static final AtomicReferenceFieldUpdater<DOMDataBrokerTransactionChainImpl, State> STATE_UPDATER = 
        AtomicReferenceFieldUpdater.newUpdater(DOMDataBrokerTransactionChainImpl.class, State.class, 
        "state");
    private static final Logger LOG = LoggerFactory.getLogger(DOMDataBrokerTransactionChainImpl.class);
    private static final AtomicLong txNum = new AtomicLong();
    private final DOMDataCommitExecutor coordinator;
    private final TransactionChainListener listener;
    private final long chainId;
}
private volatile State state = State.RUNNING;
private volatile int counter = 0;

/**
 * @param chainId ID of transaction chain
 * @param chains Backing DOMStoreTransactionChain s.
 * @param coordinator Commit Coordinator which should be used to coordinate commits
 * of transaction
 * @param listener Listener, which listens on transaction chain events.
 * @throws NullPointerException If any of arguments is null.
 */

public DOMDataBrokerTransactionChainImpl(final long chainId,
final Map<LogicalDatastoreType, DOMStoreTransactionChain> chains,
final DOMDataCommitExecutor coordinator, final TransactionChainListener listener) {
super(chains);
this.chainId = chainId;
this.coordinator = Preconditions.checkNotNull(coordinator);
this.listener = Preconditions.checkNotNull(listener);
}

private void checkNotFailed() {
Preconditions.checkState(state != State.FAILED, "Transaction chain has failed");
}

@Override
protected Object newTransactionIdentifier() {
return "DOM-CHAIN-" + chainId + ":" + txNum.getAndIncrement();
}

@Override
public CheckedFuture<Void, TransactionCommitFailedException> submit(
final DOMDataWriteTransaction transaction, final Iterable<DOMStoreThreePhaseCommitCohort> cohorts)
{
checkNotFailed();
checkNotClosed();

final CheckedFuture<Void, TransactionCommitFailedException> ret = coordinator.submit(transaction, cohorts);

COUNTER_UPDATER.incrementAndGet(this);
Futures.addCallback(ret, new FutureCallback<Void>() {
    @Override
    public void onSuccess(final Void result) {
        transactionCompleted();
    }

    @Override
    public void onFailure(final Throwable t) {
        transactionFailed(transaction, t);
    }
});

return ret;

@Override
public void close() {
    final boolean success = STATE_UPDATER.compareAndSet(this, State.RUNNING, State.CLOSING);
    if (!success) {
        LOG.debug("Chain {} is no longer running", this);
        return;
    }

    super.close();
    for (DOMStoreTransactionChain subChain : getTxFactories().values()) {
        subChain.close();
    }

    if (counter == 0) {
        finishClose();
    }
}

private void finishClose() {
    state = State.CLOSED;
    listener.onTransactionChainSuccessful(this);
}

private void transactionCompleted() {
    if (COUNTER_UPDATER.decrementAndGet(this) == 0 && state == State.CLOSING) {
        finishClose();
    }
}

private void transactionFailed(final DOMDataWriteTransaction tx, final Throwable cause) {
    state = State.FAILED;
    LOG.debug("Transaction chain {} failed.", this, cause);
    listener.onTransactionChainFailed(this, tx, cause);
package org.opendaylight.controller.md.sal.dom.broker.impl;

import org.opendaylight.controller.md.sal.common.api.data.TransactionCommitFailedException;
import org.opendaylight.controller.md.sal.dom.api.DOMDataWriteTransaction;
import org.opendaylight.controller.sal.core.spi.data.DOMStoreThreePhaseCommitCohort;
import com.google.common.util.concurrent.CheckedFuture;

/**
 * Implementation prototype of commit method for
 * {link DOMForwardedWriteTransaction}.
 *
 */

public interface DOMDataCommitImplementation {

/**
 * User-supplied implementation of {link DOMDataWriteTransaction#submit()} for transaction.
 *
 * Callback invoked when {link DOMDataWriteTransaction#submit()} is invoked
 * on transaction created by this factory.
 *
 * @param transaction Transaction on which {link DOMDataWriteTransaction#commit()} was invoked.
 * @param cohorts Iteration of cohorts for subtransactions associated with committed transaction.
 *
 */

CheckedFuture<Void, TransactionCommitFailedException> submit(final DOMDataWriteTransaction transaction,
final Iterable<DOMStoreThreePhaseCommitCohort> cohorts);
}

/*
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 *
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 * terms of the Eclipse Public License v1.0 which accompanies this distribution,
 * and is available at http://www.eclipse.org/legal/epl-v10.html
 */
package org.opendaylight.controller.md.sal.dom.broker.impl;

import java.util.List;
import java.util.concurrent.Executor;
import java.util.concurrent.ExecutorService;
import java.util.concurrent.TimeUnit;
import java.util.concurrent.atomic.AtomicInteger;
import org.opendaylight.controller.md.sal.common.api.data.TransactionCommitFailedException;
import org.opendaylight.controller.md.sal.dom.api.DOMDataWriteTransaction;
import org.opendaylight.controller.sal.core.spi.data.DOMStoreThreePhaseCommitCohort;
import org.opendaylight.yangtools.util.DurationStatisticsTracker;
import org.opendaylight.yangtools.util.concurrent.MappingCheckedFuture;
import org.slf4j.Logger;
import org.slf4j.LoggerFactory;
import com.google.common.base.Preconditions;
import com.google.common.collect.Iterables;
import com.google.common.util.concurrent.AbstractFuture;
import com.google.common.util.concurrent.AbstractListeningExecutorService;
import com.google.common.util.concurrent.CheckedFuture;
import com.google.common.util.concurrent.FutureCallback;
import com.google.common.util.concurrent.Futures;
import com.google.common.util.concurrent.ListenableFuture;

/**
 * Implementation of DOMDataCommitExecutor that coordinates transaction commits concurrently. The 3
 * commit phases (canCommit, preCommit, and commit) are performed serially and non-blocking
 * (ie async) per transaction but multiple transaction commits can run concurrent.
 *
 * @author Thomas Pantelis
 */
public class DOMConcurrentDataCommitCoordinator implements DOMDataCommitExecutor {

    private static final String CAN_COMMIT = "CAN_COMMIT";
    private static final String PRE_COMMIT = "PRE_COMMIT";
    private static final String COMMIT = "COMMIT";

    private static final Logger LOG = LoggerFactory.getLogger(DOMConcurrentDataCommitCoordinator.class);

    private final DurationStatisticsTracker commitStatsTracker = DurationStatisticsTracker.createConcurrent();

    private final ExecutorService clientFutureCallbackExecutor;

    /**
     * This executor is used to execute Future listener callback Runnables async.
     */
    private final ExecutorService clientFutureCallbackExecutor;

    /**
     * This executor is re-used internally in calls to Futures#addCallback to avoid the overhead
     */
private final ExecutorService internalFutureCallbackExecutor = new SimpleSameThreadExecutor();

public DOMConcurrentDataCommitCoordinator(ExecutorService listenableFutureExecutor) {
  this.clientFutureCallbackExecutor = Preconditions.checkNotNull(listenableFutureExecutor);
}

public DurationStatisticsTracker getCommitStatsTracker() {
  return commitStatsTracker;
}

@Override
public CheckedFuture<Void, TransactionCommitFailedException> submit(DOMDataWriteTransaction transaction,
    Iterable<DOMStoreThreePhaseCommitCohort> cohorts) {

  Preconditions.checkNotNull(transaction, "Transaction must not be null.");
  Preconditions.checkNotNull(cohorts, "Cohorts must not be null.");
  LOG.debug("Tx: {} is submitted for execution.", transaction.getTransactionIdentifier());

  final int cohortSize = Iterables.size(cohorts);
  final AsyncNotifyingSettableFuture clientSubmitFuture =
      new AsyncNotifyingSettableFuture(clientFutureCallbackExecutor);

  doCanCommit(clientSubmitFuture, transaction, cohorts, cohortSize);

  return MappingCheckedFuture.create(clientSubmitFuture,
      TransactionCommitFailedExceptionMapper.COMMIT_ERROR_MAPPER);
}

private void doCanCommit(final AsyncNotifyingSettableFuture clientSubmitFuture,
    final DOMDataWriteTransaction transaction,
    final Iterable<DOMStoreThreePhaseCommitCohort> cohorts, final int cohortSize) {

  final long startTime = System.nanoTime();
  // Not using Futures.allAsList here to avoid its internal overhead.
  final AtomicInteger remaining = new AtomicInteger(cohortSize);
  FutureCallback<Boolean> futureCallback = new FutureCallback<>() {
    @Override
    public void onSuccess(Boolean result) {
      if (result == null || !result) {
        handleException(clientSubmitFuture, transaction, cohorts, cohortSize,
            CAN_COMMIT, new TransactionCommitFailedException("Can Commit failed, no detailed cause available."));
      } else {
        if (remaining.decrementAndGet() == 0) {
          // TODO: handle success
        }
      }
    }
    @Override
    public void onFailure(Throwable t) {
      handleException(clientSubmitFuture, transaction, cohorts, cohortSize,
          CAN_COMMIT, new TransactionCommitFailedException("Can Commit failed, no detailed cause available."));
// All cohorts completed successfully - we can move on to the preCommit phase
doPreCommit(startTime, clientSubmitFuture, transaction, cohorts, cohortSize);
}
}
}

@Override
public void onFailure(Throwable t) {
    handleException(clientSubmitFuture, transaction, cohorts, cohortSize, CAN_COMMIT, t);
}
};

for(DOMStoreThreePhaseCommitCohort cohort: cohorts) {
    ListenableFuture<Boolean> canCommitFuture = cohort.canCommit();
    Futures.addCallback(canCommitFuture, futureCallback, internalFutureCallbackExecutor);
}
}

private void doPreCommit(final long startTime, final AsyncNotifyingSettableFuture clientSubmitFuture,
 final DOMDataWriteTransaction transaction,
 final Iterable<DOMStoreThreePhaseCommitCohort> cohorts, final int cohortSize) {

    // Not using Futures.allAsList here to avoid its internal overhead.
    final AtomicInteger remaining = new AtomicInteger(cohortSize);
    FutureCallback<Void> futureCallback = new FutureCallback<Void>() {
        @Override
        public void onSuccess(Void notUsed) {
            if(remaining.decrementAndGet() == 0) {
                // All cohorts completed successfully - we can move on to the commit phase
                doCommit(startTime, clientSubmitFuture, transaction, cohorts, cohortSize);
            }
        }
        @Override
        public void onFailure(Throwable t) {
            handleException(clientSubmitFuture, transaction, cohorts, cohortSize, CAN_COMMIT, t);
        }
    }
    for(DOMStoreThreePhaseCommitCohort cohort: cohorts) {
        ListenableFuture<Void> preCommitFuture = cohort.preCommit();
        Futures.addCallback(preCommitFuture, futureCallback, internalFutureCallbackExecutor);
    }
}

private void doCommit(final long startTime, final AsyncNotifyingSettableFuture clientSubmitFuture,
 final DOMDataWriteTransaction transaction,
 final Iterable<DOMStoreThreePhaseCommitCohort> cohorts, final int cohortSize) {


// Not using Futures.allAsList here to avoid its internal overhead.
final AtomicInteger remaining = new AtomicInteger(cohortSize);
FutureCallback<Void> futureCallback = new FutureCallback<Void>() {
  @Override
  public void onSuccess(Void notUsed) {
    if(remaining.decrementAndGet() == 0) {
      // All cohorts completed successfully - we're done.
      commitStatsTracker.addDuration(System.nanoTime() - startTime);

      clientSubmitFuture.set();
    }
  }

  @Override
  public void onFailure(Throwable t) {
    handleException(clientSubmitFuture, transaction, cohorts, cohortSize, CAN_COMMIT, t);
  }
};

for(DOMStoreThreePhaseCommitCohort cohort: cohorts) {
  ListenableFuture<Void> commitFuture = cohort.commit();
  Futures.addCallback(commitFuture, futureCallback, internalFutureCallbackExecutor);
}

private void handleException(final AsyncNotifyingSettableFuture clientSubmitFuture,
final DOMDataWriteTransaction transaction,
final Iterable<DOMStoreThreePhaseCommitCohort> cohorts, int cohortSize,
final String phase, final Throwable t) {

  if(clientSubmitFuture.isDone()) {
    // We must have had failures from multiple cohorts.
    return;
  }

  LOG.warn("Tx: {} Error during phase {}, starting Abort", transaction.getIdentifier(), phase, t);
  Exception e;
  if(t instanceof Exception) {
    e = (Exception)t;
  } else {
    e = new RuntimeException("Unexpected error occurred", t);
  }

  final TransactionCommitFailedException clientException =
  TransactionCommitFailedExceptionMapper.CAN_COMMIT_ERROR_MAPPER.apply(e);

  // Transaction failed - tell all cohorts to abort.
@SuppressWarnings("unchecked")
ListenableFuture<Void>[] canCommitFutures = new ListenableFuture[cohortSize];
int i = 0;
for(DOMStoreThreePhaseCommitCohort cohort: cohorts) {
    canCommitFutures[i++] = cohort.abort();
}

ListenableFuture<List<Void>> combinedFuture = Futures.allAsList(canCommitFutures);
Futures.addCallback(combinedFuture, new FutureCallback<List<Void>>() {
    @Override
    public void onSuccess(List<Void> notUsed) {
        // Propagate the original exception to the client.
        clientSubmitFuture.setException(clientException);
    }

    @Override
    public void onFailure(Throwable t) {
        LOG.error("Tx: {} Error during Abort.", transaction.getIdentifier(), t);
        // Propagate the original exception as that is what caused the Tx to fail and is
        // what's interesting to the client.
        clientSubmitFuture.setException(clientException);
    }
}, internalFutureCallbackExecutor);

/**
 * A settable future that uses an {@link Executor} to execute listener callback Runnables,
 * registered via {@link #addListener}, asynchronously when this future completes. This is
 * done to guarantee listener executions are off-loaded onto another thread to avoid blocking
 * the thread that completed this future, as a common use case is to pass an executor that runs
 * tasks in the same thread as the caller (ie MoreExecutors#sameThreadExecutor)
 * to { @link #addListener }.
 *
 * FIXME: This class should probably be moved to yangtools common utils for re-usability and
 * unified with AsyncNotifyingListenableFutureTask.
 */
private static class AsyncNotifyingSettableFuture extends AbstractFuture<Void> {

    /**
     * ThreadLocal used to detect if the task completion thread is running the future listener Runnables.
     */
    private static final ThreadLocal<Boolean> ON_TASK_COMPLETION_THREAD_TL = new
    ThreadLocal<Boolean>();

    private final ExecutorService listenerExecutor;

    private static final ThreadLocal<Boolean> ON_TASK_COMPLETION_THREAD_TL = new
AsyncNotifyingSettableFuture(ExecutorService listenerExecutor) {
    this.listenerExecutor = listenerExecutor;
}

@Override
public void addListener(final Runnable listener, final Executor executor) {
    // Wrap the listener Runnable in a DelegatingRunnable. If the specified executor is one
    // that runs tasks in the same thread as the caller submitting the task
    // (e.g. [link com.google.common.util.concurrent.MoreExecutors#sameThreadExecutor]) and
    // the listener is executed from the #set methods, then the DelegatingRunnable will detect
    // this via the ThreadLocal and submit the listener Runnable to the listenerExecutor.
    //
    // On the other hand, if this task is already complete, the call to ExecutionList#add in
    // superclass will execute the listener Runnable immediately and, since the ThreadLocal
    // won't be set, the DelegatingRunnable will run the listener Runnable inline.
    super.addListener(new DelegatingRunnable(listener, listenerExecutor), executor);
}

boolean set() {
    ON_TASK_COMPLETION_THREAD_TL.set(Boolean.TRUE);
    try {
        return super.set(null);
    } finally {
        ON_TASK_COMPLETION_THREAD_TL.set(null);
    }
}

@Override
protected boolean setException(Throwable throwable) {
    ON_TASK_COMPLETION_THREAD_TL.set(Boolean.TRUE);
    try {
        return super.setException(throwable);
    } finally {
        ON_TASK_COMPLETION_THREAD_TL.set(null);
    }
}

private static final class DelegatingRunnable implements Runnable {
    private final Runnable delegate;
    private final Executor executor;

    DelegatingRunnable(final Runnable delegate, final Executor executor) {
        this.delegate = Preconditions.checkNotNull(delegate);
        this.executor = Preconditions.checkNotNull(executor);
    }

    @Override
    public void run() {
if (ON_TASK_COMPLETION_THREAD_TL.get() != null) {
    // We're running on the task completion thread so off-load to the executor.
    LOG.trace("Submitting ListenableFuture Runnable from thread {} to executor {}", Thread.currentThread().getName(), executor);
    executor.execute(delegate);
} else {
    // We're not running on the task completion thread so run the delegate inline.
    LOG.trace("Executing ListenableFuture Runnable on this thread: {}", Thread.currentThread().getName());
    delegate.run();
}

/**
 * A simple same-thread executor without the internal locking overhead that
 * MoreExecutors#sameThreadExecutor has. The #execute method is the only one of concern - we
 * don't shutdown the executor so the other methods irrelevant.
 */
private static class SimpleSameThreadExecutor extends AbstractListeningExecutorService {

    @Override
    public void execute(Runnable command) {
        command.run();
    }

    @Override
    public boolean awaitTermination(long arg0, TimeUnit arg1) throws InterruptedException {
        return true;
    }

    @Override
    public boolean isShutdown() {
        return false;
    }

    @Override
    public boolean isTerminated() {
        return false;
    }

    @Override
    public void shutdown() {
    }

    @Override
    public List<Runnable> shutdownNow() {
    }
}
return null;
}
}
#
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*/
package org.opendaylight.controller.md.sal.dom.broker.impl;

import org.opendaylight.controller.md.sal.common.api.data.TransactionCommitFailedException;
import org.opendaylight.yangtools.util.concurrent.ExceptionMapper;

/**
 * Utility exception mapper which translates Exception to (@link TransactionCommitFailedException).
 *
 * @see ExceptionMapper
 */
final class TransactionCommitFailedExceptionMapper extends ExceptionMapper<TransactionCommitFailedException> {
  static final TransactionCommitFailedExceptionMapper PRE_COMMIT_MAPPER = create("canCommit");

  static final TransactionCommitFailedExceptionMapper CAN_COMMIT_ERROR_MAPPER = create("preCommit");

  static final TransactionCommitFailedExceptionMapper COMMIT_ERROR_MAPPER = create("commit");

  private TransactionCommitFailedExceptionMapper(final String opName) {
    super( opName, TransactionCommitFailedException.class );
  }

  public static final TransactionCommitFailedExceptionMapper create(final String opName) {
    return new TransactionCommitFailedExceptionMapper(opName);
  }

  @Override
  protected TransactionCommitFailedException newWithCause( String message, Throwable cause ) {
    return new TransactionCommitFailedException( message, cause );
  }

}
package org.opendaylight.controller.config.yang.md.sal.dom.impl;

public class DomBrokerImplModuleFactory extends 
    org.opendaylight.controller.config.yang.md.sal.dom.impl.AbstractDomBrokerImplModuleFactory {
}

import com.google.common.collect.ClassToInstanceMap;
import com.google.common.collect.MutableClassToInstanceMap;
import org.opendaylight.controller.md.sal.dom.api.DOMDataBroker;
import org.opendaylight.controller.md.sal.dom.api.DOMMountPointService;
import org.opendaylight.controller.md.sal.dom.broker.impl.compat.BackwardsCompatibleDataBroker;
import org.opendaylight.controller.md.sal.dom.broker.impl.mount.DOMMountPointServiceImpl;
import org.opendaylight.controller.sal.core.api.BrokerService;
import org.opendaylight.controller.sal.core.api.RpcProvisionRegistry;
import org.opendaylight.controller.sal.core.api.data.DataBrokerService;
import org.opendaylight.controller.sal.core.api.data.DataProviderService;
import org.opendaylight.controller.sal.core.api.data.DataStore;
import org.opendaylight.controller.sal.core.api.model.SchemaService;
import org.opendaylight.controller.sal.core.api.mount.MountProvisionService;
import org.opendaylight.controller.sal.core.api.mount.MountService;
import org.opendaylight.controller.sal.dom.broker.BackwardsCompatibleMountPointManager;
import org.opendaylight.controller.sal.dom.api.BrokerImpl;
import org.opendaylight.controller.sal.dom.api.DataBrokerImpl;
import org.opendaylight.controller.sal.dom.impl.schema.GlobalBundleScanningSchemaServiceImpl;
import org.opendaylight.controller.sal.dom.broker.impl.SchemaAwareDataStoreAdapter;
import org.opendaylight.controller.sal.dom.broker.impl.SchemaAwareRpcBroker;
import org.opendaylight.controller.sal.dom.broker.impl.SchemaContextProviders;
import org.opendaylight.yangtools.yang.data.api.YangInstanceIdentifier;

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 * and is available at http://www.eclipse.org/legal/epl-v10.html
 */
package org.opendaylight.controller.config.yang.md.sal.dom.impl;

import com.google.common.collect.ClassToInstanceMap;
import com.google.common.collect.MutableClassToInstanceMap;
import org.opendaylight.controller.md.sal.dom.api.DOMDataBroker;
import org.opendaylight.controller.md.sal.dom.api.DOMMountPointService;
import org.opendaylight.controller.md.sal.dom.broker.impl.compat.BackwardsCompatibleDataBroker;
import org.opendaylight.controller.md.sal.dom.broker.impl.mount.DOMMountPointServiceImpl;
import org.opendaylight.controller.sal.core.api.BrokerService;
import org.opendaylight.controller.sal.core.api.RpcProvisionRegistry;
import org.opendaylight.controller.sal.core.api.data.DataBrokerService;
import org.opendaylight.controller.sal.core.api.data.DataProviderService;
import org.opendaylight.controller.sal.core.api.data.DataStore;
import org.opendaylight.controller.sal.core.api.model.SchemaService;
import org.opendaylight.controller.sal.core.api.mount.MountProvisionService;
import org.opendaylight.controller.sal.core.api.mount.MountService;
import org.opendaylight.controller.sal.dom.broker.BackwardsCompatibleMountPointManager;
import org.opendaylight.controller.sal.dom.api.BrokerImpl;
import org.opendaylight.controller.sal.dom.api.DataBrokerImpl;
import org.opendaylight.controller.sal.dom.impl.schema.GlobalBundleScanningSchemaServiceImpl;
import org.opendaylight.controller.sal.dom.broker.impl.SchemaAwareDataStoreAdapter;
import org.opendaylight.controller.sal.dom.broker.impl.SchemaAwareRpcBroker;
import org.opendaylight.controller.sal.dom.broker.impl.SchemaContextProviders;
import org.opendaylight.yangtools.yang.data.api.YangInstanceIdentifier;

/*
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 */

public final class DomBrokerImplModule extends org.opendaylight.controller.config.yang.md.sal.dom.impl.AbstractDomBrokerImplModule {

    public DomBrokerImplModule(final org.opendaylight.controller.config.api.ModuleIdentifier identifier, final org.opendaylight.controller.config.api.DependencyResolver dependencyResolver) {
        super(identifier, dependencyResolver);
    }

        super(identifier, dependencyResolver, oldModule, oldInstance);
    }

    @Override
    public void validate() {
        super.validate();
    }

    @Override
    public java.lang.AutoCloseable createInstance() {
        final DataStore legacyStore = getDataStoreDependency();
        final DOMDataBroker asyncBroker = getAsyncDataBrokerDependency();

        ClassToInstanceMap<BrokerService> services = MutableClassToInstanceMap.create();

        SchemaService schemaService = getSchemaServiceImpl();
        services.putInstance(SchemaService.class, schemaService);
        SchemaAwareRpcBroker router = new SchemaAwareRpcBroker("/", SchemaContextProviders
            .fromSchemaService(schemaService));
        services.putInstance(RpcProvisionRegistry.class, router);

        final DataProviderService legacyData;
        if(asyncBroker != null) {
            services.putInstance(DOMDataBroker.class, asyncBroker);
            legacyData = new BackwardsCompatibleDataBroker(asyncBroker, schemaService);
        } else {
            legacyData = createLegacyDataService(legacyStore, schemaService);
        }

        services.putInstance(DataProviderService.class, legacyData);
        services.putInstance(DataBrokerService.class, legacyData);

        final DOMMountPointService mountService = new DOMMountPointServiceImpl();
        services.putInstance(DOMMountPointService.class, mountService);

        // TODO remove backwards service, use only new DOMMountPointService
    }
}
final MountProvisionService backwardsMountService = new
BackwardsCompatibleMountPointManager(mountService);
services.putInstance(MountService.class, backwardsMountService);
services.putInstance(MountProvisionService.class, backwardsMountService);

return new BrokerImpl(router, services);
}

private DataProviderService createLegacyDataService(final DataStore legacyStore, final SchemaService
schemaService) {
    YangInstanceIdentifier rootPath = YangInstanceIdentifier.builder().toInstance();
    DataBrokerImpl dataService = new DataBrokerImpl();
    SchemaAwareDataStoreAdapter wrappedStore = new SchemaAwareDataStoreAdapter();
    wrappedStore.changeDelegate(legacyStore);
    wrappedStore.setValidationEnabled(false);

    schemaService.registerSchemaContextListener(wrappedStore);

    dataService.registerConfigurationReader(rootPath, wrappedStore);
    dataService.registerCommitHandler(rootPath, wrappedStore);
    dataService.registerOperationalReader(rootPath, wrappedStore);
    return dataService;
}

private SchemaService getSchemaServiceImpl() {
    final SchemaService schemaService;
    if(getRootSchemaService() != null) {
        schemaService = getRootSchemaServiceDependency();
    } else {
        schemaService = GlobalBundleScanningSchemaServiceImpl.getInstance();
    }
    return schemaService;
}

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 */

package org.opendaylight.controller.config.yang.md.sal.dom.impl;

import org.opendaylight.controller.config.api.DependencyResolver;
import org.osgi.framework.BundleContext;

import static com.google.common.base.Preconditions.checkArgument;

import org.opendaylight.controller.config.yang.md.sal.dom.impl.

import org.opendaylight.controller.config.api.DependencyResolver;
import org.osgi.framework.BundleContext;

import static com.google.common.base.Preconditions.checkArgument;
public class SchemaServiceImplSingletonModuleFactory extends
    org.opendaylight.controller.config.yang.md.sal.dom.impl.AbstractSchemaServiceImplSingletonModuleFactory
{

    public static final String SINGLETON_NAME = "yang-schema-service";

    @Override
    public SchemaServiceImplSingletonModule instantiateModule(String instanceName, DependencyResolver
dependencyResolver, SchemaServiceImplSingletonModule oldModule, AutoCloseable oldInstance, BundleContext
bundleContext) {
        checkArgument(SINGLETON_NAME.equals(instanceName),"Illegal instance name " + instanceName + ", only allowed name is " + SINGLETON_NAME);
    SchemaServiceImplSingletonModule module = super.instantiateModule(instanceName, dependencyResolver, oldModule, oldInstance, bundleContext);
        // FIXME bundle context should not be passed around
        module.setBundleContext(bundleContext);
        return module;
    }

    @Override
    public SchemaServiceImplSingletonModule instantiateModule(String instanceName, DependencyResolver
dependencyResolver, BundleContext bundleContext) {
        checkArgument(SINGLETON_NAME.equals(instanceName),"Illegal instance name " + instanceName + ", only allowed name is " + SINGLETON_NAME);
    SchemaServiceImplSingletonModule module = super.instantiateModule(instanceName, dependencyResolver, oldModule, oldInstance, bundleContext);
        // FIXME bundle context should not be passed around
        module.setBundleContext(bundleContext);
        return module;
    }
}

package org.opendaylight.controller.config.yang.md.sal.dom.impl;
import org.opendaylight.controller.sal.core.api.model.SchemaService;
import org.opendaylight.controller.sal.dom.broker.GlobalBundleScanningSchemaServiceImpl;
import org.opendaylight.yangtools.concepts.Delegator;
import org.opendaylight.yangtools.concepts.ListenerRegistration;
import org.opendaylight.yangtools.yang.model.api.Module;
import org.opendaylight.yangtools.yang.model.api.SchemaContext;
import org.opendaylight.yangtools.yang.model.api.SchemaContextListener;
import org.osgi.framework.BundleContext;

import org.opendaylight.controller.config.yang.md.sal.dom.impl;
import org.opendaylight.controller.sal.core.api.model.SchemaService;
import org.opendaylight.controller.sal.dom.broker.GlobalBundleScanningSchemaServiceImpl;
import org.opendaylight.yangtools.concepts.Delegator;
import org.opendaylight.yangtools.concepts.ListenerRegistration;
import org.opendaylight.yangtools.yang.model.api.Module;
import org.opendaylight.yangtools.yang.model.api.SchemaContext;
import org.opendaylight.yangtools.yang.model.api.SchemaContextListener;
import org.osgi.framework.BundleContext;
import org.slf4j.Logger;
import org.slf4j.LoggerFactory;

public final class SchemaServiceImplSingletonModule extends 
org.opendaylight.controller.config.yang.md.sal.dom.impl.AbstractSchemaServiceImplSingletonModule {

    private static final Logger LOG = LoggerFactory.getLogger(SchemaServiceImplSingletonModule.class);

    BundleContext bundleContext;

    public SchemaServiceImplSingletonModule(final org.opendaylight.controller.config.api.ModuleIdentifier 
identifier,
            final org.opendaylight.controller.config.api.DependencyResolver dependencyResolver) {
        super(identifier, dependencyResolver);
    }

    public SchemaServiceImplSingletonModule(final org.opendaylight.controller.config.api.ModuleIdentifier 
identifier,
            final org.opendaylight.controller.config.api.DependencyResolver dependencyResolver,
            final SchemaServiceImplSingletonModule oldModule, final java.lang.AutoCloseable oldInstance) {
        super(identifier, dependencyResolver, oldModule, oldInstance);
    }

    @Override
    public boolean canReuseInstance(final AbstractSchemaServiceImplSingletonModule oldModule) {
        return true;
    }

    public BundleContext getBundleContext() {
        return bundleContext;
    }

    public void setBundleContext(final BundleContext bundleContext) {
        this.bundleContext = bundleContext;
    }

    @Override
    public void validate() {
        super.validate();
    }

    @Override
    public java.lang.AutoCloseable createInstance() {
        return GlobalBundleScanningSchemaServiceImpl.getInstance();
    }

    public class GlobalSchemaServiceProxy implements AutoCloseable, SchemaService, Delegator<SchemaService> {
private SchemaService delegate;

public GlobalSchemaServiceProxy() {
    this.delegate = GlobalBundleScanningSchemaServiceImpl.getInstance();
}

@Override
public void close() throws Exception {
    if (delegate != null) {
        delegate = null;
    }
}

@Override
public void addModule(final Module arg0) {
    delegate.addModule(arg0);
}

@Override
public SchemaContext getGlobalContext() {
    return delegate.getGlobalContext();
}

@Override
public SchemaContext getSessionContext() {
    return delegate.getSessionContext();
}

@Override
public ListenerRegistration<SchemaContextListener> registerSchemaContextListener(final
    SchemaContextListener arg0) {
    return delegate.registerSchemaContextListener(arg0);
}

@Override
public void removeModule(final Module arg0) {
    delegate.removeModule(arg0);
}

@Override
public SchemaService getDelegate() {
    return delegate;
}

}
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 */

package org.opendaylight.controller.config.yang.md.sal.dom.statistics;

import org.opendaylight.controller.config.yang.md.sal.dom.impl.Data;
import org.opendaylight.controller.config.yang.md.sal.dom.impl.DomBrokerImplRuntimeMXBean;
import org.opendaylight.controller.config.yang.md.sal.dom.impl.Transactions;
import org.opendaylight.controller.sal.dom.broker.DataBrokerImpl;

public class DomBrokerRuntimeMXBeanImpl implements
    DomBrokerImplRuntimeMXBean {

    private final DataBrokerImpl dataService;
    private final Transactions transactions = new Transactions();
    private final Data data = new Data();

    public DomBrokerRuntimeMXBeanImpl(DataBrokerImpl dataService) {
        this.dataService = dataService;
    }

    public Transactions getTransactions() {
        transactions.setCreated(dataService.getCreatedTransactionsCount().get());
        transactions.setSubmitted(dataService.getSubmittedTransactionsCount().get());
        transactions.setSuccessful(dataService.getFinishedTransactionsCount().get());
        transactions.setFailed(dataService.getFailedTransactionsCount().get());
        return transactions;
    }

    @Override
    public Data getData() {
        transactions.setCreated(dataService.getCreatedTransactionsCount().get());
        transactions.setSubmitted(dataService.getSubmittedTransactionsCount().get());
        transactions.setSuccessful(dataService.getFinishedTransactionsCount().get());
        transactions.setFailed(dataService.getFailedTransactionsCount().get());
        data.setTransactions(transactions);
        return data;
    }
}

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package org.opendaylight.controller.sal.dom.broker.impl;
import java.util.Collection;
import org.opendaylight.controller.sal.core.api.notify.NotificationListener;
import org.opendaylight.controller.sal.dom.broker.spi.NotificationRouter;
import org.opendaylight.yangtools.concepts.AbstractListenerRegistration;
import org.opendaylight.yangtools.concepts.ListenerRegistration;
import org.opendaylight.yangtools.yang.common.QName;
import org.opendaylight.yangtools.yang.data.api.CompositeNode;
import org.slf4j.Logger;
import org.slf4j.LoggerFactory;
import com.google.common.collect.HashMultimap;
import com.google.common.collect.Multimap;
import com.google.common.collect.Multimaps;
import java.util.*;
import java.util.concurrent.ConcurrentHashMap;
import java.util.concurrent.ConcurrentMap;
import java.util.concurrent.ExecutionException;
import java.util.concurrent.Future;
import java.util.concurrent.TimeUnit;
import java.util.concurrent.TimeoutException;
import java.util.concurrent.atomic.AtomicInteger;
public class NotificationRouterImpl implements NotificationRouter {
    private static Logger log = LoggerFactory.getLogger(NotificationRouterImpl.class);
    private final Multimap<QName, MyListenerRegistration> listeners = Multimaps.synchronizedSetMultimap(HashMultimap.<QName, MyListenerRegistration>create());
    //    private Registration<NotificationListener> defaultListener;
    private void sendNotification(CompositeNode notification) {
        final QName type = notification.getNodeType();
        final Collection<MyListenerRegistration> toNotify = listeners.get(type);
        log.trace("Publishing notification "+ type);
        if ((toNotify == null) || toNotify.isEmpty()) {
            log.debug("No listener registered for handling of notification {}", type);
            return;
        }
        for (MyListenerRegistration listener : toNotify) {
            try {
                // FIXME: ensure that notification is immutable
                listener.getInstance().onNotification(notification);
            } catch (Exception e) {
                log.error("Uncaught exception in NotificationListener", e);
            }
        }
    }
    @Override
    public void publish(CompositeNode notification) {
    }
    }

@Overwrite
public class NotificationRouterImpl implements NotificationRouter {
    private static Logger log = LoggerFactory.getLogger(NotificationRouterImpl.class);
    private final Multimap<QName, MyListenerRegistration> listeners = Multimaps.synchronizedSetMultimap(HashMultimap.<QName, MyListenerRegistration>create());
    //    private Registration<NotificationListener> defaultListener;
    private void sendNotification(CompositeNode notification) {
        final QName type = notification.getNodeType();
        final Collection<MyListenerRegistration> toNotify = listeners.get(type);
        log.trace("Publishing notification "+ type);
        if ((toNotify == null) || toNotify.isEmpty()) {
            log.debug("No listener registered for handling of notification {}", type);
            return;
        }
        for (MyListenerRegistration listener : toNotify) {
            try {
                // FIXME: ensure that notification is immutable
                listener.getInstance().onNotification(notification);
            } catch (Exception e) {
                log.error("Uncaught exception in NotificationListener", e);
            }
        }
    }
    @Override
    public void publish(CompositeNode notification) {

    }
sendNotification(notification);
}

@Override
public ListenerRegistration<NotificationListener> addNotificationListener(QName notification, NotificationListener listener) {
    MyListenerRegistration ret = new MyListenerRegistration(notification, listener);
    listeners.put(notification, ret);
    return ret;
}

private class MyListenerRegistration extends AbstractListenerRegistration<NotificationListener> {

    final QName type;

    public MyListenerRegistration(QName type, NotificationListener instance) {
        super(instance);
        this.type = type;
    }

    @Override
    protected void removeRegistration() {
        listeners.remove(type, this);
    }
}

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 * and is available at http://www.eclipse.org/legal/epl-v10.html
 */

package org.opendaylight.controller.sal.dom.broker.impl;

import org.opendaylight.controller.sal.core.api.Broker.RoutedRpcRegistration;
import org.opendaylight.controller.sal.core.api.RpcImplementation;
import org.opendaylight.yangtools.concepts.AbstractObjectRegistration;
import org.opendaylight.yangtools.yang.common.QName;
import org.opendaylight.yangtools.yang.data.api.YangInstanceIdentifier;

class RoutedRpcRegImpl extends AbstractObjectRegistration<RpcImplementation> implements RoutedRpcRegistration {

    private final QName type;
    private final RoutedRpcSelector router;

    public RoutedRpcRegImpl(final QName rpcType, final RpcImplementation implementation, final
RoutedRpcSelector routedRpcSelector) {
    super(implementation);
    this.type = rpcType;
    router = routedRpcSelector;
}

@Override
public void registerPath(final QName context, final YangInstanceIdentifier path) {
    router.addPath(context, path, this);
}

@Override
public void unregisterPath(final QName context, final YangInstanceIdentifier path) {
    router.removePath(context, path, this);
}

@Override
protected void removeRegistration() {
}

@Override
public QName getType() {
    return type;
}

} /*
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 * and is available at http://www.eclipse.org/legal/epl-v10.html
 */
package org.opendaylight.controller.sal.dom.broker;

import java.util.concurrent.atomic.AtomicLong;
import org.opendaylight.controller.md.sal.common.api.data.DataReader;
import org.opendaylight.controller.md.sal.common.impl.service.AbstractDataBroker;
import org.opendaylight.controller.sal.common.DataStoreIdentifier;
import org.opendaylight.controller.sal.core.api.data.DataChangeListener;
import org.opendaylight.controller.sal.core.api.data.DataProviderService;
import org.opendaylight.controller.sal.core.api.data.DataValidator;
import org.opendaylight.controller.sal.dom.broker.impl.DataReaderRouter;
import org.opendaylight.yangtools.concepts.Registration;
import org.opendaylight.yangtools.yang.data.api.CompositeNode;
import org.opendaylight.yangtools.yang.data.api.YangInstanceIdentifier;

import org.opendaylight.controller.sal.controller.md.sal.common.api.data.DataReader;
import org.opendaylight.controller.sal.controller.md.sal.common.impl.service.AbstractDataBroker;
import org.opendaylight.controller.sal.controller.md.sal.common.DataStoreIdentifier;
import org.opendaylight.controller.sal.controller.md.sal.core.api.data.DataChangeListener;
import org.opendaylight.controller.sal.controller.md.sal.core.api.data.DataProviderService;
import org.opendaylight.controller.sal.controller.md.sal.core.api.data.DataValidator;
import org.opendaylight.controller.sal.controller.md.sal.dom.broker.impl.DataReaderRouter;
import org.opendaylight.controller.sal.controller.md.sal.dom.broker.impl.DataReaderRouter;
import org.opendaylight.yangtools.concepts.Registration;
import org.opendaylight.yangtools.yang.data.api.CompositeNode;
import org.opendaylight.yangtools.yang.data.api.YangInstanceIdentifier;
import com.google.common.util.concurrent.MoreExecutors;

public class DataBrokerImpl extends AbstractDataBroker<YangInstanceIdentifier, CompositeNode, DataChangeListener> implements DataProviderService, AutoCloseable {

    private AtomicLong nextTransaction = new AtomicLong();
    private final AtomicLong createdTransactionsCount = new AtomicLong();

    public DataBrokerImpl() {
        setDataReadRouter(new DataReaderRouter());
        setExecutor(MoreExecutors.sameThreadExecutor());
    }

    public AtomicLong getCreatedTransactionsCount() {
        return createdTransactionsCount;
    }

    @Override
    public DataTransactionImpl beginTransaction() {
        String transactionId = "DOM-" + nextTransaction.getAndIncrement();
        createdTransactionsCount.getAndIncrement();
        return new DataTransactionImpl(transactionId, this);
    }

    @Override
    public Registration registerConfigurationReader(YangInstanceIdentifier path, DataReader<YangInstanceIdentifier, CompositeNode> reader) {
        return getDataReadRouter().registerConfigurationReader(path, reader);
    }

    @Override
    public Registration registerOperationalReader(YangInstanceIdentifier path, DataReader<YangInstanceIdentifier, CompositeNode> reader) {
        return getDataReadRouter().registerOperationalReader(path, reader);
    }

    @Deprecated
    @Override
    public void addValidator(DataStoreIdentifier store, DataValidator validator) {
        throw new UnsupportedOperationException("Deprecated");
    }

    @Deprecated
    @Override
    public void removeValidator(DataStoreIdentifier store, DataValidator validator) {
    }

    @Deprecated
    @Override
    public void addValidator(DataStoreIdentifier store, DataValidator validator) {
        throw new UnsupportedOperationException("Deprecated");
    }

    @Deprecated
    @Override
    public void removeValidator(DataStoreIdentifier store, DataValidator validator) {
    }
}
throw new UnsupportedOperationException("Deprecated");
}

@Deprecated
@Override
public void addRefresher(DataStoreIdentifier store, DataRefresher refresher) {
    throw new UnsupportedOperationException("Deprecated");
}

@Deprecated
@Override
public void removeRefresher(DataStoreIdentifier store, DataRefresher refresher) {
    throw new UnsupportedOperationException("Deprecated");
}

@Override
public void close() throws Exception {
}
} /*
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 * and is available at http://www.eclipse.org/legal/epl-v10.html
 */
package org.opendaylight.controller.sal.dom.broker;

import java.util.List;
import java.util.Set;
import org.opendaylight.controller.md.sal.common.api.RegistrationListener;
import org.opendaylight.controller.md.sal.common.api.data.DataCommitHandler;
import org.opendaylight.controller.md.sal.common.api.data.DataCommitHandlerRegistration;
import org.opendaylight.controller.md.sal.common.api.data.DataReader;
import org.opendaylight.controller.md.sal.common.api.routing.RouteChangeListener;
import org.opendaylight.controller.sal.common.DataStoreIdentifier;
import org.opendaylight.controller.sal.core.api.Broker.RoutedRpcRegistration;
import org.opendaylight.controller.sal.core.api.Broker.RpcRegistration;
import org.opendaylight.controller.sal.core.api.RoutedRpcDefaultImplementation;
import org.opendaylight.controller.sal.core.api.RpcImplementation;
import org.opendaylight.controller.sal.core.api.RpcRegistrationListener;
import org.opendaylight.controller.sal.core.api.RpcRoutingContext;
import org.opendaylight.controller.sal.core.api.data.DataChangeListener;
import org.opendaylight.controller.sal.core.api.data.DataModificationTransaction;
import org.opendaylight.controller.sal.core.api.data.DataValidator;
import org.opendaylight.controller.sal.core.api.mount.MountProvisionInstance;
import org.opendaylight.controller.sal.core.api.notify.NotificationListener;
import org.opendaylight.controller.sal.dom.broker.impl.NotificationRouterImpl;
import org.opendaylight.controller.sal.dom.broker.impl.SchemaAwareRpcBroker;
import org.opendaylight.controller.sal.dom.broker.impl.SchemaContextProvider;
import org.opendaylight.controller.sal.dom.broker.spi.NotificationRouter;
import org.opendaylight.yangtools.concepts.ListenerRegistration;
import org.opendaylight.yangtools.concepts.Registration;
import org.opendaylight.yangtools.yang.common.QName;
import org.opendaylight.yangtools.yang.common.RpcResult;
import org.opendaylight.yangtools.yang.data.api.CompositeNode;
import org.opendaylight.yangtools.yang.data.api.YangInstanceIdentifier;
import org.opendaylight.yangtools.yang.data.api.YangInstanceIdentifier.PathArgument;
import org.opendaylight.yangtools.yang.model.api.SchemaContext;
import com.google.common.util.concurrent.ListenableFuture;

@Deprecated
public class MountPointImpl implements MountProvisionInstance, SchemaContextProvider {

    private final SchemaAwareRpcBroker rpcs;
    private final DataBrokerImpl dataReader;
    private final NotificationRouter notificationRouter;
    private final DataReader<YangInstanceIdentifier, CompositeNode> readWrapper;

    private final YangInstanceIdentifier mountPath;

    private SchemaContext schemaContext;

    public MountPointImpl(final YangInstanceIdentifier path) {
        this.mountPath = path;
        rpcs = new SchemaAwareRpcBroker(path.toString(),this);
        dataReader = new DataBrokerImpl();
        notificationRouter = new NotificationRouterImpl();
        readWrapper = new ReadWrapper();
    }

    public YangInstanceIdentifier getMountPath() {
        return mountPath;
    }

    public DataReader<YangInstanceIdentifier, CompositeNode> getReadWrapper() {
        return readWrapper;
    }

    @Override
    public void publish(final CompositeNode notification) {

    }
notificationRouter.publish(notification);
}

@Override
public ListenerRegistration<NotificationListener> addNotificationListener(final QName notification, final NotificationListener listener) {
    return notificationRouter.addNotificationListener(notification, listener);
}

@Override
public CompositeNode readConfigurationData(final YangInstanceIdentifier path) {
    return dataReader.readConfigurationData(path);
}

@Override
public CompositeNode readOperationalData(final YangInstanceIdentifier path) {
    return dataReader.readOperationalData(path);
}

@Override
public Registration registerOperationalReader(
    final YangInstanceIdentifier path, final DataReader<YangInstanceIdentifier, CompositeNode> reader) {
    return dataReader.registerOperationalReader(path, reader);
}

@Override
public Registration registerConfigurationReader(
    final YangInstanceIdentifier path, final DataReader<YangInstanceIdentifier, CompositeNode> reader) {
    return dataReader.registerConfigurationReader(path, reader);
}

@Override
public RoutedRpcRegistration addRoutedRpcImplementation(final QName rpcType, final RpcImplementation implementation) {
    return rpcs.addRoutedRpcImplementation(rpcType, implementation);
}

@Override
public void setRoutedRpcDefaultDelegate(final RoutedRpcDefaultImplementation defaultImplementation) {
    rpcs.setRoutedRpcDefaultDelegate(defaultImplementation);
}

@Override
public RpcRegistration addRpcImplementation(final QName rpcType, final RpcImplementation implementation) throws IllegalArgumentException {
    return rpcs.addRpcImplementation(rpcType, implementation);
}
@Override
public Set<QName> getSupportedRpcs() {
    return rpcs.getSupportedRpcs();
}

@Override
public ListenableFuture<RpcResult<CompositeNode>> invokeRpc(final QName rpc, final CompositeNode input) {
    return rpcs.invokeRpc(rpc, input);
}

@Override
public ListenerRegistration<RpcRegistrationListener> addRpcRegistrationListener(final RpcRegistrationListener listener) {
    return rpcs.addRpcRegistrationListener(listener);
}

@Override
public ListenableFuture<RpcResult<CompositeNode>> rpc(final QName type, final CompositeNode input) {
    return rpcs.invokeRpc(type, input);
}

@Override
public DataModificationTransaction beginTransaction() {
    return dataReader.beginTransaction();
}

@Override
public ListenerRegistration<DataChangeListener> registerDataChangeListener(final YangInstanceIdentifier path, final DataChangeListener listener) {
    return dataReader.registerDataChangeListener(path, listener);
}

@Override
public Registration registerCommitHandler(final YangInstanceIdentifier path, final DataCommitHandler<YangInstanceIdentifier, CompositeNode> commitHandler) {
    return dataReader.registerCommitHandler(path, commitHandler);
}

@Override
public void removeRefresher(final DataStoreIdentifier store, final DataRefresher refresher) {
    // NOOP
}

@Override
public void addRefresher(final DataStoreIdentifier store, final DataRefresher refresher) {
    // NOOP
@Override
public void addValidator(final DataStoreIdentifier store, final DataValidator validator) {
    // NOOP
}

@Override
public void removeValidator(final DataStoreIdentifier store, final DataValidator validator) {
    // NOOP
}

@override
public SchemaContext getSchemaContext() {
    return schemaContext;
}

@override
public void setSchemaContext(final SchemaContext schemaContext) {
    this.schemaContext = schemaContext;
}

class ReadWrapper implements DataReader<YangInstanceIdentifier, CompositeNode> {
    private YangInstanceIdentifier shortenPath(final YangInstanceIdentifier path) {
        YangInstanceIdentifier ret = null;
        if(mountPath.contains(path)) {
            List<PathArgument> newArgs = path.getPath().subList(mountPath.getPath().size(), path.getPath().size());
            ret = YangInstanceIdentifier.create(newArgs);
        }
        return ret;
    }

    @Override
    public CompositeNode readConfigurationData(final YangInstanceIdentifier path) {
        YangInstanceIdentifier newPath = shortenPath(path);
        if(newPath == null) {
            return null;
        }
        return MountPointImpl.this.readConfigurationData(newPath);
    }

    @Override
    public CompositeNode readOperationalData(final YangInstanceIdentifier path) {
        YangInstanceIdentifier newPath = shortenPath(path);
        if(newPath == null) {
            return null;
        }
        return MountPointImpl.this.readOperationalData(newPath);
    }
}
@Override
public <L extends RouteChangeListener<RpcRoutingContext, YangInstanceIdentifier>> ListenerRegistration<L> registerRouteChangeListener(final L listener) {
    return rpcs.registerRouteChangeListener(listener);
}

}
protected void onStatusChange(TransactionStatus status) {
    for (ListenerRegistration<DataTransactionListener> listenerRegistration : listeners) {
        listenerRegistration.getInstance().onStatusUpdated(this, status);
    }
}

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 */
package org.opendaylight.controller.sal.dom.broker;

import static com.google.common.base.Preconditions.checkState;
import java.util.concurrent.ConcurrentHashMap;
import java.util.concurrent.ConcurrentMap;
import org.opendaylight.controller.sal.core.api.data.DataProviderService;
import org.opendaylight.controller.sal.core.api.mount.MountProvisionInstance;
import org.opendaylight.controller.sal.core.api.mount.MountProvisionListener;
import org.opendaylight.controller.sal.core.api.mount.MountProvisionService;
import org.opendaylight.yangtools.concepts.ListenerRegistration;
import org.opendaylight.yangtools.util.ListenerRegistry;
import org.opendaylight.yangtools.yang.data.api.YangInstanceIdentifier;

@Deprecated
public class MountPointManagerImpl implements MountProvisionService {

    private final ListenerRegistry<MountProvisionListener> listeners =
        ListenerRegistry.create();

    private final ConcurrentHashMap<YangInstanceIdentifier, MountPointImpl> mounts =
        new ConcurrentHashMap<>();

    private DataProviderService dataBroker = null;

    @Override
    public MountProvisionInstance createMountPoint(final YangInstanceIdentifier path) {
        checkState(!mounts.containsKey(path), "Mount already created");
        final MountPointImpl mount = new MountPointImpl(path);
        registerMountPoint(mount);
        mounts.put(path, mount);
        notifyMountCreated(path);
        return mount;
    }

}
public void notifyMountCreated(final YangInstanceIdentifier identifier) {
    for (final ListenerRegistration<MountProvisionListener> listener : listeners.getListeners()) {
        listener.getInstance().onMountPointCreated(identifier);
    }
}

public Object registerMountPoint(final MountPointImpl impl) {
    // FIXME: Why is this commented out? Either we need it or we don't
    // dataBroker?.registerConfigurationReader(impl.mountPath,impl.readWrapper);
    // dataBroker?.registerOperationalReader(impl.mountPath,impl.readWrapper);
    return null;
}

@Override
public MountProvisionInstance createOrGetMountPoint(final YangInstanceIdentifier path) {
    final MountPointImpl mount = mounts.get(path);
    if (mount == null) {
        return createMountPoint(path);
    }
    return mount;
}

@Override
public MountProvisionInstance getMountPoint(final YangInstanceIdentifier path) {
    return mounts.get(path);
}

/**
 * @return the dataBroker
 */
public DataProviderService getDataBroker() {
    return dataBroker;
}

/**
 * @param dataBroker
 * the dataBroker to set
 */
public void setDataBroker(final DataProviderService dataBroker) {
    this.dataBroker = dataBroker;
}

@Override
public ListenerRegistration<MountProvisionListener> registerProvisionListener(final MountProvisionListener listener) {
return listeners.register(listener);
}
}

package org.opendaylight.controller.sal.dom.broker;

import java.util.Collections;
import java.util.HashSet;
import java.util.Set;
import java.util.concurrent.Future;
import org.opendaylight.controller.md.sal.common.api.routing.RouteChangeListener;
import org.opendaylight.controller.sal.core.api.Broker;
import org.opendaylight.controller.sal.core.api.BrokerService;
import org.opendaylight.controller.sal.core.api.Consumer;
import org.opendaylight.controller.sal.core.api.Provider;
import org.opendaylight.controller.sal.core.api.RoutedRpcDefaultImplementation;
import org.opendaylight.controller.sal.core.api.RpcImplementation;
import org.opendaylight.controller.sal.core.api.RpcProvisionRegistry;
import org.opendaylight.controller.sal.core.api.RpcRoutingContext;
import org.opendaylight.controller.sal.dom.broker.spi.RpcRouter;
import org.opendaylight.yangtools.concepts.ListenerRegistration;
import org.opendaylight.yangtools.yang.common.QName;
import org.opendaylight.yangtools.yang.data.api.CompositeNode;
import org.opendaylight.yangtools.yang.data.api.YangInstanceIdentifier;
import org.osgi.framework.BundleContext;
import org.slf4j.Logger;
import org.slf4j.LoggerFactory;
import com.google.common.base.Optional;
import com.google.common.base.Preconditions;
import com.google.common.collect.ClassToInstanceMap;
import com.google.common.collect.ImmutableClassToInstanceMap;
import com.google.common.util.concurrent.ListenableFuture;

public class BrokerImpl implements Broker, RpcProvisionRegistry, AutoCloseable {
    private final static Logger log = LoggerFactory.getLogger(BrokerImpl.class);

    // Broker Generic Context
    private final Set<ConsumerContextImpl> sessions = Collections

private final Set<ProviderContextImpl> providerSessions = Collections.synchronizedSet(new HashSet<ProviderContextImpl>());

private final ClassToInstanceMap<BrokerService> services;

public BrokerImpl(final RpcRouter router, final ClassToInstanceMap<BrokerService> services) {
    this.router = Preconditions.checkNotNull(router, "RPC Router must not be null");
    this.services = ImmutableClassToInstanceMap.copyOf(services);
}

@override
public ConsumerSession registerConsumer(final Consumer consumer, final BundleContext ctx) {
    return registerConsumer(consumer);
}

@override
public ProviderSession registerProvider(final Provider provider, final BundleContext ctx) {
    return registerProvider(provider);
}

protected Future<RpcResult<CompositeNode>> invokeRpcAsync(final QName rpc, final CompositeNode input) {
    return router.invokeRpc(rpc, input);
}

// Validation
private void checkPredicates(final Provider prov) {
    Preconditions.checkNotNull(prov, "Provider should not be null.");
    for (ProviderContextImpl session : providerSessions) {
        if (prov.equals(session.getProvider())) {
            throw new IllegalStateException("Provider already registered");
        }
    }
}

private void checkPredicates(final Consumer cons) {
    Preconditions.checkNotNull(cons, "Consumer should not be null.");
    for (ConsumerContextImpl session : sessions) {
        if (cons.equals(session.getConsumer())) {
            throw new IllegalStateException("Consumer already registered");
        }
    }
}
throw new IllegalStateException("Consumer already registered");
}
}

// Private Factory methods
private ConsumerContextImpl newSessionFor(final Consumer provider) {
    ConsumerContextImpl ret = new ConsumerContextImpl(provider, this);
    return ret;
}

private ProviderContextImpl newSessionFor(final Provider provider) {
    ProviderContextImpl ret = new ProviderContextImpl(provider, this);
    return ret;
}

protected void consumerSessionClosed(final ConsumerContextImpl consumerContextImpl) {
    sessions.remove(consumerContextImpl);
    providerSessions.remove(consumerContextImpl);
}

@Override
public void close() throws Exception {
    if (deactivator != null) {
        deactivator.close();
        deactivator = null;
    }
}

@Override
public RpcRegistration addRpcImplementation(final QName rpcType, final RpcImplementation implementation)
    throws IllegalArgumentException {
    return router.addRpcImplementation(rpcType, implementation);
}

@Override
public RoutedRpcRegistration addRoutedRpcImplementation(final QName rpcType, final RpcImplementation implementation) {
    return router.addRoutedRpcImplementation(rpcType, implementation);
}

@Override
public void setRoutedRpcDefaultDelegate(final RoutedRpcDefaultImplementation defaultImplementation) {
    router.setRoutedRpcDefaultDelegate(defaultImplementation);
}
@Override
public ListenerRegistration<RpcRegistrationListener> addRpcRegistrationListener(
    final RpcRegistrationListener listener) {
    return router.addRpcRegistrationListener(listener);
}

@Override
public <L extends RouteChangeListener<RpcRoutingContext, YangInstanceIdentifier>> ListenerRegistration<L>
    registerRouteChangeListener(
    final L listener) {
    return router.registerRouteChangeListener(listener);
}

@Override
public Set<QName> getSupportedRpcs() {
    return router.getSupportedRpcs();
}

@Override
public ListenableFuture<RpcResult<CompositeNode>> invokeRpc(
    final QName rpc, final CompositeNode input) {
    return router.invokeRpc(rpc, input);
}

/**
 * @return the deactivator
 */
public AutoCloseable getDeactivator() {
    return deactivator;
}

/**
 * @param deactivator
 * the deactivator to set
 */
public void setDeactivator(final AutoCloseable deactivator) {
    this.deactivator = deactivator;
}

/**
 * @return the router
 */
public RpcRouter getRouter() {
    return router;
}

/**
* @param router
* the router to set
*/

public void setRouter(final RpcRouter router) {
    this.router = router;
}

protected <T extends BrokerService> Optional<T> getGlobalService(final Class<T> service) {
    return Optional.fromNullable(services.getInstance(service));
}

@Override
public ConsumerSession registerConsumer(Consumer consumer) {
    checkPredicates(consumer);
    log.trace("Registering consumer ", consumer);
    final ConsumerContextImpl session = newSessionFor(consumer);
    consumer.onSessionInitiated(session);
    sessions.add(session);
    return session;
}

@Override
public ProviderSession registerProvider(Provider provider) {
    checkPredicates(provider);
    final ProviderContextImpl session = newSessionFor(provider);
    provider.onSessionInitiated(session);
    providerSessions.add(session);
    return session;
}

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* and is available at http://www.eclipse.org/legal/epl-v10.html
*/

package org.opendaylight.controller.sal.dom.broker;

import static com.google.common.base.Preconditions.checkState;
import com.google.common.annotations.VisibleForTesting;
import com.google.common.base.Optional;
import com.google.common.base.Preconditions;
import com.google.common.collect.ImmutableList;
import java.net.URL;
import java.util.ArrayList;
import java.util.Collections;
import java.util.Enumeration;
import java.util.List;
import org.opendaylight.controller.sal.core.api.model.SchemaService;
import org.opendaylight.controller.sal.dom.broker.impl.SchemaContextProvider;
import org.opendaylight.yangtools.concepts.ListenerRegistration;
import org.opendaylight.yangtools.concepts.Registration;
import org.opendaylight.yangtools.util.ListenerRegistry;
import org.opendaylight.yangtools.yang.model.api.Module;
import org.opendaylight.yangtools.yang.model.api.SchemaContext;
import org.opendaylight.yangtools.yang.model.api.SchemaContextListener;
import org.opendaylight.yangtools.yang.parser.repo.URLSchemaContextResolver;
import org.osgi.framework.Bundle;
import org.osgi.framework.BundleContext;
import org.osgi.framework.BundleEvent;
import org.osgi.framework.ServiceReference;
import org.osgi.util.tracker.BundleTracker;
import org.osgi.util.tracker.BundleTrackerCustomizer;
import org.osgi.util.tracker.ServiceTracker;
import org.osgi.util.tracker.ServiceTrackerCustomizer;
import org.slf4j.Logger;
import org.slf4j.LoggerFactory;

public class GlobalBundleScanningSchemaServiceImpl implements SchemaContextProvider, SchemaService,
ServiceTrackerCustomizer<SchemaContextListener, SchemaContextListener>, AutoCloseable {
    private static final Logger LOG = LoggerFactory.getLogger(GlobalBundleScanningSchemaServiceImpl.class);

    private final ListenerRegistry<SchemaContextListener> listeners = new ListenerRegistry<>();
    private final URLSchemaContextResolver contextResolver = URLSchemaContextResolver.create("global-
bundle");
    private final BundleScanner scanner = new BundleScanner();
    private final BundleContext context;
    private ServiceTracker<SchemaContextListener, SchemaContextListener> listenerTracker;
    private BundleTracker<Iterable<Registration>> bundleTracker;
    private boolean starting = true;
    private static GlobalBundleScanningSchemaServiceImpl instance;

    private GlobalBundleScanningSchemaServiceImpl(final BundleContext context) {
        this.context = Preconditions.checkNotNull(context);
    }

    public synchronized static GlobalBundleScanningSchemaServiceImpl createInstance(final BundleContext ctx) {
        Preconditions.checkState(instance == null);
        instance = new GlobalBundleScanningSchemaServiceImpl(ctx);
        return instance;
    }

    public void start(BundleContext context) throws InterruptedException {
        this.context = context;
        initializeServiceTracker();
    }

    private void initializeServiceTracker() {
        ServiceTracker<SchemaContextListener, SchemaContextListener> serviceTracker = new ServiceTracker<SchemaContextListener, SchemaContextListener>(context, SchemaContextListener.class, this);
        serviceTracker.open();
        listenerTracker = serviceTracker;
    }

    private void registerListener(Runnable listener) {
        if (listeners != null)
            listeners.add(listener);
    }

    private void deregisterListener(Runnable listener) {
        if (listeners != null)
            listeners.remove(listener);
    }

    private boolean isStarting() {
        return starting;
    }

    private void setStarting(boolean starting) {
        this.starting = starting;
    }

    @Override
    public void close() throws Exception {
        setStarting(false);
        deregisterListener(listenerTracker);
        listenerTracker.close();
        listenerTracker = null;
    }

    @Override
    public void addToContext(SchemaContext schemaContext) {
        contextResolver.add(schemaContext);
    }

    @Override
    public void removeFromContext(SchemaContext schemaContext) {
        contextResolver.remove(schemaContext);
    }

    @Override
    public SchemaContext getSchemaContext(String schemaURI) {
        return contextResolver.getSchemaContext(schemaURI);
    }

    @Override
    public SchemaContextProvider getSchemaContextProvider() {
        return contextResolver.getSchemaContextProvider();
    }

    @Override
    public void dispose() {
        contextResolver.dispose();
    }

    @Override
    public void dispose(SchemaContext schemaContext) {
        contextResolver.dispose(schemaContext);
    }

    public void scan() {
        scanner.scan();
    }

    public void scan(BundleContext context) {
        scanner.scan(context);
    }

    public static void main(String[] args) {
        final BundleContext context = BundleContextFactory.createBundleContext();
        new GlobalBundleScanningSchemaServiceImpl(context).start(context);
    }
}
instance = new GlobalBundleScanningSchemaServiceImpl(ctx);
instance.start();
return instance;
}

public synchronized static GlobalBundleScanningSchemaServiceImpl getInstance() {
    Preconditions.checkState(instance != null, "Global Instance was not instantiated");
    return instance;
}

@VisibleForTesting
public static synchronized void destroyInstance() {
    try {
        instance.close();
    } finally {
        instance = null;
    }
}

public BundleContext getContext() {
    return context;
}

public void start() {
    checkState(context != null);
    listenerTracker = new ServiceTracker<>(context, SchemaContextListener.class,
GlobalBundleScanningSchemaServiceImpl.this);
    bundleTracker = new BundleTracker<>(context, BundleEvent.RESOLVED | BundleEvent.UNRESOLVED,
scanner);
    bundleTracker.open();
    listenerTracker.open();
    starting = false;
    tryToUpdateSchemaContext();
}

@Override
public SchemaContext getSchemaContext() {
    return getGlobalContext();
}

@Override
public SchemaContext getGlobalContext() {
    return contextResolver.getSchemaContext().orNull();
}

@Override
public void addModule(final Module module) {
throw new UnsupportedOperationException();
}

@Override
public SchemaContext getSessionContext() {
    throw new UnsupportedOperationException();
}

@Override
public void removeModule(final Module module) {
    throw new UnsupportedOperationException();
}

@Override
public synchronized ListenerRegistration<SchemaContextListener> registerSchemaContextListener(final
    SchemaContextListener listener) {
    Optional<SchemaContext> potentialCtx = contextResolver.getSchemaContext();
    if(potentialCtx.isPresent()) {
        listener.onGlobalContextUpdated(potentialCtx.get());
    }
    return listeners.register(listener);
}

@Override
public void close() {
    if (bundleTracker != null) {
        bundleTracker.close();
    }
    if (listenerTracker != null) {
        listenerTracker.close();
    }

    for (ListenerRegistration<SchemaContextListener> l : listeners.getListeners()) {
        l.close();
    }
}

private synchronized void updateContext(final SchemaContext snapshot) {
    Object[] services = listenerTracker.getServices();
    for (ListenerRegistration<SchemaContextListener> listener : listeners) {
        try {
            listener.getInstance().onGlobalContextUpdated(snapshot);
        } catch (Exception e) {
            LOG.error("Exception occurred during invoking listener", e);
        }
    }
    if (services != null) {
        for (Object rawListener : services) {
            
        }
    }
}
final SchemaContextListener listener = (SchemaContextListener) rawListener;
try {
    listener.onGlobalContextUpdated(snapshot);
} catch (Exception e) {
    LOG.error("Exception occurred during invoking listener {}", listener, e);
}

private class BundleScanner implements BundleTrackerCustomizer<Iterable<Registration>> {
    @Override
    public Iterable<Registration> addingBundle(final Bundle bundle, final BundleEvent event) {
        if (bundle.getBundleId() == 0) {
            return Collections.emptyList();
        }

        final Enumeration<URL> enumeration = bundle.findEntries("META-INF/yang", ".*\yang\", false);
        if (enumeration == null) {
            return Collections.emptyList();
        }

        final List<Registration> urls = new ArrayList<>();
        while (enumeration.hasMoreElements()) {
            final URL u = enumeration.nextElement();
            try {
                urls.add(contextResolver.registerSource(u));
                LOG.debug("Registered {}", u);
            } catch (Exception e) {
                LOG.warn("Failed to register {}, ignoring it", e);
            }
        }

        if (!urls.isEmpty()) {
            LOG.debug("Loaded {} new URLs, rebuilding schema context", urls.size());
            tryToUpdateSchemaContext();
        }

        return ImmutableList.copyOf(urls);
    }

    @Override
    public void modifiedBundle(final Bundle bundle, final BundleEvent event, final Iterable<Registration> object) {
        LOG.debug("Modified bundle {} {} {}", bundle, event, object);
    }
}
/**
 * If removing YANG files makes yang store inconsistent, method
 * { @link #getYangStoreSnapshot()} will throw exception. There is no
 * rollback.
 */

@Override
public synchronized void removedBundle(final Bundle bundle, final BundleEvent event, final
Iterable<Registration> urls) {
    for (Registration url : urls) {
        try {
            url.close();
        } catch (Exception e) {
            LOG.warn("Failed do unregister URL {}, proceeding", url, e);
        }
    }
    tryToUpdateSchemaContext();
}

@Override
public synchronized SchemaContextListener addingService(final ServiceReference<SchemaContextListener>
reference) {
    SchemaContextListener listener = context.getService(reference);
    SchemaContext _ctxContext = getGlobalContext();
    if (getContext() != null && _ctxContext != null) {
        listener.onGlobalContextUpdated(_ctxContext);
    }
    return listener;
}

public synchronized void tryToUpdateSchemaContext() {
    if (starting) {
        return;
    }
    Optional<SchemaContext> schema = contextResolver.getSchemaContext();
    if(schema.isPresent()) {
        updateContext(schema.get());
    }
}

@Override
public void modifiedService(final ServiceReference<SchemaContextListener> reference, final
SchemaContextListener service) {
    // NOOP
}
@Override
public void removedService(final ServiceReference<SchemaContextListener> reference, final SchemaContextListener service) {
    context.ungetService(reference);
}
*/
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 *
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 * terms of the Eclipse Public License v1.0 which accompanies this distribution,
 * and is available at http://www.eclipse.org/legal/epl-v10.html
 */
package org.opendaylight.controller.sal.dom.broker;

import java.util.Collection;
import java.util.concurrent.Future;
import javax.annotation.concurrent.GuardedBy;
import org.opendaylight.controller.sal.core.api.Broker.ConsumerSession;
import org.opendaylight.controller.sal.core.api.BrokerService;
import org.opendaylight.controller.sal.core.api.Consumer;
import org.opendaylight.controller.sal.dom.broker.osgi.AbstractBrokerServiceProxy;
import org.opendaylight.controller.sal.dom.broker.osgi.ProxyFactory;
import org.opendaylight.yangtools.yang.common.QName;
import org.opendaylight.yangtools.yang.common.RpcResult;
import org.opendaylight.yangtools.yang.data.api.CompositeNode;
import com.google.common.base.Optional;
import com.google.common.base.Preconditions;
import com.google.common.collect.ClassToInstanceMap;
import com.google.common.collect.MutableClassToInstanceMap;

class ConsumerContextImpl implements ConsumerSession {

    private final ClassToInstanceMap<BrokerService> instantiatedServices = MutableClassToInstanceMap
        .create();
    private final Consumer consumer;

    private BrokerImpl broker = null;
    @GuardedBy("this")
    private boolean closed = false;

    public ConsumerContextImpl(final Consumer provider, final BrokerImpl brokerImpl) {
        broker = brokerImpl;
        consumer = provider;
    }
}
@Override
public Future<RpcResult<CompositeNode>> rpc(final QName rpc,
       final CompositeNode input) {
    checkNotClosed();
    return broker.invokeRpcAsync(rpc, input);
}

@Override
public <T extends BrokerService> T getService(final Class<T> service) {
    checkNotClosed();
    final T localProxy = instantiatedServices.getInstance(service);
    if (localProxy != null) {
        return localProxy;
    }
    final Optional<T> serviceImpl = broker.getGlobalService(service);
    if(serviceImpl.isPresent()) {
        final T ret = ProxyFactory.createProxy(null,serviceImpl.get());
        instantiatedServices.putInstance(service, ret);
        return ret;
    } else {
        return null;
    }
}

@Override
public void close() {
    synchronized (this) {
        if (closed) {
            return;
        }
        this.closed = true;
    }
    Collection<BrokerService> toStop = instantiatedServices.values();
    for (BrokerService brokerService : toStop) {
        if (brokerService instanceof AbstractBrokerServiceProxy<?>) {
            ((AbstractBrokerServiceProxy<?>) brokerService).close();
        }
    }
    broker.consumerSessionClosed(this);
    broker = null;
}

@Override
public synchronized boolean isClosed() {
    return closed;
}
/**
 * @return the _consumer
 */
public Consumer getConsumer() {
    return consumer;
}

protected final void checkNotClosed() {
    Preconditions.checkState(!closed, "Session is closed.");
}

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 * terms of the Eclipse Public License v1.0 which accompanies this distribution,
 * and is available at http://www.eclipse.org/legal/epl-v10.html
 */
package org.opendaylight.controller.sal.dom.broker;

import java.util.HashSet;
import java.util.Set;
import org.opendaylight.controller.sal.core.api.Broker.ProviderSession;
import org.opendaylight.controller.sal.core.api.Broker.RoutedRpcRegistration;
import org.opendaylight.controller.sal.core.api.Broker.RpcRegistration;
import org.opendaylight.controller.sal.core.api.Provider;
import org.opendaylight.controller.sal.core.api.RpcImplementation;
import org.opendaylight.yangtools.concepts.ListenerRegistration;
import org.opendaylight.yangtools.yang.common.QName;

class ProviderContextImpl extends ConsumerContextImpl implements ProviderSession {
    private final Set<RpcRegistrationWrapper> registrations = new HashSet<>();
    private final Provider provider;

    public ProviderContextImpl(final Provider provider, final BrokerImpl broker) {
        super(null, broker);
        this.provider = provider;
    }
}
public RpcRegistrationWrapper addRpcImplementation(final QName rpcType, final RpcImplementation implementation) throws IllegalArgumentException {
    final RpcRegistration origReg = getBrokerChecked().getRouter().addRpcImplementation(rpcType, implementation);
    final RpcRegistrationWrapper newReg = new RpcRegistrationWrapper(origReg);
    registrations.add(newReg);
    return newReg;
}

protected boolean removeRpcImplementation(final RpcRegistrationWrapper implToRemove) {
    return registrations.remove(implToRemove);
}

@Override
public void close() {
    for (final RpcRegistrationWrapper reg : registrations) {
        reg.close();
    }
}

@Override
public RoutedRpcRegistration addMountedRpcImplementation(final QName rpcType, final RpcImplementation implementation) {
    throw new UnsupportedOperationException("TODO: auto-generated method stub");
}

@Override
public RoutedRpcRegistration addRoutedRpcImplementation(final QName rpcType, final RpcImplementation implementation) {
    return getBrokerChecked().getRouter().addRoutedRpcImplementation(rpcType, implementation);
}

@Override
public Set<QName> getSupportedRpcs() {
    return getBrokerChecked().getRouter().getSupportedRpcs();
}

@Override
public ListenerRegistration<RpcRegistrationListener> addRpcRegistrationListener(final RpcRegistrationListener listener) {
    return getBrokerChecked().getRouter().addRpcRegistrationListener(listener);
}
/**
 * @return the provider
 */
public Provider getProvider() {
    return provider;
}

/**
 * @param provider
 *            the provider to set
 */

7.159 sal-clustering-commons 1.1.1-Helium-SR1
7.159.1 Available under license :

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 */
package org.opendaylight.controller.cluster.datastore.node.utils.serialization;

import java.util.List;

/**
 * Implementation of the QNameDeSerializationContext interface.
 * @author Thomas Pantelis
 */
public class QNameDeSerializationContextImpl implements QNameDeSerializationContext {

    private final List<String> codeList;

    public QNameDeSerializationContextImpl(List<String> codeList) {
        this.codeList = codeList;
    }

    @Override
    public String getNamespace(int namespace) {
        return codeList.get(namespace);
    }

    @Override
    public QNameDeSerializationContextImpl(List<String> codeList) {
        this.codeList = codeList;
    }

    public String getNamespace(int namespace) {
        return codeList.get(namespace);
    }
@Override
public String getRevision(int revision) {
    return codeList.get(revision);
}

@Override
public String getLocalName(int localName) {
    return codeList.get(localName);
}
*/

package org.opendaylight.controller.cluster.datastore.node.utils.serialization;

import java.net.URI;
import java.util.ArrayList;
import java.util.Date;
import java.util.HashMap;
import java.util.List;
import java.util.Map;
import org.opendaylight.yangtools.yang.common.SimpleDateFormatUtil;

/**
 * Implementation of the QNameSerializationContext interface.
 *
 * @author Thomas Pantelis
 */
public class QNameSerializationContextImpl implements QNameSerializationContext {

    private final Map<Object, Integer> codeMap = new HashMap<>();
    private final List<String> codes = new ArrayList<>();

    public List<String> getCodes() {
        return codes;
    }

    @Override public int addNamespace(URI namespace) {
        int namespaceInt = getCode(namespace);
        if(namespaceInt == -1) {
            namespaceInt = addCode(namespace, namespace.toString());
        }

        return namespaceInt;
    }
}
return namespaceInt;
}

@Override public int addRevision(Date revision) {
    if(revision == null){
        return -1;
    }

    int revisionInt = getCode(revision);
    if(revisionInt == -1) {
        String formattedRevision =
            SimpleDateFormatUtil.getRevisionFormat().format(revision);
        revisionInt = addCode(revision, formattedRevision);
    }
    return revisionInt;
}

@Override public int addLocalName(String localName) {
    int localNameInt = getCode(localName);
    if(localNameInt == -1) {
        localNameInt = addCode(localName, localName);
    }
    return localNameInt;
}

private int addCode(Object code, String codeStr){
    int count = codes.size();
    codes.add(codeStr);
    codeMap.put(code, Integer.valueOf(count));
    return count;
}

private int getCode(Object code){
    Integer value = codeMap.get(code);
    return value == null ? -1 : value.intValue();
}

7.160 sal-common-api 1.1.1-Helium-SR1
7.160.1 Available under license :
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 * terms of the Eclipse Public License v1.0 which accompanies this distribution,
package org.opendaylight.controller.md.sal.common.api.data;

import org.opendaylight.yangtools.concepts.Path;
import org.opendaylight.yangtools.concepts.Registration;

/**
 * @deprecated THis was intended as Registration object, normal use of
 * @link org.opendaylight.yangtools.concepts.ObjectRegistration
 * is sufficient, since { @link #getPath() } was implementation leak.
 * @param <P>
 * @param <D>
 */
@Deprecated
public interface DataCommitHandlerRegistration<P extends Path<P>, D> extends Registration {
    P getPath();
}
/**
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 * and is available at http://www.eclipse.org/legal/epl-v10.html
 */
package org.opendaylight.controller.md.sal.common.api.data;

import org.opendaylight.yangtools.concepts.ObjectRegistration;
import org.opendaylight.yangtools.concepts.Path;

/**
 * Three Phase Commit Coordinator with support of user-supplied commit cohorts
 * which participates in three-phase commit protocols
 * @param <P>
 * Type of path (subtree identifier), which represents location in
 * tree
 * @param <D>
 * Type of data (payload), which represents data payload
 */
public interface AsyncConfigurationCommitCoordinator<P extends Path<P>, D> {

    /**
     * Register configuration commit handler for particular subtree
     */
}
* Configuration commit handler is invoked for all write transactions
* which modifies <code>subtree</code>
* 
* @param subtree Subtree which configuration commit handler is interested it
* @param commitHandler Instance of user-provided commit handler
* @return Registration object representing this registration. Invoking {@link ObjectRegistration#close()}
* will unregister configuration commit handler.
*/

<C extends AsyncConfigurationCommitCohort<P, D>> ObjectRegistration<C>
registerConfigurationCommitHandler(
    P subtree, C commitHandler);
}
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* and is available at http://www.eclipse.org/legal/epl-v10.html
*/
package org.opendaylight.controller.md.sal.common.api.data;

import org.opendaylight.yangtools.concepts.Path;
import com.google.common.util.concurrent.ListenableFuture;

/**
* Three phase Commit Cohort for subtree, which is
* uniquely associated with user submitted transcation.
* 
* @param <P>
* Type of path (subtree identifier), which represents location in
* tree
* @param <D>
* Type of data (payload), which represents data payload
*/
public interface AsyncConfigurationCommitCohort<P extends Path<P>, D> { 

/**
* Initiates a pre-commit of associated request
* 
* Implementation MUST NOT do any blocking calls during this callback, all
* pre-commit preparation SHOULD happen asynchronously and MUST result in
* completing returned future object.
* 
* @param rebasedTransaction
* Read-only view of transaction as if happened on top of actual
ListenableFuture<Void> preCommit(AsyncReadTransaction<P, D> rebasedTransaction);

/**
 * Initiates a commit phase of associated request
 *
 * Implementation MUST NOT do any blocking calls during this callback, all
 * commit finalization SHOULD happen asynchronously and MUST result in
 * completing returned future object.
 *
 * @return Future which is completed once commit phase for associated
 *         request is finished.
 */
ListenableFuture<Void> commit();

/**
 * Initiates abort phase of associated request
 *
 * Implementation MUST NOT do any blocking calls during this callback, all
 * commit finalization SHOULD happen asynchronously and MUST result in
 * completing returned future object.
 *
 * @return Future which is completed once commit phase for associated
 *         request is finished.
 */
ListenableFuture<Void> abort();

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 */
package org.opendaylight.controller.md.sal.common.api.data;

import org.opendaylight.yangtools.concepts.Path;
import org.opendaylight.yangtools.yang.common.RpcResult;

/**
 * Two phase commit handler (cohort) of the two-phase commit protocol of data.
 */
<
* The provider should expose the implementation of DataCommitHandler if its functionality depends on any subset of data stored in data repositories, in order to participate in \{@link DataBrokerService#commit(DataStoreIdentifier)\} operation.
*
* <p>
* Operations of two-phase commit handlers should not change data in data store, this is responsibility of the coordinator (broker or some component of the broker).
*
* Commit handlers are responsible for changing the internal state of the provider to reflect the committed changes in data.
*
* <h3>Two-phase commit</h3>
*
* <h4>Commit Request Phase</h4>
*
* <ol>
* <li> <code>Consumer</code> edits data by invocation of
* <code>DataBrokerService.editCandidateData(DataStoreIdentifier, DataRoot)</code>
* <li> <code>Consumer</code> starts a commit by invoking
* <code>DataBrokerService.commit(DataStoreIdentifier)</code>
* <li> <code>Broker</code> retrieves a list of all registered
* <code>DataCommitHandlers</code>
* <li>For each <code>DataCommitHandler</code>
* <ol>
* <li><code>Broker</code> invokes a <code>DataCommitHandler.requestCommit(DataStoreIdentifier)</code> operation.
* <li><code>DataCommitHandler</code> returns a <code>RpcResult</code> with <code>CommitTransaction</code>
* <li> If the result was successful, broker adds <code>CommitTransaction</code> to the list of opened transactions. If not, brokers stops a commit request phase and starts a rollback phase.
* </ol>
* <li><code>Broker</code> starts a commit finish phase
* </ol>
*
* <h4>Commit Finish Phase</h4>
*
* <ol>
* <li>For each <code>CommitTransaction</code> from Commit Request phase
* <ol>
* <li><code>Broker</code> broker invokes a <code>CommitTransaction.finish()</code>
* <li>The provider finishes a commit (applies the change) and returns an <code>RpcResult</code>.
* </ol>
* </ol>
* If all returned results means successful, the brokers end two-phase commit by returning a success commit result to the Consumer.
* If error occurred, the broker starts a commit rollback phase.

### Commit Rollback Phase

For each `DataCommitTransaction` from Commit Request phase

broker invokes a `finish()`

The provider rollbacks a commit and returns an `RpcResult` of rollback. Broker returns a error result to the consumer.

```java
@Deprecated
public interface DataCommitHandler<P extends Path<P>, D> {
    DataCommitTransaction<P, D> requestCommit(DataModification<P,D> modification);

    public interface DataCommitTransaction<P extends Path<P>, D> {
        DataModification<P,D> getModification();

        /**
         * Finishes a commit.
         *
         * This callback is invoked by commit coordinator to finish commit action.
         * The implementation is required to finish transaction or return unsuccessful rpc result if something went wrong.
         * The provider (commit handler) should apply all changes to its state which are a result of data change-
         *
         * @return
         */
        RpcResult<Void> finish() throws IllegalStateException;

        /**
         * Rollbacks a commit.
         */
    }
}
```
This callback is invoked by commit coordinator to finish commit action.

The provider (commit handler) should rollback all changes to its state which were a result of previous request commit.

@return
@throws IllegalStateException
    If the method is invoked after { @link #finish() }
*/
RpcResult<Void> rollback() throws IllegalStateException;
}

package org.opendaylight.controller.md.sal.common.api.data;

import org.opendaylight.yangtools.yang.common.OperationFailedException;
import org.opendaylight.yangtools.yang.common.RpcError;

/**
 * Failed commit of asynchronous transaction
 *
 * This exception is raised and returned when transaction commit failed.
 *
 */
public class TransactionCommitFailedException extends OperationFailedException {

    private static final long serialVersionUID = 1L;

    public TransactionCommitFailedException(final String message, final RpcError... errors) {
        this(message, null, errors);
    }

    public TransactionCommitFailedException(final String message, final Throwable cause, final RpcError... errors) {
        super(message, cause, errors);
    }
}
import org.opendaylight.yangtools.concepts.Path;

import com.google.common.util.concurrent.CheckedFuture;

public interface AsyncConfigurationCommitHandler<P extends Path<P>, D> {

  /**
   * Requests a can commit phase
   * 
   * Implementations SHOULD NOT do any blocking operation during
   * processing this callback.
   * 
   * Implementation Notes
   * 
   * Implementation are REQUIRED to use \texttt{request} object for any data related access
   * Implementation SHOULD NOT use any other state stored outside configuration subtree for validation
   * Validation should happen asynchronously, outside callback call by updating returned \texttt{CheckedFuture}
   * 
   * If validation (CAN_COMMIT) phase:
   * 
   * is successful - invocation of \texttt{CheckedFuture#checkedGet()} on returned future MUST
   * return \texttt{AsyncConfigurationCommitCohort} associated with request.
   * is unsuccessful - invocation of \texttt{CheckedFuture#checkedGet()} must throw instance of
CheckedFuture<AsyncConfigurationCommitCohort<P, D>, DataValidationFailedException> canCommit(ConfigurationCommitRequest<P, D> request);

/**
 * Commit Request as was submitted by client code
 *
 * Commit Request contains list view of created / updated / removed
 * path and read-only view of proposed client transaction,
 * which may be used to retrieve modified or referenced data.
 *
 * @param <P>
 *     Type of path (subtree identifier), which represents location
 *     in tree
 * @param <D>
 *     Type of data (payload), which represents data payload
 */
static interface ConfigurationCommitRequest<P extends Path<P>, D> {

/**
 * Read-only transaction which provides access only to configuration
 * data tree as if submitted transaction successfully happened and
 * no other concurrent modifications happened between allocation
 * of client transactions and write of client transactions.
 *
 * Implementations of Commit Handlers are REQUIRED to use this
 * read-only view to access any data from configuration data tree,
 * in order to capture them as preconditions for this transaction.
 *
 * @return Read-only transaction which provides access only to configuration
 * data tree as if submitted transaction successfully happened

AsyncReadTransaction<P, D> getReadOnlyView();

/**
 * Returns iteration of paths, to data which was introduced by this transaction.
 *
 * @return Iteration of paths, which was introduced by this transaction.
 */
Iterable<P> getCreatedPaths();

/**
 * Returns iteration of paths, to data which was updated by this transaction.
 *
 * @return Iteration of paths, which was updated by this transaction.
 */
Iterable<P> getUpdatedPaths();

/**
 * Returns iteration of paths, to data which was removed by this transaction.
 *
 * @return Iteration of paths, which was removed by this transaction.
 */
Iterable<P> getRemovedPaths();

package org.opendaylight.controller.md.sal.common.api.data;

import com.google.common.base.Supplier;
import org.opendaylight.yangtools.yang.common.RpcError;
import org.opendaylight.yangtools.yang.common.RpcError.ErrorType;
import org.opendaylight.yangtools.yang.common.RpcResultBuilder;

/**
 * A type of TransactionCommitFailedException that indicates a situation that would result in a
 * threading deadlock. This can occur if a caller that submits a write transaction tries to perform
 * a blocking call via one of the <code>get</code> methods on the returned ListenableFuture. Callers
 * should process the commit result asynchronously (via Futures#addCallback) to ensure deadlock
public class TransactionCommitDeadlockException extends TransactionCommitFailedException {
    private static final long serialVersionUID = 1L;
    private static final String DEADLOCK_MESSAGE =
            "An attempt to block on a ListenableFuture via a get method from a write " +
            "transaction submit was detected that would result in deadlock. The commit " +
            "result must be obtained asynchronously, e.g. via Futures#addCallback, to avoid deadlock.";
    private static final RpcError DEADLOCK_RPCERROR =
            RpcResultBuilder.newError(ErrorType.APPLICATION, "lock-denied", DEADLOCK_MESSAGE);

    public static final Supplier<Exception> DEADLOCK_EXCEPTION_SUPPLIER = new Supplier<Exception>() {
        @Override
        public Exception get() {
            return new TransactionCommitDeadlockException(DEADLOCK_MESSAGE, DEADLOCK_RPCERROR);
        }
    };

    public TransactionCommitDeadlockException(final String message, final RpcError... errors) {
        super(message, errors);
    }
}

7.161 sal-common-impl 1.1.1-Helium-SR1

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    * and is available at http://www.eclipse.org/legal/epl-v10.html
    */
    package org.opendaylight.controller.md.sal.common.impl.service;

    import java.util.Collections;
    import java.util.Map;
    import java.util.Set;

    import org.opendaylight.controller.md.sal.common.api.data.DataChangeEvent;
    import org.opendaylight.yangtools.concepts.Immutable;
    import org.opendaylight.yangtools.concepts.Path;

    public class InitialDataChangeEventImpl<P extends Path<P,D>,D> implements DataChangeEvent<P,D>, Immutable
    {
private final D updatedOperationalTree;
private final D updatedConfigurationTree;
private final Map<P,D> updatedConfigurationData;
private final Map<P,D> updatedOperationalData;

public InitialDataChangeEventImpl(D configTree, D operTree) {
    updatedConfigurationTree = configTree;
    updatedOperationalTree = operTree;
    updatedConfigurationData = Collections.emptyMap();
    updatedOperationalData = Collections.emptyMap();
}

public InitialDataChangeEventImpl(D configTree, D operTree, Map<P,D> updatedCfgData, Map<P,D> updatedOperData) {
    updatedConfigurationTree = configTree;
    updatedOperationalTree = operTree;
    updatedConfigurationData = updatedCfgData;
    updatedOperationalData = updatedOperData;
}

@Override
public Map<P, D> getCreatedConfigurationData() {
    return Collections.emptyMap();
}

@Override
public Map<P, D> getCreatedOperationalData() {
    return Collections.emptyMap();
}

@Override
public Map<P, D> getOriginalConfigurationData() {
    return Collections.emptyMap();
}

@Override
public Map<P, D> getOriginalOperationalData() {
    return Collections.emptyMap();
}

@Override
public Set<P> getRemovedConfigurationData() {
    return Collections.emptySet();
}

@Override
public Set<P> getRemovedOperationalData() {
    return Collections.emptySet();
}
public Map<P, D> getUpdatedConfigurationData() {
    return updatedConfigurationData;
}

@Override
public D getUpdatedConfigurationSubtree() {
    return updatedConfigurationTree;
}

@Override
public D getUpdatedOperationalSubtree() {
    return updatedOperationalTree;
}

@Override
public D getOriginalConfigurationSubtree() {
    return updatedConfigurationTree;
}

@Override
public D getOriginalOperationalSubtree() {
    return updatedOperationalTree;
}

@Override
public D getUpdatedOperationalData() {
    return updatedOperationalData;
}

}
public DataChangeEventImpl(DataChange<P, D> dataChange, D originalConfigurationSubtree, D originalOperationalSubtree, D updatedOperationalSubtree, D updatedConfigurationSubtree) {
    super();
    this.dataChange = dataChange;
    this.originalConfigurationSubtree = originalConfigurationSubtree;
    this.originalOperationalSubtree = originalOperationalSubtree;
    this.updatedOperationalSubtree = updatedOperationalSubtree;
    this.updatedConfigurationSubtree = updatedConfigurationSubtree;
}

@Override
public D getOriginalConfigurationSubtree() {
    return originalConfigurationSubtree;
}

@Override
public D getOriginalOperationalSubtree() {
    return originalOperationalSubtree;
}

@Override
public D getUpdatedOperationalSubtree() {
    return updatedOperationalSubtree;
}

@Override
public D getUpdatedConfigurationSubtree() {
    return updatedConfigurationSubtree;
}

public Map<P, D> getCreatedOperationalData() {
    return dataChange.getCreatedOperationalData();
}

public Map<P, D> getCreatedConfigurationData() {
    return dataChange.getCreatedConfigurationData();
}
public Map<P, D> getUpdatedOperationalData() {
    return dataChange.getUpdatedOperationalData();
}

public Map<P, D> getUpdatedConfigurationData() {
    return dataChange.getUpdatedConfigurationData();
}

public Set<P> getRemovedConfigurationData() {
    return dataChange.getRemovedConfigurationData();
}

public Set<P> getRemovedOperationalData() {
    return dataChange.getRemovedOperationalData();
}

public Map<P, D> getOriginalConfigurationData() {
    return dataChange.getOriginalConfigurationData();
}

public Map<P, D> getOriginalOperationalData() {
    return dataChange.getOriginalOperationalData();
}

/**
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 * 
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 * and is available at http://www.eclipse.org/legal/epl-v10.html 
 */
package org.opendaylight.controller.md.sal.common.impl.service;

import java.util.ArrayList;
import java.util.List;
import java.util.Map;
import java.util.Map.Entry;
import java.util.Set;
import java.util.concurrent.Callable;
import java.util.concurrent.ExecutorService;
import org.opendaylight.controller.md.sal.common.api.TransactionStatus;
import org.opendaylight.controller.md.sal.common.api.data.DataChangeEvent;
import org.opendaylight.controller.md.sal.common.api.data.DataChangeListener;
import org.opendaylight.controller.md.sal.common.api.data.DataCommitHandler;
import org.opendaylight.controller.md.sal.common.api.data.DataCommitTransaction;

import org.opendaylight.controller.md.sal.common.api.TransactionStatus;
import org.opendaylight.controller.md.sal.common.api.data.DataChangeEvent;
import org.opendaylight.controller.md.sal.common.api.data.DataChangeListener;
import org.opendaylight.controller.md.sal.common.api.data.DataCommitHandler;
import org.opendaylight.controller.md.sal.common.api.data.DataCommitTransaction;

import org.opendaylight.yangtools.concepts.Path;
import org.opendaylight.yangtools.yang.common.RpcResult;
import org.opendaylight.yangtools.yang.common.RpcResultBuilder;
import org.slf4j.Logger;
import org.slf4j.LoggerFactory;
import com.google.common.base.Optional;
import com.google.common.base.Predicate;
import com.google.common.collect.ImmutableList;
import com.google.common.collect.ImmutableList.Builder;
import com.google.common.collect.ImmutableSet;
import com.google.common.collect.Sets;

public class TwoPhaseCommit<P extends Path<P>, D extends Object, DCL extends DataChangeListener<P, D>>
  implements Callable<RpcResult<TransactionStatus>> {
  private final static Logger log = LoggerFactory.getLogger(TwoPhaseCommit.class);

  private final AbstractDataTransaction<P, D> transaction;
  private final AbstractDataBroker<P, D, DCL> dataBroker;

  public TwoPhaseCommit(final AbstractDataTransaction<P, D> transaction, final AbstractDataBroker<P, D, DCL> broker) {
    this.transaction = transaction;
    this.dataBroker = broker;
  }

  @Override
  public RpcResult<TransactionStatus> call() throws Exception {
    final Object transactionId = this.transaction.getIdentifier();

    Set<P> changedPaths = ImmutableSet.<P>
      builder().addAll(transaction.getUpdatedConfigurationData().keySet())
      .addAll(transaction.getCreatedConfigurationData().keySet())
      .addAll(transaction.getRemovedConfigurationData())
      .addAll(transaction.getUpdatedOperationalData().keySet())
      .addAll(transaction.getCreatedOperationalData().keySet())
      .addAll(transaction.getRemovedOperationalData()).build();

    log.trace("Transaction: {} Affected Subtrees: ", transactionId, changedPaths);

    // The transaction has no effects, let's just shortcut it
    if (changedPaths.isEmpty()) {
      dataBroker.getFinishedTransactionsCount().getAndIncrement();
      transaction.succeeded();

      log.trace("Transaction: {} Finished successfully (no effects).", transactionId);
    }
  }
}
return RpcResultBuilder.<TransactionStatus> success(TransactionStatus.COMMITTED).build();
}

final ImmutableList.Builder<ListenerStateCapture<P, D, DCL>> listenersBuilder = ImmutableList.builder();
listenersBuilder.addAll(dataBroker.affectedListeners(changedPaths));
filter ProbablyAffectedListeners(dataBroker.probablyAffectedListeners(changedPaths), listenersBuilder);

final ImmutableList<ListenerStateCapture<P, D, DCL>> listeners = listenersBuilder.build();
final Iterable<DataCommitHandler<P, D>> commitHandlers =
dataBroker.affectedCommitHandlers(changedPaths);
captureInitialState(listeners);

log.trace("Transaction: {} Starting Request Commit.", transactionId);
final List<DataCommitTransaction<P, D>> handlerTransactions = new ArrayList<>();
try {
    for (final DataCommitHandler<P, D> handler : commitHandlers) {
        DataCommitTransaction<P, D> requestCommit = handler.requestCommit(this.transaction);
        if (requestCommit != null) {
            handlerTransactions.add(requestCommit);
        } else {
            log.debug("Transaction: {}, Handler {} is not participating in transaction.", transactionId, handler);
        }
    }
} catch (Exception e) {
    log.error("Transaction: {} Request Commit failed", transactionId, e);
    dataBroker.getFailedTransactionsCount().getAndIncrement();
    this.transaction.failed();
    return this.rollback(handlerTransactions, e);
}

log.trace("Transaction: {} Starting Finish.", transactionId);
final List<RpcResult<Void>> results = new ArrayList<>();
try {
    for (final DataCommitTransaction<P, D> subtransaction : handlerTransactions) {
        results.add(subtransaction.finish());
    }
} catch (Exception e) {
    log.error("Transaction: {} Finish Commit failed", transactionId, e);
    dataBroker.getFailedTransactionsCount().getAndIncrement();
    transaction.failed();
    return this.rollback(handlerTransactions, e);
}
dataBroker.getFinishedTransactionsCount().getAndIncrement();
transaction.succeeded();

log.trace("Transaction: {} Finished successfully.", transactionId);
captureFinalState(listeners);

log.trace("Transaction: {} Notifying listeners.", transactionId);
publishDataChangeEvent(listeners);
return RpcResultBuilder.<TransactionStatus> success(TransactionStatus.COMMITED).build();

private void captureInitialState(ImmutableList<ListenerStateCapture<P, D, DCL>> listeners) {
    for (ListenerStateCapture<P, D, DCL> state : listeners) {
        state.setInitialConfigurationState(dataBroker.readConfigurationData(state.getPath()));
        state.setInitialOperationalState(dataBroker.readOperationalData(state.getPath()));
    }
}

private void captureFinalState(ImmutableList<ListenerStateCapture<P, D, DCL>> listeners) {
    for (ListenerStateCapture<P, D, DCL> state : listeners) {
        state.setFinalConfigurationState(dataBroker.readConfigurationData(state.getPath()));
        state.setFinalOperationalState(dataBroker.readOperationalData(state.getPath()));
    }
}

private void filterProbablyAffectedListeners(
    ImmutableList<ListenerStateCapture<P, D, DCL>> probablyAffectedListeners,
    Builder<ListenerStateCapture<P, D, DCL>> reallyAffected) {

    for(ListenerStateCapture<P, D, DCL> listenerSet : probablyAffectedListeners) {
        P affectedPath = listenerSet.getPath();
        Optional<RootedChangeSet<P, D>> configChange = resolveConfigChange(affectedPath);
        Optional<RootedChangeSet<P, D>> operChange = resolveOperChange(affectedPath);

        if(configChange.isPresent() || operChange.isPresent()) {
            reallyAffected.add(listenerSet);
            if(configChange.isPresent()) {
                listenerSet.setNormalizedConfigurationChanges(configChange.get());
            }
            if(operChange.isPresent()) {
                listenerSet.setNormalizedOperationalChanges(operChange.get());
            }
        }
    }
}
private Optional<RootedChangeSet<P, D>> resolveOperChange(P affectedPath) {
    Map<P, D> originalOper =
        dataBroker.deepGetBySubpath(transaction.getOriginalOperationalData(), affectedPath);
    Map<P, D> createdOper =
        dataBroker.deepGetBySubpath(transaction.getCreatedOperationalData(), affectedPath);
    Map<P, D> updatedOper =
        dataBroker.deepGetBySubpath(transaction.getUpdatedOperationalData(), affectedPath);
    Set<P> removedOper = Sets.filter(transaction.getRemovedOperationalData(),
         dataBroker.createIsContainedPredicate(affectedPath));
    return resolveChanges(affectedPath, originalOper, createdOper, updatedOper, removedOper);
}

private Optional<RootedChangeSet<P, D>> resolveConfigChange(P affectedPath) {
    Map<P, D> originalConfig =
        dataBroker.deepGetBySubpath(transaction.getOriginalConfigurationData(), affectedPath);
    Map<P, D> createdConfig =
        dataBroker.deepGetBySubpath(transaction.getCreatedConfigurationData(), affectedPath);
    Map<P, D> updatedConfig =
        dataBroker.deepGetBySubpath(transaction.getUpdatedConfigurationData(), affectedPath);
    Set<P> removedConfig = Sets.filter(transaction.getRemovedConfigurationData(),
         dataBroker.createIsContainedPredicate(affectedPath));
    return resolveChanges(affectedPath, originalConfig, createdConfig, updatedConfig, removedConfig);
}

private Optional<RootedChangeSet<P,D>> resolveChanges(P affectedPath, Map<P, D> originalConfig, Map<P, D> createdConfig, Map<P, D> updatedConfig, Set<P> potentialDeletions) {
    Predicate<P> isContained = dataBroker.createIsContainedPredicate(affectedPath);
    if(createdConfig.isEmpty() && updatedConfig.isEmpty() && potentialDeletions.isEmpty()) {
        return Optional.absent();
    }
    RootedChangeSet<P, D> changeSet = new RootedChangeSet<P,D>(affectedPath,originalConfig);
    changeSet.addCreated(createdConfig);
    for(Entry<P, D> entry : updatedConfig.entrySet()) {
        if(originalConfig.containsKey(entry.getKey())) {
            changeSet.addUpdated(entry);
        } else {
            changeSet.addCreated(entry);
        }
    }
    for(Entry<P,D> entry : originalConfig.entrySet()) {
        for(P deletion : potentialDeletions) {
            // Code continuation
        }
    }
}
if(isContained.apply(deletion)) {
    changeSet.addRemoval(entry.getKey());
}

if(changeSet.isChange()) {
    return Optional.of(changeSet);
} else {
    return Optional.absent();
}

public void publishDataChangeEvent(final ImmutableList<ListenerStateCapture<P, D, DCL>> listeners) {
    ExecutorService executor = this.dataBroker.getExecutor();
    final Runnable notifyTask = new Runnable() {
        @Override
        public void run() {
            for (final ListenerStateCapture<P, D, DCL> listenerSet : listeners) {
                DataChangeEvent<P, D> changeEvent = listenerSet.createEvent(transaction);
                for (final DataChangeListenerRegistration<P, D, DCL> listener : listenerSet.getListeners()) {
                    try {
                        listener.getInstance().onDataChanged(changeEvent);
                    } catch (Exception e) {
                        log.error("Unhandled exception when invoking listener ", listener, e);
                    }
                }
            }
        }
    }
    executor.submit(notifyTask);
}

public RpcResult<TransactionStatus> rollback(final List<DataCommitTransaction<P, D>> transactions, final Exception e) {
    for (final DataCommitTransaction<P, D> transaction : transactions) {
        transaction.rollback();
    }
    return RpcResultBuilder.<TransactionStatus> failed().withResult(TransactionStatus.FAILED).build();
}

7.162 sal-common-util 1.1.1-Helium-SR1
package org.opendaylight.controller.md.sal.common.util.jmx;

import com.google.common.base.Preconditions;
import java.util.concurrent.BlockingQueue;
import java.util.concurrent.Executor;
import java.util.concurrent.RejectedExecutionHandler;
import java.util.concurrent.ThreadPoolExecutor;
import javax.annotation.Nullable;
import org.opendaylight.yangtools.util.concurrent.CountingRejectedExecutionHandler;
import org.opendaylight.yangtools.util.concurrent.TrackingLinkedBlockingQueue;
import org.slf4j.Logger;
import org.slf4j.LoggerFactory;

/**
 * MXBean implementation of the ThreadExecutorStatsMXBean interface that retrieves statistics
 * from a backing { @link java.util.concurrent.ExecutorService}.  
 * 
 * @author Thomas Pantelis
 */
public class ThreadExecutorStatsMXBeanImpl extends AbstractMXBean
implments ThreadExecutorStatsMXBean {
private static final Logger LOG = LoggerFactory.getLogger(ThreadExecutorStatsMXBeanImpl.class);
private final ThreadPoolExecutor executor;

/**
 * Constructs an instance for the given { @link Executor}.
 *
 * @param executor the backing { @link Executor}
 * @param mBeanName Used as the <code>name</code> property in the bean's ObjectName.
 * @param mBeanType Used as the <code>type</code> property in the bean's ObjectName.
 * @param mBeanCategory Used as the <code>Category</code> property in the bean's ObjectName.
 */
public ThreadExecutorStatsMXBeanImpl(final ThreadPoolExecutor executor, final String mBeanName,
final String mBeanType, @Nullable final String mBeanCategory) {
super(mBeanName, mBeanType, mBeanCategory);
this.executor = Preconditions.checkNotNull(executor);
}

private static ThreadExecutorStatsMXBeanImpl createInternal(final Executor executor,
final String mBeanName, final String mBeanType, final String mBeanCategory) {
    if (executor instanceof ThreadPoolExecutor) {
        final ThreadExecutorStatsMXBeanImpl ret = new ThreadExecutorStatsMXBeanImpl(
                (ThreadPoolExecutor) executor, mBeanName, mBeanType, mBeanCategory);
        return ret;
    }

    LOG.info("Executor {} is not supported", executor);
    return null;
}

/**
 * Creates a new bean if the backing executor is a ThreadPoolExecutor and registers it.
 *
 * @param executor the backing {@link Executor}
 * @param mBeanName Used as the <code>name</code> property in the bean's ObjectName.
 * @param mBeanType Used as the <code>type</code> property in the bean's ObjectName.
 * @param mBeanCategory Used as the <code>Category</code> property in the bean's ObjectName.
 * @return a registered ThreadExecutorStatsMXBeanImpl instance if the backing executor
 *         is a ThreadPoolExecutor, otherwise null.
 * /
public static ThreadExecutorStatsMXBeanImpl create(final Executor executor, final String mBeanName,
        final String mBeanType, @Nullable final String mBeanCategory) {
    ThreadExecutorStatsMXBeanImpl ret = createInternal(executor, mBeanName, mBeanType, mBeanCategory);
    if(ret != null) {
        ret.registerMBean();
    }
    return ret;
}

/**
 * Creates a new bean if the backing executor is a ThreadPoolExecutor.
 *
 * @param executor the backing { @link Executor}
 * @param mBeanName Used as the <code>name</code> property in the bean's ObjectName.
 * @param mBeanType Used as the <code>type</code> property in the bean's ObjectName.
 * @return a ThreadPoolExecutorStatsMXBeanImpl instance if the backing executor
 *         is a ThreadPoolExecutor, otherwise null.
 * /
public static ThreadPoolExecutorStatsMXBeanImpl create(final Executor executor) {
    return createInternal(executor, "", "", null);
}

@Override
public long getCurrentThreadPoolSize() {
    return executor.getPoolSize();
}

@Override

public long getLargestThreadPoolSize() {
    return executor.getLargestPoolSize();
}

@Override
public long getMaxThreadPoolSize() {
    return executor.getMaximumPoolSize();
}

@Override
public long getCurrentQueueSize() {
    return executor.getQueue().size();
}

@Override
public Long getLargestQueueSize() {
    BlockingQueue<Runnable> queue = executor.getQueue();
    if(queue instanceof TrackingLinkedBlockingQueue) {
    }
    return null;
}

@Override
public long getMaxQueueSize() {
    long queueSize = executor.getQueue().size();
    return executor.getQueue().remainingCapacity() + queueSize;
}

@Override
public long getActiveThreadCount() {
    return executor.getActiveCount();
}

@Override
public long getCompletedTaskCount() {
    return executor.getCompletedTaskCount();
}

@Override
public long getTotalTaskCount() {
    return executor.getTaskCount();
}

@Override
public Long getRejectedTaskCount() {
    RejectedExecutionHandler rejectedHandler = executor.getRejectedExecutionHandler();
    return rejectedHandler.getRejectedCount();
}
if (rejectedHandler instanceof CountingRejectedExecutionHandler) {
    return Long.valueOf(((CountingRejectedExecutionHandler) rejectedHandler)
        .getRejectedTaskCount());
}

return null;

/**
 * Returns a {@link ThreadExecutorStats} instance containing a snapshot of the statistic
 * metrics.
 */
public ThreadExecutorStats toThreadExecutorStats() {
    return new ThreadExecutorStats(getActiveThreadCount(), getCurrentThreadPoolSize(),
        getLargestThreadPoolSize(), getMaxThreadPoolSize(), getCurrentQueueSize(),
        getLargestQueueSize(), getMaxQueueSize(), getCompletedTaskCount(),
        getTotalTaskCount(), getRejectedTaskCount());
}

-package org.opendaylight.controller.md.sal.common.util.jmx;

import java.util.List;

import org.opendaylight.yangtools.util.concurrent.ListenerNotificationQueueStats;
import org.opendaylight.yangtools.util.concurrent.QueuedNotificationManager;

import com.google.common.base.Preconditions;

/**
 * Implementation of the QueuedNotificationManagerMXBean interface.
 *
 * This class is not intended for use outside of MD-SAL and its part of private
 * implementation (still exported as public to be reused across MD-SAL implementation
 * components) and may be removed in subsequent
 * releases.
 *
 * @author Thomas Pantelis
 */
public class QueuedNotificationManagerMXBeanImpl extends AbstractMXBean
implements QueuedNotificationManagerMXBean {

private final QueuedNotificationManager<?,?> manager;

public QueuedNotificationManagerMXBeanImpl( QueuedNotificationManager<?,?> manager,
        String mBeanName, String mBeanType, String mBeanCategory ) {
    super(mBeanName, mBeanType, mBeanCategory);
    this.manager = Preconditions.checkNotNull( manager );
}

@Override
public List<ListenerNotificationQueueStats> getCurrentListenerQueueStats() {
    return manager.getListenerNotificationQueueStats();
}

@Override
public int getMaxListenerQueueSize() {
    return manager.getMaxQueueCapacity();
}

public QueuedNotificationManagerStats toQueuedNotificationManagerStats() {
    return new QueuedNotificationManagerStats( getMaxListenerQueueSize(),
            getCurrentListenerQueueStats() );
}
}

package org.opendaylight.controller.sal.common.util;

import org.opendaylight.controller.md.sal.common.api.data.DataModification;
import org.opendaylight.controller.md.sal.common.api.data.DataCommitHandler.DataCommitTransaction;
import org.opendaylight.yangtools.concepts.Path;
import org.opendaylight.yangtools.yang.common.RpcResult;
import org.opendaylight.yangtools.yang.common.RpcResultBuilder;

public class CommitHandlerTransactions {

    private static class AllwaysSuccessfulTransaction<P extends Path<P>,D> implements DataCommitTransaction<P, D> {

        private final  DataModification<P, D> modification;

        public AllwaysSuccessfulTransaction(DataModification<P, D> modification) {

        }

    }

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     */

    import org.opendaylight.controller.md.sal.common.api.data.DataModification;
    import org.opendaylight.controller.md.sal.common.api.data.DataCommitHandler.DataCommitTransaction;
    import org.opendaylight.yangtools.concepts.Path;
    import org.opendaylight.yangtools.yang.common.RpcResult;
    import org.opendaylight.yangtools.yang.common.RpcResultBuilder;

    public class CommitHandlerTransactions {

        private static class AllwaysSuccessfulTransaction<P extends Path<P>,D> implements DataCommitTransaction<P, D> {

            private final  DataModification<P, D> modification;

            public AllwaysSuccessfulTransaction(DataModification<P, D> modification) {

            }

        }

    }
this.modification = modification;
}
@Override
public RpcResult<Void> rollback() throws IllegalStateException {
    return RpcResultBuilder.<Void>success().build();
}
@Override
public RpcResult<Void> finish() throws IllegalStateException {
    return RpcResultBuilder.<Void>success().build();
}
@Override
public DataModification<P, D> getModification() {
    return modification;
}
}

public static final <P extends Path<P>, D> AllwaysSuccessfulTransaction<P, D>
allwaysSuccessfulTransaction(DataModification<P, D> modification) {
    return new AllwaysSuccessfulTransaction<>(modification);
}
}

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7.164 sal-core-api 1.1.1-Helium-SR1

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*/

package org.opendaylight.controller.sal.core.api;

import org.opendaylight.yangtools.yang.common.QName;
import org.opendaylight.yangtools.yang.common.RpcResult;
import org.opendaylight.yangtools.yang.data.api.CompositeNode;
import org.opendaylight.yangtools.yang.data.api.YangInstanceIdentifier;
import com.google.common.util.concurrent.ListenableFuture;

public interface RoutedRpcDefaultImplementation {

    ListenableFuture<RpcResult<CompositeNode>> invokeRpc(QName rpc, YangInstanceIdentifier identifier,
            CompositeNode input);

}

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*/

package org.opendaylight.controller.sal.core.api;

import java.util.Set;
import org.opendaylight.yangtools.yang.common.QName;
import org.opendaylight.yangtools.yang.common.RpcResult;
import org.opendaylight.yangtools.yang.data.api.CompositeNode;
import com.google.common.util.concurrent.ListenableFuture;

import java.util.Set;
import org.opendaylight.yangtools.yang.common.QName;
import org.opendaylight.yangtools.yang.common.RpcResult;
import org.opendaylight.yangtools.yang.data.api.CompositeNode;
import com.google.common.util.concurrent.ListenableFuture;

import java.util.Set;
import org.opendaylight.yangtools.yang.common.QName;
import org.opendaylight.yangtools.yang.common.RpcResult;
import org.opendaylight.yangtools.yang.data.api.CompositeNode;
import com.google.common.util.concurrent.ListenableFuture;
/**
 *  [@link Provider]'s implementation of an RPC.
 *
 * In order to expose an RPC to other components, the provider MUST register
 * a concrete implementation of this interface.
 *
 * The registration could be done by :
 * <ul>
 *  <li>returning an instance of implementation in the return value of
 *       [@link Provider#getProviderFunctionality()]
 *  <li>passing an instance of implementation and [@link QName] of rpc as
 *       arguments to the
 *       [@link org.opendaylight.controller.sal.core.api.Broker.ProviderSession#addRpcImplementation(QName,
 *       RpcImplementation)]
 * </ul>
 *
 * The simplified process of the invocation of rpc is following:
 * <ol>
 *  <li> [@link Consumer] invokes
 *      [@link org.opendaylight.controller.sal.core.api.Broker.ConsumerSession#rpc(QName, CompositeNode)]
 *  <li> [@link Broker] finds registered [@link RpcImplementation]s
 *  <li> [@link Broker] invokes
 *      [@link RpcImplementation#invokeRpc(QName, CompositeNode)]
 *  <li> [@link RpcImplementation] processes the data and returns a
 *      [@link RpcResult]
 *  <li> [@link Broker] returns the [@link RpcResult] to [@link Consumer]
 * </ol>
 */

public interface RpcImplementation extends Provider.ProviderFunctionality {

/**
 * A set of rpc types supported by implementation.
 *
 * The set of rpc [@link QName]s which are supported by this implementation.
 * This set is used, when [@link Provider] is registered to the SAL, to
 * register and expose the implementation of the returned rpcs.
 *
 * @return Set of QNames identifying supported RPCs
 */
Set<QName> getSupportedRpcs();

/**
 * Invokes a implementation of specified RPC asynchronously.
 *
 * @param rpc
 *    RPC to be invoked
 */
* @param input
  * Input data for the RPC.
  *
  * @throws IllegalArgumentException
  * <ul>
  * <li>If rpc is null.
  * <li>Input is not <code>null</code> and <code>false == rpc.equals(input.getNodeType)</code>
  * </ul>
  *
  * @return Future promising an RpcResult containing the output of
  * the RPC if was executed successfully, the list of errors
  * otherwise.
  */
ListenableFuture<RpcResult<CompositeNode>> invokeRpc(QName rpc, CompositeNode input);

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 */
package org.opendaylight.controller.sal.core.api;

/**
 * Exception reported when no RPC implementation is found in the system.
 */
public class RpcImplementationUnavailableException extends RuntimeException {
    private static final long serialVersionUID = 1L;

    public RpcImplementationUnavailableException(final String message) {
        super(message);
    }

    public RpcImplementationUnavailableException(final String message, final Throwable cause) {
        super(message, cause);
    }
}

7.165 sal-core-spi 1.1.1-Helium-SR1
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package org.opendaylight.controller.sal.core.spi.data;

import com.google.common.util.concurrent.ListenableFuture;

/**
 * Interface implemented by the { @link DOMStore} and exposed for each { @link DOMStoreWriteTransaction}
 * upon its transition to Ready state. The frontend (DOMStore user) uses this interface to drive the
 * commit procedure across potentially multiple DOMStores using the Three-Phase-Commit (3PC) Protocol,
 * as described in [ @link https://en.wikipedia.org/wiki/Three-phase_commit].
 */
public interface DOMStoreThreePhaseCommitCohort {

  /**
   * Sends transaction associated with this three phase commit instance to the
   * participant, participant votes on the transaction, if the transaction
   * should be committed or aborted.
   *
   * @return ListenableFuture with vote of the participant. Vote
   *         { @link ListenableFuture#get()} is following:
   *         <ul>
   *         <li>true if transaction is approved by data store.
   *         <li>false if the transaction is not approved by data store and
   *         should be aborted.
   */
   ListenableFuture<Boolean> canCommit();

  /**
   * Initiates a pre-commit phase of associated transaction on datastore.
   *
   * This message is valid only and only if and only if the participant responded
   * on { @link #canCommit()} call with positive response.
   *
   * @return ListenableFuture representing acknowledgment for participant
   *         that pre-commit message was received and processed.
   */
  ListenableFuture<Void> preCommit();

  /**
   * Initiates a abort phase of associated transaction on data store.
   *
   * @return ListenableFuture representing acknowledgment for participant
   *         that abort message was received.
   */
  ListenableFuture<Void> abort();
}

* and is available at http://www.eclipse.org/legal/epl-v10.html
*/
/**
 * Initiates a commit phase on of associated transaction on data store.
 * @return ListenableFuture representing acknowledgment for participant
 * that commit message was received and commit of transaction was
 * processed.
 */
ListenableFuture<Void> commit();

7.166 sal-distributed-datastore 1.1.1-Helium-SR1

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*/

package org.opendaylight.controller.cluster.datastore.messages;

import org.opendaylight.controller.protobuff.messages.cohort3pc.ThreePhaseCommitCohortMessages;

public class CommitTransaction implements SerializableMessage {
    public static final Class<ThreePhaseCommitCohortMessages.CommitTransaction> SERIALIZABLE_CLASS =
            ThreePhaseCommitCohortMessages.CommitTransaction.class;

    private final String transactionID;

    public CommitTransaction(String transactionID) {
        this.transactionID = transactionID;
    }

    public String getTransactionID() {
        return transactionID;
    }

    @Override
    public Object toSerializable() {
        return ThreePhaseCommitCohortMessages.CommitTransaction.newBuilder().setTransactionId(
                transactionID).build();
    }
}
public static CommitTransaction fromSerializable(Object message) {
    return new CommitTransaction(((ThreePhaseCommitCohortMessages.
    CommitTransaction)message).getTransactionId());
}

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*/

package org.opendaylight.controller.cluster.datastore.messages;

import org.opendaylight.controller.protobuff.messages.cohort3pc.ThreePhaseCommitCohortMessages;

public class PreCommitTransaction implements SerializableMessage{

    public static final Class SERIALIZABLE_CLASS =
    ThreePhaseCommitCohortMessages.PreCommitTransaction.class;

    @Override
    public Object toSerializable() {
        return  ThreePhaseCommitCohortMessages.PreCommitTransaction.newBuilder().build();
    }
}

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*/

package org.opendaylight.controller.cluster.datastore.messages;

import org.opendaylight.controller.protobuff.messages.cohort3pc.ThreePhaseCommitCohortMessages;

public class CanCommitTransactionReply implements SerializableMessage {

    public static final Class<ThreePhaseCommitCohortMessages.CanCommitTransactionReply>
    SERIALIZABLE_CLASS =
    ThreePhaseCommitCohortMessages.CanCommitTransactionReply.class;

    private final Boolean canCommit;

    public CanCommitTransactionReply(Boolean canCommit) {
        this.canCommit = canCommit;
    }
public Boolean getCanCommit() {
    return canCommit;
}

@Override
public Object toSerializable() {
    return
    ThreePhaseCommitCohortMessages.CanCommitTransactionReply.newBuilder().setCanCommit(canCommit).build();
}

public static CanCommitTransactionReply fromSerializable(Object message) {
    return new CanCommitTransactionReply(
        ((ThreePhaseCommitCohortMessages.CanCommitTransactionReply) message).getCanCommit());
}

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 */

package org.opendaylight.controller.cluster.datastore.messages;

import org.opendaylight.controller.protobuff.messages.cohort3pc.ThreePhaseCommitCohortMessages;

public class CanCommitTransaction implements SerializableMessage {
    public static final Class<?> SERIALIZABLE_CLASS =
        ThreePhaseCommitCohortMessages.CanCommitTransaction.class;

    private final String transactionID;

    public CanCommitTransaction(String transactionID) {
        this.transactionID = transactionID;
    }

    public String getTransactionID() {
        return transactionID;
    }

    @Override
    public Object toSerializable() {
        return ThreePhaseCommitCohortMessages.CanCommitTransaction.newBuilder().
            setTransactionId(transactionID).build();
    }
public static CanCommitTransaction fromSerializable(Object message) {
    return new CanCommitTransaction(((ThreePhaseCommitCohortMessages.CanCommitTransaction)message).getTransactionId());
}

public static final Class<ThreePhaseCommitCohortMessages.CommitTransactionReply> SERIALIZABLE_CLASS =
    ThreePhaseCommitCohortMessages.CommitTransactionReply.class;

@Override
public Object toSerializable() {
    return ThreePhaseCommitCohortMessages.CommitTransactionReply.newBuilder().build();
}

public static final Class<ThreePhaseCommitCohortMessages.PreCommitTransactionReply> SERIALIZABLE_CLASS =
    ThreePhaseCommitCohortMessages.PreCommitTransactionReply.class;

@Override
public Object toSerializable() {
public class BackwardsCompatibleThreePhaseCommitCohort extends AbstractUntypedActor {

    private final LoggingAdapter LOG = Logging.getLogger(getContext().system(), this);
    private final String transactionId;
    private BackwardsCompatibleThreePhaseCommitCohort(String transactionId) {
        this.transactionId = transactionId;
    }

    @Override
    public void handleReceive(Object message) throws Exception {
        if(message.getClass().equals(CanCommitTransaction.SERIALIZABLE_CLASS)) {
            LOG.debug("BackwardsCompatibleThreePhaseCommitCohort CanCommitTransaction");
            getContext().parent().forward(new CanCommitTransaction(transactionId).toSerializable(),
                getContext());
        }
    }

    @Override
    public void preStop() {
        LOG.debug("BackwardsCompatibleThreePhaseCommitCohort preStop");
    }

    @Override
    public void postStop() {
        LOG.debug("BackwardsCompatibleThreePhaseCommitCohort postStop");
    }

    @Override
    public void receivePartial(Object message) throws Exception {
        if(message.getClass().equals(PreCommitTransaction.SERIALIZABLE_CLASS)) {
            LOG.debug("BackwardsCompatibleThreePhaseCommitCohort PreCommitTransaction");
            getContext().parent().forward(new PreCommitTransaction(transactionId).toSerializable(),
                getContext());
        }
    }

    @Override
    public void receive(Object message) throws Exception {
        if(message.getClass().equals(PreCommitTransactionReply.SERIALIZABLE_CLASS)) {
            LOG.debug("BackwardsCompatibleThreePhaseCommitCohort PreCommitTransactionReply");
            getContext().parent().forward(new PreCommitTransactionReply(transactionId).toSerializable(),
                getContext());
        }
    }

    @Override
    public void receiveException(Throwable cause) throws Exception {
        LOG.debug("BackwardsCompatibleThreePhaseCommitCohort receiveException");
    }

    @Override
    public void receiveTerminated(Throwable cause) throws Exception {
        LOG.debug("BackwardsCompatibleThreePhaseCommitCohort receiveTerminated");
    }

    @Override
    public void receiveSignal(Object signal, Object... args) throws Exception {
        LOG.debug("BackwardsCompatibleThreePhaseCommitCohort receiveSignal");
    }

    @Override
    public void timeout() throws Exception {
        LOG.debug("BackwardsCompatibleThreePhaseCommitCohort timeout");
    }

    public static Props prop(String transactionId) {
        return Props.create(BackwardsCompatibleThreePhaseCommitCohort.class, () -> new BackwardsCompatibleThreePhaseCommitCohort(transactionId));
    }
}

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* /
*/
else if(message.getClass().equals(PreCommitTransaction.SERIALIZABLE_CLASS)) {
    LOG.debug("BackwardsCompatibleThreePhaseCommitCohort PreCommitTransaction");

    // The Shard doesn't need the PreCommitTransaction message so just return the reply here.
    getSender().tell(new PreCommitTransactionReply().toSerializable(), self());
} else if(message.getClass().equals(CommitTransaction.SERIALIZABLE_CLASS)) {
    LOG.debug("BackwardsCompatibleThreePhaseCommitCohort CommitTransaction");

    getContext().parent().forward(new CommitTransaction(transactionId).toSerializable(),
    getContext());

    // We're done now - we can self-destruct
    self().tell(PoisonPill.getInstance(), self());
} else if(message.getClass().equals(AbortTransaction.SERIALIZABLE_CLASS)) {
    LOG.debug("BackwardsCompatibleThreePhaseCommitCohort AbortTransaction");

    getContext().parent().forward(new AbortTransaction(transactionId).toSerializable(),
    getContext());
    self().tell(PoisonPill.getInstance(), self());
}

public static Props props(String transactionId) {
    return Props.create(new BackwardsCompatibleThreePhaseCommitCohortCreator(transactionId));
}

private static class BackwardsCompatibleThreePhaseCommitCohortCreator
    implements Creator<BackwardsCompatibleThreePhaseCommitCohort> {
    private static final long serialVersionUID = 1L;

    private final String transactionId;

    BackwardsCompatibleThreePhaseCommitCohortCreator(String transactionId) {
        this.transactionId = transactionId;
    }

    @Override
    public BackwardsCompatibleThreePhaseCommitCohort create() throws Exception {
        return new BackwardsCompatibleThreePhaseCommitCohort(transactionId);
    }
}

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 */
package org.opendaylight.controller.cluster.datastore;

import com.google.common.base.Optional;
import com.google.common.base.Preconditions;
import com.typesafe.config.Config;
import com.typesafe.config.ConfigFactory;
import com.typesafe.config.ConfigObject;
import org.opendaylight.controller.cluster.datastore.shardstrategy.DefaultShardStrategy;
import org.opendaylight.controller.cluster.datastore.shardstrategy.ModuleShardStrategy;
import org.opendaylight.controller.cluster.datastore.shardstrategy.ShardStrategy;
import org.slf4j.Logger;
import org.slf4j.LoggerFactory;
import java.io.File;
import java.util.ArrayList;
import java.util.Collections;
import java.util.HashMap;
import java.util.LinkedHashSet;
import java.util.List;
import java.util.Map;
import java.util.Set;

public class ConfigurationImpl implements Configuration {

    private final List<ModuleShard> moduleShards = new ArrayList<>();

    private final List<Module> modules = new ArrayList<>();

    private static final Logger LOG = LoggerFactory.getLogger(DistributedDataStore.class);

    // Look up maps to speed things up

    // key = memberName, value = list of shardNames
    private Map<String, List<String>> memberShardNames = new HashMap<>();

    // key = shardName, value = list of replicaNames (replicaNames are the same as memberNames)
    private Map<String, List<String>> shardReplicaNames = new HashMap<>();

    public ConfigurationImpl(String moduleShardsConfigPath,
                                String modulesConfigPath){

        Preconditions.checkNotNull(moduleShardsConfigPath, "moduleShardsConfigPath should not be null");
        Preconditions.checkNotNull(modulesConfigPath, "modulesConfigPath should not be null");
File moduleShardsFile = new File("./configuration/initial/" + moduleShardsConfigPath);
File modulesFile = new File("./configuration/initial/" + modulesConfigPath);

Config moduleShardsConfig = null;
if(moduleShardsFile.exists()) {
    LOG.info("module shards config file exists - reading config from it");
    moduleShardsConfig = ConfigFactory.parseFile(moduleShardsFile);
} else {
    LOG.warn("module shards configuration read from resource");
    moduleShardsConfig = ConfigFactory.load(moduleShardsConfigPath);
}

Config modulesConfig = null;
if(modulesFile.exists()) {
    LOG.info("modules config file exists - reading config from it");
    modulesConfig = ConfigFactory.parseFile(modulesFile);
} else {
    LOG.warn("modules configuration read from resource");
    modulesConfig = ConfigFactory.load(modulesConfigPath);
}

readModuleShards(moduleShardsConfig);

readModules(modulesConfig);

@override public List<String> getMemberShardNames(String memberName){

    Preconditions.checkNotNull(memberName, "memberName should not be null");

    if(memberShardNames.containsKey(memberName)){
        return memberShardNames.get(memberName);
    }

    List<String> shards = new ArrayList();
    for(ModuleShard ms : moduleShards){
        for(Shard s : ms.getShards()){
            for(String m : s.getReplicas()){
                if(memberName.equals(m)){
                    shards.add(s.getName());
                }
            }
        }
    }

    memberShardNames.put(memberName, shards);
return shards;

}@Override public Optional<String> getModuleNameFromNameSpace(String nameSpace) {

Preconditions.checkNotNull(nameSpace, "nameSpace should not be null");

for(Module m : modules){
    if(m.getNameSpace().equals(nameSpace)){
        return Optional.of(m.getName());
    }
}
return Optional.absent();

}@Override public Map<String, ShardStrategy> getModuleNameToShardStrategyMap() {
    Map<String, ShardStrategy> map = new HashMap<>();
    for(Module m : modules){
        map.put(m.getName(), m.getShardStrategy());
    }
    return map;
}

}@Override public List<String> getShardNamesFromModuleName(String moduleName) {

Preconditions.checkNotNull(moduleName, "moduleName should not be null");

for(ModuleShard m : moduleShards){
    if(m.getModuleName().equals(moduleName)){
        List<String> l = new ArrayList<>();
        for(Shard s : m.getShards()){ l.add(s.getName());
        }
        return l;
    }
}
return Collections.EMPTY_LIST;
}

}@Override public List<String> getMembersFromShardName(String shardName) {

Preconditions.checkNotNull(shardName, "shardName should not be null");

if(shardReplicaNames.containsKey(shardName)){
    return shardReplicaNames.get(shardName);
}
for(ModuleShard ms : moduleShards){
    for(Shard s : ms.getShards()) {
        if(s.getName().equals(shardName)){
            List<String> replicas = s.getReplicas();
            shardReplicaNames.put(shardName, replicas);
            return replicas;
        }
    }
}
shardReplicaNames.put(shardName, Collections.EMPTY_LIST);
return Collections.EMPTY_LIST;

@Override public Set<String> getAllShardNames() {
    Set<String> shardNames = new LinkedHashSet<>();
    for(ModuleShard ms : moduleShards){
        for(Shard s : ms.getShards()) {
            shardNames.add(s.getName());
        }
    }
    return shardNames;
}

private void readModules(Config modulesConfig) {
    List<? extends ConfigObject> modulesConfigObjectList =
        modulesConfig.getObjectList("modules");
    for(ConfigObject o : modulesConfigObjectList){
        ConfigObjectWrapper w = new ConfigObjectWrapper(o);
        modules.add(new Module(w.stringValue("name"), w.stringValue("namespace"), w.stringValue("shard-strategy")));
    }
}

private void readModuleShards(Config moduleShardsConfig) {
    List<? extends ConfigObject> moduleShardsConfigObjectList =
        moduleShardsConfig.getObjectList("module-shards");
    for(ConfigObject moduleShardConfigObject : moduleShardsConfigObjectList){
        String moduleName = moduleShardConfigObject.get("name").unwrapped().toString();
        List<? extends ConfigObject> shardsConfigObjectList =
            moduleShardConfigObject.toConfig().getObjectList("shards");
            // continue with reading shards
List<Shard> shards = new ArrayList<>();

for(ConfigObject shard : shardsConfigObjectList){
    String shardName = shard.get("name").unwrapped().toString();
    List<String> replicas = shard.toConfig().getStringList("replicas");
    shards.add(new Shard(shardName, replicas));
}

this.moduleShards.add(new ModuleShard(moduleName, shards));
}

private class ModuleShard {
    private final String moduleName;
    private final List<Shard> shards;

    public ModuleShard(String moduleName, List<Shard> shards) {
        this.moduleName = moduleName;
        this.shards = shards;
    }

    public String getModuleName() {
        return moduleName;
    }

    public List<Shard> getShards() {
        return shards;
    }
}

private class Shard {
    private final String name;
    private final List<String> replicas;

    Shard(String name, List<String> replicas) {
        this.name = name;
        this.replicas = replicas;
    }

    public String getName() {
        return name;
    }

    public List<String> getReplicas() {
        return replicas;
    }
}
private class Module {

    private final String name;
    private final String nameSpace;
    private final ShardStrategy shardStrategy;

    Module(String name, String nameSpace, String shardStrategy) {
        this.name = name;
        this.nameSpace = nameSpace;
        if(ModuleShardStrategy.NAME.equals(shardStrategy)) {
            this.shardStrategy = new ModuleShardStrategy(name, ConfigurationImpl.this);
        } else {
            this.shardStrategy = new DefaultShardStrategy();
        }
    }

    public String getName() {
        return name;
    }

    public String getNameSpace() {
        return nameSpace;
    }

    public ShardStrategy getShardStrategy() {
        return shardStrategy;
    }

}

private static class ConfigObjectWrapper{

    private final ConfigObject configObject;

    ConfigObjectWrapper(ConfigObject configObject) {
        this.configObject = configObject;
    }

    public String stringValue(String name) {
        return configObject.get(name).unwrapped().toString();
    }

}*/

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package org.opendaylight.controller.cluster.datastore;

import java.util.LinkedList;
import java.util.Queue;
import java.util.concurrent.ExecutionException;
import java.util.concurrent.TimeUnit;
import org.opendaylight.controller.cluster.datastore.messages.CanCommitTransaction;
import org.opendaylight.controller.cluster.datastore.messages.CanCommitTransactionReply;
import org.opendaylight.controller.cluster.datastore.modification.Modification;
import org.opendaylight.controller.sal.core.spi.data.DOMStoreThreePhaseCommitCohort;
import org.slf4j.Logger;
import org.slf4j.LoggerFactory;
import akka.actor.ActorRef;
import akka.actor.Status;
import com.google.common.cache.Cache;
import com.google.common.cache.CacheBuilder;

/**
 * Coordinates commits for a shard ensuring only one concurrent 3-phase commit.
 *
 * @author Thomas Pantelis
 */
public class ShardCommitCoordinator {

    private static final Logger LOG = LoggerFactory.getLogger(ShardCommitCoordinator.class);

    private static final Object CAN_COMMIT_REPLY_TRUE =
        new CanCommitTransactionReply(Boolean.TRUE).toSerializable();

    private static final Object CAN_COMMIT_REPLY_FALSE =
        new CanCommitTransactionReply(Boolean.FALSE).toSerializable();

    private final Cache<String, CohortEntry> cohortCache;
    private CohortEntry currentCohortEntry;
    private final Queue<CohortEntry> queuedCohortEntries;
    private final int queueCapacity;

    public ShardCommitCoordinator(long cacheExpiryTimeoutInSec, int queueCapacity) {
        cohortCache = CacheBuilder.newBuilder().expireAfterAccess(
            cacheExpiryTimeoutInSec, TimeUnit.SECONDS).build();
    }
}
this.queueCapacity = queueCapacity;

    // We use a LinkedList here to avoid synchronization overhead with concurrent queue impls
    // since this should only be accessed on the shard's dispatcher.
    queuedCohortEntries = new LinkedList<>();
}

/**
 * This method caches a cohort entry for the given transactions ID in preparation for the
 * subsequent 3-phase commit.
 *
 * @param transactionID the ID of the transaction
 * @param cohort the cohort to participate in the transaction commit
 * @param modification the modification made by the transaction
 */
public void transactionReady(String transactionID, DOMStoreThreePhaseCommitCohort cohort,
                             Modification modification) {
    cohortCache.put(transactionID, new CohortEntry(transactionID, cohort, modification));
}

/**
 * This method handles the canCommit phase for a transaction.
 *
 * @param canCommit the CanCommitTransaction message
 * @param sender the actor that sent the message
 * @param shard the transaction's shard actor
 */
public void handleCanCommit(CanCommitTransaction canCommit, final ActorRef sender,
                             final ActorRef shard) {
    String transactionID = canCommit.getTransactionID();
    if(LOG.isDebugEnabled()) {
        LOG.debug("Processing canCommit for transaction {} for shard {}", transactionID, shard.path());
    }
    final CohortEntry cohortEntry = cohortCache.getIfPresent(transactionID);
    if(cohortEntry == null) {
        // Either canCommit was invoked before ready(shouldn't happen) or a long time passed
        // between canCommit and ready and the entry was expired from the cache.
        IllegalStateException ex = new IllegalStateException(String.format("No cohort entry found for transaction %s", transactionID));
        LOG.error(ex.getMessage());
        sender.tell(new Status.Failure(ex), shard);
        return;
    }

    // Lookup the cohort entry that was cached previously (or should have been) by
    // transactionReady (via the ForwardedReadyTransaction message).
    final CohortEntry cohortEntry = cohortCache.getIfPresent(transactionID);
    if(cohortEntry == null) {
        // Either canCommit was invoked before ready(shouldn't happen) or a long time passed
        // between canCommit and ready and the entry was expired from the cache.
        IllegalStateException ex = new IllegalStateException(String.format("No cohort entry found for transaction %s", transactionID));
        LOG.error(ex.getMessage());
        sender.tell(new Status.Failure(ex), shard);
        return;
    }

cohortEntry.setCanCommitSender(sender);
cohortEntry.setShard(shard);

if(currentCohortEntry != null) {
    // There's already a Tx commit in progress - attempt to queue this entry to be
    // committed after the current Tx completes.
    LOG.debug("Transaction {} is already in progress - queueing transaction {}",
             currentCohortEntry.getTransactionID(), transactionID);

    if(queuedCohortEntries.size() < queueCapacity) {
        queuedCohortEntries.offer(cohortEntry);
    } else {
        removeCohortEntry(transactionID);

        RuntimeException ex = new RuntimeException(
            String.format("Could not enqueue transaction %s - the maximum commit queue"+
             " capacity %d has been reached.",
             transactionID, queueCapacity));
        LOG.error(ex.getMessage());
        sender.tell(new Status.Failure(ex), shard);
    }
} else {
    // No Tx commit currently in progress - make this the current entry and proceed with
    // canCommit.
    cohortEntry.updateLastAccessTime();
    currentCohortEntry = cohortEntry;

    doCanCommit(cohortEntry);
}

private void doCanCommit(final CohortEntry cohortEntry) {
    try {
        // We block on the future here so we don't have to worry about possibly accessing our
        // state on a different thread outside of our dispatcher. Also, the data store
        // currently uses a same thread executor anyway.
        Boolean canCommit = cohortEntry.getCohort().canCommit().get();

        cohortEntry.getCanCommitSender().tell(
            canCommit ? CAN_COMMIT_REPLY_TRUE : CAN_COMMIT_REPLY_FALSE, 
            cohortEntry.getShard());

        if(!canCommit) {
            // Remove the entry from the cache now since the Tx will be aborted.
            removeCohortEntry(cohortEntry.getTransactionID());
        }
    }
}
```java
} catch (InterruptedException | ExecutionException e) {
    LOG.debug("An exception occurred during canCommit", e);

    // Remove the entry from the cache now since the Tx will be aborted.
    removeCohortEntry(cohortEntry.getTransactionID());
    cohortEntry.getCanCommitSender().tell(new Status.Failure(e), cohortEntry.getShard());
}
}

/**
 * Returns the cohort entry for the Tx commit currently in progress if the given transaction ID
 * matches the current entry.
 *
 * @param transactionID the ID of the transaction
 * @return the current CohortEntry or null if the given transaction ID does not match the
 *         current entry.
 */
public CohortEntry getCohortEntryIfCurrent(String transactionID) {
    if(isCurrentTransaction(transactionID)) {
        return currentCohortEntry;
    }
    return null;
}

public CohortEntry getCurrentCohortEntry() {
    return currentCohortEntry;
}

public CohortEntry getAndRemoveCohortEntry(String transactionID) {
    CohortEntry cohortEntry = cohortCache.getIfPresent(transactionID);
    cohortCache.invalidate(transactionID);
    return cohortEntry;
}

public void removeCohortEntry(String transactionID) {
    cohortCache.invalidate(transactionID);
}

public boolean isCurrentTransaction(String transactionID) {
    return currentCohortEntry != null &&
            currentCohortEntry.getTransactionID().equals(transactionID);
}

/**
 * This method is called when a transaction is complete, successful or not. If the given
 * given transaction ID matches the current in-progress transaction, the next cohort entry,
 * if any, is dequeued and processed.
 */
```
public void currentTransactionComplete(String transactionID, boolean removeCohortEntry) {
    if(removeCohortEntry) {
        removeCohortEntry(transactionID);
    }

    if(isCurrentTransaction(transactionID)) {
        // Dequeue the next cohort entry waiting in the queue.
        currentCohortEntry = queuedCohortEntries.poll();
        if(currentCohortEntry != null) {
            doCanCommit(currentCohortEntry);
        }
    }
}

static class CohortEntry {
    private final String transactionID;
    private final DOMStoreThreePhaseCommitCohort cohort;
    private final Modification modification;
    private ActorRef canCommitSender;
    private ActorRef shard;
    private long lastAccessTime;

    CohortEntry(String transactionID, DOMStoreThreePhaseCommitCohort cohort,
                Modification modification) {
        this.transactionID = transactionID;
        this.cohort = cohort;
        this.modification = modification;
    }

    void updateLastAccessTime() {
        lastAccessTime = System.currentTimeMillis();
    }

    long getLastAccessTime() {
        return lastAccessTime;
    }

    String getTransactionID() {
        return transactionID;
    }

    DOMStoreThreePhaseCommitCohort getCoherence() {
        return cohort;
    }
Modification getModification() {
    return modification;
}

ActorRef getCanCommitSender() {
    return canCommitSender;
}

void setCanCommitSender(ActorRef canCommitSender) {
    this.canCommitSender = canCommitSender;
}

ActorRef getShard() {
    return shard;
}

void setShard(ActorRef shard) {
    this.shard = shard;
}

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 */

package org.opendaylight.controller.cluster.datastore;

import akka.actor.ActorSelection;
import akka.dispatch.Futures;
import akka.dispatch.OnComplete;
import com.google.common.annotations.VisibleForTesting;
import com.google.common.collect.Lists;
import com.google.common.util.concurrent.ListenableFuture;
import com.google.common.util.concurrent.SettableFuture;
import org.opendaylight.controller.cluster.datastore.messages.AbortTransaction;
import org.opendaylight.controller.cluster.datastore.messages.AbortTransactionReply;
import org.opendaylight.controller.cluster.datastore.messages.CanCommitTransaction;
import org.opendaylight.controller.cluster.datastore.messages.CanCommitTransactionReply;
import org.opendaylight.controller.cluster.datastore.messages.CommitTransaction;
import org.opendaylight.controller.cluster.datastore.messages.CommitTransactionReply;
import org.opendaylight.controller.cluster.datastore.utils.ActorContext;
import org.opendaylight.controller.sal.core.spi.data.DOMStoreThreePhaseCommitCohort;
import org.slf4j.Logger;
import org.slf4j.LoggerFactory;
import scala.concurrent.Future;
import scala.runtime.AbstractFunction1;
import java.util.Collections;
import java.util.List;

/**
 * ThreePhaseCommitCohortProxy represents a set of remote cohort proxies
 */
public class ThreePhaseCommitCohortProxy implements DOMStoreThreePhaseCommitCohort{

    private static final Logger LOG = LoggerFactory.getLogger(ThreePhaseCommitCohortProxy.class);

    private static final ListenableFuture<Void> IMMEDIATE_SUCCESS =
        com.google.common.util.concurrent.Futures.immediateFuture(null);

    private final ActorContext actorContext;
    private final List<Future<ActorSelection>> cohortFutures;
    private volatile List<ActorSelection> cohorts;
    private final String transactionId;

    public ThreePhaseCommitCohortProxy(ActorContext actorContext,
        List<Future<ActorSelection>> cohortFutures, String transactionId) {
        this.actorContext = actorContext;
        this.cohortFutures = cohortFutures;
        this.transactionId = transactionId;
    }

    private Future<Void> buildCohortList() {
        Future<Iterable<ActorSelection>> combinedFutures = Futures.sequence(cohortFutures,
            actorContext.getActorSystem().dispatcher());

        return combinedFutures.transform(new AbstractFunction1<Iterable<ActorSelection>, Void>() {
            @Override
            public Void apply(Iterable<ActorSelection> actorSelections) {
                cohorts = Lists.newArrayList(actorSelections);
                if(LOG.isDebugEnabled()) {
                    LOG.debug("Tx {} successfully built cohort path list: ",
                        transactionId, cohorts);
                }
                return null;
            }
        }), TransactionProxy.SAME_FAILURE_TRANSFORMER, actorContext.getActorSystem().dispatcher());
    }

    @Override
    public void apply(Iterable<ActorSelection> actorSelections) {
        cohorts = Lists.newArrayList(actorSelections);
        if(LOG.isDebugEnabled()) {
            LOG.debug("Tx {} successfully built cohort path list: ",
                transactionId, cohorts);
        }
        return null;
    }
}
public ListenableFuture<Boolean> canCommit() {
    if(LOG.isDebugEnabled()) {
        LOG.debug("Tx {} canCommit", transactionId);
    }
    final SettableFuture<Boolean> returnFuture = SettableFuture.create();

    // The first phase of canCommit is to gather the list of cohort actor paths that will
    // participate in the commit. buildCohortPathsList combines the cohort path Futures into
    // one Future which we wait on asynchronously here. The cohort actor paths are
    // extracted from ReadyTransactionReply messages by the Futures that were obtained earlier
    // and passed to us from upstream processing. If any one fails then we'll fail canCommit.

    buildCohortList().onComplete(new OnComplete<Void>() {
        @Override
        public void onComplete(Throwable failure, Void notUsed) throws Throwable {
            if(failure != null) {
                if(LOG.isDebugEnabled()) {
                    LOG.debug("Tx {}: a cohort Future failed: {}", transactionId, failure);
                }
                returnFuture.setException(failure);
            } else {
                finishCanCommit(returnFuture);
            }
        }, actorContext.getActorSystem().dispatcher());
    return returnFuture;
}

private void finishCanCommit(final SettableFuture<Boolean> returnFuture) {
    if(LOG.isDebugEnabled()) {
        LOG.debug("Tx {} finishCanCommit", transactionId);
    }
    // The last phase of canCommit is to invoke all the cohort actors asynchronously to perform
    // their canCommit processing. If any one fails then we'll fail canCommit.

    Future<Iterable<Object>> combinedFuture =
    invokeCohorts(new CanCommitTransaction(transactionId).toSerializable());

    combinedFuture.onComplete(new OnComplete<Iterable<Object>>() {
        @Override
        public void onComplete(Throwable failure, Iterable<Object> responses) throws Throwable {
            if(failure != null) {
                if(LOG.isDebugEnabled()) {
                    LOG.debug("Tx {} a canCommit cohort Future failed: {}", transactionId, failure);
                }
                returnFuture.setException(failure);
            }
            return;
        }, actorContext.getActorSystem().dispatcher());
    });
boolean result = true;
for (Object response: responses) {
    if (response.getClass().equals(CanCommitTransactionReply.SERIALIZABLE_CLASS)) {
        CanCommitTransactionReply reply = CanCommitTransactionReply.fromSerializable(response);
        if (!reply.getCanCommit()) {
            result = false;
            break;
        }
    } else {
        LOG.error("Unexpected response type {}", response.getClass());
        returnFuture.setException(new IllegalArgumentException(String.format("Unexpected response type {}", response.getClass())));
        return;
    }
}
if (LOG.isDebugEnabled()) {
    LOG.debug("Tx {}: canCommit returning result: {}", transactionId, result);
    returnFuture.set(Boolean.valueOf(result));
}
}, actorContext.getActorSystem().dispatcher());

private Future<Iterable<Object>> invokeCohorts(Object message) {
    List<Future<Object>> futureList = Lists.newArrayListWithCapacity(cohorts.size());
    for (ActorSelection cohort : cohorts) {
        if (LOG.isDebugEnabled()) {
            LOG.debug("Tx {}: Sending {} to cohort {}", transactionId, message, cohort);
        }
        futureList.add(actorContext.executeOperationAsync(cohort, message));
    }
    return Futures.sequence(futureList, actorContext.getActorSystem().dispatcher());
}

@Override
public ListenableFuture<Void> preCommit() {
    // We don't need to do anything here - preCommit is done atomically with the commit phase
    // by the shard.
    return IMMEDIATE_SUCCESS;
}

@Override
public ListenableFuture<Void> abort() {

// Note - we pass false for propagateException. In the front-end data broker, this method
// is called when one of the 3 phases fails with an exception. We'd rather have that
// original exception propagated to the client. If our abort fails and we propagate the
// exception then that exception will supersede and suppress the original exception. But
// it's the original exception that is the root cause and of more interest to the client.

return voidOperation("abort", new AbortTransaction(transactionId).toSerializable(),
    AbortTransactionReply.SERIALIZABLE_CLASS, false);
)

@Override
public ListenableFuture<Void> commit() {
    return voidOperation("commit", new CommitTransaction(transactionId).toSerializable(),
        CommitTransactionReply.SERIALIZABLE_CLASS, true);
}

private ListenableFuture<Void> voidOperation(final String operationName, final Object message,
    final Class<?> expectedResponseClass, final boolean propagateException) {

    if(LOG.isDebugEnabled()) {
        LOG.debug("Tx {} ", transactionId, operationName);
    }
    final SettableFuture<Void> returnFuture = SettableFuture.create();

    // The cohort actor list should already be built at this point by the canCommit phase but,
    // if not for some reason, we'll try to build it here.

    if(cohorts != null) {
        finishVoidOperation(operationName, message, expectedResponseClass, propagateException,
            returnFuture);
    } else {
        buildCohortList().onComplete(new OnComplete<Void>() {
            @Override
            public void onComplete(Throwable failure, Void notUsed) throws Throwable {
                if(failure != null) {
                    if(LOG.isDebugEnabled()) {
                        LOG.debug("Tx {} a {} cohort path Future failed: {}", transactionId,
                            operationName, failure);
                    }
                    if(propagateException) {
                        returnFuture.setException(failure);
                    } else {
                        returnFuture.set(null);
                    }
                } else {
                    finishVoidOperation(operationName, message, expectedResponseClass,
                        propagateException, returnFuture);
                }
            }
        });
    }
}
private void finishVoidOperation(final String operationName, final Object message,
    final Class<?> expectedResponseClass, final boolean propagateException,
    final SettableFuture<Void> returnFuture) {
if(LOG.isDebugEnabled()) {
  LOG.debug("Tx {} finish {}", transactionId, operationName);
}
Future<Iterable<Object>> combinedFuture = invokeCohorts(message);

combinedFuture.onComplete(new OnComplete<Iterable<Object>>() {
  @Override
  public void onComplete(Throwable failure, Iterable<Object> responses) throws Throwable {
    Throwable exceptionToPropagate = failure;
    if(exceptionToPropagate == null) {
      for(Object response: responses) {
        if(!response.getClass().equals(expectedResponseClass)) {
          exceptionToPropagate = new IllegalArgumentException(
            String.format("Unexpected response type {}", response.getClass()));
          break;
        }
      }
    }
    if(exceptionToPropagate != null) {
      if(LOG.isDebugEnabled()) {
        LOG.debug("Tx {}: a {} cohort Future failed: ", transactionId,
          operationName, exceptionToPropagate);
      }
      if(propagateException) {
        // We don't log the exception here to avoid redundant logging since we're
        // propagating to the caller in MD-SAL core who will log it.
        returnFuture.setException(exceptionToPropagate);
      } else {
        // Since the caller doesn't want us to propagate the exception we'll also
        // not log it normally. But it's usually not good to totally silence
        // exceptions so we'll log it to debug level.
        if(LOG.isDebugEnabled()) {
          LOG.debug(String.format("%s failed", message.getClass().getSimpleName()),
            exceptionToPropagate);
        }
      }
    }
  }
});
returnFuture.set(null);
}
} else {
  if(LOG.isDebugEnabled()) {
    LOG.debug("Tx {}: {} succeeded", transactionId, operationName);
  }
  returnFuture.set(null);
}
}, actorContext.getActorSystem().dispatcher());
}

@VisibleForTesting
List<Future<ActorSelection>> getCohortFutures() {
  return Collections.unmodifiableList(cohortFutures);
}
}

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 */

package org.opendaylight.controller.cluster.datastore;

import akka.actor.ActorRef;
import akka.actor.ActorSystem;
import akka.cluster.Cluster;
import akka.cluster.ClusterEvent;
import com.google.common.base.Preconditions;
public class ClusterWrapperImpl implements ClusterWrapper {
  private final Cluster cluster;
  private final String currentMemberName;
  private final String selfAddress;
  public ClusterWrapperImpl(ActorSystem actorSystem) {
    Preconditions.checkNotNull(actorSystem, "actorSystem should not be null");
    cluster = Cluster.get(actorSystem);
    Preconditions.checkState(cluster.getSelfRoles().size() > 0,
    "No akka roles were specified\n" +
    "One way to specify the member name is to pass a property on the command line like so\n" +
    "  -Dakka.cluster.roles.0=member-3\n" +
    "member-3 here would be the name of the member"
currentMemberName = (String) cluster.getSelfRoles().toArray()[0];
selfAddress = cluster.selfAddress().toString();

public void subscribeToMemberEvents(ActorRef actorRef){
    Preconditions.checkNotNull(actorRef, "actorRef should not be null");
    cluster.subscribe(actorRef, ClusterEvent.initialStateAsEvents(),
    ClusterEvent.MemberEvent.class,
    ClusterEvent.UnreachableMember.class);
}

public String getCurrentMemberName() {
    return currentMemberName;
}

public String getSelfAddress() {
    return selfAddress;
}

7.167 sal-dom-xsql 1.1.1-Helium-SR1

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7.168 sal-inmemory-datastore 1.1.1-Helium-SR1

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7.169 sal-netconf-connector 1.1.1-Helium-SR1

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7.171 sal-remoterpc-connector 1.1.1-Helium-SR1

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 */
package org.opendaylight.controller.remote.rpc.registry.gossip;

import java.io.Serializable;
public class BucketImpl<T extends Copier<T>> implements Bucket<T>, Serializable {

    private Long version = System.currentTimeMillis();

    private T data;

    @Override
    public Long getVersion() {
        return version;
    }

    @Override
    public T getData() {
        if (this.data == null)
            return null;

        return data.copy();
    }

    public void setData(T data){
        this.version = System.currentTimeMillis()+1;
        this.data = data;
    }

    @Override
    public String toString() {
        return "BucketImpl{" +
                "version=" + version +
                ", data=" + data +
                "}";
    }
}

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*/
package org.opendaylight.controller.remote.rpc;

import com.google.common.base.Preconditions;
import org.opendaylight.controller.sal.connector.api.RpcRouter;
import org.opendaylight.yangtools.yang.common.QName;
import java.io.Serializable;

import java.io.Serializable;}
public class RouteIdentifierImpl implements RpcRouter.RouteIdentifier<QName, QName, YangInstanceIdentifier>, Serializable {
    private static final long serialVersionUID = 1L;

    private final QName context;
    private final QName type;
    private final YangInstanceIdentifier route;

    public RouteIdentifierImpl(final QName context, final QName type, final YangInstanceIdentifier route) {
        Preconditions.checkNotNull(type, "Rpc type should not be null");
        this.context = context;
        this.type = type;
        this.route = route;
    }

    @Override
    public QName getContext() {
        return this.context;
    }

    @Override
    public QName getType() {
        return this.type;
    }

    @Override
    public YangInstanceIdentifier getRoute() {
        return this.route;
    }

    @Override
    public boolean equals(Object o) {
        if (this == o) return true;
        if (o == null || getClass() != o.getClass()) return false;
        RouteIdentifierImpl that = (RouteIdentifierImpl) o;
        if (context == null){
            if (that.getContext() != null) return false;
        } else if (!context.equals(that.context)) return false;
        if (route == null){
            if (that.getRoute() != null) return false;
        } else if (!route.equals(that.route)) return false;

        return true;
    }
}
if (type == null)
if (that.getType() != null) return false;
else
if (!type.equals(that.type)) return false;

return true;
}

@Override
public int hashCode() {
int prime = 31;
int result = 0;
result = prime * result + (context == null ? 0:context.hashCode());
result = prime * result + (type == null ? 0:type.hashCode());
result = prime * result + (route == null ? 0:route.hashCode());
return result;
}

@Override
public String toString() {
return "RouteIdentifierImpl{" +
"context=" + context +
", type=" + type +
", route=" + route +
'}';
}

7.172 sal-rest-connector 1.1.1-Helium-SR1

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 */

import com.google.common.collect.ImmutableSet;
import java.util.HashSet;
import java.util.Set;
import javax.ws.rs.core.Application;
import org.opendaylight.controller.sal.restconf.impl.BrokerFacade;
import org.opendaylight.controller.sal.restconf.impl.ControllerContext;
import org.opendaylight.controller.sal.restconf.impl.RestconfImpl;
import org.opendaylight.controller.sal.restconf.impl.StatisticsRestconfServiceWrapper;

public class RestconfApplication extends Application {

    @Override
    public Set<Class<?>> getClasses() {
        return ImmutableSet.<Class<?>> builder()
            .add(RestconfDocumentedExceptionMapper.class)
            .add(XmlNormalizedNodeBodyReader.class)
            .add(JsonNormalizedNodeBodyReader.class)
            .add(NormalizedNodeJsonBodyWriter.class)
            .add(NormalizedNodeXmlBodyWriter.class)
            .build();
    }

    @Override
    public Set<Object> getSingletons() {
        Set<Object> singletons = new HashSet<>();
        ControllerContext controllerContext = ControllerContext.getInstance();
        BrokerFacade brokerFacade = BrokerFacade.getInstance();
        RestconfImpl restconfImpl = RestconfImpl.getInstance();
        restconfImpl.setBroker(brokerFacade);
        restconfImpl.setControllerContext(controllerContext);
        singletons.add(controllerContext);
        singletons.add(brokerFacade);
        singletons.add(StatisticsRestconfServiceWrapper.getInstance());
        singletons.add(StructuredDataToXmlProvider.INSTANCE);
        singletons.add(StructuredDataToJsonProvider.INSTANCE);
        singletons.add(JsonToCompositeNodeProvider.INSTANCE);
        singletons.add(XmlToCompositeNodeProvider.INSTANCE);
        return singletons;
    }
}

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 *
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 */
package org.opendaylight.controller.sal.restconf.impl;

import org.opendaylight.controller.config.yang.md.sal.rest.connector.Config;
import org.opendaylight.controller.config.yang.md.sal.rest.connector.Get;
import org.opendaylight.controller.config.yang.md.sal.rest.connector.Operational;
import org.opendaylight.controller.config.yang.md.sal.rest.connector.Post;
```java
import org.opendaylight.controller.config.yang.md.sal.rest.connector.Put;
import org.opendaylight.controller.config.yang.md.sal.rest.connector.RestConnectorRuntimeMXBean;
import org.opendaylight.controller.config.yang.md.sal.rest.connector.Rpcs;
import org.opendaylight.controller.config.yang.md.sal.rest.connector.md.sal.dom.api.DOMDataBroker;
import org.opendaylight.controller.config.yang.md.sal.rest.connector.md.sal.dom.api.DOMMountPointService;
import org.opendaylight.controller.config.yang.md.sal.rest.connector.sal.core.api.Broker.ProviderSession;
import org.opendaylight.controller.config.yang.md.sal.rest.connector.sal.core.api.Provider;
import org.opendaylight.controller.config.yang.md.sal.rest.connector.sal.core.api.model.SchemaService;
import org.opendaylight.controller.config.yang.md.sal.rest.connector.sal.rest.api.RestConnector;
import org.opendaylight.controller.config.yang.md.sal.rest.connector.sal.streams.websockets.WebSocketServer;
import org.opendaylight.yang.gen.v1.urn.ietf.params.xml.ns.yang.ietf.inet.types.rev100924.PortNumber;
import org.opendaylight.yangtools.concepts.ListenerRegistration;
import org.opendaylight.yangtools.yang.model.api.SchemaContextListener;
import java.math.BigInteger;
import java.util.Collection;
import java.util.Collections;

public class RestconfProviderImpl implements Provider, AutoCloseable, RestConnector,
RestConnectorRuntimeMXBean {

private final StatisticsRestconfServiceWrapper stats = StatisticsRestconfServiceWrapper.getInstance();
private ListenerRegistration<SchemaContextListener> listenerRegistration;
private PortNumber port;
private Thread webSocketServerThread;

public void setWebsocketPort(PortNumber port) {
    this.port = port;
}

@Override
public void onSessionInitiated(ProviderSession session) {
    final DOMDataBroker domDataBroker = session.getService(DOMDataBroker.class);
    BrokerFacade.getInstance().setContext(session);
    BrokerFacade.getInstance().setDomDataBroker(domDataBroker);
    SchemaService schemaService = session.getService(SchemaService.class);
    listenerRegistration = schemaService.registerSchemaContextListener(ControllerContext.getInstance());
    ControllerContext.getInstance().setSchemas(schemaService.getGlobalContext());
    ControllerContext.getInstance().setMountService(session.getService(DOMMountPointService.class));
    webSocketServerThread = new Thread(WebSocketServer.createInstance(port.getValue().intValue()));
    webSocketServerThread.setName("Web socket server on port " + port);
    webSocketServerThread.start();
}

@Override
```
public Collection<ProviderFunctionality> getProviderFunctionality() {
    return Collections.emptySet();
}

@Override
public void close() {
    if (listenerRegistration != null) {
        listenerRegistration.close();
    }

    WebSocketServer.destroyInstance();
    webSocketServerThread.interrupt();
}

@Override
public Config getConfig() {
    Config config = new Config();
    Get get = new Get();
    get.setReceivedRequests(stats.getConfigGet());
    config.setGet(get);
    Post post = new Post();
    post.setReceivedRequests(stats.getConfigPost());
    config.setPost(post);
    Put put = new Put();
    put.setReceivedRequests(stats.getConfigPut());
    config.setPut(put);
    return config;
}

@Override
public Operational getOperational() {
    BigInteger opGet = stats.getOperationalGet();
    Operational operational = new Operational();
    Get get = new Get();
    get.setReceivedRequests(opGet);
    operational.setGet(get);
    return operational;
}

@Override
public Rpcs getRpcs() {
    BigInteger rpcInvoke = stats.getRpc();
    Rpcs rpcs = new Rpcs();
    rpcs.setReceivedRequests(rpcInvoke);
    return rpcs;
}
import com.google.common.base.Preconditions;
import java.net.URI;
import org.opendaylight.openaylight.yangtools.yang.common.QName;
import org.opendaylight.openaylight.yangtools.yang.data.api.CompositeNode;
import org.opendaylight.openaylight.yangtools.yang.data.api.ModifyAction;
import org.opendaylight.openaylight.yangtools.yang.data.api.MutableSimpleNode;
import org.opendaylight.openaylight.yangtools.yang.data.api.SimpleNode;
import org.opendaylight.yangtools.yang.data.impl.NodeFactory;

public final class SimpleNodeWrapper implements NodeWrapper<SimpleNode<?>>, SimpleNode<Object> {

    private SimpleNode<Object> simpleNode;

    private String localName;
    private Object value;
    private URI namespace;
    private QName name;

    public SimpleNodeWrapper(final String localName, final Object value) {
        this.localName = Preconditions.checkNotNull(localName);
        this.value = value;
    }

    public SimpleNodeWrapper(final URI namespace, final String localName, final Object value) {
        this(localName, value);
        this.namespace = namespace;
    }

    @Override
    public void setQname(final QName name) {
        Preconditions.checkState(simpleNode == null, "Cannot change the object, due to data inconsistencies.");
        this.name = name;
    }

    @Override
    public QName getQname() {
        return name;
    }

    @Override
    public QName getQname() {
        return name;
    }

    @Override
    public void setQname(final QName name) {
        Preconditions.checkState(simpleNode == null, "Cannot change the object, due to data inconsistencies.");
        this.name = name;
    }

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    public QName getQname() {
        return name;
    }

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        this.value = value;
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        this(localName, value);
        this.namespace = namespace;
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        this.value = value;
    }

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        this(localName, value);
        this.namespace = namespace;
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        this.value = value;
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        this(localName, value);
        this.namespace = namespace;
    }

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        this.value = value;
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        this(localName, value);
        this.namespace = namespace;
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        this.value = value;
    }

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        this(localName, value);
        this.namespace = namespace;
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    }

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        this(localName, value);
        this.namespace = namespace;
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        this.localName = Preconditions.checkNotNull(localName);
        this.value = value;
    }

    public SimpleNodeWrapper(final URI namespace, final String localName, final Object value) {
        this(localName, value);
        this.namespace = namespace;
    }

    @Override
    public QName getQname() {
        return name;
    }

    @Override
    public QName getQname() {
        return name;
    }

    @Override
    public QName getQname() {
@Override
public String getLocalName() {
    if (simpleNode != null) {
        return simpleNode.getNodeType().getLocalName();
    }
    return localName;
}

@Override
public URI getNamespace() {
    if (simpleNode != null) {
        return simpleNode.getNodeType().getNamespace();
    }
    return namespace;
}

@Override
public void setNamespace(final URI namespace) {
    Preconditions.checkState(simpleNode == null, "Cannot change the object, due to data inconsistencies.");
    this.namespace = namespace;
}

@Override
public boolean isChangeAllowed() {
    return simpleNode == null ? true : false;
}

@Override
public SimpleNode<Object> unwrap() {
    if (simpleNode == null) {
        if (name == null) {
            Preconditions.checkNotNull(namespace);
            name = new QName(namespace, localName);
        }
        simpleNode = NodeFactory.createImmutableSimpleNode(name, null, value);
    }
    value = null;
    namespace = null;
    localName = null;
    name = null;
    return simpleNode;
}

@Override
public QName getNodeType() {
    return unwrap().getNodeType();
}
@Override
@Deprecated
public CompositeNode getParent() {
    return unwrap().getParent();
}

@Override
public Object getValue() {
    return unwrap().getValue();
}

@Override
@Deprecated
public ModifyAction getModificationAction() {
    return unwrap().getModificationAction();
}

@Override
public MutableSimpleNode<Object> asMutable() {
    return unwrap().asMutable();
}

@Override
public QName getKey() {
    return unwrap().getKey();
}

@Override
public Object setValue(final Object value) {
    return unwrap().setValue(value);
}

}
import org.opendaylight.yangtools.yang.data.api.SimpleNode;
import org.opendaylight.yangtools.yang.data.api.YangInstanceIdentifier;
import org.opendaylight.yangtools.yang.data.api.YangInstanceIdentifier.InstanceIdentifierBuilder;
import org.opendaylight.yangtools.yang.data.api.YangInstanceIdentifier.NodeIdentifierWithPredicates;
import org.opendaylight.yangtools.yang.data.api.YangInstanceIdentifier.PathArgument;
import org.opendaylight.yangtools.yang.data.impl.immutable.NormalizedNode;
import org.opendaylight.yangtools.yang.data.impl.immutable.NodeFactory;
import org.opendaylight.yangtools.yang.data.impl.ImmutableCompositeNode;
import org.opendaylight.yangtools.yang.data.impl.immutable.AnyXmlSchemaNode;
import org.opendaylight.yangtools.yang.data.impl.immutable.DataNodeContainer;
import org.opendaylight.yangtools.yang.data.impl.immutable.DataSchemaNode;
import org.opendaylight.yangtools.yang.data.impl.immutable.FeatureDefinition;
import org.opendaylight.yangtools.yang.data.impl.immutable.LeafListSchemaNode;
import org.opendaylight.yangtools.yang.data.impl.immutable.LeafSchemaNode;
import org.opendaylight.yangtools.yang.data.impl.immutable.ListSchemaNode;
import org.opendaylight.yangtools.yang.data.impl.immutable.Module;
import org.opendaylight.yangtools.yang.data.impl.immutable.RpcDefinition;
import org.opendaylight.yangtools.yang.data.impl.immutable.SchemaContext;
import org.opendaylight.yangtools.yang.data.impl.immutable.SchemaPath;
import org.opendaylight.yangtools.yang.data.impl.immutable.TypeDefinition;
import org.opendaylight.yangtools.yang.data.impl.immutable.IdentityrefTypeDefinition;
import org.opendaylight.yangtools.yang.data.impl.immutable.EmptyType;
import org.opendaylight.yangtools.yang.parser.builder.impl.ContainerSchemaNodeBuilder;
import org.opendaylight.yangtools.yang.parser.builder.impl.LeafSchemaNodeBuilder;
import org.slf4j.Logger;
import org.slf4j.LoggerFactory;

public class RestconfImpl implements RestconfService {

private enum UriParameters {
    PRETTY_PRINT("prettyPrint"),
    DEPTH("depth");

    private String uriParameterName;

    UriParameters(final String uriParameterName) { this.uriParameterName = uriParameterName; }

    @Override
    public String toString() { return uriParameterName; }
}

private String uriParameterName;

UriParameters(final String uriParameterName) { this.uriParameterName = uriParameterName; }

@Override
public String toString() { return uriParameterName; }
}
private final static RestconfImpl INSTANCE = new RestconfImpl();

private static final int NOTIFICATION_PORT = 8181;

private static final int CHAR_NOT_FOUND = -1;

private final static String MOUNT_POINT_MODULE_NAME = "ietf-netconf";

private final static SimpleDateFormat REVISION_FORMAT = new SimpleDateFormat("yyyy-MM-dd");


private final static String SAL_REMOTE_RPC_SUBSCRIBE = "create-data-change-event-subscription";

private BrokerFacade broker;

private ControllerContext controllerContext;

private static final Logger LOG = LoggerFactory.getLogger(RestconfImpl.class);

private static final DataChangeScope DEFAULT_SCOPE = DataChangeScope.BASE;

private static final LogicalDatastoreType DEFAULT_DATASTORE = LogicalDatastoreType.CONFIGURATION;

private static final URI NAMESPACE_EVENT_SUBSCRIPTION_AUGMENT = URI.create("urn:sal:restconf:event:subscription");

private static final Date EVENT_SUBSCRIPTION_AUGMENT_REVISION;

private static final String DATASTORE_PARAM_NAME = "datastore";

private static final String SCOPE_PARAM_NAME = "scope";

private static final String NETCONF_BASE = "urn:ietf:params:xml:ns:netconf:base:1.0";

private static final String NETCONF_BASE_PAYLOAD_NAME = "data";

private static final QName NETCONF_BASE_QNAME;

static {
    try {
        EVENT_SUBSCRIPTION_AUGMENT_REVISION = new SimpleDateFormat("yyyy-MM-dd").parse("2014-07-08");
    }
NETCONF_BASE_QNAME = QName.create(QNameModule.create(new URI(NETCONF_BASE), null),
NETCONF_BASE_PAYLOAD_NAME);
} catch (ParseException e) {
    throw new RestconfDocumentedException(
        "It wasn't possible to convert revision date of sal-remote-augment to date", ErrorType.APPLICATION,
        ErrorTag.OPERATION_FAILED);
} catch (URISyntaxException e) {
    throw new RestconfDocumentedException(
        "It wasn't possible to create instance of URI class with "+NETCONF_BASE+" URI",
        ErrorType.APPLICATION,
        ErrorTag.OPERATION_FAILED);
}

public void setBroker(final BrokerFacade broker) {
    this.broker = broker;
}

public void setControllerContext(final ControllerContext controllerContext) {
    this.controllerContext = controllerContext;
}

private RestconfImpl() {
}

public static RestconfImpl getInstance() {
    return INSTANCE;
}

@Override
public StructuredData getModules(final UriInfo uriInfo) {
    final Module restconfModule = this.getRestconfModule();

    final List<Node<?>> modulesAsData = new ArrayList<Node<?>>();
    final DataSchemaNode moduleSchemaNode =
    controllerContext.getRestconfModuleRestConfSchemaNode(restconfModule,
        Draft02.RestConfModule.MODULE_LIST_SCHEMA_NODE);

    Set<Module> allModules = this.controllerContext.getAllModules();
    for (final Module module : allModules) {
        CompositeNode moduleCompositeNode = this.toModuleCompositeNode(module, moduleSchemaNode);
        modulesAsData.add(moduleCompositeNode);
    }

    final DataSchemaNode modulesSchemaNode =
    controllerContext.getRestconfModuleRestConfSchemaNode(restconfModule,
        Draft02.RestConfModule.MODULES_CONTAINER_SCHEMA_NODE);
    QName qName = modulesSchemaNode.getQName();
final CompositeNode modulesNode = NodeFactory.createImmutableCompositeNode(qName, null, modulesAsData);
return new StructuredData(modulesNode, modulesSchemaNode, null, parsePrettyPrintParameter(uriInfo));
}

@Override
public StructuredData getAvailableStreams(final UriInfo uriInfo) {
Set<String> availableStreams = Notificator.getStreamNames();

final List<Node<?>> streamsAsData = new ArrayList<Node<?>>();
Module restconfModule = this.getRestconfModule();
final DataSchemaNode streamSchemaNode =
controllerContext.getRestconfModuleRestConfSchemaNode(restconfModule, Draft02.RestConfModule.STREAM_LIST_SCHEMA_NODE);
for (final String streamName : availableStreams) {
    streamsAsData.add(this.toStreamCompositeNode(streamName, streamSchemaNode));
}

final DataSchemaNode streamsSchemaNode =
controllerContext.getRestconfModuleRestConfSchemaNode(restconfModule, Draft02.RestConfModule.STREAMS_CONTAINER_SCHEMA_NODE);
QName qName = streamsSchemaNode.getQName();
final CompositeNode streamsNode = NodeFactory.createImmutableCompositeNode(qName, null, streamsAsData);
return new StructuredData(streamsNode, streamsSchemaNode, null, parsePrettyPrintParameter(uriInfo));
}

@Override
public StructuredData getModules(final String identifier, final UriInfo uriInfo) {
Set<Module> modules = null;
DOMMountPoint mountPoint = null;
if (identifier.contains(ControllerContext.MOUNT)) {
    InstanceIdentifierContext mountPointIdentifier = this.controllerContext.toMountPointIdentifier(identifier);
    mountPoint = mountPointIdentifier.getMountPoint();
    modules = this.controllerContext.getAllModules(mountPoint);
} else {
    throw new RestconfDocumentedException("URI has bad format. If modules behind mount point should be showed, URI has to end with " + ControllerContext.MOUNT, ErrorType.PROTOCOL, ErrorTag.INVALID_VALUE);
}

final List<Node<?>> modulesAsData = new ArrayList<Node<?>>();
Module restconfModule = this.getRestconfModule();
final DataSchemaNode moduleSchemaNode =
controllerContext.getRestconfModuleRestConfSchemaNode(restconfModule, Draft02.RestConfModule.MODULE_LIST_SCHEMA_NODE);
for (final Module module : modules) {
modulesAsData.add(this.toModuleCompositeNode(module, moduleSchemaNode));
}

final DataSchemaNode modulesSchemaNode =
controllerContext.getRestconfModuleRestConfSchemaNode(restconfModule,
    Draft02.RestConfModule.MODULES_CONTAINER_SCHEMA_NODE);
QName qName = modulesSchemaNode.getQName();
final CompositeNode modulesNode = NodeFactory.createImmutableCompositeNode(qName, null,
modulesAsData);
return new StructuredData(modulesNode, modulesSchemaNode, mountPoint,
parsePrettyPrintParameter(uriInfo));
}

@Override
public StructuredData getModule(final String identifier, final UriInfo uriInfo) {
    final QName moduleNameAndRevision = this.getModuleNameAndRevision(identifier);
    Module module = null;
    DOMMountPoint mountPoint = null;
    if (identifier.contains(ControllerContext.MOUNT)) {
        InstanceIdentifierContext mountPointIdentifier = this.controllerContext.toMountPointIdentifier(identifier);
        mountPoint = mountPointIdentifier.getMountPoint();
        module = this.controllerContext.findModuleByNameAndRevision(mountPoint, moduleNameAndRevision);
    } else {
        module = this.controllerContext.findModuleByNameAndRevision(moduleNameAndRevision);
    }

    if (module == null) {
        throw new RestconfDocumentedException("Module with name " +
            moduleNameAndRevision.getLocalName() + " and revision " + moduleNameAndRevision.getRevision() + ",
            ErrorType.PROTOCOL, ErrorTag.UNKNOWN_ELEMENT);
    }

    Module restconfModule = this.getRestconfModule();
    final DataSchemaNode moduleSchemaNode =
    controllerContext.getRestconfModuleRestConfSchemaNode(restconfModule,
        Draft02.RestConfModule.MODULE_LIST_SCHEMA_NODE);
    final CompositeNode moduleNode = this.toModuleCompositeNode(module, moduleSchemaNode);
    return new StructuredData(moduleNode, moduleSchemaNode, mountPoint,
        parsePrettyPrintParameter(uriInfo));
}

@Override
public StructuredData getOperations(final UriInfo uriInfo) {
    Set<Module> allModules = this.controllerContext.getAllModules();
    return this.operationsFromModulesToStructuredData(allModules, null, parsePrettyPrintParameter(uriInfo));
}
@Override
public StructuredData getOperations(final String identifier, final UriInfo uriInfo) {
    Set<Module> modules = null;
    DOMMountPoint mountPoint = null;
    if (identifier.contains(ControllerContext.MOUNT)) {
        InstanceIdentifierContext mountPointIdentifier = this.controllerContext.toMountPointIdentifier(identifier);
        mountPoint = mountPointIdentifier.getMountPoint();
        modules = this.controllerContext.getAllModules(mountPoint);
    } else {
        throw new RestconfDocumentedException(
            "URI has bad format. If operations behind mount point should be showed, URI has to end with " + ControllerContext.MOUNT, ErrorType.PROTOCOL, ErrorTag.INVALID_VALUE);
    }

    return this.operationsFromModulesToStructuredData(modules, mountPoint, parsePrettyPrintParameter(uriInfo));
}

private StructuredData operationsFromModulesToStructuredData(final Set<Module> modules, final DOMMountPoint mountPoint, final boolean prettyPrint) {
    final List<Node<?>> operationsAsData = new ArrayList<Node<?>>();
    Module restconfModule = this.getRestconfModule();
    final DataSchemaNode operationsSchemaNode = controllerContext.getRestconfModuleRestConfSchemaNode(restconfModule, Draft02.RestConfModule.OPERATIONS_CONTAINER_SCHEMA_NODE);
    QName qName = operationsSchemaNode.getQName();
    SchemaPath path = operationsSchemaNode.getPath();
    ContainerSchemaNodeBuilder containerSchemaNodeBuilder = new ContainerSchemaNodeBuilder(Draft02.RestConfModule.NAME, 0, qName, path);
    final ContainerSchemaNodeBuilder fakeOperationsSchemaNode = containerSchemaNodeBuilder;
    for (final Module module : modules) {
        Set<RpcDefinition> rpcs = module.getRpcs();
        for (final RpcDefinition rpc : rpcs) {
            QName rpcQName = rpc.getQName();
            SimpleNode<Object> immutableSimpleNode = NodeFactory.<Object>createImmutableSimpleNode(rpcQName, null, null);
            operationsAsData.add(immutableSimpleNode);
            String name = module.getName();
            LeafSchemaNodeBuilder leafSchemaNodeBuilder = new LeafSchemaNodeBuilder(name, 0, rpcQName, SchemaPath.create(true, QName.create("dummy")));
            final LeafSchemaNodeBuilder fakeRpcSchemaNode = leafSchemaNodeBuilder;
            fakeRpcSchemaNode.setAugmenting(true);
            EmptyType instance = EmptyType.getInstance();
            fakeRpcSchemaNode.setType(instance);
            fakeOperationsSchemaNode.addChildNode(fakeRpcSchemaNode.build());
        }
    }

    return this.operationsFromModulesToStructuredData(modules, mountPoint, parsePrettyPrintParameter(uriInfo));
}
private Module getRestconfModule() {
    Module restconfModule = controllerContext.getRestconfModule();
    if (restconfModule == null) {
        throw new RestconfDocumentedException("ietf-restconf module was not found.",
            ErrorType.APPLICATION,
            ErrorTag.OPERATION_NOT_SUPPORTED);
    }
    return restconfModule;
}

private QName getModuleNameAndRevision(final String identifier) {
    final int mountIndex = identifier.indexOf(ControllerContext.MOUNT);
    String moduleNameAndRevision = "";
    if (mountIndex >= 0) {
        moduleNameAndRevision = identifier.substring(mountIndex + ControllerContext.MOUNT.length());
    } else {
        moduleNameAndRevision = identifier;
    }
    Splitter splitter = Splitter.on("/").omitEmptyStrings();
    Iterable<String> split = splitter.split(moduleNameAndRevision);
    final List<String> pathArgs = Lists.<String> newArrayList(split);
    if (pathArgs.size() < 2) {
        throw new RestconfDocumentedException("URI has bad format. End of URI should be in format \moduleName/yyyy-MM-dd\",
            ErrorType.PROTOCOL,
            ErrorTag.INVALID_VALUE);
    }
    try {
        final String moduleName = pathArgs.get(0);
        String revision = pathArgs.get(1);
        final Date moduleRevision = REVISION_FORMAT.parse(revision);
        return QName.create(null, moduleRevision, moduleName);
    } catch (ParseException e) {
        throw new RestconfDocumentedException("URI has bad format. It should be \moduleName/yyyy-MM-dd\",
            ErrorType.PROTOCOL,
            ErrorTag.INVALID_VALUE);
    }
}
private CompositeNode toStreamCompositeNode(final String streamName, final DataSchemaNode streamSchemaNode) {
    final List<Node<?>> streamNodeValues = new ArrayList<Node<?>>();
    List<DataSchemaNode> instanceDataChildrenByName = ControllerContext.findInstanceDataChildrenByName((DataNodeContainer) streamSchemaNode, "name");
    final DataSchemaNode nameSchemaNode = Iterables.getFirst(instanceDataChildrenByName, null);
    streamNodeValues.add(NodeFactory.<String> createImmutableSimpleNode(nameSchemaNode.getQName(), null, streamName));

    instanceDataChildrenByName = ControllerContext.findInstanceDataChildrenByName((DataNodeContainer) streamSchemaNode, "description");
    final DataSchemaNode descriptionSchemaNode = Iterables.getFirst(instanceDataChildrenByName, null);
    streamNodeValues.add(NodeFactory.<String> createImmutableSimpleNode(descriptionSchemaNode.getQName(), null, "DESCRIPTION_PLACEHOLDER"));

    instanceDataChildrenByName = ControllerContext.findInstanceDataChildrenByName((DataNodeContainer) streamSchemaNode, "replay-support");
    final DataSchemaNode replaySupportSchemaNode = Iterables.getFirst(instanceDataChildrenByName, null);
    streamNodeValues.add(NodeFactory.<Boolean> createImmutableSimpleNode(replaySupportSchemaNode.getQName(), null, Boolean.valueOf(true)));

    instanceDataChildrenByName = ControllerContext.findInstanceDataChildrenByName((DataNodeContainer) streamSchemaNode, "replay-log-creation-time");
    final DataSchemaNode replayLogCreationTimeSchemaNode = Iterables.getFirst(instanceDataChildrenByName, null);
    streamNodeValues.add(NodeFactory.<String> createImmutableSimpleNode(replayLogCreationTimeSchemaNode.getQName(), null, ""));

    instanceDataChildrenByName = ControllerContext.findInstanceDataChildrenByName((DataNodeContainer) streamSchemaNode, "events");
    final DataSchemaNode eventsSchemaNode = Iterables.getFirst(instanceDataChildrenByName, null);
    streamNodeValues.add(NodeFactory.<String> createImmutableSimpleNode(eventsSchemaNode.getQName(), null, ""));

    return NodeFactory.createImmutableCompositeNode(streamSchemaNode.getQName(), null, streamNodeValues);
}

private CompositeNode toModuleCompositeNode(final Module module, final DataSchemaNode moduleSchemaNode) {
    List<DataSchemaNode> instanceDataChildrenByName = ControllerContext.findInstanceDataChildrenByName((DataNodeContainer) moduleSchemaNode, "name");
    final DataSchemaNode nameSchemaNode = Iterables.getFirst(instanceDataChildrenByName, null);
    moduleNodeValues.add(NodeFactory.<String> createImmutableSimpleNode(nameSchemaNode.getQName(), null, module.getName()));

    instanceDataChildrenByName = ControllerContext.findInstanceDataChildrenByName((DataNodeContainer) moduleSchemaNode, "description");
    final DataSchemaNode descriptionSchemaNode = Iterables.getFirst(instanceDataChildrenByName, null);
    moduleNodeValues.add(NodeFactory.<String> createImmutableSimpleNode(descriptionSchemaNode.getQName(), null, "DESCRIPTION_PLACEHOLDER"));

    instanceDataChildrenByName = ControllerContext.findInstanceDataChildrenByName((DataNodeContainer) moduleSchemaNode, "events");
    final DataSchemaNode eventsSchemaNode = Iterables.getFirst(instanceDataChildrenByName, null);
    moduleNodeValues.add(NodeFactory.<String> createImmutableSimpleNode(eventsSchemaNode.getQName(), null, ""));

    return NodeFactory.createImmutableCompositeNode(moduleSchemaNode.getQName(), null, moduleNodeValues);
}
final DataSchemaNode nameSchemaNode = Iterables.getFirst(instanceDataChildrenByName, null);
moduleNodeValues.add(NodeFactory.<String> createImmutableSimpleNode(nameSchemaNode.getQName(),
null,
module.getName()));

instanceDataChildrenByName = ControllerContext.findInstanceDataChildrenByName(
((DataNodeContainer) moduleSchemaNode), "revision");
final DataSchemaNode revisionSchemaNode = Iterables.getFirst(instanceDataChildrenByName, null);
_Date_revision = module.getRevision();
moduleNodeValues.add(NodeFactory.<String>
createImmutableSimpleNode(revisionSchemaNode.getQName(), null,
_REVISION_FORMAT.format(_revision)));

instanceDataChildrenByName = ControllerContext.findInstanceDataChildrenByName(
((DataNodeContainer) moduleSchemaNode), "namespace");
final DataSchemaNode namespaceSchemaNode = Iterables.getFirst(instanceDataChildrenByName, null);
moduleNodeValues.add(NodeFactory.<String>
createImmutableSimpleNode(namespaceSchemaNode.getQName(), null,
module.getNamespace().toString()));

instanceDataChildrenByName = ControllerContext.findInstanceDataChildrenByName(
((DataNodeContainer) moduleSchemaNode), "feature");
final DataSchemaNode featureSchemaNode = Iterables.getFirst(instanceDataChildrenByName, null);
for (final FeatureDefinition feature : module.getFeatures()) {
moduleNodeValues.add(NodeFactory.<String>
createImmutableSimpleNode(featureSchemaNode.getQName(), null,
feature.getQName().getLocalName()));
}

return NodeFactory.createImmutableCompositeNode(moduleSchemaNode.getQName(), null,
moduleNodeValues);

@Override
public Object getRoot() {
return null;
}

@override
public StructuredData invokeRpc(final String identifier, final CompositeNode payload, final UriInfo uriInfo) {
final RpcExecutor rpc = this.resolveIdentifierInInvokeRpc(identifier);
QName rpcName = rpc.getRpcDefinition().getQName();
URI rpcNamespace = rpcName.getNamespace();
if (Objects.equal(rpcNamespace.toString(), SAL_REMOTE_NAMESPACE)
&& Objects.equal(rpcName.getLocalName(), SAL_REMOTE_RPC_SUBSRCIBE)) {
return invokeSalRemoteRpcSubscribeRPC(payload, rpc.getRpcDefinition(),
parsePrettyPrintParameter(uriInfo));
}
validateInput(rpc.getRpcDefinition().getInput(), payload);

return callRpc(rpc, payload, parsePrettyPrintParameter(uriInfo));
}

private void validateInput(final DataSchemaNode inputSchema, final Node<?> payload) {
if (inputSchema != null && payload == null) {
    // expected a non null payload
    throw new RestconfDocumentedException("Input is required.", ErrorType.PROTOCOL,
        ErrorTag.MALFORMED_MESSAGE);
} else if (inputSchema == null && payload != null) {
    // did not expect any input
    throw new RestconfDocumentedException("No input expected.", ErrorType.PROTOCOL,
        ErrorTag.MALFORMED_MESSAGE);
}
// else
// { 
// TODO: Validate "mandatory" and "config" values here?? Or should those be
// those be
// validate in a more central location inside MD-SAL core.
// }
}

private StructuredData invokeSalRemoteRpcSubscribeRPC(final CompositeNode payload, final RpcDefinition rpc,
    final boolean prettyPrint) {
    final CompositeNode value = this.normalizeNode(payload, rpc.getInput(), null);
    final SimpleNode<? extends Object> pathNode = value == null ? null :
        value.getFirstSimpleByName(QName.create(rpc.getQName(), "path"));
    final Object pathValue = pathNode == null ? null : pathNode.getValue();
    if (!(pathValue instanceof YangInstanceIdentifier)) {
        throw new RestconfDocumentedException("Instance identifier was not normalized correctly.",
            ErrorType.APPLICATION, ErrorTag.OPERATION_FAILED);
    }
    final YangInstanceIdentifier pathIdentifier = ((YangInstanceIdentifier) pathValue);
    String streamName = null;
    if (!Iterables.isEmpty(pathIdentifier.getPathArguments())) {
        String fullRestconfIdentifier = this.controllerContext.toFullRestconfIdentifier(pathIdentifier);
        LogicalDatastoreType datastore = parseEnumTypeParameter(value, LogicalDatastoreType.class,
            DATASTORE_PARAM_NAME);
        datastore = datastore == null ? DEFAULT_DATASTORE : datastore;
    }
DataChangeScope scope = parseEnumTypeParameter(value, DataChangeScope.class, SCOPE_PARAM_NAME);
    scope = scope == null ? DEFAULT_SCOPE : scope;

    streamName = Notificator.createStreamNameFromUri(fullRestconfIdentifier + "/datastore=" + datastore + "/scope=" + scope);
}

if (Strings.isNullOrEmpty(streamName)) {
    throw new RestconfDocumentedException("Path is empty or contains data node which is not Container or List build-in type.", ErrorType.PROTOCOL, ErrorTag.INVALID_VALUE);
}

final SimpleNode<String> streamNameNode = NodeFactory.<String> createImmutableSimpleNode(
    QName.create(rpc.getOutput().getQName(), "stream-name"), null, streamName);
final List<Node<?>> output = new ArrayList<Node<?>>();
output.add(streamNameNode);

final MutableCompositeNode responseData =
    NodeFactory.createMutableCompositeNode(rpc.getOutput().getQName(), null, output, null, null);

if (!Notificator.existListenerFor(streamName)) {
    Notificator.createListener(pathIdentifier, streamName);
}

return new StructuredData(responseData, rpc.getOutput(), null, prettyPrint);

@Override
public StructuredData invokeRpc(final String identifier, final String noPayload, final UriInfo uriInfo) {
    if (StringUtils.isNotBlank(noPayload)) {
        throw new RestconfDocumentedException("Content must be empty.", ErrorType.PROTOCOL, ErrorTag.INVALID_VALUE);
    }
    return invokeRpc(identifier, (CompositeNode) null, uriInfo);
}

private RpcExecutor resolveIdentifierInInvokeRpc(final String identifier) {
    String identifierEncoded = null;
    DOMMountPoint mountPoint = null;
    if (identifier.contains(ControllerContext.MOUNT)) {
        // mounted RPC call - look up mount instance.
        InstanceIdentifierContext mountPointId = controllerContext.toMountPointIdentifier(identifier);
        mountPoint = mountPointId.getMountPoint();

        int startOfRemoteRpcName = identifier.lastIndexOf(ControllerContext.MOUNT)
+ ControllerContext.MOUNT.length() + 1;
String remoteRpcName = identifier.substring(startOfRemoteRpcName);
identifierEncoded = remoteRpcName;

} else if (identifier.indexOf("/"! = CHAR_NOT_FOUND) {
    final String slashErrorMsg = String.format("Identifier %n%s%ncan\'t contain slash "+ ".character (/).%nIf slash is part of identifier name then use %2F placeholder.", identifier);
    throw new RestconfDocumentedException(slashErrorMsg, ErrorType.PROTOCOL, ErrorTag.INVALID_VALUE);
} else {
    identifierEncoded = identifier;
}

final String identifierDecoded = controllerContext.urlPathArgDecode(identifierEncoded);
RpcDefinition rpc = null;
if (mountPoint == null) {
    rpc = controllerContext.getRpcDefinition(identifierDecoded);
} else {
    rpc = findRpc(mountPoint.getSchemaContext(), identifierDecoded);
}

if (rpc == null) {
    throw new RestconfDocumentedException("RPC does not exist.", ErrorType.RPC, ErrorTag.UNKNOWN_ELEMENT);
}

if (mountPoint == null) {
    return new BrokerRpcExecutor(rpc, broker);
} else {
    return new MountPointRpcExecutor(rpc, mountPoint);
}

private RpcDefinition findRpc(final SchemaContext schemaContext, final String identifierDecoded) {
    final String[] splittedIdentifier = identifierDecoded.split("::");
    if (splittedIdentifier.length != 2) {
        throw new RestconfDocumentedException(identifierDecoded + ". couldn\'t be splitted to 2 parts (module:rpc name)", ErrorType.APPLICATION, ErrorTag.INVALID_VALUE);
    }
    for (Module module : schemaContext.getModules()) {
        if (module.getName().equals(splittedIdentifier[0])) {
            for (RpcDefinition rpcDefinition : module.getRpcs()) {
                if (rpcDefinition.getQName().getLocalName().equals(splittedIdentifier[1])) {
                    return rpcDefinition;
                }
            }
        }
    }
    return null;
}
private StructuredData callRpc(final RpcExecutor rpcExecutor, final CompositeNode payload, final boolean prettyPrint) {
    if (rpcExecutor == null) {
        throw new RestconfDocumentedException("RPC does not exist.", ErrorType.RPC, ErrorTag.UNKNOWN_ELEMENT);
    }

    CompositeNode rpcRequest = null;
    RpcDefinition rpc = rpcExecutor.getRpcDefinition();
    QName rpcName = rpc.getQName();

    if (payload == null) {
        rpcRequest = NodeFactory.createMutableCompositeNode(rpcName, null, null, null, null);
    } else {
        final CompositeNode value = this.normalizeNode(payload, rpc.getInput(), null);
        List<Node<?>> input = Collections.<Node<?>> singletonList(value);
        rpcRequest = NodeFactory.createMutableCompositeNode(rpcName, null, input, null, null);
    }

    RpcResult<CompositeNode> rpcResult = rpcExecutor.invokeRpc(rpcRequest);
    checkRpcSuccessAndThrowException(rpcResult);

    if (rpcResult.getResult() == null) {
        return null;
    }

    if (rpc.getOutput() == null) {
        return null; // no output, nothing to send back.
    }

    return new StructuredData(rpcResult.getResult(), rpc.getOutput(), null, prettyPrint);
}

private void checkRpcSuccessAndThrowException(final RpcResult<CompositeNode> rpcResult) {
    if (!rpcResult.isSuccessful()) {
        throw new RestconfDocumentedException("The operation was not successful", null, rpcResult.getErrors());
    }
}
@Override
public NormalizedNodeContext readConfigurationData(final String identifier, final UriInfo uriInfo) {
    final InstanceIdentifierContext iiWithData = controllerContext.toInstanceIdentifier(identifier);
    DOMMountPoint mountPoint = iiWithData.getMountPoint();
    NormalizedNode<? extends Node<?,?>> data = null;
    YangInstanceIdentifier normalizedII;
    if (mountPoint != null) {
        normalizedII = new DataNormalizer(mountPoint.getSchemaContext()).toNormalized(iiWithData.getInstanceIdentifier());
        data = broker.readConfigurationData(mountPoint, normalizedII);
    } else {
        normalizedII = controllerContext.toNormalized(iiWithData.getInstanceIdentifier());
        data = broker.readConfigurationData(normalizedII);
    }
    return new NormalizedNodeContext(iiWithData, data);
}

@SuppressWarnings("unchecked")
private <T extends Node<?,?>> T pruneDataAtDepth(final T node, final Integer depth) {
    if (depth == null) {
        return node;
    }

    if (node instanceof CompositeNode) {
        ImmutableList.Builder<Node<?,?>> newChildNodes = ImmutableList.<Node<?,?>> builder();
        if (depth > 1) {
            for (Node<?,?> childNode : ((CompositeNode) node).getValue()) {
                newChildNodes.add(pruneDataAtDepth(childNode, depth - 1));
            }
        }
        return (T) ImmutableCompositeNode.create(node.getNodeType(), newChildNodes.build());
    } else { // SimpleNode
        return node;
    }
}

private Integer parseDepthParameter(final UriInfo info) {
    String param = info.getQueryParameters(false).getFirst(UriParameters.DEPTH.toString());
    if (Strings.isNullOrEmpty(param) || "unbounded".equals(param)) {
        return null;
    }

    try {
        Integer depth = Integer.valueOf(param);
        if (depth < 1) {
            throw new RestconfDocumentedException(new RestconfError(ErrorType.PROTOCOL, ErrorTag.INVALID_VALUE,

Open Source Used In WAE 6.3
"Invalid depth parameter: " + depth, null,
"The depth parameter must be an integer > 1 or "unbounded\"\")
}
return depth;
} catch (NumberFormatException e) {
    throw new RestconfDocumentedException(new RestconfError(ErrorType.PROTOCOL,
        ErrorTag.INVALID_VALUE,
        "Invalid depth parameter: " + e.getMessage(), null,
        "The depth parameter must be an integer > 1 or "unbounded\")
    );
}
}

@Override
public NormalizedNodeContext readOperationalData(final String identifier, final UriInfo info) {
    final InstanceIdentifierContext iiWithData = controllerContext.toInstanceIdentifier(identifier);
    DOMMountPoint mountPoint = iiWithData.getMountPoint();
    NormalizedNode<?, ?> data = null;
    YangInstanceIdentifier normalizedII;
    if (mountPoint != null) {
        normalizedII = new DataNormalizer(mountPoint.getSchemaContext()).toNormalized(iiWithData
            .getInstanceIdentifier());
        data = broker.readOperationalData(mountPoint, normalizedII);
    } else {
        normalizedII = controllerContext.toNormalized(iiWithData.getInstanceIdentifier());
        data = broker.readOperationalData(normalizedII);
    }
    return new NormalizedNodeContext(iiWithData, data);
}

private boolean parsePrettyPrintParameter(final UriInfo info) {
    String param = info.getQueryParameters(false).getFirst(UriParameters.PRETTY_PRINT.toString());
    return Boolean.parseBoolean(param);
}

@Override
public Response updateConfigurationData(final String identifier, final Node<?> payload) {
    final InstanceIdentifierContext iiWithData = this.controllerContext.toInstanceIdentifier(identifier);
    validateInput(iiWithData.getSchemaNode(), payload);
    DOMMountPoint mountPoint = iiWithData.getMountPoint();
    validateTopLevelNodeName(payload, iiWithData.getInstanceIdentifier());
    final CompositeNode value = this.normalizeNode(payload, iiWithData.getSchemaNode(), mountPoint);
    validateListKeysEqualityInPayloadAndUri(iiWithData, value);
    final NormalizedNode<?, ?> datastoreNormalizedNode = compositeNodeToDatastoreNormalizedNode(value,
        iiWithData.getSchemaNode());
YangInstanceIdentifier normalizedII;
if (mountPoint != null) {
    normalizedII = new DataNormalizer(mountPoint.getSchemaContext()).toNormalized(
        iiWithData.getInstanceIdentifier());
} else {
    normalizedII = controllerContext.toNormalized(iiWithData.getInstanceIdentifier());
}

/*
* There is a small window where another write transaction could be updating the same data
* simultaneously and we get an OptimisticLockFailedException. This error is likely
* transient and The WriteTransaction#submit API docs state that a retry will likely
* succeed. So we'll try again if that scenario occurs. If it fails a third time then it
* probably will never succeed so we'll fail in that case.
*
* By retrying we're attempting to hide the internal implementation of the data store and
* how it handles concurrent updates from the restconf client. The client has instructed us
* to put the data and we should make every effort to do so without pushing optimistic lock
* failures back to the client and forcing them to handle it via retry (and having to
* document the behavior).
*/
int tries = 2;
while(true) {
    try {
        if (mountPoint != null) {
            broker.commitConfigurationDataPut(mountPoint, normalizedII,
                datastoreNormalizedNode).checkedGet();
        } else {
            broker.commitConfigurationDataPut(normalizedII,
                datastoreNormalizedNode).checkedGet();
        }

        break;
    } catch (TransactionCommitFailedException e) {
        if(e instanceof OptimisticLockFailedException) {
            if(--tries <= 0) {
                LOG.debug("Got OptimisticLockFailedException on last try - failing");
                throw new RestconfDocumentedException(e.getMessage(), e, e.getErrorList());
            }

            LOG.debug("Got OptimisticLockFailedException - trying again");
        } else {
            throw new RestconfDocumentedException(e.getMessage(), e, e.getErrorList());
        }
    }
}

return Response.status(Status.OK).build();

private void validateTopLevelNodeName(final Node<?> node,
    final YangInstanceIdentifier identifier) {
    final String payloadName = getName(node);
    final Iterator<PathArgument> pathArguments = identifier.getReversePathArguments().iterator();

    //no arguments
    if (!pathArguments.hasNext()) {
        //no "data" payload
        if (!node.getNodeType().equals(NETCONF_BASE_QNAME)) {
            throw new RestconfDocumentedException("Instance identifier has to contain at least one path argument",
                ErrorType.PROTOCOL, ErrorTag.MALFORMED_MESSAGE);
        }
    //any arguments
    } else {
        final String identifierName = pathArguments.next().getNodeType().getLocalName();
        if (!payloadName.equals(identifierName)) {
            throw new RestconfDocumentedException("Payload name (" + payloadName + ") is different from identifier name (" + identifierName + ")", ErrorType.PROTOCOL,
                ErrorTag.MALFORMED_MESSAGE);
        }
    }

    /**
     * Validates whether keys in { @code payload} are equal to values of keys in { @code iiWithData} for list schema node
     *
     * @throws RestconfDocumentedException
     *         if key values or key count in payload and URI isn't equal
     *
     */
    private void validateListKeysEqualityInPayloadAndUri(final InstanceIdentifierContext iiWithData,
        final CompositeNode payload) {
        final CompositeNode schemaNode = iiWithData.getSchemaNode();
        final List<QName> keyDefinitions = ((ListSchemaNode) schemaNode).getKeyDefinition();
        final PathArgument lastPathArgument = iiWithData.getInstanceIdentifier().getLastPathArgument();
        final Map<QName, Object> uriKeyValues = ((NodeIdentifierWithPredicates) lastPathArgument)
            .getKeyValues();
        isEqualUriAndPayloadKeyValues(uriKeyValues, payload, keyDefinitions);
private void isEqualUriAndPayloadKeyValues(final Map<QName, Object> uriKeyValues, final CompositeNode payload, final List<QName> keyDefinitions) {
    for (QName keyDefinition : keyDefinitions) {
        final Object uriKeyValue = uriKeyValues.get(keyDefinition);
        if (uriKeyValue == null) {
            throw new RestconfDocumentedException("Missing key " + keyDefinition + " in URI.",
                    ErrorType.PROTOCOL, ErrorTag.DATA_MISSING);
        }
        final List<SimpleNode<?>> payloadKeyValues = payload.getSimpleNodesByName(keyDefinition.getLocalName());
        if (payloadKeyValues.isEmpty()) {
            throw new RestconfDocumentedException("Missing key " + keyDefinition.getLocalName() + " in the message body.",
                    ErrorType.PROTOCOL, ErrorTag.DATA_MISSING);
        }
        Object payloadKeyValue = payloadKeyValues.iterator().next().getValue();
        if (!uriKeyValue.equals(payloadKeyValue)) {
            throw new RestconfDocumentedException("The value '" + uriKeyValue + "' for key '"
                    + keyDefinition.getLocalName() + '" specified in the URI doesn't match the value '"
                    + payloadKeyValue + '" specified in the message body.",
                    ErrorType.PROTOCOL, ErrorTag.INVALID_VALUE);
        }
    }
}

@Override
public Response createConfigurationData(final String identifier, final Node<?> payload) {
    if (payload == null) {
        throw new RestconfDocumentedException("Input is required.",
                ErrorType.PROTOCOL, ErrorTag.MALFORMED_MESSAGE);
    }
    URI payloadNS = this.namespace(payload);
    if (payloadNS == null) {
        throw new RestconfDocumentedException("Data has bad format. Root element node must have namespace (XML format) or module name(JSON format)",
                ErrorType.PROTOCOL, ErrorTag.UNKNOWN_NAMESPACE);
    }
    InstanceIdentifierContext iiWithData = null;
    CompositeNode value = null;
    if (this.representsMountPointRootData(payload)) {
        // payload represents mount point data and URI represents path to the mount point
if (this.endsWithMountPoint(identifier)) {
    throw new RestconfDocumentedException("URI has bad format. URI should be without \\
    + ControllerContext.MOUNT + \\
    "for POST operation.", ErrorType.PROTOCOL,
    ErrorTag.INVALID_VALUE);
}

final String completeIdentifier = this.addMountPointIdentifier(identifier);
iiWithData = this.controllerContext.toInstanceIdentifier(completeIdentifier);

value = this.normalizeNode(payload, iiWithData.getSchemaNode(), iiWithData.getMountPoint());
} else {
    final InstanceIdentifierContext incompleteInstIdWithData = this.controllerContext .toInstanceIdentifier(identifier);
    final DataNodeContainer parentSchema = (DataNodeContainer) incompleteInstIdWithData.getSchemaNode();
    DOMMountPoint mountPoint = incompleteInstIdWithData.getMountPoint();
    final Module module = findModule(mountPoint, payload);
    if (module == null) {
        throw new RestconfDocumentedException("Module was not found for \\
        + payloadNS + \\
        "Module not found for \"" + payloadNS + \\
        ErrorType.PROTOCOL, ErrorTag.UNKNOWN_ELEMENT);
    }

    String payloadName = this.getName(payload);
    final DataSchemaNode schemaNode = ControllerContext.findInstanceDataChildByNameAndNamespace(      parentSchema, payloadName, module.getNamespace());
    value = this.normalizeNode(payload, schemaNode, mountPoint);
    iiWithData = addLastIdentifierFromData(incompleteInstIdWithData, value, schemaNode, incompleteInstIdWithData.getSchemaContext());
}

final NormalizedNode<?, ?> datastoreNormalizedData = compositeNodeToDatastoreNormalizedNode(value, iiWithData.getSchemaNode());
DOMMountPoint mountPoint = iiWithData.getMountPoint();
YangInstanceIdentifier normalizedII;

try {
    if (mountPoint != null) {
        normalizedII = new DataNormalizer(mountPoint.getSchemaContext()).toNormalized(iiWithData .getInstanceIdentifier());
        broker.commitConfigurationDataPost(mountPoint, normalizedII, datastoreNormalizedData);
    } else {
        normalizedII = controllerContext.toNormalized(iiWithData.getInstanceIdentifier());
        broker.commitConfigurationDataPost(normalizedII, datastoreNormalizedData);
    }
} catch(RestconfDocumentedException e) {
    throw e;
} catch (Exception e) {
throw new RestconfDocumentedException("Error creating data", e);
}

return Response.status(Status.NO_CONTENT).build();
}

@Override
public Response createConfigurationData(final Node<?> payload) {
if (payload == null) {
throw new RestconfDocumentedException("Input is required.", ErrorType.PROTOCOL, ErrorTag.MALFORMED_MESSAGE);
}

URI payloadNS = this.namespace(payload);
if (payloadNS == null) {
throw new RestconfDocumentedException("Data has bad format. Root element node must have namespace (XML format) or module name(JSON format)",
       ErrorType.PROTOCOL, ErrorTag.UNKNOWN_NAMESPACE);
}

final Module module = this.findModule(null, payload);
if (module == null) {
throw new RestconfDocumentedException("Data has bad format. Root element node has incorrect namespace (XML format) or module name(JSON format)",
       ErrorType.PROTOCOL, ErrorTag.UNKNOWN_NAMESPACE);
}

String payloadName = this.getName(payload);
final DataSchemaNode schemaNode =
ControllerContext.findInstanceDataChildByModuleNameAndNamespace(module, payloadName, module.getNamespace());
final CompositeNode value = this.normalizeNode(payload, schemaNode, null);
final InstanceIdentifierContext iiWithData = this.addLastIdentifierFromData(null, value, schemaNode,ControllerContext.getInstance().getGlobalSchema());
final NormalizedNode<?, ?> datastoreNormalizedData = compositeNodeToDatastoreNormalizedNode(value, schemaNode);
DOMMountPoint mountPoint = iiWithData.getMountPoint();
YangInstanceIdentifier normalizedII;

try {
if (mountPoint != null) {
    normalizedII = new DataNormalizer(mountPoint.getSchemaContext()).toNormalized(iiWithData.getInstanceIdentifier());
    broker.commitConfigurationDataPost(mountPoint, normalizedII, datastoreNormalizedData);
} else {
    ...
}
normalizedII = controllerContext.toNormalized(iiWithData.getInstanceIdentifier());
broker.commitConfigurationDataPost(normalizedII, datastoreNormalizedData);
}
} catch(RestconfDocumentedException e) {
    throw e;
} catch (Exception e) {
    throw new RestconfDocumentedException("Error creating data", e);
}

return Response.status(Status.NO_CONTENT).build();

@override
public Response deleteConfigurationData(final String identifier) {
    final InstanceIdentifierContext iiWithData = controllerContext.toInstanceIdentifier(identifier);
    DOMMountPoint mountPoint = iiWithData.getMountPoint();
    YangInstanceIdentifier normalizedII;

    try {
        if (mountPoint != null) {
            normalizedII = new DataNormalizer(mountPoint.getSchemaContext()).toNormalized(iiWithData
                                                .getInstanceIdentifier());
            broker.commitConfigurationDataDelete(mountPoint, normalizedII);
        } else {
            normalizedII = controllerContext.toNormalized(iiWithData.getInstanceIdentifier());
            broker.commitConfigurationDataDelete(normalizedII).get();
        }
    } catch (Exception e) {
        final Optional<Throwable> searchedException = Iterables.tryFind(Throwables.getCausalChain(e),
                Predicates.instanceOf(ModifiedNodeDoesNotExistException.class));
        if (searchedException.isPresent()) {
            throw new RestconfDocumentedException("Data specified for deleting doesn't exist.",
                    ErrorType.APPLICATION, ErrorTag.DATA_MISSING);
        }
        throw new RestconfDocumentedException("Error while deleting data", e);
    }
    return Response.status(Status.OK).build();
}

/**
 * Subscribes to some path in schema context (stream) to listen on changes on this stream.
 *
 * Additional parameters for subscribing to stream are loaded via rpc input parameters:
 * <ul>
 * <li>datastore</li> - default CONFIGURATION (other values of { @link LogicalDatastoreType} enum type)
 * <li>scope</li> - default BASE (other values of { @link DataChangeScope})
 * </ul>
 */
@Override
public Response subscribeToStream(final String identifier, final UriInfo uriInfo) {
    final String streamName = Notificator.createStreamNameFromUri(identifier);
    if (Strings.isNullOrEmpty(streamName)) {
        throw new RestconfDocumentedException("Stream name is empty.", ErrorType.PROTOCOL,
                ErrorTag.INVALID_VALUE);
    }
    final ListenerAdapter listener = Notificator.getListenerFor(streamName);
    if (listener == null) {
        throw new RestconfDocumentedException("Stream was not found.", ErrorType.PROTOCOL,
                ErrorTag.UNKNOWN_ELEMENT);
    }
    Map<String, String> paramToValues = resolveValuesFromUri(identifier);
    LogicalDatastoreType datastore = parserURIEnumParameter(LogicalDatastoreType.class,
            paramToValues.get(DATASTORE_PARAM_NAME));
    if (datastore == null) {
        throw new RestconfDocumentedException("Stream name doesn't contains datastore value (pattern
                /datastore=)",
                ErrorType.APPLICATION, ErrorTag.MISSING_ATTRIBUTE);
    }
    DataChangeScope scope = parserURIEnumParameter(DataChangeScope.class,
            paramToValues.get(SCOPE_PARAM_NAME));
    if (scope == null) {
        throw new RestconfDocumentedException("Stream name doesn't contains datastore value (pattern /scope=)",
                ErrorType.APPLICATION, ErrorTag.MISSING_ATTRIBUTE);
    }
    broker.registerToListenDataChanges(datastore, scope, listener);

    final UriBuilder uriBuilder = uriInfo.getAbsolutePathBuilder();
    int notificationPort = NOTIFICATION_PORT;
    try {
        WebSocketServer webSocketServerInstance = WebSocketServer.getInstance();
        notificationPort = webSocketServerInstance.getPort();
    } catch (NullPointerException e) {
        WebSocketServer.createInstance(NOTIFICATION_PORT);
    }
    UriBuilder port = uriBuilder.port(notificationPort);
    final URI uriToWebsocketServer = port.replacePath(streamName).build();

    return Response.status(Status.OK).location(uriToWebsocketServer).build();
}

/**
 * Load parameter for subscribing to stream from input composite node
 */
private <T> T parseEnumTypeParameter(final CompositeNode compNode, final Class<T> classDescriptor, final String paramName) {
    QNameModule salRemoteAugment = QNameModule.create(NAMESPACE_EVENT_SUBSCRIPTION_AUGMENT, EVENT_SUBSCRIPTION_AUGMENT_REVISION);
    SimpleNode<?> simpleNode = compNode.getFirstSimpleByName(QName.create(salRemoteAugment, paramName));
    if (simpleNode == null) {
        return null;
    }
    Object rawValue = simpleNode.getValue();
    if (!(rawValue instanceof String)) {
        return null;
    }
    return resolveAsEnum(classDescriptor, (String) rawValue);
}

/**
* Checks whether {@code value} is one of the string representation of enumeration {@code classDescriptor}
* @return enum object if string value of {@code classDescriptor} enumeration is equal to {@code value}. Other cases
*         null.
*/
private <T> T parserURIEnumParameter(final Class<T> classDescriptor, final String value) {
    if (Strings.isNullOrEmpty(value)) {
        return null;
    }
    return resolveAsEnum(classDescriptor, value);
}

private <T> T resolveAsEnum(final Class<T> classDescriptor, final String value) {
    T[] enumConstants = classDescriptor.getEnumConstants();
    if (enumConstants != null) {
        for (T enm : classDescriptor.getEnumConstants()) {
            if (((Enum<?>) enm).name().equals(value)) {
                return enm;
            }
        }
    }
    return null;
}
private Map<String, String> resolveValuesFromUri(final String uri) {
    Map<String, String> result = new HashMap<>();
    String[] tokens = uri.split("/");
    for (int i = 1; i < tokens.length; i++) {
        String[] parameterTokens = tokens[i].split("=");
        if (parameterTokens.length == 2) {
            result.put(parameterTokens[0], parameterTokens[1]);
        }
    }
    return result;
}

private Module findModule(final DOMMountPoint mountPoint, final Node<?> data) {
    if (data instanceof NodeWrapper) {
        return findModule(mountPoint, (NodeWrapper<?>) data);
    } else if (data != null) {
        URI namespace = data.getNodeType().getNamespace();
        if (mountPoint != null) {
            return this.controllerContext.findModuleByNamespace(mountPoint, namespace);
        } else {
            return this.controllerContext.findModuleByNamespace(namespace);
        }
    } else {
        throw new IllegalArgumentException("Unhandled parameter types: 
            + Arrays.<Object>.asList(mountPoint, data).toString());
    }
}

private Module findModule(final DOMMountPoint mountPoint, final NodeWrapper<?> data) {
    URI namespace = data.getNamespace();
    Preconditions.<URI> checkNotNull(namespace);

    Module module = null;
    if (mountPoint != null) {
        module = this.controllerContext.findModuleByNamespace(mountPoint, namespace);
        if (module == null) {
            module = this.controllerContext.findModuleByName(mountPoint, namespace.toString());
        }
    } else {
        module = this.controllerContext.findModuleByNamespace(namespace);
        if (module == null) {
            module = this.controllerContext.findModuleByName(namespace.toString());
        }
    }

    return module;
private InstanceIdentifierContext addLastIdentifierFromData(final InstanceIdentifierContext identifierWithSchemaNode, 
    final CompositeNode data, final DataSchemaNode schemaOfData, SchemaContext schemaContext) {
    YangInstanceIdentifier instanceIdentifier = null;
    if (identifierWithSchemaNode != null) {
        instanceIdentifier = identifierWithSchemaNode.getInstanceIdentifier();
    }

    final YangInstanceIdentifier iiOriginal = instanceIdentifier;
    InstanceIdentifierBuilder iiBuilder = null;
    if (iiOriginal == null) {
        iiBuilder = YangInstanceIdentifier.builder();
    } else {
        iiBuilder = YangInstanceIdentifier.builder(iiOriginal);
    }

    if ((schemaOfData instanceof ListSchemaNode)) {
        HashMap<QName, Object> keys = this.resolveKeysFromData(((ListSchemaNode) schemaOfData), data);
        iiBuilder.nodeWithKey(schemaOfData.getQName(), keys);
    } else {
        iiBuilder.node(schemaOfData.getQName());
    }

    YangInstanceIdentifier instance = iiBuilder.toInstance();
    DOMMountPoint mountPoint = null;
    SchemaContext schemaCtx = null;
    if (identifierWithSchemaNode != null) {
        mountPoint = identifierWithSchemaNode.getMountPoint();
    }

    return new InstanceIdentifierContext(instance, schemaOfData, mountPoint, schemaContext);
}

private HashMap<QName, Object> resolveKeysFromData(final ListSchemaNode listNode, final CompositeNode dataNode) {
    final HashMap<QName, Object> keyValues = new HashMap<QName, Object>();
    List<QName> _keyDefinition = listNode.getKeyDefinition();
    for (final QName key : _keyDefinition) {
        SimpleNode<? extends Object> head = null;
        String localName = key.getLocalName();
        List<SimpleNode<? extends Object>> simpleNodesByName = dataNode.getSimpleNodesByName(localName);
        if (simpleNodesByName != null) {
            head = Iterables.getFirst(simpleNodesByName, null);
        }

        Object dataNodeKeyValueObject = null;
        if (head != null) {
            // Code continues here...
        }
    }

    return keyValues;
}
dataNodeKeyObject = head.getValue();

if (dataNodeKeyObject == null) {
    throw new RestconfDocumentedException("Data contains list \"" +
dataNode.getNodeType().getLocalName()
    + \"\" which does not contain key: \"" + key.getLocalName() + \"\", ErrorType.PROTOCOL,
    ErrorTag.INVALID_VALUE);
}

keyValues.put(key, dataNodeKeyObject);
}

return keyValues;
}

private boolean endsWithMountPoint(final String identifier) {
    return identifier.endsWith(ControllerContext.MOUNT) || identifier.endsWith(ControllerContext.MOUNT + "/");
}

private boolean representsMountPointRootData(final Node<?> data) {
    URI namespace = this.namespace(data);
    return (SchemaContext.NAME.getNamespace().equals(namespace) /*
        * || MOUNT_POINT_MODULE_NAME .equals( namespace .
        * toString( ) )
        */
    && SchemaContext.NAME.getLocalName().equals(this.localName(data));
}

private String addMountPointIdentifier(final String identifier) {
    boolean endsWith = identifier.endsWith("/");
    if (endsWith) {
        return (identifier + ControllerContext.MOUNT);
    }
    return identifier + "/" + ControllerContext.MOUNT;
}

private CompositeNode normalizeNode(final Node<?> node, final DataSchemaNode schema, final DOMMountPoint mountPoint) {
    if (schema == null) {
        String localName = node == null ? null :
            node instanceof NodeWrapper ? ((NodeWrapper<?>)node).getLocalName() :
        node.getNodeType().getLocalName();

        throw new RestconfDocumentedException("Data schema node was not found for ", ErrorType.PROTOCOL,
            ErrorTag.INVALID_VALUE);
if (!(schema instanceof DataNodeContainer)) {
    throw new RestconfDocumentedException("Root element has to be container or list yang datatype.",
        ErrorType.PROTOCOL, ErrorTag.INVALID_VALUE);
}

if (node instanceof NodeWrapper<?>) {
    NodeWrapper<?> nodeWrap = (NodeWrapper<?>) node;
    boolean isChangeAllowed = ((NodeWrapper<?>) node).isChangeAllowed();
    if (isChangeAllowed) {
        nodeWrap = topLevelElementAsCompositeNodeWrapper((NodeWrapper<?>) node, schema);
        try {
            this.normalizeNode(nodeWrap, schema, null, mountPoint);
        } catch (IllegalArgumentException e) {
            throw new RestconfDocumentedException(e.getMessage(), ErrorType.PROTOCOL,
                ErrorTag.INVALID_VALUE);
        }
        if (nodeWrap instanceof CompositeNodeWrapper) {
            return ((CompositeNodeWrapper) nodeWrap).unwrap();
        }
    }
}

if (node instanceof CompositeNode) {
    return (CompositeNode) node;
}

throw new RestconfDocumentedException("Top level element is not interpreted as composite node.",
    ErrorType.APPLICATION, ErrorTag.INVALID_VALUE);

private void normalizeNode(final NodeWrapper<? extends Object> nodeBuilder, final DataSchemaNode schema,
     final QName previousAugment, final DOMMountPoint mountPoint) {
    if (schema == null) {
        throw new RestconfDocumentedException("Data has bad format." + nodeBuilder.getLocalName() + 
            + ")" does not exist in yang schema.", ErrorType.PROTOCOL, ErrorTag.INVALID_VALUE);
    }

    QName currentAugment = null;
    if (nodeBuilder.getQname() != null) {
        currentAugment = previousAugment;
    } else {
        currentAugment = this.normalizeNodeName(nodeBuilder, schema, previousAugment, mountPoint);
        if (nodeBuilder.getQname() == null) {
            throw new RestconfDocumentedException("Data has bad format.
                \" does not exist in yang schema.", ErrorType.PROTOCOL, ErrorTag.INVALID_VALUE);
        }
    }

    throw new RestconfDocumentedException("Data has bad format.\n\" + nodeBuilder.getLocalName() + 
        \" should be \" + schema.getQName().getNamespace()
+ "\n" + "If data is in JSON format then module name for \n"
+ nodeBuilder.get LOCAL NAME () + "\n" should be corresponding to namespace \n"
+ schema.getQName().getNamespace() + ".", ErrorType.PROTOCOL,
ErrorTag.INVALID_VALUE);

if (nodeBuilder instanceof CompositeNodeWrapper) {
    if (schema instanceof DataNodeContainer) {
        normalizeCompositeNode((CompositeNodeWrapper) nodeBuilder, (DataNodeContainer) schema,
            currentAugment);
    } else if (schema instanceof AnyXmlNode) {
        normalizeAnyXmlNode((CompositeNodeWrapper) nodeBuilder, (AnyXmlNode) schema);
    } else if (nodeBuilder instanceof SimpleNodeWrapper) {
        normalizeSimpleNode((SimpleNodeWrapper) nodeBuilder, schema, mountPoint);
    } else if ((nodeBuilder instanceof EmptyNodeWrapper)) {
        normalizeEmptyNode((EmptyNodeWrapper) nodeBuilder, schema);
    }
}

private void normalizeAnyXmlNode(final CompositeNodeWrapper compositeNode, final AnyXmlNode schema) {
    List<NodeWrapper<?>> children = compositeNode.getValues();
    for (NodeWrapper<? extends Object> child : children) {
        child.setNamespace(schema.getQName().getNamespace());
        if (child instanceof CompositeNodeWrapper) {
            normalizeAnyXmlNode((CompositeNodeWrapper) child, schema);
        }
    }
}

private void normalizeEmptyNode(final EmptyNodeWrapper emptyNodeBuilder, final DataNodeContainer schema) {
    if ((schema instanceof LeafSchemaNode)) {
        emptyNodeBuilder.setComposite(false);
    } else {
        if ((schema instanceof ContainerSchemaNode)) {
            // FIXME: Add presence check
            emptyNodeBuilder.setComposite(true);
        }
    }
}

private void normalizeSimpleNode(final SimpleNodeWrapper simpleNode, final DataNodeContainer schema,
    final DOMMountPoint mountPoint) {
    final Object value = simpleNode.getValue();
Object inputValue = value;
TypeDefinition<? extends Object> typeDefinition = this.typeDefinition(schema);
if ((typeDefinition instanceof IdentityrefTypeDefinition)) {
    if ((value instanceof String)) {
        inputValue = new IdentityValuesDTO(simpleNode.getNamespace().toString(), (String) value, null,
            (String) value);
    } // else value is already instance of IdentityValuesDTO
}

Object outputValue = inputValue;

if (typeDefinition != null) {
    Codec<Object, Object> codec = RestCodec.from(typeDefinition, mountPoint);
    outputValue = codec == null ? null : codec.deserialize(inputValue);
}

simpleNode.setValue(outputValue);

private void normalizeCompositeNode(final CompositeNodeWrapper compositeNodeBuilder,
    final DataNodeContainer schema, final DOMMountPoint mountPoint, final QName currentAugment) {
    final List<NodeWrapper<?>> children = compositeNodeBuilder.getValues();
    checkNodeMultiplicityAccordingToSchema(schema, children);
    for (final NodeWrapper<? extends Object> child : children) {
        final List<DataSchemaNode> potentialSchemaNodes = ControllerContext.findInstanceDataChildrenByName(
            schema, child.getLocalName());
        if (potentialSchemaNodes.size() > 1 && child.getNamespace() == null) {
            StringBuilder builder = new StringBuilder();
            for (final DataSchemaNode potentialSchemaNode : potentialSchemaNodes) {
                builder.append('"').append(potentialSchemaNode.getQName().getNamespace().toString()).append('"');
            }
            throw new RestconfDocumentedException("Node " + child.getLocalName() + "\" is added as augment from more than one module. ".
                + "Therefore node must have namespace (XML format) or module name (JSON format)."
                + "\nThe node is added as augment from modules with namespaces:\n" + builder,
                ErrorType.PROTOCOL, ErrorTag.INVALID_VALUE);
        }

        boolean rightNodeSchemaFound = false;
        for (final DataSchemaNode potentialSchemaNode : potentialSchemaNodes) {
            if (!rightNodeSchemaFound) {
                final QName potentialCurrentAugment = this.normalizeNodeName(child, potentialSchemaNode,
                    currentAugment, mountPoint);
                if (child.getQname() != null) {
this.normalizeNode(child, potentialSchemaNode, potentialCurrentAugment, mountPoint);  
  }  
  rightNodeSchemaFound = true;  
  }  
  }

if (!rightNodeSchemaFound) {  
  throw new RestconfDocumentedException("Schema node \"" + child.getLocalName()  
    + \"\" was not found in module.", ErrorType.APPLICATION, ErrorTag.UNKNOWN_ELEMENT);  
  }
}

if ((schema instanceof ListSchemaNode)) {  
  ListSchemaNode listSchemaNode = (ListSchemaNode) schema;  
  final List<QName> listKeys = listSchemaNode.getKeyDefinition();  
  for (final QName listKey : listKeys) {  
    boolean foundKey = false;  
    for (final NodeWrapper<? extends Object> child : children) {  
      if (Objects.equal(child.unwrap().getNodeType().getLocalName(), listKey.getLocalName())) {  
        foundKey = true;  
        }
    }
  }  
  }  
  if (!foundKey) {  
    throw new RestconfDocumentedException("Missing key in URI \"" + listKey.getLocalName()  
      + \"\" of list \"" + listSchemaNode.getQName().getLocalName() + \"\", ErrorType.PROTOCOL,  
      ErrorTag.DATA_MISSING);  
    }
  }
}

private void checkNodeMultiplicityAccordingToSchema(final DataNodeContainer dataNodeContainer,  
  final List<NodeWrapper<?>> nodes) {  
  Map<String, Integer> equalNodeNamesToCounts = new HashMap<String, Integer>();  
  for (NodeWrapper<?> child : nodes) {  
    Integer count = equalNodeNamesToCounts.get(child.getLocalName());  
    equalNodeNamesToCounts.put(child.getLocalName(), count == null ? 1 : ++count);  
    }
  }

  for (DataSchemaNode childSchemaNode : dataNodeContainer.getChildNodes()) {  
    if (childSchemaNode instanceof ContainerSchemaNode || childSchemaNode instanceof LeafSchemaNode) {  
      String localName = childSchemaNode.getQName().getLocalName();  
      Integer count = equalNodeNamesToCounts.get(localName);  
      if (count != null && & count > 1) {  
        throw new RestconfDocumentedException("Multiple input data elements were specified for \""  
          + childSchemaNode.getQName().getLocalName()  
          + \"\". The data for this element type can only be specified once.", ErrorType.APPLICATION,
private QName normalizeNodeName(final NodeWrapper<? extends Object> nodeBuilder, final DataSchemaNode schema, final QName previousAugment, final DOMMountPoint mountPoint) {
    QName validQName = schema.getQName();
    QName currentAugment = previousAugment;
    if (schema.isAugmenting()) {
        currentAugment = schema.getQName();
    } else if (previousAugment != null && !Objects.equal(schema.getQName().getNamespace(), previousAugment.getNamespace())) {
        validQName = QName.create(currentAugment, schema.getQName().getLocalName());
    }

    String moduleName = null;
    if (mountPoint == null) {
        moduleName = controllerContext.findModuleNameByNamespace(validQName.getNamespace());
    } else {
        moduleName = controllerContext.findModuleNameByNamespace(mountPoint, validQName.getNamespace());
    }

    if (nodeBuilder.getNamespace() == null || Objects.equal(nodeBuilder.getNamespace(), validQName.getNamespace()) || Objects.equal(nodeBuilder.getNamespace().toString(), moduleName)) {
        /*
        * Note : this check is wrong -
        * can never be true as it compares
        * a URI with a String not sure what
        * the intention is so commented out
        * ...
        * Objects . equal ( nodeBuilder
        * . getNamespace ( ) ,
        * MOUNT_POINT_MODULE_NAME )
        */

        nodeBuilder.setQname(validQName);
    }

    return currentAugment;
}

private URI namespace(final Node<?> data) {
    if (data instanceof NodeWrapper) {
        return ((NodeWrapper<?>) data).getNamespace();
    }

    return null;
}
} else if (data != null) {
    return data.getNodeType().getNamespace();
} else {
    throw new IllegalArgumentException("Unhandled parameter types: " + Arrays.asList(data).toString());
}

private String localName(final Node<?> data) {
    if (data instanceof NodeWrapper) {
        return ((NodeWrapper<?>) data).getLocalName();
    } else if (data != null) {
        return data.getNodeType().getLocalName();
    } else {
        throw new IllegalArgumentException("Unhandled parameter types: " + Arrays.asList(data).toString());
    }
}

private String getName(final Node<?> data) {
    if (data instanceof NodeWrapper) {
        return ((NodeWrapper<?>) data).getLocalName();
    } else if (data != null) {
        return data.getNodeType().getLocalName();
    } else {
        throw new IllegalArgumentException("Unhandled parameter types: " + Arrays.asList(data).toString());
    }
}

private TypeDefinition<? extends Object> _typeDefinition(final LeafSchemaNode node) {
    TypeDefinition<?> baseType = node.getType();
    while (baseType.getBaseType() != null) {
        baseType = baseType.getBaseType();
    }

    return baseType;
}

private TypeDefinition<? extends Object> typeDefinition(final LeafListSchemaNode node) {
    TypeDefinition<?> baseType = node.getType();
    while (baseType.getBaseType() != null) {
        baseType = baseType.getBaseType();
    }

    return baseType;
}
private TypeDefinition<? extends Object> typeDefinition(final DataSchemaNode node) {
    if (node instanceof LeafListSchemaNode) {
        return typeDefinition((LeafListSchemaNode) node);
    } else if (node instanceof LeafSchemaNode) {
        return _typeDefinition((LeafSchemaNode) node);
    } else if (node instanceof AnyXmlSchemaNode) {
        return null;
    } else {
        throw new IllegalArgumentException("Unhandled parameter types: " + Arrays.<Object>
                asList(node).toString());
    }
}

private CompositeNode datastoreNormalizedNodeToCompositeNode(final NormalizedNode<?, ?> dataNode,
        final DataSchemaNode schema) {
    Node<?> nodes = null;
    if (dataNode == null) {
        throw new RestconfDocumentedException(new RestconfError(ErrorType.APPLICATION,
                ErrorTag.DATA_MISSING,
                "No data was found.");
    }
    nodes = DataNormalizer.toLegacy(dataNode);
    if (nodes != null) {
        if (nodes instanceof CompositeNode) {
            return (CompositeNode) nodes;
        } else {
            LOG.error("The node " + dataNode.getNodeType() + " couldn't be transformed to compositenode.");
        }
    } else {
        LOG.error("Top level node isn't of type Container or List schema node but "
                + schema.getClass().getSimpleName());
    }
    throw new RestconfDocumentedException(new RestconfError(ErrorType.APPLICATION,
            ErrorTag.INVALID_VALUE,
            "It wasn't possible to correctly interpret data.");
}

private NormalizedNode<?, ?> compositeNodeToDatastoreNormalizedNode(final CompositeNode compNode,
        final DataSchemaNode schema) {
    List<Node<?>> lst = new ArrayList<Node<?>>();
    lst.add(compNode);
    if (schema instanceof ContainerSchemaNode) {
        return CnSnToNormalizedNodeParserFactory.getInstance().getContainerNodeParser()
                .parse(lst, (ContainerSchemaNode) schema);
    } else if (schema instanceof ListSchemaNode) {
        return CnSnToNormalizedNodeParserFactory.getInstance().getMapEntryNodeParser()
                .parse(lst, (ListSchemaNode) schema);
    } else {
        throw new IllegalArgumentException("Unhandled parameter types: " + Arrays.<Object>
                asList(schema).toString());
    }
}
LOG.error("Top level isn't of type container, list, leaf schema node but " + 
    schema.getClass().getSimpleName());

throw new RestconfDocumentedException(new RestconfError(ErrorType.APPLICATION, 
    ErrorTag.INVALID_VALUE, 
    "It wasn't possible to translate specified data to datastore readable form.");

private InstanceIdentifierContext normalizeInstanceIdentifierWithSchemaNode(
    final InstanceIdentifierContext iiWithSchemaNode) {
    return normalizeInstanceIdentifierWithSchemaNode(iiWithSchemaNode, false);
}

private InstanceIdentifierContext normalizeInstanceIdentifierWithSchemaNode(
    final InstanceIdentifierContext iiWithSchemaNode, final boolean unwrapLastListNode) {
    return new InstanceIdentifierContext(instanceIdentifierToReadableFormForNormalizeNode(
        iiWithSchemaNode.getInstanceIdentifier(), unwrapLastListNode), iiWithSchemaNode.getSchemaNode(), 
        iiWithSchemaNode.getMountPoint(),iiWithSchemaNode.getSchemaContext());
}

private YangInstanceIdentifier instanceIdentifierToReadableFormForNormalizeNode(
    final YangInstanceIdentifier instIdentifier, final boolean unwrapLastListNode) {
    Preconditions.checkNotNull(instIdentifier, "Instance identifier can’t be null");
    final List<PathArgument> result = new ArrayList<PathArgument>();
    final Iterator<PathArgument> iter = instIdentifier.getPathArguments().iterator();
    while (iter.hasNext()) {
        final PathArgument pathArgument = iter.next();
        if (pathArgument instanceof NodeIdentifierWithPredicates && (iter.hasNext() || unwrapLastListNode)) {
            result.add(new YangInstanceIdentifier.NodeIdentifier(pathArgument.getNodeType()));
        }
        result.add(pathArgument);
    }
    return YangInstanceIdentifier.create(result);
}

private CompositeNodeWrapper topLevelElementAsCompositeNodeWrapper(final NodeWrapper<?> node, 
    final DataSchemaNode schemaNode) {
    if (node instanceof CompositeNodeWrapper) {
        return (CompositeNodeWrapper) node;
    } else if (node instanceof SimpleNodeWrapper && isDataContainerNode(schemaNode)) {
        final SimpleNodeWrapper simpleNodeWrapper = (SimpleNodeWrapper) node;
        return new CompositeNodeWrapper(namespace(simpleNodeWrapper), localName(simpleNodeWrapper));
    }

    throw new RestconfDocumentedException(new RestconfError(ErrorType.APPLICATION, 
        ErrorTag.INVALID_VALUE, 
        "It wasn't possible to translate specified data to datastore readable form.");
}
private boolean isDataContainerNode(final DataSchemaNode schemaNode) {
    if (schemaNode instanceof ContainerSchemaNode || schemaNode instanceof ListSchemaNode) {
        return true;
    }
    return false;
}

public BigInteger getOperationalReceived() {
    // TODO Auto-generated method stub
    return null;
}

7.173 sal-rest-docgen 1.1.1-Helium-SR1
7.173.1 Available under license:

    /*
    * Copyright (c) 2014 Cisco Systems, Inc. and others. All rights reserved.
    *
    * This program and the accompanying materials are made available under the
    * terms of the Eclipse Public License v1.0 which accompanies this distribution,
    * and is available at http://www.eclipse.org/legal/epl-v10.html
    */
    package org.opendaylight.controller.sal.rest.doc.impl;

    import java.io.ByteArrayOutputStream;
    import java.io.OutputStreamWriter;
    import java.util.Map.Entry;
    import javax.ws.rs.core.Response;
    import javax.ws.rs.core.UriInfo;
    import org.json.JSONWriter;
    import org.opendaylight.controller.sal.rest.doc.api.ApiDocService;
    import org.opendaylight.controller.sal.rest.doc.mountpoints.MountPointSwagger;
    import org.opendaylight.controller.sal.rest.doc.swagger.ApiDeclaration;
    import org.opendaylight.controller.sal.rest.doc.swagger.ResourceList;

    /**
    * This service generates swagger (See <a
    * href="https://helloreverb.com/developers/swagger"
    * https://helloreverb.com/developers/swagger</a>) compliant documentation for
    * RESTCONF APIs. The output of this is used by embedded Swagger UI.
    * */
* NOTE: These API's need to be synchronized due to bug 1198. Thread access to
* the SchemaContext is not synchronized properly and thus you can end up with
* missing definitions without this synchronization. There are likely otherways
* to work around this limitation, but given that this API is a dev only tool
* and not dependent UI, this was the fastest work around.
*
*/

public class ApiDocServiceImpl implements ApiDocService {

    private static final ApiDocService INSTANCE = new ApiDocServiceImpl();

    public static ApiDocService getInstance() {
        return INSTANCE;
    }

    /**
     * Generates index document for Swagger UI. This document lists out all
     * modules with link to get APIs for each module. The API for each module is
     * served by <code> getDocByModule()</code> method.
     *
     * @param uriInfo
     * @return
     */
    @Override
    public synchronized Response getRootDoc(UriInfo uriInfo) {
        ApiDocGenerator generator = ApiDocGenerator.getInstance();
        ResourceList rootDoc = generator.getResourceListing(uriInfo);

        return Response.ok(rootDoc).build();
    }

    /**
     * Generates Swagger compliant document listing APIs for module.
     *
     * @param module
     * @param revision
     * @param uriInfo
     * @return
     */
    @Override
    public synchronized Response getDocByModule(String module, String revision, UriInfo uriInfo) {
        ApiDocGenerator generator = ApiDocGenerator.getInstance();
        ApiDeclaration doc = generator.getApiDeclaration(module, revision, uriInfo);

        return Response.ok(doc).build();
    }

    /**
* Redirects to embedded swagger ui.
* @param uriInfo
* @return
*/

@Override
public synchronized Response getApiExplorer(UriInfo uriInfo) {
    return Response
        .seeOther(uriInfo.getBaseUriBuilder().path("../explorer/index.html").build())
        .build();
}

@Override
public synchronized Response getListOfMounts(UriInfo uriInfo) {
    ByteArrayOutputStream baos = new ByteArrayOutputStream();
    try (OutputStreamWriter streamWriter = new OutputStreamWriter(baos)) {
        JSONWriter writer = new JSONWriter(streamWriter);
        writer.array();
        for (Entry<String, Long> entry : MountPointSwagger.getInstance().getInstanceIdentifiers().entrySet()) {
            writer.object();
            writer.key("instance").value(entry.getKey());
            writer.key("id").value(entry.getValue());
            writer.endObject();
        }
        writer.endArray();
    } catch (Exception e) {
        return Response.status(500).entity(e.getMessage()).build();
    }
    return Response.status(200).entity(baos.toString()).build();
}

@Override
public synchronized Response getMountRootDoc(String instanceNum, UriInfo uriInfo) {
    ResourceList resourceList = MountPointSwagger.getInstance().getResourceList(uriInfo, Long.parseLong(instanceNum));
    return Response.ok(resourceList).build();
}

@Override
public synchronized Response getMountDocByModule(String instanceNum, String module, String revision, UriInfo uriInfo) {
    ApiDeclaration api = MountPointSwagger.getInstance().getMountPointApi(uriInfo, Long.parseLong(instanceNum), module, revision);
    return Response.ok(api).build();
}
/*
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 */
package org.opendaylight.controller.sal.rest.doc.jaxrs;

import java.util.HashSet;
import java.util.Set;
import javax.ws.rs.core.Application;
import org.opendaylight.controller.sal.rest.doc.impl.ApiDocServiceImpl;

public class ApiDocApplication extends Application {
    @Override
    public Set<Object> getSingletons() {
        Set<Object> singletons = new HashSet<>();
        singletons.add(ApiDocServiceImpl.getInstance());
        singletons.add(new JaxbContextResolver());
        return singletons;
    }
}

7.174 sal-restconf-broker 1.1.1-Helium-SR1

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 */
package org.opendaylight.controller.sal.restconf.binding.impl;

import java.net.URL;
import org.opendaylight.controller.sal.binding.api.data.DataBrokerService;
import org.opendaylight.controller.sal.binding.api.data.DataChangeListener;
import org.opendaylight.controller.sal.binding.api.data.DataModificationTransaction;
import org.opendaylight.yangtools.concepts.ListenerRegistration;
import org.opendaylight.yangtools.restconf.client.api.RestconfClientContext;
import org.opendaylight.yangtools.restconf.client.api.RestconfClientContextFactory;
import org.opendaylight.yangtools.restconf.client.api.UnsupportedProtocolException;
import org.opendaylight.yangtools.yang.binding.DataObject;
import org.opendaylight.yangtools.yang.binding.InstanceIdentifier;
import org.opendaylight.yangtools.yang.model.api.SchemaContextHolder;
import org.slf4j.Logger;
import org.slf4j.LoggerFactory;

public class DataBrokerServiceImpl implements DataBrokerService {
    private static final Logger logger = LoggerFactory.getLogger(DataBrokerServiceImpl.class.toString());
    private final RestconfClientContext restconfClientContext;
    private final RestconfClientContextFactory restconfClientContextFactory = null;

    public DataBrokerServiceImpl(URL baseUrl, BindingIndependentMappingService mappingService,
                                 SchemaContextHolder schemaContextHolder) throws UnsupportedProtocolException {
        this.restconfClientContext = restconfClientContextFactory.getRestconfClientContext(baseUrl, mappingService, schemaContextHolder);
    }

    @Override
    public DataModificationTransaction beginTransaction() {
        //TODO implementation using sal-remote
        return null;
    }

    @Override
    public DataObject readConfigurationData(InstanceIdentifier<? extends DataObject> path) {
        //TODO implementation using restconf-client
        return null;
    }

    @Override
    public DataObject readOperationalData(InstanceIdentifier<? extends DataObject> path) {
        //TODO implementation using restconf-client
        return null;
    }

    @Override
    public ListenerRegistration<DataChangeListener> registerDataChangeListener(InstanceIdentifier<? extends DataObject> path, DataChangeListener listener) {
        //TODO implementation using restconf-client
        return null;
    }
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*/
package org.opendaylight.controller.sal.restconf.broker.client;

import java.net.URL;
import javassist.ClassPool;
import org.opendaylight.controller.sal.binding.api.BindingAwareConsumer;
import org.opendaylight.controller.sal.restconf.broker.SalRemoteServiceBroker;
import org.opendaylight.yangtools.restconf.client.RestconfClientFactory;
import org.opendaylight.yangtools.restconf.client.api.RestconfClientContext;
import org.opendaylight.yangtools.restconf.client.api.UnsupportedProtocolException;
import org.opendaylight.yangtools.sal.binding.generator.impl.ModuleInfoBackedContext;
import org.opendaylight.yangtools.sal.bindinggenerator.impl.RuntimeGeneratedMappingServiceImpl;
import org.opendaylight.yangtools.yang.binding.util.BindingReflections;
import org.slf4j.Logger;
import org.slf4j.LoggerFactory;
import com.google.common.base.Preconditions;

class SalRemoteClientImpl implements SalRemoteClient {
    private static final Logger logger = LoggerFactory.getLogger(SalRemoteClientImpl.class);
    private final RestconfClientContext restconfClientContext;
    private final SalRemoteServiceBroker salRemoteBroker;
    private final RuntimeGeneratedMappingServiceImpl mappingService;

    public SalRemoteClientImpl(final URL url) {
        Preconditions.checkNotNull(url);
        this.mappingService = new RuntimeGeneratedMappingServiceImpl(ClassPool.getDefault());
        final ModuleInfoBackedContext moduleInfo = ModuleInfoBackedContext.create();
        moduleInfo.addModuleInfos(BindingReflections.loadModuleInfos());
        this.mappingService.onGlobalContextUpdated(moduleInfo.tryToCreateSchemaContext().get());
        try {
            this.restconfClientContext = new RestconfClientFactory().getRestconfClientContext(url,
                    this.mappingService,
                    this.mappingService);
            this.salRemoteBroker = new SalRemoteServiceBroker("remote-broker", restconfClientContext);
            this.salRemoteBroker.start();
        }
    }
}
} catch (UnsupportedProtocolException e) {
    logger.error("Unsupported protocol ". url.getProtocol(), e);
    throw new IllegalArgumentException("Unsupported protocol.", e);
}

@Override
public ConsumerContext registerConsumer() {
    return this.salRemoteBroker.registerConsumer(new BindingAwareConsumer() {

        @Override
        public void onSessionInitialized(ConsumerContext session) {
        }
    }, null);
}

@Override
public void close() throws Exception {
    this.restconfClientContext.close();
    this.salRemoteBroker.close();
}

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 */
package org.opendaylight.controller.sal.restconf.broker.impl;

import java.util.Map;
import java.util.concurrent.ExecutionException;
import java.util.concurrent.Future;
import org.opendaylight.controller.sal.binding.api.data.DataBrokerService;
import org.opendaylight.controller.sal.binding.api.data.DataChangeListener;
import org.opendaylight.controller.sal.binding.api.data.DataModificationTransaction;
import org.opendaylight.controller.sal.restconf.broker.listeners.RemoteDataChangeNotificationListener;
import org.opendaylight.controller.sal.restconf.broker.transactions.RemoteDataModificationTransaction;
import org.opendaylight.yang.gen.v1.urn.opendaylight.params.xml.ns.yang.controller.md.sal.remote.rev140114.BeginTransactionOutput;
import org.opendaylight.yang.gen.v1.urn.opendaylight.params.xml.ns.yang.controller.md.sal.remote.rev140114.CreateDataChangeEventSubscriptionInputBuilder;
import org.opendaylight.yang.gen.v1.urn.opendaylight.params.xml.ns.yang.controller.md.sal.remote.rev140114.CreateChangeEventSubscriptionOutput;
import org.opendaylight.yang.gen.v1.urn.opendaylight.params.xml.ns.yang.controller.md.sal.remote.rev140114.SalRemoteService;
import org.opendaylight.yangtools.concepts.AbstractListenerRegistration;
import org.opendaylight.yangtools.concepts.ListenerRegistration;
import org.opendaylight.yangtools.restconf.client.api.RestconfClientContext;
import org.opendaylight.yangtools.restconf.client.api.event.EventStreamInfo;
import org.opendaylight.yangtools.restconf.client.api.event.ListenableEventStreamContext;
import org.opendaylight.yangtools.restconf.client.api.event.ListenableEventStreamContext;
import org.opendaylight.yangtools.yang.binding.DataObject;
import org.opendaylight.yangtools.yang.common.RpcResult;
import org.slf4j.Logger;
import org.slf4j.LoggerFactory;
import com.google.common.base.Optional;

public class DataBrokerServiceImpl implements DataBrokerService {

    private static final Logger logger = LoggerFactory.getLogger(DataBrokerServiceImpl.class.toString());
    private final RestconfClientContext restconfClientContext;
    private final SalRemoteService salRemoteService;

    public DataBrokerServiceImpl(RestconfClientContext restconfClientContext) {
        this.restconfClientContext = restconfClientContext;
        this.salRemoteService =
        this.restconfClientContext.getRpcServiceContext(SalRemoteService.class).getRpcService();
    }

    @Override
    public DataModificationTransaction beginTransaction() {
        Future<RpcResult<BeginTransactionOutput>> rpcResultFuture = this.salRemoteService.beginTransaction();
        //TODO finish yang model for proper remoteDataModificationTransaction setup
        RemoteDataModificationTransaction remoteDataModificationTransaction = new RemoteDataModificationTransaction();
        return remoteDataModificationTransaction;
    }

    @Override
    public DataObject readConfigurationData(InstanceIdentifier<? extends DataObject> path) {
        try {
            Optional<DataObject> optDataObject = (Optional<DataObject>)
            this.restconfClientContext.getConfigurationDatastore().readData(path).get();
            if (optDataObject.isPresent()){
                return optDataObject.get();
            }
        } catch (IOException e) {
            logger.error("Failed to read configuration data", e);
        }
        return null;
    }
}
catch (InterruptedException e) {
    logger.trace("Reading configuration data interrupted 
"+e);
}
}

@Override
public DataObject readOperationalData(InstanceIdentifier<? extends DataObject> path) {
    try {
        Optional<DataObject> optDataObject = (Optional<DataObject>)
        this.restconfClientContext.getOperationalDatastore().readData(path).get();
        if (optDataObject.isPresent()){
            return optDataObject.get();
        }
    } catch (InterruptedException e) {
        logger.trace("Reading configuration data interrupted 
"+e);
    }
    catch (ExecutionException e) {
        logger.trace("Reading configuration execution exception 
"+e);
    }
    throw new IllegalStateException("No data to return.");
}

@Override
public ListenerRegistration<DataChangeListener> registerDataChangeListener(InstanceIdentifier<? extends DataObject> path, DataChangeListener listener) {
    CreateDataChangeEventSubscriptionInputBuilder inputBuilder = new
    CreateDataChangeEventSubscriptionInputBuilder();
    Future<RpcResult<CreateDataChangeEventSubscriptionOutput>> rpcResultFuture =
    salRemoteService.createDataChangeEventSubscription(inputBuilder.setPath(path).build());
    String streamName = "";
    try {
        if (rpcResultFuture.get().isSuccessful()){ 
            streamName = rpcResultFuture.get().getResult().getStreamName();
        }
    } catch (InterruptedException e) {
        logger.trace("Interupted while getting rpc result due to 
"+e);
    } catch (ExecutionException e) {
        logger.trace("Execution exception while getting rpc result due to 
"+e);
    }
    final Map<String,EventStreamInfo> desiredEventStream =
    RemoteStreamTools.createEventStream(restconfClientContext.streamName);
    ListenableEventStreamContext restConfListenableEventStreamContext =
    restconfClientContext.getEventStreamContext(desiredEventStream.get(streamName));
    RemoteDataChangeNotificationListener remoteDataChangeNotificationListener = new
    RemoteDataChangeNotificationListener(listener);
    final ListenerRegistration<?> reg =
    restConfListenableEventStreamContext.registerNotificationListener(remoteDataChangeNotificationListener);
return new AbstractListenerRegistration<DataChangeListener>(listener) {
    @Override
    protected void removeRegistration() {
        reg.close();
    }
};
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 */
package org.opendaylight.controller.sal.restconf.broker.impl;

import java.util.ArrayList;
import java.util.List;
import java.util.Map;
import org.opendaylight.controller.sal.binding.api.NotificationListener;
import org.opendaylight.controller.sal.binding.api.NotificationService;
import org.opendaylight.controller.sal.restconf.broker.listeners.RemoteNotificationListener;
import org.opendaylight.yang.gen.v1.urn.opendaylight.params.xml.ns.yang.controller.md.sal.remote.rev140114.QName;
import org.opendaylight.yang.gen.v1.urn.opendaylight.params.xml.ns.yang.controller.md.sal.remote.rev140114.SalRemoteService;
import org.opendaylight.yangtools.concepts.AbstractListenerRegistration;
import org.opendaylight.yangtools.concepts.ListenerRegistration;
import org.opendaylight.yangtools.restconf.client.api.RestconfClientContext;
import org.opendaylight.yangtools.restconf.client.api.event.EventStreamInfo;
import org.opendaylight.yangtools.yang.binding.Notification;

public class NotificationServiceImpl implements NotificationService {
    private final SalRemoteService salRemoteService;
    private final RestconfClientContext restconfClientContext;

    public NotificationServiceImpl(RestconfClientContext restconfClientContext) {
        this.restconfClientContext = restconfClientContext;
        this.salRemoteService =
            this.restconfClientContext.getRpcServiceContext(SalRemoteService.class).getRpcService();
    }

    @Override
    public <T extends Notification> ListenerRegistration<NotificationListener<T>>
registerNotificationListener(Class<T> notificationType, NotificationListener<T> listener) {
    //TODO implementation using sal-remote
    List<QName> notifications = new ArrayList<QName>();
    notifications.add(new QName(notificationType.toString()));
    String notificationStreamName = RemoteStreamTools.createNotificationStream(salRemoteService,
    notifications);
    final Map<String,EventStreamInfo> desiredEventStream =
    RemoteStreamTools.createEventStream(restconfClientContext, notificationStreamName);
    RemoteNotificationListener remoteNotificationListener = new RemoteNotificationListener(listener);

    final ListenerRegistration<?> listenerRegistration =
    restconfClientContext.getEventStreamContext(desiredEventStream.get(desiredEventStream.get(notificationStream
    Name)))).registerNotificationListener(remoteNotificationListener);

    return new AbstractListenerRegistration<NotificationListener<T>>(listener) {
        @Override
        protected void removeRegistration() {
            listenerRegistration.close();
        }
    };
}

@Override
public ListenerRegistration<org.opendaylight.yangtools.yang.binding.NotificationListener> registerNotificationListener(org.opendaylight.yangtools.yang.binding.NotificationListener listener) {
    //TODO implementation using sal-remote
    String notificationStreamName = RemoteStreamTools.createNotificationStream(salRemoteService, null);
    final Map<String,EventStreamInfo> desiredEventStream =
    RemoteStreamTools.createEventStream(restconfClientContext, notificationStreamName);
    return
    restconfClientContext.getEventStreamContext(desiredEventStream.get(desiredEventStream.get(notificationStream
    Name)))).registerNotificationListener(listener);
}
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 */
package org.opendaylight.controller.sal.restconf.broker.impl;

import org.opendaylight.controller.sal.binding.api.RpcConsumerRegistry;
import org.opendaylight.yangtools.restconf.client.api.RestconfClientContext;
import org.opendaylight.yangtools.yang.binding.RpcService;
public class RpcConsumerRegistryImpl implements RpcConsumerRegistry {

    private RestconfClientContext restconfClientContext;

    public RpcConsumerRegistryImpl(RestconfClientContext restconfClientContext) {
        this.restconfClientContext = restconfClientContext;
    }

    @Override
    public <T extends RpcService> T getRpcService(Class<T> module) {
        return restconfClientContext.getRpcServiceContext(module).getRpcService();
    }
}

### 7.175 sal-test-model 1.1.1-Helium-SR1

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7.179 Sisu - Inject (JSR330 bean support)  
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7.182 Sisu-Inject-Bean: Aggregate OSGi bundle 2.3.0

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package org.sonatype.guice.bean.locators;

import org.sonatype.guice.bean.reflect.DeferredProvider;
import com.google.inject.Provider;
import com.google.inject.spi.BindingTargetVisitor;
import com.google.inject.spi.ConstructorBinding;
import com.google.inject.spi.DefaultBindingTargetVisitor;
import com.google.inject.spi.ExposedBinding;
import com.google.inject.spi.InstanceBinding;
import com.google.inject.spi.LinkedKeyBinding;
import com.google.inject.spi.ProviderInstanceBinding;
import com.google.inject.spi.UntargettedBinding;

/**
 * { @link BindingTargetVisitor } that attempts to discover implementations behind bindings.
 */
final class ImplementationVisitor
extends DefaultBindingTargetVisitor<Object, Class<?>>
{

    // Constants
    // -------------------------------

    static final ImplementationVisitor THIS = new ImplementationVisitor();

    // -------------------------------

    // Public methods
    // -------------------------------

    @Override
    public Class<?> visit( final UntargettedBinding<?> binding )
    {
        return binding.getKey().getTypeLiteral().getRawType();
    }

    @Override
    public Class<?> visit( final LinkedKeyBinding<?> binding )
    {
        // this assumes only one level of indirection: api-->impl
        return binding.getLinkedKey().getTypeLiteral().getRawType();
    }

    @Override
    public Class<?> visit( final ConstructorBinding<?> binding )
    {
        return binding.getConstructor().getDeclaringType().getRawType();
    }

    @Override
    public Class<?> visit( final InstanceBinding<?> binding )
    {
        return binding.getInstance().getClass();
    }

    @Override
    public Class<?> visit( final ProviderInstanceBinding<?> binding )
    {
    }
final Provider<?> provider = binding.getProviderInstance();
if ( provider instanceof DeferredProvider<?> )
{
  try
  {
    // deferred providers let us peek at the underlying implementation type
    return ((DeferredProvider<?>) provider).getImplementationClass().load();
  }
  catch ( final TypeNotPresentException e ) // NOPMD
  {
    // fall-through
  }
}
return null;

@Override
public Class<?> visit( final ExposedBinding<?> binding )
{
  return binding.getPrivateElements().getInjector().getBinding( binding.getKey() ).acceptTargetVisitor( this );
}

package org.sonatype.guice.bean.locators;
import java.lang.annotation.Retention;
import java.lang.annotation.RetentionPolicy;
import java.lang.annotation.Target;
import javax.inject.Qualifier;

/**
 * {@link Qualifier} used to record and tag implicit bindings (not for direct use).
 */
@Qualifier
@Retention( RetentionPolicy.RUNTIME )
@Target( value = {} )
public @interface Implicit
package org.sonatype.guice.bean.locators;

import java.lang.annotation.Annotation;
import org.sonatype.guice.bean.reflect.Logs;
import com.google.inject.Binding;
import com.google.inject.ImplementedBy;
import com.google.inject.Injector;
import com.google.inject.Key;
import com.google.inject.ProvidedBy;
import com.google.inject.TypeLiteral;

/**
 * Source of "implicit" bindings; includes @{Impl<entBy}, @{Provid<edBy}, and concrete types.
 */
final class ImplicitBindings
{
    private final Iterable<Injector> injectors;

    ImplicitBindings( final BeanLocator locator )
    {
        injectors = new EntryListAdapter<Annotation, Injector>( locator.locate( Key.get( Injector.class ) ));
    }

    // Public methods
// SupressWarnings( "unchecked", "rawtypes" )

public <T> Binding<T> get( final TypeLiteral<T> type )
{
    final Key implicitKey = Key.get( type.getRawType(), Implicit.class );
    for ( final Injector i : injectors )
    {
        try
        {
            // first round: check for any re-written implicit bindings
            final Binding binding = i.getBindings().get( implicitKey );
            if ( null != binding )
            {
                Logs.debug( "Using implicit binding: {} from: <>", binding, i );
                return binding;
            }
        }
        catch ( final Throwable e )
        {
            continue; // no luck, move onto next injector
        }
    }

    final Key justInTimeKey = Key.get( type );
    for ( final Injector i : injectors )
    {
        try
        {
            // second round: fall back to just-in-time lookup
            final Binding binding = i.getBinding( justInTimeKey );
            if ( InjectorPublisher.isVisible( binding ) )
            {
                Logs.debug( "Using just-in-time binding: {} from: <>", binding, i );
                return binding;
            }
        }
        catch ( final Throwable e )
        {
            continue; // no luck, move onto next injector
        }
    }
    return null;
}
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7.186 Sisu-Inject-Plexus : Aggregate OSGi
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7.190 statistics-manager 1.1.1-Helium-SR1
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*/

package org.opendaylight.controller.md.statistics.manager.impl;
import java.util.ArrayList;
import java.util.List;
import org.opendaylight.controller.md.sal.binding.api.ReadWriteTransaction;
import org.opendaylight.controller.md.sal.common.api.data.LogicalDatastoreType;
import org.opendaylight.controller.md.sal.common.api.data.ReadFailedException;
import org.opendaylight.controller.md.statistics.manager.StatisticsManager;
import org.opendaylight.controller.sal.binding.api.NotificationProviderService;
import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.inventory.rev130819.FlowCapableNode;
import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.inventory.rev130819.tables.Table;
import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.inventory.rev130819.tables.TableBuilder;
import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.inventory.rev130819.tables.TableKey;
import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.table.statistics.rev131215.FlowTableStatisticsData;
import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.table.statistics.rev131215.FlowTableStatisticsDataBuilder;
import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.table.statistics.rev131215.FlowTableStatisticsUpdate;
import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.table.statistics.rev131215.OpendaylightFlowTableStatisticsListener;
import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.table.statistics.rev131215.OpendaylightFlowTableStatisticsListener;
import org.opendaylight.yangtools.yang.binding.InstanceIdentifier;
import org.opendaylight.yangtools.yang.binding.InstanceIdentifier;
import org.opendaylight.yangtools.yang.binding.InstanceIdentifier;
import org.slf4j.Logger;
import org.slf4j.LoggerFactory;
import com.google.common.base.Optional;

/**
 * statistics-manager
 * org.opendaylight.controller.md.statistics.manager.impl
 * * StatNotifyCommitTable
* Class is a NotifyListener for TableStatistics
* All expected (registered) tableStatistics will be builded and
* commit to Operational/DataStore
*
* @author <a href="mailto:vdemcak@cisco.com">Vaclav Demcak</a>
* */

public class StatNotifyCommitTable extends StatAbstractNotifyCommit<OpendaylightFlowTableStatisticsListener>
    implements OpendaylightFlowTableStatisticsListener {

    private final static Logger LOG = LoggerFactory.getLogger(StatNotifyCommitTable.class);

    public StatNotifyCommitTable(final StatisticsManager manager,
        final NotificationProviderService nps) {
        super(manager, nps);
    }

    @Override
    protected OpendaylightFlowTableStatisticsListener getStatNotificationListener() {
        return this;
    }

    @Override
    public void onFlowTableStatisticsUpdate(final FlowTableStatisticsUpdate notification) {
        final TransactionId transId = notification.getTransactionId();
        final NodeId nodeId = notification.getId();
        if ( ! isExpectedStatistics(transId, nodeId)) {
            LOG.debug("STAT-MANAGER - FlowTableStatisticsUpdate: unregistred notification detect TransactionId
            [ {}", transId);
            return;
        }
        manager.getRpcMsgManager().addNotification(notification, nodeId);
        if (notification.isMoreReplies()) {
            return;
        }
        /* Don't block RPC Notification thread */
        manager.enqueue(new StatDataStoreOperation() {
            @Override
            public void applyOperation(final ReadWriteTransaction trans) {
                final List<FlowTableAndStatisticsMap> tableStats = new ArrayList<FlowTableAndStatisticsMap>(10);
                final Optional<TransactionCacheContainer<?>> txContainer = getTransactionCacheContainer(transId,
                    nodeId);
                final InstanceIdentifier<Node> nodeIdent = InstanceIdentifier.create(Nodes.class)
                    .child(Node.class, new NodeKey(nodeId));
                if (( ! txContainer.isPresent()) || txContainer.get().getNodeId() == null) {
                    return;
                }
            }
        });
    }

    private static boolean isExpectedStatistics(TransactionId transId, NodeId nodeId) {
        // Implementation here
    }

    private TransactionCacheContainer findTransactionCacheContainer(NodeId nodeId) {
        // Implementation here
    }

    private static boolean isSupportedStatistics() {
        // Implementation here
    }
}
final List<? extends TransactionAware> cachedNotifs = txContainer.get().getNotifications();
for (final TransactionAwarenotif : cachedNotifs) {
    if (notif instanceof FlowTableStatisticsUpdate) {
        final List<FlowTableAndStatisticsMap> statNotif =
            ((FlowTableStatisticsUpdate) notif).getFlowTableAndStatisticsMap();
        if (statNotif != null) {
            tableStats.addAll(statNotif);
        }
    }
    /* write stat to trans */
    statTableCommit(tableStats, nodeIdent, trans);
    /* Notification for continue collecting statistics - Tables statistics are still same size
    * and they are small - don't need to wait to whole apply operation */
    notifyToCollectNextStatistics(nodeIdent);
}
});

private void statTableCommit(final List<FlowTableAndStatisticsMap> tableStats, final InstanceIdentifier<Node> nodeIdent,
    final ReadWriteTransaction trans) {
    final InstanceIdentifier<FlowCapableNode> fNodeIdent = nodeIdent.augmentation(FlowCapableNode.class);
    /* check flow Capable Node and write statistics */
    Optional<FlowCapableNode> fNode = Optional.absent();
    try {
        fNode = trans.read(LogicalDatastoreType.OPERATIONAL, fNodeIdent).checkedGet();
    }
    catch (final ReadFailedException e) {
        LOG.debug("Read Operational/DS for FlowCapableNode fail! {}", fNodeIdent, e);
        return;
    }
    if ( ! fNode.isPresent()) {
        LOG.trace("Read Operational/DS for FlowCapableNode fail! Node {} doesn't exist.", fNodeIdent);
        return;
    }
    for (final FlowTableAndStatisticsMap tableStat : tableStats) {
        final InstanceIdentifier<Table> tableIdent = fNodeIdent
            .child(Table.class, new TableKey(tableStat.getTableId().getValue()));
        final Table table = new TableBuilder().setId(tableStat.getTableId().getValue()).build();
        trans.merge(LogicalDatastoreType.OPERATIONAL, tableIdent, table);
        final InstanceIdentifier<FlowTableStatisticsData> tableStatIdent = tableIdent
            .augmentation(FlowTableStatisticsData.class);
        trans.merge(LogicalDatastoreType.OPERATIONAL, tableStatIdent, new
            FlowTableStatisticsDataBuilder().build());
        final FlowTableStatistics stats = new FlowTableStatisticsBuilder(tableStat).build();
        final InstanceIdentifier<FlowTableStatistics> tStatIdent = tableStatIdent.child(FlowTableStatistics.class);
        final FlowTableStatisticsBuilder tStatBuilder = new FlowTableStatisticsBuilder(tStatIdent);
        tStatBuilder.setTableId(tableStat.getTableId());
        final FlowTableStatisticsUpdate update = new FlowTableStatisticsUpdateBuilder()
            .setNotif(tStatBuilder.build()).build();
        final InstanceIdentifier<FlowTableStatisticsUpdate> updateIdent = tStatIdent
            .child(FlowTableStatisticsUpdate.class);
        trans.merge(LogicalDatastoreType.OPERATIONAL, updateIdent, update);
    }
trans.put(LogicalDatastoreType.OPERATIONAL, tStatIdent, stats);
}
}
*/

package org.opendaylight.controller.md.statistics.manager.impl;

import java.util.ArrayList;
import java.util.Collections;
import java.util.List;
import org.opendaylight.controller.md.sal.binding.api.DataBroker;
import org.opendaylight.controller.md.sal.binding.api.DataChangeListener;
import org.opendaylight.controller.md.sal.binding.api.ReadWriteTransaction;
import org.opendaylight.controller.md.sal.common.api.data.LogicalDatastoreType;
import org.opendaylight.controller.md.sal.common.api.data.ReadFailedException;
import org.opendaylight.controller.md.statistics.manager.StatNodeRegistration;
import org.opendaylight.controller.md.statistics.manager.StatisticsManager;
import org.opendaylight.controller.sal.binding.api.NotificationProviderService;
import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.inventory.rev130819.FeatureCapability;
import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.inventory.rev130819.FlowCapableNode;
import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.inventory.rev130819.FlowCapableNodeUpdated;
import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.inventory.rev130819.FlowFeatureCapabilityPortStats;
import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.inventory.rev130819.FlowFeatureCapabilityTableStats;
import org.opendaylight.yanggen.v1.urn.opendaylight.inventory.rev130819.NodeConnectorRemoved;
import org.opendaylight.yang.gen.v1.urn.opendaylight.inventory.rev130819.NodeConnectorUpdated;
import org.opendaylight.yang.gen.v1.urn.opendaylight.inventory.rev130819.NodeRef;
import org.opendaylight.yang.gen.v1.urn.opendaylight.inventory.rev130819.NodeRemoved;
import org.opendaylight.yanggen.v1.urn.opendaylight.inventory.rev130819.NodeUpdated;
import org.opendaylight.yanggen.v1.urn.opendaylight.inventory.rev130819.nodes.Node;
import org.opendaylight.yanggen.v1.urn.opendaylight.meter.statistics.rev131111.NodeMeterFeatures;
import org.opendaylight.yangtools.concepts.ListenerRegistration;
import org.opendaylight.yangtools.yang.binding.InstanceIdentifier;
import org.slf4j.Logger;
import org.slf4j.LoggerFactory;

import com.google.common.base.Optional;
import com.google.common.base.Preconditions;

/**
 * statistics-manager
 * org.opendaylight.controller.md.statistics.manager.impl
 *
 * StatNodeRegistrationImpl
 * @link FlowCapableNode} Registration Implementation contains two method for registration/unregistration
 * @link FeatureCapability} for every connect/disconnect @link FlowCapableNode}. Process of
 * connection/disconnection
 * is substituted by listening Operation/DS for add/delete @link FeatureCapability}.
 * All statistic capabilities are reading from new Node directly without contacting device or DS.
 *
 * @author <a href="mailto:vdemcak@cisco.com">Vaclav Demcak</a>
 *
 * Created: Aug 28, 2014
 */
public class StatNodeRegistrationImpl implements StatNodeRegistration {

    private static final Logger LOG = LoggerFactory.getLogger(StatNodeRegistrationImpl.class);
    private final StatisticsManager manager;
    private ListenerRegistration<DataChangeListener> listenerRegistration;
    private ListenerRegistration<?> notifListenerRegistration;

    public StatNodeRegistrationImpl(final StatisticsManager manager, final DataBroker db,
                                       final NotificationProviderService notificationService) {
        this.manager = Preconditions.checkNotNull(manager, "StatisticManager can not be null!");
        Preconditions.checkArgument(db != null, "DataBroker can not be null!");
        Preconditions.checkArgument(notificationService != null, "NotificationProviderService can not be null!");
        notifListenerRegistration = notificationService.registerNotificationListener(this);
    }

    @Override
    public void close() throws Exception {
        if (notifListenerRegistration != null) {
            try {
                notifListenerRegistration.close();
            } catch (final Exception e) {
                LOG.warn("Error by stop FlowCapableNode Notification StatNodeRegistration.");
            }
            notifListenerRegistration = null;
        }
    }
}
if (listenerRegistration != null) {
    try {
        listenerRegistration.close();
    } catch (final Exception e) {
        LOG.warn("Error by stop FlowCapableNode DataChange StatListeningCommitter.", e);
    }
    listenerRegistration = null;
}

@Override
public void connectFlowCapableNode(final InstanceIdentifier<SwitchFeatures> keyIdent,
final SwitchFeatures data, final InstanceIdentifier<Node> nodeIdent) {
Preconditions.checkNotNull(keyIdent, "InstanceIdentifier can not be null!");
Preconditions.checkNotNull(data, "SwitchFeatures data for {} can not be null!", keyIdent);
Preconditions.checkArgument(!keyIdent.isWildcarded(), "InstanceIdentifier is WildCarded!");

manager.enqueue(new StatDataStoreOperation() {
    @Override
    public void applyOperation(final ReadWriteTransaction tx) {

        final List<StatCapabTypes> statCapabTypes = new ArrayList<>();
        Short maxCapTables = Short.valueOf("1");

        final List<Class<? extends FeatureCapability>> capabilities = data.getCapabilities() != null
            ? data.getCapabilities() : Collections.<Class<? extends FeatureCapability>> emptyList();
        for (final Class<? extends FeatureCapability> capability : capabilities) {
            if (capability == FlowFeatureCapabilityTableStats.class) {
                statCapabTypes.add(StatCapabTypes.TABLE_STATS);
            } else if (capability == FlowFeatureCapabilityFlowStats.class) {
                statCapabTypes.add(StatCapabTypes.FLOW_STATS);
            } else if (capability == FlowFeatureCapabilityGroupStats.class) {
                statCapabTypes.add(StatCapabTypes.GROUP_STATS);
            } else if (capability == FlowFeatureCapabilityPortStats.class) {
                statCapabTypes.add(StatCapabTypes.PORT_STATS);
            } else if (capability == FlowFeatureCapabilityQueueStats.class) {
                statCapabTypes.add(StatCapabTypes.QUEUE_STATS);
            }
        }
        maxCapTables = data.getMaxTables();

        final Optional<Short> maxTables = Optional.<Short> of(maxCapTables);

        /* Meters management */
        final InstanceIdentifier<NodeMeterFeatures> meterFeaturesIdent =
            nodeIdent.augmentation(NodeMeterFeatures.class);
    }
});
Optional<

(NodeMeterFeatures) meterFeatures = Optional.absent();
try {
    meterFeatures = tx.read(LogicalDatastoreType.OPERATIONAL, meterFeaturesIdent).checkedGet();
}
catch (final ReadFailedException e) {
    LOG.warn("Read NodeMeterFeatures {} fail!", meterFeaturesIdent, e);
}
if (meterFeatures.isPresent()) {
    statCapabTypes.add(StatCapabTypes.METER_STATS);
} 
manager.connectedNodeRegistration(nodeIdent,
    Collections.unmodifiableList(statCapabTypes), maxTables.get());
}

@override
public void disconnectFlowCapableNode(final InstanceIdentifier<Node> nodeIdent) {
    Preconditions.checkArgument(nodeIdent != null, "InstanceIdentifier can not be NULL!");
    Preconditions.checkArgument( (! nodeIdent.isWildcarded()),
        "InstanceIdentifier {} is WildCarded!", nodeIdent);
    manager.enqueue(new StatDataStoreOperation() {
        @Override
        public void applyOperation(final ReadWriteTransaction tx) {
            manager.disconnectedNodeUnregistration(nodeIdent);
        }
    });
}

@override
public void onNodeConnectorRemoved(final NodeConnectorRemoved notification) {
    // NOOP
}

@override
public void onNodeConnectorUpdated(final NodeConnectorUpdated notification) {
    // NOOP
}

@override
public void onNodeRemoved(final NodeRemoved notification) {
    final NodeRef nodeRef = notification.getNodeRef();
    final InstanceIdentifier<?> nodeRefIdent = nodeRef.getValue();
    final InstanceIdentifier<Node> nodeIdent =
        nodeRefIdent.firstIdentifierOf(Node.class);
if (nodeIdent != null) {
    disconnectFlowCapableNode(nodeIdent);
}
}

@Override
public void onNodeUpdated(final NodeUpdated notification) {
    final FlowCapableNodeUpdated newFlowNode =
        notification.getAugmentation(FlowCapableNodeUpdated.class);
    if (newFlowNode != null && newFlowNode.getSwitchFeatures() != null) {
        final NodeRef nodeRef = notification.getNodeRef();
        final InstanceIdentifier<?> nodeRefIdent = nodeRef.getValue();
        final InstanceIdentifier<Node> nodeIdent =
            nodeRefIdent.firstIdentifierOf(Node.class);

        final InstanceIdentifier<SwitchFeatures> switchFeaturesIdent =
            nodeIdent.augmentation(FlowCapableNode.class).child(SwitchFeatures.class);
        final SwitchFeatures switchFeatures = newFlowNode.getSwitchFeatures();
        connectFlowCapableNode(switchFeaturesIdent, switchFeatures, nodeIdent);
    }
}

/**
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 * 
 * This program and the accompanying materials are made available under the
 * terms of the Eclipse Public License v1.0 which accompanies this distribution,
 * and is available at http://www.eclipse.org/legal/epl-v10.html
 */

package org.opendaylight.controller.md.statistics.manager.impl;

import java.util.List;
import java.util.concurrent.BlockingQueue;
import java.util.concurrent.CopyOnWriteArrayList;
import java.util.concurrent.Future;
import java.util.concurrent.LinkedBlockingQueue;
import java.util.concurrent.TimeUnit;
import org.opendaylight.controller.md.statistics.manager.StatRpcMsgManager;
import org.opendaylight.controller.md.statistics.manager.StatisticsManager;
import org.opendaylight.controller.sal.binding.api.RpcConsumerRegistry;
import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.inventory.rev130819.tables.TableBuilder;
import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.inventory.rev130819.tables.TableKey;
leForAllFlowsInputBuilder;
import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.statist...
import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.table.statistics.rev131215.OpendaylightFlowTableStatisticsService;
import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.transaction.rev131103.TransactionAware;
import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.transaction.rev131103.TransactionId;
import org.opendaylight.yang.gen.v1.urn.opendaylight.group.statistics.rev131111.GetGroupDescriptionInputBuilder;
import org.opendaylight.yang.gen.v1.urn.opendaylight.group.statistics.rev131111.GetGroupFeaturesInputBuilder;
import org.opendaylight.yang.gen.v1.urn.opendaylight.inventory.rev130819.NodeId;
import org.opendaylight.yang.gen.v1.urn.opendaylight.inventory.rev130819.NodeRef;
import org.opendaylight.yang.gen.v1.urn.opendaylight.inventory.rev130819.nodes.Node;
import org.opendaylight.yang.gen.v1.urn.opendaylight.inventory.rev130819.nodes.NodeKey;
import org.opendaylight.yang.gen.v1.urn.opendaylight.meter.statistics.rev131111.GetAllMeterConfigStatisticsInputBuilder;
import org.opendaylight.yang.gen.v1.urn.opendaylight.meter.statistics.rev131111.GetAllMeterStatisticsInputBuilder;
import org.opendaylight.yang.gen.v1.urn.opendaylight.meter.statistics.rev131111.GetMeterFeaturesInputBuilder;
import org.opendaylight.yang.gen.v1.urn.opendaylight.port.statistics.rev131214.GetAllNodeConnectorsStatisticsInputBuilder;
import org.opendaylight.yang.gen.v1.urn.opendaylight.queue.statistics.rev131216.GetAllQueuesStatisticsFromAllPortsInputBuilder;
import org.opendaylight.yangtools.yang.binding.DataObject;
import org.opendaylight.yangtools.yang.common.RpcResult;
import org.slf4j.Logger;
import org.slf4j.LoggerFactory;
import com.google.common.base.Optional;
import com.google.common.base.Preconditions;

import com.google.common.common.base.Optional;
import com.google.common.common.base.Preconditions;
import com.google.common.cache.Cache;
import com.google.common.cache.CacheBuilder;
import com.google.common.util.concurrent.FutureCallback;
import com.google.common.util.concurrent.Futures;
import com.google.common.util.concurrent.JdkFutureAdapters;
import com.google.common.util.concurrent.SettableFuture;

/**
 * statistics-manager
 * org.opendaylight.controller.md.statistics.manager.impl
 *
 * StatRpcMsgManagerImpl
 * Class register and provide all RPC Statistics Device Services and implement pre-defined
 * wrapped methods for prepare easy access to RPC Statistics Device Services like getAllStatisticsFor...
 * 
 * * In next Class implement process for joining multipart messages.
 * * Class internally use two WeakHashMap and GuavaCache for holding values for joining multipart msg.
 * * One Weak map is used for holding all Multipart Messages and second is used for possible input
 * * Config/DS light-weight DataObject (DataObject contains only necessary identification fields as
 * * TableId, GroupId, MeterId or for flow Match, Priority, FlowCookie, TableId and FlowId ...
 * *
 * * @author avishnoi@in.ibm.com <a href="mailto:vdemcak@cisco.com">Vaclav Demcak</a>
 * *
 */

public class StatRpcMsgManagerImpl implements StatRpcMsgManager {

    private final static Logger LOG = LoggerFactory.getLogger(StatRpcMsgManagerImpl.class);

    private final Cache<String, TransactionCacheContainer<? super TransactionAware>> txCache;

    private final long maxLifeForRequest = 50; /* 50 second */
    private final int queueCapacity = 5000;

    private final OpendaylightGroupStatisticsService groupStatsService;
    private final OpendaylightMeterStatisticsService meterStatsService;
    private final OpendaylightFlowStatisticsService flowStatsService;
    private final OpendaylightPortStatisticsService portStatsService;
    private final OpendaylightFlowTableStatisticsService flowTableStatsService;
    private final OpendaylightQueueStatisticsService queueStatsService;

    private BlockingQueue<RpcJobsQueue> statsRpcJobQueue;

    private volatile boolean finishing = false;

    public StatRpcMsgManagerImpl (final StatisticsManager manager,
        final RpcConsumerRegistry rpcRegistry, final long minReqNetMonitInt) {
        Preconditions.checkArgument(manager != null, "StatisticManager can not be null!");
        }
Preconditions.checkArgument(rpcRegistry != null, "RpcConsumerRegistry can not be null!");
groupStatsService = Preconditions.checkNotNull(
    rpcRegistry.getRpcService(OpendaylightGroupStatisticsService.class),
    "OpendaylightGroupStatisticsService can not be null!");
meterStatsService = Preconditions.checkNotNull(
    rpcRegistry.getRpcService(OpendaylightMeterStatisticsService.class),
    "OpendaylightMeterStatisticsService can not be null!");
flowStatsService = Preconditions.checkNotNull(
    rpcRegistry.getRpcService(OpendaylightFlowStatisticsService.class),
    "OpendaylightFlowStatisticsService can not be null!");
portStatsService = Preconditions.checkNotNull(
    rpcRegistry.getRpcService(OpendaylightPortStatisticsService.class),
    "OpendaylightPortStatisticsService can not be null!");
flowTableStatsService = Preconditions.checkNotNull(
    rpcRegistry.getRpcService(OpendaylightFlowTableStatisticsService.class),
    "OpendaylightFlowTableStatisticsService can not be null!");
queueStatsService = Preconditions.checkNotNull(
    rpcRegistry.getRpcService(OpendaylightQueueStatisticsService.class),
    "OpendaylightQueueStatisticsService can not be null!");

statsRpcJobQueue = new LinkedBlockingQueue<>(queueCapacity);

txCache = CacheBuilder.newBuilder().expireAfterWrite(maxLifeForRequest, TimeUnit.SECONDS)
    .maximumSize(10000).build();

@Override
public void close() {
    finishing = true;
    statsRpcJobQueue = null;
}

@Override
public void run() {
    /* Neverending cycle - wait for finishing */
    while ( ! finishing) {
        try {
            statsRpcJobQueue.take().call();
        } catch (final Exception e) {
            LOG.warn("Stat Element RPC executor fail!", e);
        }
    }
    // Drain all rpcCall, making sure any blocked threads are unblocked
    while ( ! statsRpcJobQueue.isEmpty()) {
        statsRpcJobQueue.poll();
    }
}
private void addGetAllStatJob(final RpcJobsQueue getAllStatJob) {
    final boolean success = statsRpcJobQueue.offer(getAllStatJob);
    if (!success) {
        LOG.warn("Put RPC request getAllStat fail! Queue is full.");
    }
}

private void addStatJob(final RpcJobsQueue getStatJob) {
    final boolean success = statsRpcJobQueue.offer(getStatJob);
    if (!success) {
        LOG.debug("Put RPC request for getStat fail! Queue is full.");
    }
}

@Override
public <T extends TransactionAware, D extends DataObject> void registrationRpcFutureCallBack(
    final Future<RpcResult<T>> future, final D inputObj, final NodeRef nodeRef) {

    Futures.addCallback(JdkFutureAdapters.listenInPoolThread(future),
        new FutureCallback<RpcResult<?>>() {

            @Override
            public void onSuccess(final RpcResult<?> result) {
                final TransactionId id = result.getResult().getTransactionId();
                if (id == null) {
                    LOG.warn("No protocol support");
                } else {
                    final NodeKey nodeKey = nodeRef.getValue().firstKeyOf(Node.class, NodeKey.class);
                    final String cacheKey = buildCacheKey(id, nodeKey.getId());
                    final TransactionCacheContainer<? super TransactionAware> container =
                        new TransactionCacheContainerImpl<>(id, inputObj, nodeKey.getId());
                    txCache.put(cacheKey, container);
                }
            }

            @Override
            public void onFailure(final Throwable t) {
                LOG.warn("Response Registration for Statistics RPC call fail!", t);
            }
        });

    private String buildCacheKey(final TransactionId id, final NodeId nodeId) {
        return String.valueOf(id.getValue()) + "-" + nodeId.getValue();
    }

    @Override
public Future<Optional<TransactionCacheContainer<?>>> getTransactionCacheContainer(final TransactionId id, final NodeId nodeId) {
    Preconditions.checkNotNull(id, "TransactionId can not be null!");
    Preconditions.checkNotNull(nodeId, "NodeId can not be null!");

    final String key = buildCacheKey(id, nodeId);
    final SettableFuture<Optional<TransactionCacheContainer<?>>> result = SettableFuture.create();

    final RpcJobsQueue getTransactionCacheContainer = new RpcJobsQueue() {
        @Override
        public Void call() throws Exception {
            final Optional<TransactionCacheContainer<?>> resultContainer = Optional.ofNullable(txCache.getIfPresent(key));
            if (resultContainer.isPresent()) {
                txCache.invalidate(key);
            }
            result.set(resultContainer);
            return null;
        }
    };
    addStatJob(getTransactionCacheContainer);
    return result;
}

@Override
public Future<Boolean> isExpectedStatistics(final TransactionId id, final NodeId nodeId) {
    Preconditions.checkNotNull(id, "TransactionId can not be null!");
    Preconditions.checkNotNull(nodeId, "NodeId can not be null!");

    final String key = buildCacheKey(id, nodeId);
    final SettableFuture<Boolean> checkStatId = SettableFuture.create();

    final RpcJobsQueue isExpecedStatistics = new RpcJobsQueue() {
        @Override
        public Void call() throws Exception {
            final Optional<TransactionCacheContainer<?>> result = Optional.ofNullable(txCache.getIfPresent(key));
            checkStatId.set(Boolean.valueOf(result.isPresent()));
            return null;
        }
    };
    addStatJob(isExpecedStatistics);
    return checkStatId;
}

@Override
public void addNotification(final TransactionAware notification, final NodeId nodeId) {
    Preconditions.checkNotNull(notification, "TransactionAware can not be null!");
    Preconditions.checkNotNull(nodeId, "NodeId can not be null!");

    final RpcJobsQueue addNotification = new RpcJobsQueue() {

        @Override
        public Void call() throws Exception {
            final TransactionId txId = notification.getTransactionId();
            final String key = buildCacheKey(txId, nodeId);
            final TransactionCacheContainer<? super TransactionAware> container = (txCache.getIfPresent(key));
            if (container != null) {
                container.addNotif(notification);
            }
            return null;
        }
        }
        addStatJob(addNotification);
    }

    @Override
    public void getAllGroupsStat(final NodeRef nodeRef) {
        Preconditions.checkNotNull(nodeRef, "NodeRef can not be null!");
        final RpcJobsQueue getAllGroupStat = new RpcJobsQueue() {

            @Override
            public Void call() throws Exception {
                final GetAllGroupStatisticsInputBuilder builder =
                    new GetAllGroupStatisticsInputBuilder();
                builder.setNode(nodeRef);
                registrationRpcFutureCallBack(groupStatsService.getAllGroupStatistics(builder.build()), null, nodeRef);
                return null;
            }
            }
            addGetAllStatJob(getAllGroupStat);
        }

    @Override
    public void getAllMetersStat(final NodeRef nodeRef) {
        Preconditions.checkNotNull(nodeRef, "NodeRef can not be null!");
        final RpcJobsQueue getAllMeterStat = new RpcJobsQueue() {

            @Override
            public Void call() throws Exception {
                final GetAllMeterStatisticsInputBuilder builder =
                    new GetAllMeterStatisticsInputBuilder();
                builder.setNode(nodeRef);
            }
            }
            addGetAllStatJob(getAllMeterStat);
        }
registrationRpcFutureCallBack(meterStatsService
    .getAllMeterStatistics(builder.build()), null, nodeRef);
    return null;
  }
 );
  addGetAllStatJob(getAllMeterStat);
}

@Override
public void getAllFlowsStat(final NodeRef nodeRef) {
  Preconditions.checkNotNull(nodeRef, "NodeRef can not be null!");
  final RpcJobsQueue getAllFlowStat = new RpcJobsQueue() {

    @Override
    public Void call() throws Exception {
      final GetAllFlowsStatisticsFromAllFlowTablesInputBuilder builder =
        new GetAllFlowsStatisticsFromAllFlowTablesInputBuilder();
      builder.setNode(nodeRef);
      registrationRpcFutureCallBack(flowStatsService
        .getAllFlowsStatisticsFromAllFlowTables(builder.build()), null, nodeRef);
      return null;
    }
  };
  addGetAllStatJob(getAllFlowStat);
}

@Override
public void getAggregateFlowStat(final NodeRef nodeRef, final TableId tableId) {
  Preconditions.checkNotNull(nodeRef, "NodeRef can not be null!");
  Preconditions.checkNotNull(tableId, "TableId can not be null!");
  final RpcJobsQueue getAggregateFlowStat = new RpcJobsQueue() {

    @Override
    public Void call() throws Exception {
      final GetAggregateFlowStatisticsFromFlowTableForAllFlowsInputBuilder builder =
        new GetAggregateFlowStatisticsFromFlowTableForAllFlowsInputBuilder();
      builder.setNode(nodeRef);
      builder.setTableId(tableId);

      final TableBuilder tbuilder = new TableBuilder();
      tbuilder.setId(tableId.getValue());
      tbuilder.setKey(new TableKey(tableId.getValue()));
      registrationRpcFutureCallBack(flowStatsService
        .getAggregateFlowStatisticsFromFlowTableForAllFlows(builder.build()), tbuilder.build(), nodeRef);
      return null;
    }
  };
  addGetAllStatJob(getAggregateFlowStat);
@Override
public void getAllPortsStat(final NodeRef nodeRef) {
    Preconditions.checkArgument(nodeRef != null, "NodeRef can not be null!");
    final RpcJobsQueue getAllPortsStat = new RpcJobsQueue() {

        @Override
        public Void call() throws Exception {
            final GetAllNodeConnectorsStatisticsInputBuilder builder =
                    new GetAllNodeConnectorsStatisticsInputBuilder();
            builder.setNode(nodeRef);
            rpcFutureCallBack(portStatsService.getAllNodeConnectorsStatistics(builder.build()), null, nodeRef);
            return null;
        }
    };
    addGetAllStatJob(getAllPortsStat);
}

@Override
public void getAllTablesStat(final NodeRef nodeRef) {
    Preconditions.checkArgument(nodeRef != null, "NodeRef can not be null!");
    final RpcJobsQueue getAllTableStat = new RpcJobsQueue() {

        @Override
        public Void call() throws Exception {
            final GetFlowTablesStatisticsInputBuilder builder =
                    new GetFlowTablesStatisticsInputBuilder();
            builder.setNode(nodeRef);
            rpcFutureCallBack(flowTableStatsService.getFlowTablesStatistics(builder.build()), null, nodeRef);
            return null;
        }
    };
    addGetAllStatJob(getAllTableStat);
}

@Override
public void getAllQueueStat(final NodeRef nodeRef) {
    Preconditions.checkArgument(nodeRef != null, "NodeRef can not be null!");
    final RpcJobsQueue getAllQueueStat = new RpcJobsQueue() {

        @Override
        public Void call() throws Exception {
            final GetAllQueuesStatisticsFromAllPortsInputBuilder builder =
                    new GetAllQueuesStatisticsFromAllPortsInputBuilder();
            builder.setNode(nodeRef);
registrationRpcFutureCallBack(queueStatsService
.getAllQueuesStatisticsFromAllPorts(builder.build()), null, nodeRef);
return null;
}
};
addGetAllStatJob(getAllQueueStat);

@Override
public void getAllMeterConfigStat(final NodeRef nodeRef) {
Preconditions.checkArgument(nodeRef != null, "NodeRef can not be null!");
final RpcJobsQueue qetAllMeterConfStat = new RpcJobsQueue() {

@Override
public Void call() throws Exception {
final GetAllMeterConfigStatisticsInputBuilder builder =
new GetAllMeterConfigStatisticsInputBuilder();
builder.setNode(nodeRef);
registrationRpcFutureCallBack(meterStatsService
.getAllMeterConfigStatistics(builder.build()), null, nodeRef);
return null;
}
};
addGetAllStatJob(qetAllMeterConfStat);

@Override
public void getGroupFeaturesStat(final NodeRef nodeRef) {
Preconditions.checkArgument(nodeRef != null, "NodeRef can not be null!");
final RpcJobsQueue getGroupFeaturesStat = new RpcJobsQueue() {

@Override
public Void call() throws Exception {
/* RPC input */
final GetGroupFeaturesInputBuilder input = new GetGroupFeaturesInputBuilder();
input.setNode(nodeRef);
registrationRpcFutureCallBack(groupStatsService.getGroupFeatures(input.build()), null, nodeRef);
return null;
}
};
addStatJob(getGroupFeaturesStat);

@Override
public void getMeterFeaturesStat(final NodeRef nodeRef) {
Preconditions.checkArgument(nodeRef != null, "NodeRef can not be null!");
final RpcJobsQueue getMeterFeaturesStat = new RpcJobsQueue() {


@Override
public Void call() throws Exception {
    /* RPC input */
    final GetMeterFeaturesInputBuilder input = new GetMeterFeaturesInputBuilder();
    input.setNode(nodeRef);
    registrationRpcFutureCallBack(meterStatsService.getMeterFeatures(input.build()), null, nodeRef);
    return null;
}
}

addStatJob(getMeterFeaturesStat);
}

@Override
public void getAllGroupsConfStats(final NodeRef nodeRef) {
    Preconditions.checkArgument(nodeRef != null, "NodeRef can not be null!");
    final RpcJobsQueue getAllGropConfStat = new RpcJobsQueue() {

        @Override
        public Void call() throws Exception {
            Preconditions.checkArgument(nodeRef != null, "NodeRef can not be null!");
            final GetGroupDescriptionInputBuilder builder =
                    new GetGroupDescriptionInputBuilder();
            builder.setNode(nodeRef);
            registrationRpcFutureCallBack(groupStatsService
                    .getGroupDescription(builder.build()), null, nodeRef);
            return null;
        }
    }
    addGetAllStatJob(getAllGropConfStat);
}

public class TransactionCacheContainerImpl<T extends TransactionAware> implements TransactionCacheContainer<T> {

    private final TransactionId id;
    private final NodeId nId;
    private final List<T> notifications;
    private final Optional<? extends DataObject> confInput;

    public <D extends DataObject> TransactionCacheContainerImpl (final TransactionId id, final D input, final NodeId nodeId) {
        this.id = Preconditions.checkNotNull(id, "TransactionId can not be null!");
        notifications = new CopyOnWriteArrayList<T>();
        confInput = Optional.fromNullable(input);
        nId = nodeId;
    }
}
@Override
public void addNotif(final T notif) {
    notifications.add(notif);
}

@Override
public TransactionId getId() {
    return id;
}

@Override
public NodeId getNodeId() {
    return nId;
}

@Override
public List<T> getNotifications() {
    return notifications;
}

@Override
public Optional<? extends DataObject> getConfInput() {
    return confInput;
}
/*
* Copyright (c) 2014 Cisco Systems, Inc. and others. All rights reserved.
*
* This program and the accompanying materials are made available under the
* terms of the Eclipse Public License v1.0 which accompanies this distribution,
* and is available at http://www.eclipse.org/legal/epl-v10.html
*/
package org.opendaylight.controller.md.statistics.manager.impl;

import java.util.ArrayList;
import java.util.Collections;
import java.util.List;
import org.opendaylight.controller.md.sal.binding.api.DataBroker;
import org.opendaylight.controller.md.sal.binding.api.ReadWriteTransaction;
import org.opendaylight.controller.md.sal.common.api.data.LogicalDatastoreType;
import org.opendaylight.controller.md.sal.common.api.data.ReadFailedException;
import org.opendaylight.controller.md.statistics.manager.StatisticsManager;
import org.opendaylight.controller.sal.binding.api.NotificationProviderService;

import org.opendaylight.controller.md.statistics.manager.impl;
import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.inventory.rev130819.FlowCapableNode;
import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.transaction.rev131103.TransactionAware;
import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.transaction.rev131103.TransactionId;
import org.opendaylight.yang.gen.v1.urn.opendaylight.group.statistics.rev131111.GroupDescStatsUpdated;
import org.opendaylight.yang.gen.v1.urn.opendaylight.group.statistics.rev131111.GroupFeaturesUpdated;
import org.opendaylight.yang.gen.v1.urn.opendaylight.group.statistics.rev131111.GroupStatisticsUpdated;
import org.opendaylight.yanggen.v1.urn.opendaylight.group.statistics.rev131111.NodeGroupDescStats;
import org.opendaylight.yanggen.v1.urn.opendaylight.group.statistics.rev131111.NodeGroupDescStatsBuilder;
import org.opendaylight.yanggen.v1.urn.opendaylight.group.statistics.rev131111.NodeGroupFeatures;
import org.opendaylight.yang.gen.v1.urn.opendaylight.group.types.rev131018.group.desc.stats.reply.GroupDescStats;
import org.opendaylight.yang.gen.v1.urn.opendaylight.group.types.rev131018.group.statistics.reply.GroupStats;
import org.opendaylight.yang.gen.v1.urn.opendaylight.group.types.rev131018.groups.Group;
import org.opendaylight.yang.gen.v1.urn.opendaylight.group.types.rev131018.groups.GroupBuilder;
import org.opendaylight.yang.gen.v1.urn.opendaylight.group.types.rev131018.groups.GroupKey;
import org.opendaylight.yang.gen.v1.urn.opendaylight.inventory.rev130819.NodeId;
import org.opendaylight.yang.gen.v1.urn.opendaylight.inventory.rev130819.Nodes;
import org.opendaylight.yang.gen.v1.urn.opendaylight.inventory.rev130819.nodes.Node;
import org.opendaylight.yang.gen.v1.urn.opendaylight.inventory.rev130819.nodes.NodeKey;
import org.opendaylight.yang.gen.v1.urn.opendaylight.yangtools.yang.binding.DataObject;
import org.opendaylight.yang.gen.v1.urn.opendaylight.yangtools.yang.binding.InstanceIdentifier;
import org.slf4j.Logger;
import org.slf4j.LoggerFactory;
import com.google.common.base.Optional;

/**
 * statistics-manager
 * org.opendaylight.controller.md.statistics.manager.impl
 * 
 * @author <a href="mailto:vdemcak@cisco.com">Vaclav Demcak</a>
 */

import com.google.common.base.Optional;
public class StatListenCommitGroup extends StatAbstractListenCommit<Group, OpendaylightGroupStatisticsListener>

    implements OpendaylightGroupStatisticsListener {

    private static final Logger LOG = LoggerFactory.getLogger(StatListenCommitMeter.class);

    public StatListenCommitGroup(final StatisticsManager manager, final DataBroker db,
            final NotificationProviderService nps) {
        super(manager, db, nps, Group.class);
    }

    @Override
    protected OpendaylightGroupStatisticsListener getStatNotificationListener() {
        return this;
    }

    @Override
    protected InstanceIdentifier<Group> getWildCardedRegistrationPath() {
        return InstanceIdentifier.create(Nodes.class).child(Node.class)
                .augmentation(FlowCapableNode.class).child(Group.class);
    }

    @Override
    public void onGroupDescStatsUpdated(final GroupDescStatsUpdated notification) {
        final TransactionId transId = notification.getTransactionId();
        final NodeId nodeId = notification.getId();
        if ( ! isExpectedStatistics(transId, nodeId)) {
            LOG.debug("STAT-MANAGER - GroupDescStatsUpdated: unregistred notification detect TransactionId {}", transId);
            return;
        }
        if (notification.isMoreReplies()) {
            manager.getRpcMsgManager().addNotification(notification, nodeId);
            return;
        }
        final List<GroupDescStats> groupStats = notification.getGroupDescStats() != null
                ? new ArrayList<>(notification.getGroupDescStats()) : new ArrayList<GroupDescStats>(10);
        final Optional<TransactionCacheContainer<?>> txContainer = getTransactionCacheContainer(transId, nodeId);
        if (txContainer.isPresent()) {
            final List<? extends TransactionAware> cacheNotifs =
                    txContainer.get().getNotifications();
            for (final TransactionAware notif : cacheNotifs) {
                if (notif instanceof GroupDescStatsUpdated) {
                    groupStats.addAll(((GroupDescStatsUpdated) notif).getGroupDescStats());
                }
            }
        }
        final InstanceIdentifier<Node> nodeIdent = InstanceIdentifier.

    }
}
@Override
public void applyOperation(final ReadWriteTransaction tx) {
    statGroupDescCommit(groupStats, nodeIdent, tx);
    /* Notification for continue collecting statistics */
    notifyToCollectNextStatistics(nodeIdent);
}
}

@Override
public void onGroupFeaturesUpdated(final GroupFeaturesUpdated notification) {
    final TransactionId transId = notification.getTransactionId();
    final NodeId nodeId = notification.getId();
    if (!isExpectedStatistics(transId, nodeId)) {
        LOG.debug("STAT-MANAGER - MeterFeaturesUpdated: unregistered notification detect TransactionId {} ",
        transId);
        return;
    }
    if (notification.isMoreReplies()) {
        manager.getRpcMsgManager().addNotification(notification, nodeId);
        return;
    }
    final Optional<TransactionCacheContainer<?>> txContainer = getTransactionCacheContainer(transId, nodeId);
    if (!txContainer.isPresent()) {
        return;
    }
    final InstanceIdentifier<Node> nodeIdent = InstanceIdentifier
        .create(Nodes.class).child(Node.class, new NodeKey(nodeId));

    manager.enqueue(new StatDataStoreOperation() {
        @Override
        public void applyOperation(final ReadWriteTransaction tx) {
            notifyToCollectNextStatistics(nodeIdent);
            final GroupFeatures stats = new GroupFeaturesBuilder(notification).build();
            final InstanceIdentifier<GroupFeatures> groupFeatureIdent = nodeIdent
                .augmentation(NodeGroupFeatures.class).child(GroupFeatures.class);
            Optional<Node> node = Optional.absent();
            try {
                node = tx.read(LogicalDatastoreType.OPERATIONAL, nodeIdent).checkedGet();
            }
            catch (final ReadFailedException e) {
                LOG.debug("Read Operational/DS for Node fail {} ", nodeIdent, e);
            }
            if (node.isPresent()) {
                tx.put(LogicalDatastoreType.OPERATIONAL, groupFeatureIdent, stats);
            }
        }
    });
}
@Override
public void onGroupStatisticsUpdated(final GroupStatisticsUpdated notification) {
    final TransactionId transId = notification.getTransactionId();
    final NodeId nodeId = notification.getId();
    if (!isExpectedStatistics(transId, nodeId)) {
        LOG.debug("STAT-MANAGER - GroupStatisticsUpdated: unregisted notification detect TransactionId ",
                transId);
        return;
    }
    if (notification.isMoreReplies()) {
        manager.getRpcMsgManager().addNotification(notification, nodeId);
        return;
    }
    final List<GroupStats> groupStats = notification.getGroupStats() != null
        ? new ArrayList<>(notification.getGroupStats()) : new ArrayList<>(10);
    Optional<Group> notifGroup = Optional.absent();
    final Optional<TransactionCacheContainer<?>> txContainer = getTransactionCacheContainer(transId, nodeId);
    if (txContainer.isPresent()) {
        final Optional<? extends DataObject> inputObj = txContainer.get().getConfInput();
        if (inputObj.isPresent() && inputObj.get() instanceof Group) {
            notifGroup = Optional.<Group> of((Group)inputObj.get());
        }
        final List<? extends TransactionAware> cacheNotifs =
                txContainer.get().getNotifications();
        for (final TransactionAware notif : cacheNotifs) {
            if (notif instanceof GroupStatisticsUpdated) {
                groupStats.addAll(((GroupStatisticsUpdated) notif).getGroupStats());
            }
        }
    }
    final Optional<Group> group = notifGroup;
    final InstanceIdentifier<Node> nodeIdent = InstanceIdentifier
        .create(Nodes.class).child(Node.class, new NodeKey(nodeId));
    manager.enqueue(new StatDataStoreOperation() {
        @Override
        public void applyOperation(final ReadWriteTransaction tx) {
            /* Notification for continue collecting statistics */
            if (!group.isPresent()) {
                notifyToCollectNextStatistics(nodeIdent);
            }
            statGroupCommit(groupStats, nodeIdent, group, tx);
        }
    });
}
private void statGroupCommit(final List<GroupStats> groupStats, final InstanceIdentifier<Node> nodeIdent, final Optional<Group> group, final ReadWriteTransaction trans) {
    final InstanceIdentifier<FlowCapableNode> fNodeIdent = nodeIdent.augmentation(FlowCapableNode.class);

    for (final GroupStats groupStat : groupStats) {
        final GroupStatistics stats = new GroupStatisticsBuilder(groupStat).build();

        final GroupKey groupKey = new GroupKey(groupStat.getGroupId());
        final InstanceIdentifier<GroupStatistics> gsIdent = fNodeIdent
                .child(Group.class, groupKey).augmentation(NodeGroupStatistics.class)
                .child(GroupStatistics.class);

        /* Statistics Writing */
        Optional<FlowCapableNode> fNode = Optional.absent();
        try {
            fNode = trans.read(LogicalDatastoreType.OPERATIONAL, fNodeIdent).checkedGet();
        }
        catch (final ReadFailedException e) {
            LOG.debug("Read Operational/DS for FlowCapableNode fail! {}", e);
        }
        if (fNode.isPresent()) {
            trans.put(LogicalDatastoreType.OPERATIONAL, gsIdent, stats);
        }
    }
}

private void statGroupDescCommit(final List<GroupDescStats> groupStats, final InstanceIdentifier<Node> nodeIdent, final ReadWriteTransaction trans) {
    final InstanceIdentifier<FlowCapableNode> fNodeIdent = nodeIdent.augmentation(FlowCapableNode.class);

    final List<GroupKey> deviceGroupKeys = new ArrayList<>();
    for (final GroupDescStats group : groupStats) {
        if (group.getGroupId() != null) {
            final GroupBuilder groupBuilder = new GroupBuilder(group);
            final GroupKey groupKey = new GroupKey(group.getGroupId());
            final InstanceIdentifier<Group> groupRef = fNodeIdent.child(Group.class, groupKey);

            final NodeGroupDescStatsBuilder groupDesc = new NodeGroupDescStatsBuilder();
            groupDesc.setGroupDesc(new GroupDescBuilder(group).build());

            final NodeGroupDescStatsBuilder groupDescBuilder = new NodeGroupDescStatsBuilder();
            groupDescBuilder.setGroupDesc(new GroupDescBuilder(group).build());

            // Update augmented data
            groupBuilder.addAugmentation(NodeGroupDescStats.class, groupDesc.build());
            deviceGroupKeys.add(groupKey);

            Optional<FlowCapableNode> hashIdUpd = Optional.absent();
            try {
                hashIdUpd = trans.read(LogicalDatastoreType.OPERATIONAL, fNodeIdent).checkedGet();
            }
        }
    }
}
catch (final ReadFailedException e) {
    LOG.debug("Read Operational/DS for FlowCapableNode fail! ", fNodeIdent, e);
}
if (hashIdUpd.isPresent()) {
    trans.put(LogicalDatastoreType.OPERATIONAL, groupRef, groupBuilder.build());
}
}
/* Delete all not presented Group Nodes */
deleteAllNotPresentNode(fNodeIdent, trans, deviceGroupKeys);
}

private void deleteAllNotPresentNode(final InstanceIdentifier<FlowCapableNode> fNodeIdent,
final ReadWriteTransaction trans, final List<GroupKey> deviceGroupKeys) {

    final Optional<FlowCapableNode> fNode = readLatestConfiguration(fNodeIdent);
    if ( ! fNode.isPresent()) {
        LOG.trace("Read Operational/DS for FlowCapableNode fail! Node {} doesn't exist.", fNodeIdent);
        return;
    }
    final List<Group> existGroups = fNode.get().getGroup() != null
        ? fNode.get().getGroup() : Collections.<Group> emptyList();
    /* Add all existed groups paths - no updated paths has to be removed */
    for (final Group group : existGroups) {
        if (deviceGroupKeys.remove(group.getKey())) {
            break; // group still exist on device
        }
        LOG.trace("Group {} has to removed.", group);
    }
    final InstanceIdentifier<Group> delGroupId = fNodeIdent.child(Group.class, group.getKey());
    Optional<Group> delGroup = Optional.absent();
    try {
        delGroup = trans.read(LogicalDatastoreType.OPERATIONAL, delGroupId).checkedGet();
    }
    catch (final ReadFailedException e) {
        // NOOP - probably another transaction delete that node
    }
    if (delGroup.isPresent()) {
        trans.delete(LogicalDatastoreType.OPERATIONAL, delGroupId);
    }
}
/**
* Copyright (c) 2014 Cisco Systems, Inc. and others. All rights reserved.
* This program and the accompanying materials are made available under the
* terms of the Eclipse Public License v1.0 which accompanies this distribution,
* and is available at http://www.eclipse.org/legal/epl-v10.html
*/
package org.opendaylight.controller.md.statistics.manager.impl;

import java.util.ArrayList;
import java.util.List;
import org.opendaylight.controller.md.sal.binding.api.DataBroker;
import org.opendaylight.controller.md.sal.binding.api.ReadWriteTransaction;
import org.opendaylight.controller.md.sal.common.api.data.LogicalDatastoreType;
import org.opendaylight.controller.md.sal.common.api.data.ReadFailedException;
import org.opendaylight.controller.md.statistics.manager.StatisticsManager;
import org.opendaylight.controller.sal.binding.api.NotificationProviderService;
import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.inventory.rev130819.FlowCapableNodeConnector;
import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.transaction.rev131103.TransactionAware;
import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.transaction.rev131103.TransactionId;
import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.types.port.rev130925.queues.Queue;
import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.types.port.rev130925.queues.QueueKey;
import org.opendaylight.yang.gen.v1.urn.opendaylight.inventory.rev130819.NodeId;
import org.opendaylight.yang.gen.v1.urn.opendaylight.inventory.rev130819.Nodes;
import org.opendaylight.yang.gen.v1.urn.opendaylight.inventory.rev130819.node.NodeConnector;
import org.opendaylight.yang.gen.v1.urn.opendaylight.inventory.rev130819.nodes.Node;
import org.opendaylight.yang.gen.v1.urn.opendaylight.queue.statistics.rev131216.queue.id.and.statistics.map.QueueIdAndStatisticsMap;
import org.opendaylight.yangtools.yang.binding.InstanceIdentifier;
import org.slf4j.Logger;
import org.slf4j.LoggerFactory;

import com.google.common.base.Optional;

/**
 * statistics-manager
 * org.opendaylight.controller.md.statistics.manager.impl
 *
 * StatNotifyCommitQueue
 * Class is a NotifyListener for Queues Statistics
 * All expected (registered) queueStatistics will be builded and
 * commit to Operational/DataStore
 *
 * @author <a href="mailto:vdemcak@cisco.com">Vaclav Demcak</a>
 *
 */

public class StatListenCommitQueue extends StatAbstractListenCommit<Queue,
OpendaylightQueueStatisticsListener>
    implements OpendaylightQueueStatisticsListener {

    private final static Logger LOG = LoggerFactory.getLogger(StatListenCommitQueue.class);

    public StatListenCommitQueue(final StatisticsManager manager, final DataBroker db,
        final NotificationProviderService nps) {
        super(manager, db, nps, Queue.class);
    }

    @Override
    protected OpendaylightQueueStatisticsListener getStatNotificationListener() {
        return this;
    }

    @Override
    protected InstanceIdentifier<Queue> getWildCardedRegistrationPath() {
        return InstanceIdentifier.create(Nodes.class).child(Node.class).child(NodeConnector.class)
            .augmentation(FlowCapableNodeConnector.class).child(Queue.class);
    }

    @Override
    public void onQueueStatisticsUpdate(final QueueStatisticsUpdate notification) {
        final TransactionId transId = notification.getTransactionId();
        final NodeId nodeId = notification.getId();
        if ( ! isExpectedStatistics(transId, nodeId)) {
            LOG.debug("STAT-MANAGER - QueueStatisticsUpdate: unregistred notification detect TransactionId {}",
                transId);
            return;
        }
        if (notification.isMoreReplies()) {
            manager.getRpcMsgManager().addNotification(notification, nodeId);
            return;
        }
    }
}
final List<QueueIdAndStatisticsMap> queueStats = notification.getQueueIdAndStatisticsMap() != null
? new ArrayList<>(notification.getQueueIdAndStatisticsMap()) : new
ArrayList<QueueIdAndStatisticsMap>(10);

final Optional<TransactionCacheContainer<?>> txContainer = getTransactionCacheContainer(transId, nodeId);
if (txContainer.isPresent()) {
    final List<? extends TransactionAware> cachedNotifs =
    txContainer.get().getNotifications();
    for (final TransactionAware notif : cachedNotifs) {
        if (notif instanceof QueueStatisticsUpdate) {
            queueStats.addAll(((QueueStatisticsUpdate) notif).getQueueIdAndStatisticsMap());
        }
    }
}

final InstanceIdentifier<Node> nodeIdent = InstanceIdentifier.create(Nodes.class)
    .child(Node.class, new NodeKey(nodeId));

/* Queue statistics are small size and we are not able to change for OF cross controller
 * - don't need to make are atomic */
manager.enqueue(new StatDataStoreOperation() {
    @Override
    public void applyOperation(final ReadWriteTransaction trans) {
        /* Notification for continue */
        notifyToCollectNextStatistics(nodeIdent);
        statQueueCommit(queueStats, nodeIdent, trans);
    }
});

private void statQueueCommit(final List<QueueIdAndStatisticsMap> queueStats,
    final InstanceIdentifier<Node> nodeIdent, final ReadWriteTransaction trans) {

    /* check exist FlowCapableNode and write statistics */
    Optional<Node> fNode = Optional.absent();
    try {
        fNode = trans.read(LogicalDatastoreType.OPERATIONAL, nodeIdent).checkedGet();
    }
    catch (final ReadFailedException e) {
        LOG.debug("Read Operational/DS for Node fail! [{}", nodeIdent, e);
        return;
    }
    if ( ! fNode.isPresent()) {
        LOG.trace("Read Operational/DS for Node fail! Node {} doesn't exist.", nodeIdent);
        return;
    }
    for (final QueueIdAndStatisticsMap queueEntry : queueStats) {
        final FlowCapableNodeConnectorQueueStatistics statChild =
        new FlowCapableNodeConnectorQueueStatisticsBuilder(queueEntry).build();

final FlowCapableNodeConnectorQueueStatisticsDataBuilder statBuild =
    new FlowCapableNodeConnectorQueueStatisticsDataBuilder();
statBuild.setFlowCapableNodeConnectorQueueStatistics(statChild);
final QueueKey qKey = new QueueKey(queueEntry.getQueueId());
final InstanceIdentifier<FlowCapableNodeConnectorQueueStatisticsData> queueStatIdent = nodeIdent
    .child(NodeConnector.class, new NodeConnectorKey(queueEntry.getNodeConnectorId()))
    .augmentation(FlowCapableNodeConnector.class)
    .child(Queue.class, qKey).augmentation(FlowCapableNodeConnectorQueueStatisticsData.class);
trans.put(LogicalDatastoreType.OPERATIONAL, queueStatIdent, statBuild.build());

package org.opendaylight.controller.md.statistics.manager.impl;

import java.util.ArrayList;
import java.util.Collections;
import java.util.List;
import java.util.concurrent.BlockingQueue;
import java.util.concurrent.ExecutorService;
import java.util.concurrent.Executors;
import java.util.concurrent.LinkedBlockingDeque;
import java.util.concurrent.ThreadFactory;
import org.opendaylight.controller.md.sal.binding.api.BindingTransactionChain;
import org.opendaylight.controller.md.sal.binding.api.DataBroker;
import org.opendaylight.controller.md.sal.binding.api.ReadWriteTransaction;
import org.opendaylight.controller.md.sal.common.api.data.AsyncTransaction;
import org.opendaylight.controller.md.sal.common.api.data.TransactionChain;
import org.opendaylight.controller.md.statistics.manager.StatListeningCommiter;
import org.opendaylight.controller.md.statistics.manager.StatNodeRegistration;
import org.opendaylight.controller.md.statistics.manager.StatNotifyCommiter;
import org.opendaylight.controller.md.statistics.manager.StatPermCollector;
import org.opendaylight.controller.md.statistics.manager.StatisticsManager;
import org.opendaylight.controller.sal.binding.api.NotificationProviderService;
import org.opendaylight.controller.sal.binding.api.RpcConsumerRegistry;
import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.inventory.rev130819.meters.Meter;
import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.inventory.rev130819.tables.table.Flow;
import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.table.statistics.rev131215.OpendaylightFlowTableStatisticsListener;
import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.types.port.rev130925.Queue;
import org.opendaylight.yang.gen.v1.urn.opendaylight.group.types.rev131018.Group;
import org.opendaylight.yang.gen.v1.urn.opendaylight.inventory.rev130819.Node;
import org.opendaylight.yangtools.yang.binding.InstanceIdentifier;
import org.slf4j.Logger;
import org.slf4j.LoggerFactory;
import com.google.common.base.Preconditions;
import com.google.common.util.concurrent.ThreadFactoryBuilder;

/**
 * statistics-manager
 * org.opendaylight.controller.md.statistics.manager.impl
 *
 * StatisticsManagerImpl
 * It represent a central point for whole module. Implementation
 * { @link StatisticsManager} registers all Operation/DS { @link StatNotifyCommitter} and
 * Config/DS { @link StatListeningCommitter}, as well as { @link StatPermCollector}
 * for statistic collecting and { @link StatRpcMsgManager} as Device RPCs provider.
 * In next, StatisticsManager provides all DS contact Transaction services.
 *
 * @author avishnoi@in.ibm.com <a href="mailto:vdemcak@cisco.com">Vaclav Demcak</a>
 *
 */

public class StatisticsManagerImpl implements StatisticsManager, Runnable {

    private final static Logger LOG = LoggerFactory.getLogger(StatisticsManagerImpl.class);
    private static final int QUEUE_DEPTH = 5000;
    private static final int MAX_BATCH = 100;

    private final BlockingQueue<StatDataStoreOperation> dataStoreOperQueue = new
    LinkedBlockingDeque<>(QUEUE_DEPTH);

    private final DataBroker dataBroker;
    private final int maxNodesForCollectors;
    private long minReqNetMonitInt;
private final ExecutorService statRpcMsgManagerExecutor;
private final ExecutorService statDataStoreOperationServ;
private StatRpcMsgManager rpcMsgManager;
private List<StatPermCollector> statCollectors;
private final Object statCollectorLock = new Object();
private BindingTransactionChain txChain;
private volatile boolean finishing = false;

private StatNodeRegistration nodeRegistrator;
private StatListeningCommitter<Flow, OpendaylightFlowStatisticsListener> flowListeningCommitter;
private StatListeningCommitter<Meter, OpendaylightMeterStatisticsListener> meterListeningCommitter;
private StatListeningCommitter<Group, OpendaylightGroupStatisticsListener> groupListeningCommitter;
private StatListeningCommitter<Queue, OpendaylightQueueStatisticsListener> queueNotifyCommitter;
private StatNotifyCommitter<OpendaylightFlowTableStatisticsListener> tableNotifCommitter;
private StatNotifyCommitter<OpendaylightPortStatisticsListener> portNotifyCommitter;

class StatisticsManagerImpl (final DataBroker dataBroker, final int maxNodesForCollector) {
    this.dataBroker = Preconditions.checkNotNull(dataBroker, "DataBroker can not be null!");
    ThreadFactory threadFact;
    threadFact = new ThreadFactoryBuilder().setNameFormat("odl-stat-rpc-oper-thread-%d").build();
    statRpcMsgManagerExecutor = Executors.newSingleThreadExecutor(threadFact);
    threadFact = new ThreadFactoryBuilder().setNameFormat("odl-stat-ds-oper-thread-%d").build();
    statDataStoreOperationServ = Executors.newSingleThreadExecutor(threadFact);
    maxNodesForCollectors = maxNodesForCollector;
    txChain = dataBroker.createTransactionChain(this);
}

@Override
public void start(final NotificationProviderService notifService,
    final RpcConsumerRegistry rpcRegistry, final long minReqNetMonitInt) {
    Preconditions.checkNotNull(rpcRegistry, "RpcConsumerRegistry can not be null!");
    this.minReqNetMonitInt = minReqNetMonitInt;
    rpcMsgManager = new StatRpcMsgManagerImpl(this, rpcRegistry, minReqNetMonitInt);
    statCollectors = Collections.emptyList();
    nodeRegistrator = new StatNodeRegistrationImpl(this, dataBroker, notifService);
    flowListeningCommitter = new StatListenCommitFlow(this, dataBroker, notifService);
    meterListeningCommitter = new StatListenCommitMeter(this, dataBroker, notifService);
    groupListeningCommitter = new StatListenCommitGroup(this, dataBroker, notifService);
    tableNotifCommitter = new StatNotifyCommitTable(this, notifService);
    portNotifyCommitter = new StatNotifyCommitPort(this, notifService);
    queueNotifyCommitter = new StatListenCommitQueue(this, dataBroker, notifService);

    statRpcMsgManagerExecutor.execute(rpcMsgManager);
    statDataStoreOperationServ.execute(this);
    LOG.info("Statistics Manager started successfully!");
}

@Override
public void close() throws Exception {
    finishing = true;
    if (nodeRegistrator != null) {
        nodeRegistrator.close();
        nodeRegistrator = null;
    }
    if (flowListeningCommter != null) {
        flowListeningCommter.close();
        flowListeningCommter = null;
    }
    if (meterListeningCommter != null) {
        meterListeningCommter.close();
        meterListeningCommter = null;
    }
    if (groupListeningCommter != null) {
        groupListeningCommter.close();
        groupListeningCommter = null;
    }
    if (tableNotifCommter != null) {
        tableNotifCommter.close();
        tableNotifCommter = null;
    }
    if (portNotifyCommter != null) {
        portNotifyCommter.close();
        portNotifyCommter = null;
    }
    if (queueNotifyCommter != null) {
        queueNotifyCommter.close();
        queueNotifyCommter = null;
    }
    if (statCollectors != null) {
        for (StatPermCollector collector : statCollectors) {
            collector.close();
            collector = null;
        }
        statCollectors = null;
    }
    if (rpcMsgManager != null) {
        rpcMsgManager.close();
        rpcMsgManager = null;
    }
    statRpcMsgManagerExecutor.shutdown();
    statDataStoreOperationServ.shutdown();
    if (txChain != null) {
        txChain.close();
        txChain = null;
    }
}
@Override
public void enqueue(final StatDataStoreOperation op) {
    // we don't need to block anything - next statistics come soon
    final boolean success = dataStoreOperQueue.offer(op);
    if (!success) {
        LOG.debug("Stat DS/Operational submiter Queue is full!");
    }
}

@Override
public void run() {
    /* Neverending cycle - wait for finishing */
    while (!finishing) {
        try {
            StatDataStoreOperation op = dataStoreOperQueue.take();
            final ReadWriteTransaction tx = txChain.newReadWriteTransaction();
            LOG.trace("New operations available, starting transaction {}", tx.getIdentifier());

            int ops = 0;
            do {
                op.applyOperation(tx);

                ops++;
                if (ops < MAX_BATCH) {
                    op = dataStoreOperQueue.poll();
                } else {
                    op = null;
                }
            } while (op != null);

            LOG.trace("Processed {} operations, submitting transaction {}", ops, tx.getIdentifier());

            tx.submit().checkedGet();
        } catch (final InterruptedException e) {
            LOG.warn("Stat Manager DS Operation thread interrupted!", e);
            finishing = true;
        } catch (final Exception e) {
            LOG.warn("Unhandled exception during processing statistics. Restarting transaction chain.", e);
            txChain.close();
            txChain = dataBroker.createTransactionChain(StatisticsManagerImpl.this);
            cleanDataStoreOperQueue();
        }
    }

    // Drain all events, making sure any blocked threads are unblocked
    cleanDataStoreOperQueue();
}
private synchronized void cleanDataStoreOperQueue() {
    // Drain all events, making sure any blocked threads are unblocked
    while (! dataStoreOperQueue.isEmpty()) {
        dataStoreOperQueue.poll();
    }
}

@Override
public void onTransactionChainFailed(final TransactionChain<?, ?> chain, final AsyncTransaction<?, ?> transaction,
    final Throwable cause) {
    LOG.warn("Failed to export Flow Capable Statistics, Transaction {} failed.", transaction.getIdentifier(),cause);
}

@Override
public void onTransactionChainSuccessful(final TransactionChain<?, ?> chain) {
    // NOOP
}

@Override
public boolean isProvidedFlowNodeActive(final InstanceIdentifier<Node> nodeIdent) {
    for (final StatPermCollector collector : statCollectors) {
        if (collector.isProvidedFlowNodeActive(nodeIdent)) {
            return true;
        }
    }
    return false;
}

@Override
public void collectNextStatistics(final InstanceIdentifier<Node> nodeIdent) {
    for (final StatPermCollector collector : statCollectors) {
        if (collector.isProvidedFlowNodeActive(nodeIdent)) {
            collector.collectNextStatistics();
        }
    }
}

@Override
public void connectedNodeRegistration(final InstanceIdentifier<Node> nodeIdent,
    final List<StatCapabTypes> statTypes, final Short nrOfSwitchTables) {
    for (final StatPermCollector collector : statCollectors) {
        if (collector.connectedNodeRegistration(nodeIdent, statTypes, nrOfSwitchTables)) {
            return;
        }
    }
    synchronized (statCollectorLock) {
        for (final StatPermCollector collector : statCollectors) {
            collector.connectedNodeRegistration(nodeIdent, statTypes, nrOfSwitchTables);
        }
    }
}
if (collector.connectedNodeRegistration(nodeIdent, statTypes, nrOfSwitchTables)) {
    return;
}

final StatPermCollectorImpl newCollector = new StatPermCollectorImpl(this, minReqNetMonitInt, statCollectors.size() + 1, maxNodesForCollectors);
final List<StatPermCollector> statCollectorsNew = new ArrayList<>(statCollectors);
newCollector.connectedNodeRegistration(nodeIdent, statTypes, nrOfSwitchTables);
statCollectorsNew.add(newCollector);
statCollectors = Collections.unmodifiableList(statCollectorsNew);
}

@override
disconnectedNodeUnregistration(final InstanceIdentifier<Node> nodeIdent) {
    flowListeningCommier.cleanForDisconnect(nodeIdent);

    for (final StatPermCollector collector : statCollectors) {
        if (collector.disconnectedNodeUnregistration(nodeIdent)) {
            if (! collector.hasActiveNodes()) {
                synchronized (statCollectorLock) {
                    if (collector.hasActiveNodes()) {
                        return;
                    }
                }
                final List<StatPermCollector> newStatColl =
                    new ArrayList<>(statCollectors);
                newStatColl.remove(collector);
                statCollectors = Collections.unmodifiableList(newStatColl);
            }
        }
        return;
    }

    LOG.debug("Node {} has not removed.", nodeIdent);
}

/* Getter internal Statistic Manager Job Classes */
@override
generateRpcMsgManager getRpcMsgManager() {
    return rpcMsgManager;
}

@override
generateNodeRegistration getNodeRegistrar() {
    return nodeRegistrar;
}

@override
public StatListeningCommiter<Flow, OpendaylightFlowStatisticsListener> getFlowListenComit() {
    return flowListeningCommiter;
}

@Override
public StatListeningCommiter<Meter, OpendaylightMeterStatisticsListener> getMeterListenCommit() {
    return meterListeningCommiter;
}

@Override
public StatListeningCommiter<Group, OpendaylightGroupStatisticsListener> getGroupListenCommit() {
    return groupListeningCommiter;
}

@Override
public StatListeningCommiter<Queue, OpendaylightQueueStatisticsListener> getQueueNotifyCommit() {
    return queueNotifyCommiter;
}

@Override
public StatNotifyCommiter<OpendaylightFlowTableStatisticsListener> getTableNotifCommit() {
    return tableNotifCommiter;
}

@Override
public StatNotifyCommiter<OpendaylightPortStatisticsListener> getPortNotifyCommit() {
    return portNotifyCommiter;
}

/**
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 *
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 * terms of the Eclipse Public License v1.0 which accompanies this distribution,
 * and is available at http://www.eclipse.org/legal/epl-v10.html
 */

package org.opendaylight.controller.md.statistics.manager.impl;

import java.util.Map;
import java.util.concurrent.ConcurrentHashMap;
import org.opendaylight.controller.md.sal.binding.api.DataBroker;
import org.opendaylight.controller.md.sal.binding.api.DataChangeListener;
import org.opendaylight.controller.md.sal.common.api.data.AsyncDataBroker.DataChangeScope;
import org.opendaylight.controller.md.sal.common.api.data.AsyncDataChangeEvent;

import org.opendaylight.controller.md.sal.binding.api.DataBroker;
import org.opendaylight.controller.md.sal.binding.api.DataChangeListener;
import org.opendaylight.controller.md.sal.common.api.data.AsyncDataBroker.DataChangeScope;
import org.opendaylight.controller.md.sal.common.api.data.AsyncDataChangeEvent;
import org.opendaylight.controller.md.sal.common.api.data.LogicalDatastoreType;
import org.opendaylight.controller.md.sal.common.api.data.ReadFailedException;
import org.opendaylight.controller.md.statistics.manager.StatListeningCommIter;
import org.opendaylight.controller.md.statistics.manager.StatisticsManager;
import org.opendaylight.controller.md.statistics.manager.impl.StatAbstractListenCommit<T extends DataObject, N extends NotificationListener> {
    public abstract class StatAbstractListenCommit<T extends DataObject, N extends NotificationListener> {
        protected final Map<InstanceIdentifier<Node>, Map<InstanceIdentifier<T>, Integer>> mapNodesForDelete = new ConcurrentHashMap<>();
        private final Class<T> clazz;
        private final DataBroker dataBroker;
        private volatile ReadOnlyTransaction currentReadTx;
        private static final Logger LOG = LoggerFactory.getLogger(StatAbstractListenCommit.class);
        private ListenerRegistration<DataChangeListener> listenerRegistration;
        protected final Map<InstanceIdentifier<Node>, Map<InstanceIdentifier<T>, Integer>> mapNodesForDelete = new ConcurrentHashMap<>();
        private final Class<T> clazz;
        private final DataBroker dataBroker;
        private volatile ReadOnlyTransaction currentReadTx;
        /* Constructor has to make a registration */
        public StatAbstractListenCommIter(final StatisticsManager manager, final DataBroker db, final NotificationProviderService nps, final Class<T> clazz) {
            super(manager, nps);
            this.clazz = Preconditions.checkNotNull(clazz, "Referenced Class can not be null");
        }
        /* Class is abstract implementation for all Configuration/DataStore DataChange
         * listenable DataObjects like flows, groups, meters. It is a holder for common
         * functionality needed by construction/destruction class and for DataChange
         * event processing.
         */
    }
}
Preconditions.checkArgument(db != null, "DataBroker can not be null!");

listenerRegistration = db.registerDataChangeListener(LogicalDatastoreType.CONFIGURATION,
        getWildCardedRegistrationPath(), this, DataChangeScope.BASE);

this.dataBroker = db;
}

/**
 * Method returns WildCarded Path which is used for registration as a listening path changes in
 * [ @link org.opendaylight.controller.md.sal.binding.api.DataChangeListener]
 * @return
 */
protected abstract InstanceIdentifier<T> getWildCardedRegistrationPath();

@Override
public void onDataChanged(final AsyncDataChangeEvent<InstanceIdentifier<?>, DataObject> changeEvent) {
    Preconditions.checkNotNull(changeEvent, "Async ChangeEvent can not be null!");
    /*
     * If we have opened read transaction for configuraiton data store,
     * we will close and null it.
     * 
     * Latest read transaction will be allocated on another read using readLatestConfiguration
     */
    if (currentReadTx != null) {
        final ReadOnlyTransaction previous = currentReadTx;
        currentReadTx = null;
        previous.close();
    }
}

@SuppressWarnings("unchecked")
protected void removeData(final InstanceIdentifier<?> key, final Integer value) {
    if (clazz.equals(key.getTargetType())) {
        final InstanceIdentifier<Node> nodeIdent = key.firstIdentifierOf(Node.class);
        Map<InstanceIdentifier<T>, Integer> map = null;
        if (mapNodesForDelete.containsKey(nodeIdent)) {
            map = mapNodesForDelete.get(nodeIdent);
        }
        if (map == null) {
            map = new ConcurrentHashMap<>();
            mapNodesForDelete.put(nodeIdent, map);
        }
        map.put((InstanceIdentifier<T>) key, value);
    }
}

@Override
public void cleanForDisconnect(final InstanceIdentifier<Node> nodeIdent) {
    mapNodesForDelete.remove(nodeIdent);
}


@Override
public void close() {
    if (listenerRegistration != null) {
        try {
            listenerRegistration.close();
        } catch (final Exception e) {
            LOG.error("Error by stop {} DataChange StatListeningCommitter.", clazz.getSimpleName(), e);
        }
        listenerRegistration = null;
    }
    }
}

protected final <K extends DataObject> Optional<K> readLatestConfiguration(final InstanceIdentifier<K> path) {
    if(currentReadTx == null) {
        currentReadTx = dataBroker.newReadOnlyTransaction();
    }
    try {
        return currentReadTx.read(LogicalDatastoreType.CONFIGURATION, path).checkedGet();
    } catch (final ReadFailedException e) {
        return Optional.absent();
    }
}

/**
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 */

package org.opendaylight.controller.md.statistics.manager.impl;

import java.util.ArrayList;
import java.util.Collections;
import java.util.HashMap;
import java.util.Iterator;
import java.util.LinkedList;
import java.util.List;
import java.util.Map;
import java.util.Map.Entry;
import java.util.concurrent.atomic.AtomicInteger;
import org.opendaylight.controller.md.sal.binding.api.DataBroker;
import org.opendaylight.controller.md.sal.binding.api.ReadWriteTransaction;
import org.opendaylight.controller.md.sal.common.api.data.LogicalDatastoreType;

import org.opendaylight.controller.md.statistics.manager.impl;


import org.opendaylight.controller.md.sal.common.api.data.ReadFailedException;
import org.opendaylight.controller.md.statistics.manager.StatisticsManager;
import org.opendaylight.controller.md.statistics.manager.impl.helper.FlowComparator;
import org.opendaylight.controller.sal.binding.api.NotificationProviderService;
import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.inventory.rev130819.FlowCapableNode;
import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.inventory.rev130819.FlowHashIdMapping;
import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.inventory.rev130819.FlowHashIdMappingBuilder;
import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.inventory.rev130819.FlowId;
import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.inventory.rev130819.nodes.node.table.FlowHashIdMap;
import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.inventory.rev130819.nodes.node.table.FlowHashIdMapBuilder;
import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.inventory.rev130819.nodes.node.table.FlowHashIdMapKey;
import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.inventory.rev130819.tables.Table;
import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.inventory.rev130819.tables.TableBuilder;
import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.inventory.rev130819.tables.table.Flow;
import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.inventory.rev130819.tables.table.FlowKey;
import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.transaction.rev131103.TransactionAware;
import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.transaction.rev131103.TransactionId;
import org.opendaylight.yang.gen.v1.urn.opendaylight.inventory.rev130819.NodeId;
import org.opendaylight.yang.gen.v1.urn.opendaylight.inventory.rev130819.Nodes;
import org.opendaylight.yang.gen.v1.urn.opendaylight.inventory.rev130819.nodes.Node;
import org.opendaylight.yang.gen.v1.urn.opendaylight.inventory.rev130819.nodes.NodeKey;
import org.opendaylight.yang.gen.v1.urn.opendaylight.yangtools.yang.binding.DataObject;
import org.opendaylight.yanggen.v1.urn.opendaylight.yangtools.yang.binding.InstanceIdentifier;
import org.opendaylight.yangtools.yang.binding.KeyedInstanceIdentifier;
import org.slf4j.Logger;
import org.slf4j.LoggerFactory;
import com.google.common.base.Optional;
import com.google.common.collect.BiMap;
import com.google.common.collect.HashBiMap;

/**
 * statistics-manager
 * org.opendaylight.controller.md.statistics.manager.impl
 *
 * StatListenCommitFlow
 * Class is a NotifyListener for FlowStatistics and DataChangeListener for Config/DataStore for Flow node.
 * All expected (registered) FlowStatistics will be builded and commit to Operational/DataStore.
 * DataChangeEven should call create/delete Flow in Operational/DS create process needs to pair
 * Device Flow HashCode and FlowId from Config/DS
 * 
 * @author <a href="mailto:vdemcak@cisco.com">Vaclav Demcak</a>
 * 
 */
public class StatListenCommitFlow extends StatAbstractListenCommit<Flow, OpendaylightFlowStatisticsListener>
    implements OpendaylightFlowStatisticsListener {

protected static final Logger LOG = LoggerFactory.getLogger(StatListenCommitFlow.class);

private static final String ALIEN_SYSTEM_FLOW_ID = "#UF$TABLE*";

private static final Integer REMOVE_AFTER_MISSING_COLLECTION = 1;

private final AtomicInteger unaccountedFlowsCounter = new AtomicInteger(0);

public StatListenCommitFlow (final StatisticsManager manager, final DataBroker db,
    final NotificationProviderService nps){
    super(manager, db, nps, Flow.class);
}

@Override
protected OpendaylightFlowStatisticsListener getStatNotificationListener() {
    return this;
}

@Override
protected InstanceIdentifier<Flow> getWildCardedRegistrationPath() {
    return InstanceIdentifier.create(Nodes.class).child(Node.class)
public void onAggregateFlowStatisticsUpdate(final AggregateFlowStatisticsUpdate notification) {
    final TransactionId transId = notification.getTransactionId();
    final NodeId nodeId = notification.getId();
    if (!isExpectedStatistics(transId, nodeId)) {
        LOG.debug("STAT-MANAGER - AggregateFlowStatisticsUpdate: unregistered notification detected
TransactionId {}", transId);
        return;
    }
    manager.getRpcMsgManager().addNotification(notification, nodeId);
    if (notification.isMoreReplies()) {
        return;
    }
    /* check flow capable node and write statistics */
    manager.enqueue(new StatDataStoreOperation() {
        @Override
        public void applyOperation(final ReadWriteTransaction tx) {
            final Optional<TransactionCacheContainer<? extends DataObject>> txContainer = getTransactionCacheContainer(transId, nodeId);
            if (!txContainer.isPresent() || txContainer.get().getNotifications() == null) {
                return;
            }
            final Optional<? extends DataObject> inputObj = txContainer.get().getConfInput();
            if (!inputObj.isPresent() || !inputObj.get().instanceof Table)) {
                return;
            }
            final Table table = (Table) inputObj.get();
            final List<? extends TransactionAware> cacheNotifs = txContainer.get().getNotifications();
            for (final TransactionAware notif : cacheNotifs) {
                if (notif instanceof AggregateFlowStatisticsUpdate) {
                    final AggregateFlowStatisticsData stats = new AggregateFlowStatisticsDataBuilder()
                    final InstanceIdentifier<FlowCapableNode> fNodeIdent = InstanceIdentifier.create(Nodes.class)
                        .child(Node.class, new NodeKey(nodeId)).augmentation(FlowCapableNode.class);
                    final InstanceIdentifier<Table> tableRef = fNodeIdent.child(Table.class, table.getKey());
                    final InstanceIdentifier<AggregateFlowStatisticsData> tableStatRef = tableRef
                        .augmentation(AggregateFlowStatisticsData.class);
                    Optional<FlowCapableNode> fNode = Optional.absent();
                    try {
                        fNode = tx.read(LogicalDatastoreType.OPERATIONAL, fNodeIdent).checkedGet();
                    } catch (final ReadFailedException e) {
                        LOG.debug("Read Operational/DS for FlowCapableNode fail! {}", fNodeIdent, e);
                        return;
                    }
                    txContainer.get().addNotification(tableStatRef, tableStatRef, stats.getAggregateFlowStatistics());
                    txContainer.get().addNotification(tableIdent, tableIdent, stats.getAggregateFlowStatistics());
                    txContainer.get().addNotification(nodeIdent, nodeIdent, stats.getAggregateFlowStatistics());
                    txContainer.get().markAsProcessed();
                }
            }
        }
    });
}
if (fNode.isPresent()) {
    ensureTable(tx, table.getId(), tableRef);
    tx.put(LogicalDatastoreType.OPERATIONAL, tableStatRef, stats);
}
}
}
});

public void ensureTable(final ReadWriteTransaction tx, final Short tableId, final InstanceIdentifier<Table> tableRef) {
    final Table tableNew = new TableBuilder().setId(tableId).build();
    tx.merge(LogicalDatastoreType.OPERATIONAL, tableRef, tableNew);
}

@Override
public void onFlowsStatisticsUpdate(final FlowsStatisticsUpdate notification) {
    final TransactionId transId = notification.getTransactionId();
    final NodeId nodeId = notification.getId();
    if ( ! isExpectedStatistics(transId, nodeId)) {
        LOG.debug("STAT-MANAGER - FlowsStatisticsUpdate: unregistred notification detect TransactionId ",
transId);
        return;
    }
    manager.getRpcMsgManager().addNotification(notification, nodeId);
    if (notification.isMoreReplies()) {
        LOG.trace("Next notification for join txId ", transId);
        return;
    }
    /* add flow's statistics */
    manager.enqueue(new StatDataStoreOperation() {
        @Override
        public void applyOperation(final ReadWriteTransaction tx) {
            final Optional<TransactionCacheContainer<?>> txContainer = getTransactionCacheContainer(transId,
nodeId);
            if ( ! txContainer.isPresent()) || txContainer.get().getNotifications() == null) {
                return;
            }
            final List<FlowAndStatisticsMapList> flowStats = new ArrayList<FlowAndStatisticsMapList>(10);
            final InstanceIdentifier<Node> nodeIdent = InstanceIdentifier.create(Nodes.class)
            .child(Node.class, new NodeKey(nodeId));
            final List<? extends TransactionAware> cacheNotifs = txContainer.get().getNotifications();
            for (final TransactionAware notif : cacheNotifs) {
                if (notif instanceof FlowsStatisticsUpdate) {
                    final List<FlowAndStatisticsMapList> notifList =
                    if (notifList != null) {
statsFlowCommitAll(flowStats, nodeIdent, tx);
/* cleaning all not cached hash collisions */
final Map<InstanceIdentifier<Flow>, Integer> listAliens = mapNodesForDelete.get(nodeIdent);
if (listAliens != null) {
    for (final Entry<InstanceIdentifier<Flow>, Integer> nodeForDelete : listAliens.entrySet()) {
        final Integer lifeIndex = nodeForDelete.getValue();
        if (nodeForDelete.getValue() > 0) {
            nodeForDelete.setValue(Integer.valueOf(lifeIndex.intValue() - 1));
        } else {
            final InstanceIdentifier<Flow> flowNodeIdent = nodeForDelete.getKey();
            mapNodesForDelete.get(nodeIdent).remove(flowNodeIdent);
            tx.delete(LogicalDatastoreType.OPERATIONAL, flowNodeIdent);
        }
    }
} /* Notification for continue collecting statistics */
notifyToCollectNextStatistics(nodeIdent);
})
} private void statsFlowCommitAll(final List<FlowAndStatisticsMapList> list,
final InstanceIdentifier<Node> nodeIdent, final ReadWriteTransaction tx) {

final InstanceIdentifier<FlowCapableNode> fNodeIdent = nodeIdent.augmentation(FlowCapableNode.class);

final Optional<FlowCapableNode> fNode;
try {
    fNode = tx.read(LogicalDatastoreType.OPERATIONAL, fNodeIdent).checkedGet();
} catch (final ReadFailedException e) {
    LOG.debug("Read FlowCapableNode {} in Operational/DS fail! Statistic scan not be updated.", nodeIdent, e);
    return;
} if (! fNode.isPresent()) {
    LOG.trace("FlowCapableNode {} is not presented in Operational/DS. Statistics can not be updated.",
nodeIdent);
    return;
}

final NodeUpdateState nodeState = new NodeUpdateState(fNodeIdent,fNode.get());
for (final FlowAndStatisticsMapListList flowStat : list) {
    final TableKey tableKey = new TableKey(flowStat.getTableId());
    final TableFlowUpdateState tableState = nodeState.getTable(tableKey, tx);
    tableState.reportFlow(flowStat, tx);
}

for (final TableFlowUpdateState table : nodeState.getTables()) {
    table.removeUnreportedFlows(tx);
}

/**
 * Method adds statistics to Flow
 *
 * @param flowBuilder
 * @param deviceFlow
 */
private void addStatistics(final FlowBuilder flowBuilder, final FlowAndStatisticsMapList deviceFlow) {
    final FlowAndStatisticsMapListBuilder stats = new FlowAndStatisticsMapListBuilder(deviceFlow);
    final FlowStatisticsBuilder flowStatisticsBuilder = new FlowStatisticsBuilder(stats.build());
    final FlowStatisticsDataBuilder flowStatisticsData = new FlowStatisticsDataBuilder();
    flowStatisticsData.setFlowStatistics(flowStatisticsBuilder.build());
    flowBuilder.addAugmentation(FlowStatisticsData.class, flowStatisticsData.build());
}

/**
 * build pseudoUnique hashCode for flow in table
 * for future easy identification
 *
 * FIXME: we expect same version for YANG models for all clusters and that has to be fix
 * FIXME: CREATE BETTER KEY - for flow (MATCH is the problem)
 */
static String buildFlowIdOperKey(final FlowAndStatisticsMapList deviceFlow) {
    return new StringBuffer().append(deviceFlow.getMatch()).append(deviceFlow.getPriority()).append(deviceFlow.getCookie().getValue()).toString();
}

private class NodeUpdateState {
    private final InstanceIdentifier<FlowCapableNode> nodeIdentifier;
    private final Map<TableKey, TableFlowUpdateState> tables = new HashMap<>();

    public NodeUpdateState(final InstanceIdentifier<FlowCapableNode> fNodeIdent, final FlowCapableNode flowCapableNode) {
        nodeIdentifier = fNodeIdent;
        final List<Table> tableList = flowCapableNode.getTable();
        if(tableList != null) {
            for (final Table table : tableList) {
                final TableKey tableKey = table.getKey();
            }
        }
    }
}
tables.put(tableKey, new TableFlowUpdateState(nodeIdentifier.child(Table.class,tableKey),table));
}
}

public Iterable<TableFlowUpdateState> getTables() {
    return tables.values();
}

TableFlowUpdateState getTable(final TableKey key, final ReadWriteTransaction tx) {
    TableFlowUpdateState table = tables.get(key);
    if(table == null) {
        table = new TableFlowUpdateState(nodeIdentifier.child(Table.class, key), null);
        tables.put(key, table);
    }
    return table;
}

private class TableFlowUpdateState {
    private boolean tableEnsured = false;
    final KeyedInstanceIdentifier<Table, TableKey> tableRef;
    final TableKey tableKey;
    final BiMap<FlowHashIdMapKey, FlowId> flowIdByHash;
    List<Flow> configFlows;

    public TableFlowUpdateState(final KeyedInstanceIdentifier<Table, TableKey> tablePath, final Table table) {
        tableRef = tablePath;
        tableKey = tablePath.getKey();
        flowIdByHash = HashBiMap.create();
        if(table != null) {
            final FlowHashIdMapping flowHashMapping = table.getAugmentation(FlowHashIdMapping.class);
            if (flowHashMapping != null) {
                final List<FlowHashIdMap> flowHashMap = flowHashMapping.flowHashIdMap() != null
                    ? flowHashMapping.flowHashIdMap() : Collections.<FlowHashIdMap>emptyList();
                for (final FlowHashIdMap flowHashId : flowHashMap) {
                    try {
                        flowIdByHash.put(flowHashId.getKey(), flowHashId.getFlowId());
                    } catch (final Exception e) {
                        LOG.warn("flow hashing hit a duplicate for {} -> {}", flowHashId.getKey(),
                                flowHashId.getFlowId());
                    }
                }
            }
        }
    }
}
private void ensureTableFlowHashIdMapping(final ReadWriteTransaction tx) {
    if(!tableEnsured) {
        ensureTable(tx, tableKey.getId(), tableRef);
        final FlowHashIdMapping emptyMapping = new FlowHashIdMappingBuilder()
            .setFlowHashIdMap(Collections.<FlowHashIdMap>emptyList()).build();
        tx.merge(LogicalDatastoreType.OPERATIONAL, tableRef.augmentation(FlowHashIdMapping.class),
            emptyMapping);
        tableEnsured = true;
    }
}

private FlowKey searchInConfiguration(final FlowAndStatisticsMapList flowStat, final ReadWriteTransaction trans) {
    initConfigFlows(trans);
    final Iterator<Flow> it = configFlows.iterator();
    while(it.hasNext()) {
        final Flow cfgFlow = it.next();
        final FlowKey cfgKey = cfgFlow.getKey();
        if(flowIdByHash.inverse().containsKey(cfgKey)) {
            it.remove();
        } else if(FlowComparator.flowEquals(flowStat, cfgFlow)) {
            it.remove();
            return cfgKey;
        }
    }
    return null;
}

private void initConfigFlows(final ReadWriteTransaction trans) {
    final Optional<Table> table = readLatestConfiguration(tableRef);
    List<Flow> localList = null;
    if(table.isPresent()) {
        localList = table.get().getFlow();
    }
    if(localList == null) {
        configFlows = Collections.emptyList();
    } else {
        configFlows = new LinkedList<>(localList);
    }
}

private FlowKey getFlowKeyAndRemoveHash(final FlowHashIdMapKey key) {
    final FlowId ret = flowIdByHash.get(key);
    if(ret != null) {
        flowIdByHash.remove(key);
        return new FlowKey(ret);
    }
    return null;
}
/* Returns FlowKey which doesn't exist in any DataStore for now */
private FlowKey makeAlienFlowKey() {
    final StringBuilder sBuilder = new StringBuilder(ALIEN_SYSTEM_FLOW_ID)
            .append(tableKey.getId()).append("-").append(unaccountedFlowsCounter.incrementAndGet());
    final FlowId flowId = new FlowId(sBuilder.toString());
    return new FlowKey(flowId);
}

private Map<FlowHashIdMapKey, FlowId> getRemovalList() {
    return flowIdByHash;
}

void reportFlow(final FlowAndStatisticsMapList flowStat, final ReadWriteTransaction trans) {
    ensureTableFlowHashIdMapping(trans);
    final FlowHashIdMapKey hashingKey = new FlowHashIdMapKey(buildFlowIdOperKey(flowStat));
    FlowKey flowKey = getFlowKeyAndRemoveHash(hashingKey);
    if (flowKey == null) {
        flowKey = searchInConfiguration(flowStat, trans);
        if (flowKey == null) {
            flowKey = makeAlienFlowKey();
        }
        updateHashCache(trans, flowKey, hashingKey);
    }
    final FlowBuilder flowBuilder = new FlowBuilder(flowStat);
    flowBuilder.setKey(flowKey);
    addStatistics(flowBuilder, flowStat);
    final InstanceIdentifier<Flow> flowIdent = tableRef.child(Flow.class, flowKey);
    trans.put(LogicalDatastoreType.OPERATIONAL, flowIdent, flowBuilder.build());
    /* check life for Alien flows */
    if (flowKey.getId().getValue().startsWith(ALIEN_SYSTEM_FLOW_ID)) {
        removeData(flowIdent, REMOVE_AFTER_MISSING_COLLECTION);
    }
}

/* Build and deploy new FlowHashId map */
private void updateHashCache(final ReadWriteTransaction trans, final FlowKey flowKey, final FlowHashIdMapKey hashingKey) {
    final FlowHashIdMapBuilder fHashIdMap = new FlowHashIdMapBuilder();
    fHashIdMap.setFlowId(flowKey.getId());
    fHashIdMap.setKey(hashingKey);
    final KeyedInstanceIdentifier<FlowHashIdMap, FlowHashIdMapKey> fHashIdent = tableRef
            .augmentation(FlowHashIdMapping.class).child(FlowHashIdMap.class, hashingKey);
    /* Add new FlowHashIdMap */
    trans.put(LogicalDatastoreType.OPERATIONAL, fHashIdent, fHashIdMap.build());
}
void removeUnreportedFlows(final ReadWriteTransaction tx) {
    final InstanceIdentifier<Node> nodeIdent = tableRef.firstIdentifierOf(Node.class);
    final List<InstanceIdentifier<Flow>> listMissingConfigFlows = notStatReportedConfigFlows();
    final Map<InstanceIdentifier<Flow>, Integer> nodeDeleteMap = mapNodesForDelete.get(nodeIdent);
    final Map<FlowHashIdMapKey, FlowId> listForRemove = getRemovalList();
    for (final Entry<FlowHashIdMapKey, FlowId> entryForRemove : listForRemove.entrySet()) {
        final FlowKey flowKey = new FlowKey(entryForRemove.getValue());
        final InstanceIdentifier<Flow> flowRef = tableRef.child(Flow.class, flowKey);
        if (nodeDeleteMap != null && flowKey.getKey().getValue().startsWith(ALIEN_SYSTEM_FLOW_ID)) {
            final Integer lifeIndex = nodeDeleteMap.get(flowRef);
            if (lifeIndex > 0) {
                break;
            } else {
                nodeDeleteMap.remove(flowRef);
            }
        } else {
            if (listMissingConfigFlows.remove(flowRef)) {
                break; // we probably lost some multipart msg
            }
        }
        final InstanceIdentifier<FlowHashIdMap> fHashIdent =
            tableRef.augmentation(FlowHashIdMapping.class).child(FlowHashIdMap.class, entryForRemove.getKey());
        tx.delete(LogicalDatastoreType.OPERATIONAL, flowRef);
        tx.delete(LogicalDatastoreType.OPERATIONAL, fHashIdent);
    }
}

List<InstanceIdentifier<Flow>> notStatReportedConfigFlows() {
    if (configFlows != null) {
        final List<InstanceIdentifier<Flow>> returnList = new ArrayList<>(configFlows.size());
        for (final Flow confFlow : configFlows) {
            final InstanceIdentifier<Flow> confFlowIdent = tableRef.child(Flow.class, confFlow.getKey());
            returnList.add(confFlowIdent);
        }
        return returnList;
    }
    return Collections.emptyList();
}

/**
 * Copyright (c) 2014 Cisco Systems, Inc. and others.  All rights reserved.
 *
 * This program and the accompanying materials are made available under the
 * terms of the Eclipse Public License v1.0 which accompanies this distribution,
 * and is available at http://www.eclipse.org/legal/epl-v10.html
 */
package org.opendaylight.controller.md.statistics.manager.impl;

import java.util.ArrayList;
import java.util.Collections;
import java.util.List;
import org.opendaylight.controller.md.sal.binding.api.DataBroker;
import org.opendaylight.controller.md.sal.binding.api.ReadWriteTransaction;
import org.opendaylight.controller.md.statistics.manager.StatisticsManager;
import org.opendaylight.controller.sal.binding.api.NotificationProviderService;
import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.inventory.rev130819.FlowCapableNode;
import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.inventory.rev130819.meters.Meter;
import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.inventory.rev130819.meters.MeterBuilder;
import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.inventory.rev130819.meters.MeterKey;
import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.transaction.rev131103.TransactionAware;
import org.opendaylight.yang.gen.v1.urn.opendaylight.inventory.rev130819.NodeId;
import org.opendaylight.yang.gen.v1.urn.opendaylight.inventory.rev130819.Nodes;
import org.opendaylight.yang.gen.v1.urn.opendaylight.inventory.rev130819.nodes.Node;
import org.opendaylight.yang.gen.v1.urn.opendaylight.meter.config.stats.reply.MeterConfigStats;
import org.opendaylight.yang.gen.v1.urn.opendaylight.meter.stats.reply.MeterStats;
import org.opendaylight.yangtools.yang.binding.InstanceIdentifier;
import org.slf4j.Logger;
import org.slf4j.LoggerFactory;
import com.google.common.base.Optional;

/**
 * statistics-manager
 * org.opendaylight.controller.md.statistics.manager.impl
 *
 * StatListenCommitMeter
 * Class is a NotifyListener for MeterStatistics and DataChangeListener for Config/DataStore for Meter node.
 * All expected (registered) MeterStatistics will be builded and commit to Operational/DataStore.
 * DataChangeEvent should call create/delete Meter in Operational/DS
 *
 */

public class StatListenCommitMeter extends StatAbstractListenCommit<Meter,
OpendaylightMeterStatisticsListener>
        implements OpendaylightMeterStatisticsListener {

    private static final Logger LOG = LoggerFactory.getLogger(StatListenCommitMeter.class);

    public StatListenCommitMeter(final StatisticsManager manager, final DataBroker db,
            final NotificationProviderService nps) {
        super(manager, db, nps, Meter.class);
    }

    @Override
    protected InstanceIdentifier<Meter> getWildCardedRegistrationPath() {
        return InstanceIdentifier.create(Nodes.class).child(Node.class)
                .augmentation(FlowCapableNode.class).child(Meter.class);
    }

    @Override
    protected OpendaylightMeterStatisticsListener getStatNotificationListener() {
        return this;
    }

    @Override
    public void onMeterConfigStatsUpdated(final MeterConfigStatsUpdated notification) {
        final TransactionId transId = notification.getTransactionId();
        final NodeId nodeId = notification.getId();
        if ( ! isExpectedStatistics(transId, nodeId)) {
            LOG.debug("STAT-MANAGER - MeterConfigStatsUpdated: unregistred notification detect TransactionId
1", transId);
            return;
        }
        if (notification.isMoreReplies()) {
            manager.getRpcMsgManager().addNotification(notification, nodeId);
            return;
        }
    }

}
final List<MeterConfigStats> meterConfStat = notification.getMeterConfigStats() != null
    ? new ArrayList<>(notification.getMeterConfigStats()) : new ArrayList<MeterConfigStats>(10);
final Optional<TransactionCacheContainer<?>> txContainer = getTransactionCacheContainer(transId, nodeId);
if (txContainer.isPresent()) {
    final List<? extends TransactionAware> cacheNotifs = txContainer.get().getNotifications();
    for (final TransactionAware notif : cacheNotifs) {
        if (notif instanceof MeterConfigStatsUpdated) {
            meterConfStat.addAll(((MeterConfigStatsUpdated) notif).getMeterConfigStats());
        }
    }
}
final InstanceIdentifier<Node> nodeIdent = InstanceIdentifier.create(Nodes.class).child(Node.class, new
    NodeKey(nodeId));
manager.enqueue(new StatDataStoreOperation() {
    @Override
    public void applyOperation(final ReadWriteTransaction tx) {
        /* Notification for continue collecting statistics */
        notifyToCollectNextStatistics(nodeIdent);
        commitConfMeterStats(meterConfStat, nodeIdent, tx);
    }
});

@Override
public void onMeterFeaturesUpdated(final MeterFeaturesUpdated notification) {
    final TransactionId transId = notification.getTransactionId();
    final NodeId nodeId = notification.getId();
    if ( ! isExpectedStatistics(transId, nodeId)) {
        LOG.debug("STAT-MANAGER - MeterFeaturesUpdated: unregistred notification detect TransactionId {}",
            transId);
        return;
    } else {
        return;
    }
    final Optional<TransactionCacheContainer<?>> txContainer = getTransactionCacheContainer(transId, nodeId);
    if (txContainer.isPresent()) {
        return;
    }
    final MeterFeatures stats = new MeterFeaturesBuilder(notification).build();
    final InstanceIdentifier<Node> nodeIdent = InstanceIdentifier
        .create(Nodes.class).child(Node.class, new NodeKey(nodeId));
    final InstanceIdentifier<MeterFeatures> meterFeatureIdent = nodeIdent
        .augmentation(NodeMeterFeatures.class).child(MeterFeatures.class);
    manager.enqueue(new StatDataStoreOperation() {
        @Override
public void applyOperation(final ReadWriteTransaction tx) {
    /* Notification for continue collecting statistics */
    notifyToCollectNextStatistics(nodeIdent);
    Optional<Node> node = Optional.absent();
    try {
        node = tx.read(LogicalDatastoreType.OPERATIONAL, nodeIdent).checkedGet();
    }
    catch (final ReadFailedException e) {
        LOG.debug("Read Operational/DS for Node fail! {}", nodeIdent, e);
    }
    if (node.isPresent()) {
        tx.put(LogicalDatastoreType.OPERATIONAL, meterFeatureIdent, stats);
    }
}

@Override
public void onMeterStatisticsUpdated(final MeterStatisticsUpdated notification) {
    final TransactionId transId = notification.getTransactionId();
    final NodeId nodeId = notification.getId();
    if (!isExpectedStatistics(transId, nodeId)) {
        LOG.debug("STAT-MANAGER - MeterStatisticsUpdated: unregistred notification detect TransactionId {}", transId);
        return;
    }
    if (notification.isMoreReplies()) {
        manager.getRpcMsgManager().addNotification(notification, nodeId);
        return;
    }
    final List<MeterStats> meterStat = notification.getMeterStats() != null
        ? new ArrayList<>(notification.getMeterStats()) : new ArrayList<>(10);
    final Optional<TransactionCacheContainer<?>> txContainer = getTransactionCacheContainer(transId, nodeId);
    if (txContainer.isPresent()) {
        final List<? extends TransactionAware> cacheNotifs = txContainer.get().getNotifications();
        for (final TransactionAware notif : cacheNotifs) {
            if (notif instanceof MeterConfigStatsUpdated) {
                meterStat.addAll(((MeterStatisticsUpdated) notif).getMeterStats());
            }
        }
    }
    final InstanceIdentifier<Node> nodeIdent = InstanceIdentifier.create(Nodes.class).child(Node.class, new NodeKey(nodeId));
    manager.enqueue(new StatDataStoreOperation() {
        @Override
        public void applyOperation(final ReadWriteTransaction tx) {
            /* Notification for continue collecting statistics */
            try {
                tx.put(LogicalDatastoreType.OPERATIONAL, meterFeatureIdent, stats);
            }
            catch (final ReadFailedException e) {
                LOG.debug("Read Operational/DS for Node fail! {}", nodeIdent, e);
            }
            if (node.isPresent()) {
                tx.put(LogicalDatastoreType.OPERATIONAL, meterFeatureIdent, stats);
            }
        }
    });
}
private void statMeterCommit(final List<MeterStats> meterStats, final InstanceIdentifier<Node> nodeIdent, final ReadWriteTransaction trans) {
    final InstanceIdentifier<FlowCapableNode> fNodeIdent = nodeIdent.augmentation(FlowCapableNode.class);
    for (final MeterStats mStat : meterStats) {
        final MeterStatistics stats = new MeterStatisticsBuilder(mStat).build();
        final MeterKey mKey = new MeterKey(mStat.getMeterId());
        final InstanceIdentifier<MeterStatistics> msIdent = fNodeIdent
            .child(Meter.class, mKey).augmentation(NodeMeterStatistics.class)
            .child(MeterStatistics.class);
        /* Meter Statistics commit */
        Optional<FlowCapableNode> fNode = Optional.absent();
        try {
            fNode = trans.read(LogicalDatastoreType.OPERATIONAL, fNodeIdent).checkedGet();
        } catch (final ReadFailedException e) {
            LOG.debug("Read Operational/DS for FlowCapableNode fail! {}", fNodeIdent, e);
        }
        if (fNode.isPresent()) {
            trans.put(LogicalDatastoreType.OPERATIONAL, msIdent, stats);
        }
    }
}

private void comitConfMeterStats(final List<MeterConfigStats> meterConfStat, final InstanceIdentifier<Node> nodeIdent, final ReadWriteTransaction trans) {
    final InstanceIdentifier<FlowCapableNode> fNodeIdent = nodeIdent.augmentation(FlowCapableNode.class);
    final List<MeterKey> deviceMeterKeys = new ArrayList<>();
    for (final MeterConfigStats meterConf : meterConfStat) {
        final MeterBuilder meterBuilder = new MeterBuilder(meterConf);
        if (meterConf.getMeterId() != null) {
            final MeterKey meterKey = new MeterKey(meterConf.getMeterId());
            meterBuilder.setKey(meterKey);
            final InstanceIdentifier<Meter> meterRef = nodeIdent
                .augmentation(FlowCapableNode.class).child(Meter.class, meterKey);
            final NodeMeterConfigStatsBuilder meterConfig = new NodeMeterConfigStatsBuilder();
            meterConfig.setMeterConfigStats(new MeterConfigStatsBuilder(meterConf).build());
            //Update augmented data
            meterBuilder.addAugmentation(NodeMeterConfigStats.class, meterConfig.build());
            deviceMeterKeys.add(meterKey);
        }
    }
}
Optional<FlowCapableNode> fNode = Optional.absent();
try {
    fNode = trans.read(LogicalDatastoreType.OPERATIONAL, fNodeIdent).checkedGet();
} catch (final ReadFailedException e) {
    LOG.debug("Read Operational/DS for FlowCapableNode fail! ", fNodeIdent, e);
    if (!fNode.isPresent()) {
        trans.put(LogicalDatastoreType.OPERATIONAL, meterRef, meterBuilder.build());
    }
}
/* Delete all not presented Meter Nodes */
deleteAllNotPresentedNodes(fNodeIdent, trans, deviceMeterKeys);
}

private void deleteAllNotPresentedNodes(final InstanceIdentifier<FlowCapableNode> fNodeIdent,
    final ReadWriteTransaction trans, final List<MeterKey> deviceMeterKeys) {
    /* Delete all not presented meters */
    final Optional<FlowCapableNode> fNode = readLatestConfiguration(fNodeIdent);
    final List<Meter> existMeters = fNode.get().getMeter() != null
        ? fNode.get().getMeter() : Collections.<Meter> emptyList();
    /* Add all existed groups paths - no updated paths has to be removed */
    for (final Meter meter : existMeters) {
        if (deviceMeterKeys.remove(meter.getKey())) {
            break; // Meter still exist on device
        }
        final InstanceIdentifier<Meter> delMeterIdent = fNodeIdent.child(Meter.class, meter.getKey());
        Optional<Meter> delMeter = Optional.absent();
        try {
            delMeter = trans.read(LogicalDatastoreType.OPERATIONAL, delMeterIdent).checkedGet();
        } catch (final ReadFailedException e) {
            // NOOP - probably another transaction delete that node
        }
        if (delMeter.isPresent()) {
            trans.delete(LogicalDatastoreType.OPERATIONAL, delMeterIdent);
        }
    }
}
/**
* Copyright (c) 2014 Cisco Systems, Inc. and others. All rights reserved.
package org.opendaylight.controller.md.statistics.manager.impl;

import java.util.ArrayList;
import java.util.List;
import org.opendaylight.controller.md.sal.binding.api.ReadWriteTransaction;
import org.opendaylight.controller.md.sal.common.api.data.LogicalDatastoreType;
import org.opendaylight.controller.md.sal.common.api.data.ReadFailedException;
import org.opendaylight.controller.md.statistics.manager.StatisticsManager;
import org.opendaylight.controller.sal.binding.api.NotificationProviderService;
import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.transaction.rev131103.TransactionAware;
import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.transaction.rev131103.TransactionId;
import org.opendaylight.yang.gen.v1.urn.opendaylight.inventory.rev130819.NodeId;
import org.opendaylight.yang.gen.v1.urn.opendaylight.inventory.rev130819.Nodes;
import org.opendaylight.yang.gen.v1.urn.opendaylight.inventory.rev130819.node.NodeConnector;
import org.opendaylight.yang.gen.v1.urn.opendaylight.inventory.rev130819.node.NodeConnectorBuilder;
import org.opendaylight.yang.gen.v1.urn.opendaylight.inventory.rev130819.node.NodeConnectorKey;
import org.opendaylight.yang.gen.v1.urn.opendaylight.inventory.rev130819.nodes.Node;
import org.opendaylight.yang.gen.v1.urn.opendaylight.inventory.rev130819.nodes.NodeKey;
import org.opendaylight.yangtools.yang.binding.InstanceIdentifier;
import org.slf4j.Logger;
import org.slf4j.LoggerFactory;
import com.google.common.base.Optional;

* This program and the accompanying materials are made available under the terms of the Eclipse Public License v1.0 which accompanies this distribution, and is available at http://www.eclipse.org/legal/epl-v10.html */
public class StatNotifyCommitPort extends StatAbstractNotifyCommit<OpendaylightPortStatisticsListener> implements OpendaylightPortStatisticsListener {

private static final Logger LOG = LoggerFactory.getLogger(StatNotifyCommitPort.class);

public StatNotifyCommitPort(final StatisticsManager manager, final NotificationProviderService nps) {
    super(manager, nps);
}

@Override
protected OpendaylightPortStatisticsListener getStatNotificationListener() {
    return this;
}

@Override
public void onNodeConnectorStatisticsUpdate(final NodeConnectorStatisticsUpdate notification) {
    final TransactionId transId = notification.getTransactionId();
    final NodeId nodeId = notification.getId();
    if (!isExpectedStatistics(transId, nodeId)) {
        LOG.debug("STAT-MANAGER - NodeConnectorStatisticsUpdate: unregistred notification detect TransactionId ", transId);
        return;
    }
    manager.getRpcMsgManager().addNotification(notification, nodeId);
    if (notification.isMoreReplies()) {
        return;
    }
    final InstanceIdentifier<Node> nodeIdent = InstanceIdentifier.create(Nodes.class)
        .child(Node.class, new NodeKey(nodeId));
    /* Don't block RPC Notification thread */
    manager.enqueue(new StatDataStoreOperation() {
        @Override
        public void applyOperation(final ReadWriteTransaction trans) {
            final Optional<TransactionCacheContainer<?>> txContainer = getTransactionCacheContainer(transId, 

/*
 * statistics-manager
 * org.opendaylight.controller.md.statistics.manager.impl
 * StatNotifyCommitPort
 * Class is a NotifyListener for PortStatistics
 * All expected (registered) portStatistics will be builded and
 * commit to Operational/DataStore
 *
 */

/*
 * @author <a href="mailto:vdemcak@cisco.com">Vaclav Demcak</a>
 */

*/
nodeId);
    if (( ! txContainer.isPresent()) || txContainer.get().getNotifications() == null) {
        return;
    }
    final List<NodeConnectorStatisticsAndPortNumberMap> portStats =
        new ArrayList<NodeConnectorStatisticsAndPortNumberMap>(10);
    final List<? extends TransactionAware> cachedNotifs = txContainer.get().getNotifications();
    for (final TransactionAware notif : cachedNotifs) {
        if (notif instanceof NodeConnectorStatisticsUpdate) {
            final List<NodeConnectorStatisticsAndPortNumberMap> notifStat =
                ((NodeConnectorStatisticsUpdate) notif).getNodeConnectorStatisticsAndPortNumberMap();
            if (notifStat != null) {
                portStats.addAll(notifStat);
            }
        }
    }
    /* write stat to trans */
    statPortCommit(portStats, nodeIdent, trans);
    /* Notification for continue collecting statistics - Port statistics are still same size
     * and they are small - don't need to wait for whole apply operation*/
    notifyToCollectNextStatistics(nodeIdent);
});
}
}

private void statPortCommit(final List<NodeConnectorStatisticsAndPortNumberMap> portStats,
    final InstanceIdentifier<Node> nodeIdent, final ReadWriteTransaction tx) {

    /* check exist FlowCapableNode and write statistics probable with parent */
    Optional<Node> fNode = Optional.absent();
    try {
        fNode = tx.read(LogicalDatastoreType.OPERATIONAL, nodeIdent).checkedGet();
    }
    catch (final ReadFailedException e) {
        LOG.debug("Read Operational/DS for Node fail! {}", nodeIdent, e);
        return;
    }
    if ( ! fNode.isPresent()) {
        LOG.trace("Read Operational/DS for Node fail! Node {} doesn't exist.", nodeIdent);
        return;
    }
    for (final NodeConnectorStatisticsAndPortNumberMap nConnectPort : portStats) {
        final FlowCapableNodeConnectorStatistics stats = new
            FlowCapableNodeConnectorStatisticsBuilder(nConnectPort).build();
        final NodeConnectorKey key = new NodeConnectorKey(nConnectPort.getNodeConnectorId());
        final InstanceIdentifier<NodeConnector> nodeConnectorIdent = nodeIdent.child(NodeConnector.class, key);
        final InstanceIdentifier<FlowCapableNodeConnectorStatisticsData> nodeConnStatIdent =
            nodeConnectorIdent
            ...
final InstanceIdentifier<FlowCapableNodeConnectorStatistics> flowCapNodeConnStatIdent = nodeConnStatIdent.child(FlowCapableNodeConnectorStatistics.class);
Optional<NodeConnector> fNodeConector;
try {
    fNodeConector = tx.read(LogicalDatastoreType.OPERATIONAL, nodeConnectorIdent).checkedGet();
} catch (final ReadFailedException e) {
    LOG.debug("Read NodeConnector {} in Operational/DS fail!", nodeConnectorIdent, e);
    fNodeConector = Optional.absent();
}
if (fNodeConector.isPresent()) {
    tx.merge(LogicalDatastoreType.OPERATIONAL, nodeConnectorIdent, new NodeConnectorBuilder().setld(key.getId()).build());
    tx.merge(LogicalDatastoreType.OPERATIONAL, nodeConnStatIdent, new FlowCapableNodeConnectorStatisticsDataBuilder().build());
    tx.put(LogicalDatastoreType.OPERATIONAL, flowCapNodeConnStatIdent, stats);
}

package org.opendaylight.controller.md.statistics.manager.impl;

import java.util.concurrent.ExecutionException;
import java.util.concurrent.TimeUnit;
import java.util.concurrent.TimeoutException;
import org.opendaylight.controller.md.statistics.manager.StatNotifyCommiter;
import org.opendaylight.controller.md.statistics.manager.StatisticsManager;
import org.opendaylight.controller.sal.binding.api.NotificationProviderService;
import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.transaction.rev131103.TransactionId;
import org.opendaylight.yang.gen.v1.urn.opendaylight.inventory.rev130819.NodeId;
import org.opendaylight.yang.gen.v1.urn.opendaylight.inventory.rev130819.nodes.Node;
import org.opendaylight.yangtools.concepts.ListenerRegistration;
import org.opendaylight.yangtools.yang.binding.InstanceIdentifier;
import org.opendaylight.yangtools.yang.binding.NotificationListener;
import org.slf4j.Logger;
import org.slf4j.LoggerFactory;

import org.opendaylight.controller.md.statistics.manager.StatNotifyCommiter;
import org.opendaylight.controller.md.statistics.manager.StatisticsManager;
import org.opendaylight.controller.sal.binding.api.NotificationProviderService;
import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.transaction.rev131103.TransactionId;
import org.opendaylight.yang.gen.v1.urn.opendaylight.inventory.rev130819.NodeId;
import org.opendaylight.yang.gen.v1.urn.opendaylight.inventory.rev130819.nodes.Node;
import org.opendaylight.yangtools.concepts.ListenerRegistration;
import org.opendaylight.yangtools.yang.binding.InstanceIdentifier;
import org.opendaylight.yangtools.yang.binding.NotificationListener;
import org.slf4j.Logger;
import org.slf4j.LoggerFactory;
import org.slf4j.Logger;
import org.slf4j.LoggerFactory;
import com.google.common.base.Optional;
import com.google.common.base.Preconditions;

/**
 * statistics-manager
 * org.opendaylight.controller.md.statistics.manager.impl
 * 
 * StatAbstratNotifiCommitter
 * Class is abstract implementation for all no Configuration/DataStore DataObjects
 * and represent common functionality for all DataObject Statistics Committers.
 * Class defines contract between DataObject and relevant Statistics NotificationListener.
 * 
 */
public abstract class StatAbstractNotifyCommit<N extends NotificationListener> implements StatNotifyCommiter<N> {

    private static final Logger LOG = LoggerFactory.getLogger(StatAbstractNotifyCommit.class);

    protected final StatisticsManager manager;
    private ListenerRegistration<NotificationListener> notifyListenerRegistration;

    public StatAbstractNotifyCommit(final StatisticsManager manager,
                                final NotificationProviderService nps) {
        Preconditions.checkNotNull(manager, "StatisticManager can not be null!");
        this.manager = Preconditions.checkNotNull(manager, "StatisticManager can not be null!");
        notifyListenerRegistration = nps.registerNotificationListener(getStatNotificationListener());
    }

    @Override
    public void close() {
        if (notifyListenerRegistration != null) {
            try {
                notifyListenerRegistration.close();
            } catch (final Exception e) {
                LOG.error("Error by stop {} StatNotificationListener.", this.getClass().getSimpleName());
            }
            notifyListenerRegistration = null;
        }
    }

    /**
     * Method returns Statistics Notification Listener for relevant DataObject implementation,
     * which is declared for [@link StatNotifyCommiter] interface.
     *
     * @return
     */
    protected abstract N getStatNotificationListener();
/**
 * PreConfigurationCheck - Node identified by input InstanceIdentifier<Node>
 * has to be registered in { @link org.opendaylight.controller.md.statistics.manager.StatPermCollector}
 * *
 * @param InstanceIdentifier<Node> nodeIdent
 */
protected boolean preConfigurationCheck(final InstanceIdentifier<Node> nodeIdent) {
    Preconditions.checkNotNull(nodeIdent, "FlowCapableNode ident can not be null!");
    return manager.isProvidedFlowNodeActive(nodeIdent);
}

protected void notifyToCollectNextStatistics(final InstanceIdentifier<Node> nodeIdent) {
    Preconditions.checkNotNull(nodeIdent, "FlowCapableNode ident can not be null!");
    manager.collectNextStatistics(nodeIdent);
}

/**
 * Wrapping Future object call for { @link org.opendaylight.controller.md.statistics.manager.StatRpcMsgManager}
 * getTransactionCacheContainer with 10sec TimeOut.
 * Method has returned { @link Optional} which could contains a { @link TransactionCacheContainer}
 * *
 * @param TransactionId transId
 * @param NodeId nodeId
 * @return
 */
protected Optional<TransactionCacheContainer<?>> getTransactionCacheContainer(final TransactionId transId,
final NodeId nodeId) {
    Optional<TransactionCacheContainer<?>> txContainer;
    try {
        txContainer = manager.getRpcMsgManager().getTransactionCacheContainer(transId, nodeId).get(10,
TimeUnit.SECONDS);
    } catch (InterruptedException | ExecutionException | TimeoutException e) {
        LOG.warn("Get TransactionCacheContainer fail!", e);
        txContainer = Optional.absent();
    }
    return txContainer;
}

/**
 * Wrapping Future object call to { @link org.opendaylight.controller.md.statistics.manager.StatRpcMsgManager}
 * isExpectedStatistics with 10sec TimeOut.
 * Method has checked registration for provided { @link TransactionId} and { @link NodeId}
 * *
 * @param TransactionId transId - Transaction identification
 * @param NodeId nodeId - Node identification
 */
protected boolean isExpectedStatistics(final TransactionId transId, final NodeId nodeId) {
    Boolean isExpectedStat = Boolean.FALSE;
    try {
        isExpectedStat = manager.getRpcMsgManager().isExpectedStatistics(transId, nodeId).get(10,
            TimeUnit.SECONDS);
    } catch (InterruptedException | ExecutionException | TimeoutException e) {
        LOG.warn("Check Transaction registration {} fail!", transId, e);
        return false;
    }
    return isExpectedStat.booleanValue();
}

package org.opendaylight.controller.md.statistics.manager;

import org.opendaylight.yangtools.yang.binding.NotificationListener;

public interface StatNotifyCommiter<N extends NotificationListener> extends AutoCloseable, NotificationListener
{

}
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package org.opendaylight.controller.md.statistics.manager;

import org.opendaylight.controller.md.sal.binding.api.DataChangeListener;
import org.opendaylight.yang.gen.v1.urn.opendaylight.inventory.rev130819.nodes.Node;
import org.opendaylight.yangtools.yang.binding.DataObject;
import org.opendaylight.yangtools.yang.binding.InstanceIdentifier;
import org.opendaylight.yangtools.yang.binding.NotificationListener;

/**
 * statistics-manager
 * org.opendaylight.controller.md.statistics.manager
 *
 * StatListeningCommiter
 * Definition Interface for {@link DataChangeListener} implementer class rule.
 * Interface represent a contract between Config/DataStore changes and Operational/DataStore commits. All Operational/DataStore commit have to by represent as RPC Device response Notification processing. So Operational/DS could contains only real mirror of OF Device
 *
 * @author <a href="mailto:vdemcak@cisco.com">Vaclav Demcak</a>
 *
 * Created: Aug 27, 2014
 */
public interface StatListeningCommiter<T extends DataObject, N extends NotificationListener> extends DataChangeListener, StatNotifyCommiter<N> {

/**
 * All StatListeningCommiter implementer has to clean its actual state for all cached data related to disconnected node.
 * Method prevents unwanted dataStore changes.
 *
 * @param nodeIdent
 */
void cleanForDisconnect(InstanceIdentifier<Node> nodeIdent);

7.191 table-miss-enforcer 0.0.4-Helium-SR1
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**7.192 tcpmd5-api 1.0.1-Helium-SR1**

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7.193 tcpmd5-jni 1.0.1-Helium-SR1

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7.194 test-common 0.0.4-Helium-SR1
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 */

package org.opendaylight.openflowplugin.testcommon;

import java.math.BigInteger;
import java.util.concurrent.atomic.AtomicLong;
import org.opendaylight.controller.md.sal.binding.api.DataBroker;
import org.opendaylight.controller.md.sal.binding.api.ReadWriteTransaction;
import org.opendaylight.controller.md.sal.common.api.data.LogicalDatastoreType;
import org.opendaylight.controller.sal.binding.api.NotificationProviderService;
import org.opendaylight.openflowplugin.Yang.gen.v1.urn.opendaylight.flow.inventory.rev130819.tables.Table;
import org.opendaylight.openflowplugin.Yang.gen.v1.urn.opendaylight.flow.inventory.rev130819.tables.TableKey;
import org.opendaylight.yang.gen.v1.urn.opendaylight.inventory.rev130819.Nodes;
import org.opendaylight.yang.gen.v1.urn.opendaylight.inventory.rev130819.nodes.Node;
import org.opendaylight.yang.gen.v1.urn.opendaylight.inventory.rev130819.nodes.NodeKey;
import org.opendaylight.yangtools.concepts.ListenerRegistration;
import org.opendaylight.yangtools.yang.binding.InstanceIdentifier;
import org.opendaylight.yangtools.yang.binding.InstanceIdentifier;
import org.opendaylight.yangtools.yang.binding.NotificationListener;
import org.slf4j.Logger;
import org.slf4j.LoggerFactory;

/**
 * provides cbench responder behavior: upon packetIn arrival addFlow action is sent out to
 * device using dataStore strategy (FRM involved)
 */

public class DropTestCommiter extends AbstractDropTest {

    private final static Logger LOG = LoggerFactory.getLogger(DropTestCommiter.class);

    private DataBroker dataService;

    private static final AtomicLong idCounter = new AtomicLong();
private static final ThreadLocal<FlowBuilder> BUILDER = new ThreadLocal<FlowBuilder>() {
    @Override
    protected FlowBuilder initialValue() {
        final FlowBuilder fb = new FlowBuilder();

        fb.setPriority(4);
        fb.setBufferId(0L);
        final FlowCookie cookie = new FlowCookie(BigInteger.TEN);
        fb.setCookie(cookie);
        fb.setCookieMask(cookie);
        fb.setTableId((short) 0);
        fb.setHardTimeout(300);
        fb.setIdleTimeout(240);
        fb.setFlags(new FlowModFlags(false, false, false, false, false));
        return fb;
    }
};

private NotificationProviderService notificationService;

private ListenerRegistration<NotificationListener> notificationRegistration;

/**
 * start listening on packetIn
 */
public void start() {
    notificationRegistration = notificationService.registerNotificationListener(this);
}

/**
 * @param dataService the dataService to set
 */
public void setDataService(DataBroker dataService) {
    this.dataService = dataService;
}

@Override
protected void processPacket(final NodeKey node, final Match match, final Instructions instructions) {

    // Finally build our flow
    final FlowBuilder fb = BUILDER.get();
    fb.setMatch(match);
    fb.setInstructions(instructions);
    fb.setId(new FlowId(String.valueOf(fb.hashCode()) + "." + String.valueOf(idCounter.getAndIncrement())));

    // Construct the flow instance id
    final InstanceIdentifier<Flow> flowInstanceId =

InstanceIdentifier.builder(Nodes.class) // File under nodes
    .child(Node.class, node) // A particular node identified by nodeKey
    .augmentation(FlowCapableNode.class) // That is flow capable, only FlowCapableNodes have tables
    .child(Table.class, new TableKey((short) 0)) // In the table identified by TableKey
    .child(Flow.class, new FlowKey(fb.getId())) // A flow identified by flowKey
    .build();

final Flow flow = fb.build();
final ReadWriteTransaction transaction = dataService.newReadWriteTransaction();

if (LOG.isDebugEnabled()) {
    LOG.debug("onPacketReceived - About to write flow {}", flow);
}
transaction.put(LogicalDatastoreType.CONFIGURATION, flowInstanceId, flow, true);
transaction.submit();
LOG.debug("onPacketReceived - About to write flow commited");
}

@Override
public void close() {
    try {
        LOG.debug("DropTestProvider stopped.");
        if (notificationRegistration != null) {
            notificationRegistration.close();
        }
    } catch (Exception e) {
        LOG.error("unregistration of notification listener failed", e);
    }
}

/**
 * @param notificationService
 */
public void setNotificationService(NotificationProviderService notificationService) {
    this.notificationService = notificationService;
}

7.195 test-extension 0.0.4-Helium-SR1
7.195.1 Available under license:

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 * terms of the Eclipse Public License v1.0 which accompanies this distribution,
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 */
module test-provider-impl {
    yang-version 1;
    prefix "test-provider-impl";

    import config { prefix config; revision-date 2013-04-05; }
    import opendaylight-md-sal-binding { prefix mdsal; revision-date 2013-10-28; }

    revision "2014-06-11" {
        description
            "Initial revision.";
    }

    identity test-provider-impl {
        base "config:module-type";

        config:java-name-prefix TestProvider;
    }

    // Augments the 'configuration' choice node under modules/module.
    augment "/config:modules/config:module/config:configuration" {
        case test-provider-impl {
            when "/config:modules/config:module/config:type = 'test-provider-impl'";

            // wires in the data-broker service
            container data-broker {
                uses config:service-ref {
                    refine type {
                        mandatory true;
                        config:required-identity mdsal:binding-async-data-broker;
                    }
                }
            }

            // RPC Registry
            container rpc-registry {
                uses config:service-ref {
                    refine type {
                        mandatory true;
                        config:required-identity mdsal:binding-rpc-registry;
                    }
                }
            }
        }
    }
}
package org.opendaylight.openflowplugin.test;

import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.service.rev130819.FlowAdded;
import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.service.rev130819.FlowRemoved;
import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.service.rev130819.FlowUpdated;
import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.service.rev130819.SalFlowListener;
import org.opendaylight.yang.gen.v1.urn.opendaylight.flow.service.rev130819.SwitchFlowRemoved;
import org.slf4j.Logger;
import org.slf4j.LoggerFactory;

/**
 * dummy implementation flushing events into log
 */

public class FlowEventListenerLoggingImpl implements SalFlowListener {

    private static Logger LOG = LoggerFactory.getLogger(FlowEventListenerLoggingImpl.class);

    @Override
    public void onFlowAdded(FlowAdded notification) {
        LOG.info("flow to be added......................" + notification.toString());
        LOG.info("added flow Xid........................." + notification.getTransactionId().getValue());
    }

    @Override
    public void onFlowRemoved(FlowRemoved notification) {
        LOG.debug("removed flow........................" + notification.toString());
        LOG.debug("remove flow Xid........................." + notification.getTransactionId().getValue());
    }

    @Override
    public void onFlowUpdated(FlowUpdated notification) {
    }
}
LOG.debug("updated flow......................." + notification.toString());
LOG.debug("updated flow Xid......................." + notification.getTransactionId().getValue());
LOG.debug("-----------------------------------------------------------------------------------");

@Override
public void onNodeErrorNotification(NodeErrorNotification notification) {
    //commenting as we have a NodeErrorListener
    /*    LOG.error("Error notification flow Xid......................." + notification.getTransactionId().getValue());
    LOG.debug("notification Begin-Transaction:" + notification.getTransactionUri() + "-----------------------------------------------------------------------------------");
    */
}

@Override
public void onNodeExperimenterErrorNotification(NodeExperimenterErrorNotification notification) {
    // TODO Auto-generated method stub
}

@Override
public void onSwitchFlowRemoved(SwitchFlowRemoved notification) {
    LOG.debug("Switch flow removed : Cookies..................." + notification.getCookie().toString());
    LOG.debug("-----------------------------------------------------------------------------------");
}

7.197 TinyRadius 1.0
7.197.1 Available under license :
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Version 2.1, February 1999

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      (For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a
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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2)
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interface-compatible with the version that the work was made with.

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d) If distribution of the work is made by offering access to copy
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e) Verify that the user has already received a copy of these
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7.198 topology-ldp-discovery 1.1.1-Helium-SR1

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7.204 yang-binding 0.6.3-Helium-SR1

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 */
package org.opendaylight.yangtools.yang.binding;

import java.io.IOException;

/**
 * SPI-level contract for implementations of {@link DataObjectSerializer}.
 * The contract is kept between implementation of {@link DataObjectSerializerRegistry},
 * which maintains the lookup context required for recursive serialization.
 *
 * FIXME: this interface needs to be moved into .spi, but due to classpath funkyness
 * of OSGi, that change has to be carefully orchestrated to ensure proper imports
 * exist in all generated packages. One avenue how to achieve that is to move
 * { @link YangModuleInfo } and modify code generator to add a static field
 * to all generated classes which will point to the per-model YangModuleInfo
 * (currently all users of it have to walk the package hierarchy, so that
 * is an improvement in and of itself).
 *
 */
public interface DataObjectSerializerImplementation {

/**
 * Writes stream events for supplied data object to provided stream.
 *
 * @param reg DataObjectSerializerRegistry may be used to lookup serializers
 * for other generated classes in order to support writing
 * their events.
 */
void serialize(DataObjectSerializerRegistry reg, DataObject obj, BindingStreamEventWriter stream) throws IOException;


package org.opendaylight.yangtools.yang.binding;

import org.opendaylight.yangtools.yang.binding.InstanceIdentifier.IdentifiableItem;
import org.opendaylight.yangtools.yang.binding.InstanceIdentifier.Item;
import org.opendaylight.yangtools.yang.binding.InstanceIdentifier.PathArgument;
import com.google.common.base.Preconditions;
import com.google.common.collect.ImmutableList;
import com.google.common.collect.Iterables;

final class InstanceIdentifierBuilderImpl<T extends DataObject> implements InstanceIdentifier.InstanceIdentifierBuilder<T> {
    private final ImmutableList.Builder<PathArgument> pathBuilder = ImmutableList.builder();
    private final HashCodeBuilder<PathArgument> hashBuilder;
    private final Iterable<? extends PathArgument> basePath;
    private boolean wildcard = false;
    private PathArgument arg = null;

    InstanceIdentifierBuilderImpl() {
        this.hashBuilder = new HashCodeBuilder<>();
        this.basePath = null;
    }

    InstanceIdentifierBuilderImpl(final PathArgument item, final Iterable<? extends PathArgument> pathArguments,
                                  final int hash, final boolean wildcard) {
        this.hashBuilder = new HashCodeBuilder<>(hash);
        this.basePath = pathArguments;
        this.wildcard = wildcard;
        this.arg = item;
    }

    @Override
    public int hashCode() {
        return hashBuilder.toInstance();
    }

    @SuppressWarnings("unchecked")
    <N extends DataObject> InstanceIdentifierBuilderImpl<N> addNode(final Class<N> container) {
        arg = new Item<N>(container);
        return this;
    }

    @Override
    public int hashCode() {
        return hashBuilder.toInstance();
    }

    @SuppressWarnings("unchecked")
    <N extends DataObject> InstanceIdentifierBuilderImpl<N> addNode(final Class<N> container) {
        arg = new Item<N>(container);
        return this;
    }
}

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 */
hashBuilder.addArgument(arg);
pathBuilder.add(arg);

if (Identifiable.class.isAssignableFrom(container)) {
    wildcard = true;
}

return (InstanceIdentifierBuilderImpl<N>) this;
}

@SuppressWarnings("unchecked")
<N extends DataObject & Identifiable<K>, K extends Identifier<N>> InstanceIdentifierBuilderImpl<N>
addNode(final Class<N> listItem, final K listKey) {
    arg = new IdentifiableItem<N, K>(listItem, listKey);
    hashBuilder.addArgument(arg);
    pathBuilder.add(arg);
    return (InstanceIdentifierBuilderImpl<N>) this;
}

@Override
public <N extends ChildOf<? super T>> InstanceIdentifierBuilderImpl<N> child(final Class<N> container) {
    return addNode(container);
}

@Override
public <N extends Identifiable<K> & ChildOf<? super T>, K extends Identifier<N>>
InstanceIdentifierBuilderImpl<N> child(final Class<N> listItem, final K listKey) {
    return addNode(listItem, listKey);
}

/**
 * Build an identifier which refers to a specific augmentation of the current InstanceIdentifier referenced by
 * the builder
 * *
 * @param container
 * @param <N>
 * @return
 */
@Override
public <N extends DataObject & Augmentation<? super T>> InstanceIdentifierBuilderImpl<N>
augmentation(final Class<N> container) {
    return addNode(container);
}

@Override
public InstanceIdentifier<T> build() {
    Preconditions.checkState(arg != null, "No path arguments present");
final Iterable<PathArgument> pathArguments;
if (basePath == null) {
    pathArguments = pathBuilder.build();
} else {
    pathArguments = Iterables.concat(basePath, pathBuilder.build());
}

@SuppressWarnings("unchecked")
final InstanceIdentifier<T> ret = (InstanceIdentifier<T>) InstanceIdentifier.trustedCreate(arg, pathArguments, hashBuilder.toInstance(), wildcard);
return ret;
}

@Override
public InstanceIdentifier<T> toInstance() {
    return build();
}

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 */

package org.opendaylight.yangtools.yang.binding;

import java.util.Set;
import java.util.concurrent.Future;

import org.opendaylight.yangtools.yang.common.RpcResult;

public interface RpcImplementation {

    // Fixme: Change to RpcInput
    Set<Class<? extends DataContainer>> getSupportedInputs();

    // Fixme: Change to RpcInput
    <T extends DataContainer> Future<RpcResult<?>> invoke(Class<T> type, T input);
}

7.205 yang-common 0.6.3-Helium-SR1
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package org.opendaylight.yangtools.yang.common;

import java.text.SimpleDateFormat;

public class SimpleDateFormatUtil {

    private static final ThreadLocal<SimpleDateFormat> REVISION_FORMAT = new
    ThreadLocal<SimpleDateFormat>() {

        protected SimpleDateFormat initialValue() {
            return new SimpleDateFormat("yyyy-MM-dd");
        }

        public void set(SimpleDateFormat value) {
            throw new UnsupportedOperationException();
        }

    };

    public static SimpleDateFormat getRevisionFormat() {
        return REVISION_FORMAT.get();
    }
}

7.206 yang-ext 2013.09.07.4.1-Helium-SR1

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9.1 curl 7.34.0

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