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Text Part Number: 78EE117C99-144819960

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1.5 AjaxTags v1.2 1.2

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/**

* Defines common decoding methods for byte array decoders.

*

* @author Apache Software Foundation

* @version \$Id: BinaryDecoder.java,v 1.10 2004/06/15 18:14:15 ggregory Exp \$

*/

public interface BinaryDecoder extends Decoder {

/**

* Decodes a byte array and returns the results as a byte array.

*

```

* @param pArray A byte array which has been encoded with the
*   appropriate encoder
*
* @return a byte array that contains decoded content
*
* @throws DecoderException A decoder exception is thrown
*   if a Decoder encounters a failure condition during
*   the decode process.
*/
byte[] decode(byte[] pArray) throws DecoderException;
}

```

The commons-codec team is pleased to announce the Codec 1.3 release!

<http://jakarta.apache.org/commons/codec/>

The codec package contains simple encoder and decoders for various formats such as Base64 and Hexadecimal. In addition to these widely used encoders and decoders, the codec package also maintains a collection of phonetic encoding utilities.

Changes in this version include:

New Features:

- o BinaryCodec: Encodes and decodes binary to and from Strings of 0s and 1s. Issue: 27813. Thanks to Alex Karasulu.
- o QuotedPrintableCodec: Codec for RFC 1521 MIME (Multipurpose Internet Mail Extensions) Part One. Rules #3, #4, and #5 of the quoted-printable spec are not implemented yet. See also issue 27789. Issue: 26617. Thanks to Oleg Kalnichevski.
- o BCodec: Identical to the Base64 encoding defined by RFC 1521 and allows a character set to be specified. Issue: 26617. Thanks to Oleg Kalnichevski.
- o QCodec: Similar to the Quoted-Printable content-transfer-encoding defined in RFC 1521 and designed to allow text containing mostly ASCII characters to be decipherable on an ASCII terminal without decoding. Issue: 26617. Thanks to Oleg Kalnichevski.
- o Soundex: Implemented the DIFFERENCE algorithm. Issue: 25243. Thanks to Matthew Inger.
- o RefinedSoundex: Implemented the DIFFERENCE algorithm. Issue: 25243. Thanks to Matthew Inger.

Fixed bugs:

- o The default URL encoding logic was broken. Issue: 25995. Thanks to Oleg Kalnichevski.
- o Base64 chunked encoding not compliant with RFC 2045 section 2.1 CRLF. Issue: 27781. Thanks to Gary D. Gregory.

- o Hex converts illegal characters to 255. Issue: 28455.
- o Metaphone now correctly handles a silent B in a word that ends in MB. "COMB" is encoded as "KM", before this fix "COMB" was encoded as "KMB". Issue: 28457.
- o Added missing tags in Javadoc comments.
- o General Javadoc improvements.

Changes:

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- o The Board recommendation to remove Javadoc author tags has been implemented. All author tags are now "Apache Software Foundation".

Have fun!

-The commons-codec team

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The contributing author(s) would like to thank all those who helped with testing, bug fixes, and patience. This wouldn't have been possible without all of you.

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1.34 bcprov-jdk14 124

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```

```
/**
```

```
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```

```
 *
```

```
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```
 * <p>
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```

```
 * DEALINGS IN THE SOFTWARE.
```

```
 */
```

```
public class LICENSE
```

```
{
```

```
    public static String licenseText =
```

```
        "Copyright (c) 2000-2006 The Legion Of The Bouncy Castle (http://www.bouncycastle.org) "
```

```
        + System.getProperty("line.separator")
```

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        + System.getProperty("line.separator")
```

```
        + "Permission is hereby granted, free of charge, to any person obtaining a copy of this software "
```

```
        + System.getProperty("line.separator")
```

```
        + "and associated documentation files (the \"Software\"), to deal in the Software without restriction, "
```

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```

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        + "including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, "
```

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        + System.getProperty("line.separator")
```

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        + "and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, "
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+ "OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE
OR OTHER"
+ System.getProperty("line.separator")
+ "DEALINGS IN THE SOFTWARE.";

public static void main(
    String[] args)
{
    System.out.println(licenseText);
}
}

```

1.35 BlazeDS 3-0-0-544

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1.40 commons-beanutils 1.7

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 22:59:43 jkeyes Exp $
 * $Revision: 1.3 $
 * $Date: 2002/09/19 22:59:43 $
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The End

1.61 dom4j (DUPLICATE) 1.6.1

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1.62 ehcache 1.2.4

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```
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 */
```

```
package net.sf.ehcache.constructs.web;
```

```

/**
 * <p/>
 * This exception is thrown if, in particular, the {@link javax.servlet.ServletResponse#isCommitted()}
 * method shows the response has been committed. A committed response has already had its status code and headers
 * written.
 * <p/>
 * One situation that can cause this problem is using jsp:include to include a full, cached page in another
 * page. When the JSP page is entered the response gets committed.
 * @see ResponseHeadersNotModifiableException
 * @author Greg Luck
 * @version $Id: AlreadyCommittedException.java 59 2006-04-30 03:41:39Z gregluck $
 */
public class AlreadyCommittedException extends ResponseHeadersNotModifiableException {

    /**
     * Constructor for the exception
     */
    public AlreadyCommittedException() {
        super();
    }

    /**
     * Constructs an exception with the message given
     * @param message the message
     */
    public AlreadyCommittedException(String message) {
        super(message);
    }
}

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 */

package net.sf.ehcache.constructs.web.filter;

```

```

import net.sf.ehcache.CacheManager;

import javax.servlet.http.HttpServletRequest;

/**
 * A simple page { @link CachingFilter } suitable for most uses.
 * <p/>
 * It uses a Singleton CacheManager created with the default factory method. Override to use a different
 * CacheManager
 * <p/>
 * The meaning of <i>page</i> is:
 * <ul>
 * <li>A complete response i.e. not a fragment.
 * <li>A content type suitable for gzipping. e.g. text or text/html
 * </ul>
 * For jsp:included page fragments see { @link SimplePageFragmentCachingFilter }.
 * <h3>Keys</h3>
 * Pages are cached based on their key. The key for this cache is the URI followed by the query string. An example
 * is <code>/admin/SomePage.jsp?id=1234&name=Beagle</code>.
 * <p/>
 * This key technique is suitable for a wide range of uses. It is independent of hostname and port number, so will
 * work well in situations where there are multiple domains which get the same content, or where users access
 * based on different port numbers.
 * <p/>
 * A problem can occur with tracking software, where unique ids are inserted into request query strings. Because
 * each request generates a unique key, there will never be a cache hit. For these situations it is better to
 * parse the request parameters and override { @link #calculateKey(javax.servlet.http.HttpServletRequest) } with
 * an implementation that takes account of only the significant ones.
 * <h3>Configuring Caching with ehcache</h3>
 * A cache entry in ehcache.xml should be configured with the name { @link #NAME }.
 * <p/>
 * Cache attributes including expiry are configured per cache name. To specify a different behaviour simply
 * subclass, specify a new name and create a separate cache entry for it.
 * <h3>Gzipping</h3>
 * Significant network efficiencies can be gained by gzipping responses.
 * <p/>
 * Whether a response can be gzipped depends on:
 * <ul>
 * <li>Whether the user agent can accept GZIP encoding. This feature is part of HTTP1.1.
 * If a browser accepts GZIP encoding it will advertise this by including in its HTTP header:
 * All common browsers except IE 5.2 on Macintosh are capable of accepting gzip encoding. Most search engine
 * robots do not accept gzip encoding.
 * <li>Whether the user agent has advertised its acceptance of gzip encoding. This is on a per request basis. If they
 * will accept a gzip response to their request they must include the following in the HTTP request header:
 * <code>
 * Accept-Encoding: gzip
 * </code>
 * </ul>

```

```

* Responses are automatically gzipped and stored that way in the cache. For requests which do not accept gzip
* encoding the page is retrieved from the cache, ungzipped and returned to the user agent. The ungzipping is
* high performance.
* @author Greg Luck
* @version $Id: SimplePageCachingFilter.java 125 2006-06-12 06:52:31Z gregluck $
*/
public class SimplePageCachingFilter extends CachingFilter {

    /**
     * The name of the filter. This should match a cache name in ehcache.xml
     */
    public static final String NAME = "SimplePageCachingFilter";

    /**
     * A meaningful name representative of the JSP page being cached.
     * <p/>
     * The name must match the name of a configured cache in ehcache.xml
     *
     * @return the name of the cache to use for this filter.
     */
    protected String getCacheName() {
        return NAME;
    }

    /**
     * Gets the CacheManager for this CachingFilter. It is therefore up to subclasses what CacheManager to use.
     * <p/>
     * This method was introduced in ehcache 1.2.1. Older versions used a singleton CacheManager instance created
with
     * the default factory method.
     *
     * @return the CacheManager to be used
     * @since 1.2.1
     */
    protected CacheManager getCacheManager() {
        return CacheManager.getInstance();
    }

    /**
     * Pages are cached based on their key. The key for this cache is the URI followed by the query string. An
example
     * is <code>/admin/SomePage.jsp?id=1234&name=Beagle</code>.
     * <p/>
     * This key technique is suitable for a wide range of uses. It is independent of hostname and port number, so will
     * work well in situations where there are multiple domains which get the same content, or where users access
     * based on different port numbers.
     * <p/>

```

```

* A problem can occur with tracking software, where unique ids are inserted into request query strings. Because
* each request generates a unique key, there will never be a cache hit. For these situations it is better to
* parse the request parameters and override {@link #calculateKey(javax.servlet.http.HttpServletRequest)} with
* an implementation that takes account of only the significant ones.
* <p/>
* The key should be unique
*
* @param httpRequest
* @return the key, generally the URI plus request parameters
*/
protected String calculateKey(HttpServletRequest httpRequest) {
    StringBuffer stringBuffer = new StringBuffer();
    stringBuffer.append(httpRequest.getRequestURI()).append(httpRequest.getQueryString());
    String key = stringBuffer.toString();
    return key;
}

}
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* limitations under the License.
*/

package net.sf.ehcache.constructs.web.filter;

import net.sf.ehcache.CacheManager;

import javax.servlet.http.HttpServletRequest;

/**
* A simple page fragment {@link CachingFilter} suitable for most uses.
* <p/>
* It uses a Singleton CacheManager created with the default factory method. Override to use a different
CacheManager
* <p/>
* The meaning of <i>page fragment</i> is:
* <ul>

```

- * An include into an outer page.
- * A content type suitable for inclusion into the outer page. e.g. text or text/html
- *
- * For full page see { @link SimplePageCachingFilter }.
- * <h3>Keys</h3>
- * Pages are cached based on their key. The key for this cache is the URI followed by the query string. An example
- * is <code>/admin/SomePage.jsp?id=1234&name=Beagle</code>.
- * <p/>
- * This key technique is suitable for a wide range of uses. It is independent of hostname and port number, so will
- * work well in situations where there are multiple domains which get the same content, or where users access
- * based on different port numbers.
- * <p/>
- * A problem can occur with tracking software, where unique ids are inserted into request query strings. Because
- * each request generates a unique key, there will never be a cache hit. For these situations it is better to
- * parse the request parameters and override { @link #calculateKey(javax.servlet.http.HttpServletRequest) } with
- * an implementation that takes account of only the significant ones.
- * <h3>Configuring Caching with ehcache</h3>
- * A cache entry in ehcache.xml should be configured with the name { @link #NAME }.
- * <p/>
- * Cache attributes including expiry are configured per cache name. To specify a different behaviour simply
- * subclass, specify a new name and create a separate cache entry for it.
- * <h3>Gzipping</h3>
- * Page fragments should never be gzipped.
- * <p/>
- * Page fragments are stored in the cache unzipped.
- *
- * @author Greg Luck
- * @version \$Id: SimplePageFragmentCachingFilter.java 161 2006-07-29 20:35:28Z gregluck \$
- */

```
public class SimplePageFragmentCachingFilter extends PageFragmentCachingFilter {

    /**
     * This filter's name
     */
    public static final String NAME = "SimplePageFragmentCachingFilter";

    /**
     * CachingFilter works off a key.
     * <p/>
     * This test implementation has a single key.
     *
     * @param httpRequest
     * @return the key, generally the URL plus request parameters
     */
    protected String calculateKey(HttpServletRequest httpRequest) {
        StringBuffer stringBuffer = new StringBuffer();
        stringBuffer.append(httpRequest.getRequestURI()).append(httpRequest.getQueryString());
    }
}
```

```

    String key = stringBuffer.toString();
    return key;
}

/**
 * Gets the CacheManager for this CachingFilter. It is therefore up to subclasses what CacheManager to use.
 * <p/>
 * This method was introduced in ehcache 1.2.1. Older versions used a singleton CacheManager instance created
with
 * the default factory method.
 *
 * @return the CacheManager to be used
 * @since 1.2.1
 */
protected CacheManager getCacheManager() {
    return CacheManager.getInstance();
}

/**
 * Returns the name of the cache to use for this filter.
 */
protected String getCacheName() {
    return NAME;
}
}

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 * limitations under the License.
 */

package net.sf.ehcache.store;

import org.apache.commons.logging.Log;
import org.apache.commons.logging.LogFactory;

/**
 * A typesafe enumeration of eviction policies.

```

```

* The policy used to evict elements from the { @link net.sf.ehcache.store.MemoryStore}.
* This can be one of:
* <ol>
* <li>LRU - least recently used
* <li>LFU - least frequently used
* <li>FIFO - first in first out, the oldest element by creation time
* </ol>
* The default value is LRU
*
* @author <a href="mailto:gluck@thoughtworks.com">Greg Luck</a>
* @version $Id: MemoryStoreEvictionPolicy.java 240 2006-11-23 11:50:31Z gregluck $
* @since 1.2
*/

```

```

public final class MemoryStoreEvictionPolicy {

    /**
     * LRU - least recently used.
     */
    public static final MemoryStoreEvictionPolicy LRU = new MemoryStoreEvictionPolicy("LRU");

    /**
     * LFU - least frequently used.
     */
    public static final MemoryStoreEvictionPolicy LFU = new MemoryStoreEvictionPolicy("LFU");

    /**
     * FIFO - first in first out, the oldest element by creation time.
     */
    public static final MemoryStoreEvictionPolicy FIFO = new MemoryStoreEvictionPolicy("FIFO");

    private static final Log LOG = LogFactory.getLog(MemoryStoreEvictionPolicy.class.getName());

    // for debug only
    private final String myName;

    /**
     * This class should not be subclassed or have instances created.
     * @param policy
     */
    private MemoryStoreEvictionPolicy(String policy) {
        myName = policy;
    }

    /**
     * @return a String representation of the policy
     */
    public String toString() {

```

```

    return myName;
}

/**
 * Converts a string representation of the policy into a policy.
 *
 * @param policy either LRU, LFU or FIFO
 * @return one of the static instances
 */
public static MemoryStoreEvictionPolicy fromString(String policy) {
    if (policy != null) {
        if (policy.equalsIgnoreCase("LRU")) {
            return LRU;
        } else if (policy.equalsIgnoreCase("LFU")) {
            return LFU;
        } else if (policy.equalsIgnoreCase("FIFO")) {
            return FIFO;
        }
    }

    if (LOG.isWarnEnabled()) {
        LOG.warn("The memoryStoreEvictionPolicy of " + policy + " cannot be resolved. The policy will be" +
            " set to LRU");
    }
    return LRU;
}
}

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 * limitations under the License.
 */

package net.sf.ehcache.store;

import java.util.Random;

/**

```

```

* Contains common LFU policy code for use between the LfuMemoryStore and the DiskStore, which also
* uses an LfuPolicy for evictions.
*
* @author Greg Luck
* @version $Id: LfuPolicy.java 246 2006-11-26 09:09:28Z gregluck $
*/
public final class LfuPolicy {

    private static final int DEFAULT_SAMPLE_SIZE = 30;

    private static final Random RANDOM = new Random();

    /**
     * Utility class therefore no constructor
     */
    private LfuPolicy() {

    }

    /**
     * sampleSize how many samples to take
     * @return the smaller of the map size and the default sample size of 30
     */
    private static int calculateSampleSize(int populationSize) {
        if (populationSize < DEFAULT_SAMPLE_SIZE) {
            return populationSize;
        } else {
            return DEFAULT_SAMPLE_SIZE;
        }
    }

    /**
     * Finds the least hit of the sampled elements provided
     * @param sampledElements this should be a random subset of the population
     * @param justAdded we never want to select the element just added. May be null.
     * @return the least hit
     */
    public static LfuPolicy.Metadata leastHit(LfuPolicy.Metadata[] sampledElements, LfuPolicy.Metadata justAdded)
    {
        //edge condition when Memory Store configured to size 0
        if (sampledElements.length == 1) {
            return justAdded;
        }
        LfuPolicy.Metadata lowestElement = null;
        for (int i = 0; i < sampledElements.length; i++) {
            LfuPolicy.Metadata element = sampledElements[i];
            if (lowestElement == null) {

```

```

        if (!element.equals(justAdded)) {
            lowestElement = element;
        }
    } else {
        if (element.getHitCount() < lowestElement.getHitCount() && !element.equals(justAdded)) {
            lowestElement = element;
        }
    }
}
return lowestElement;
}

/**
 * Generates a random sample from a population
 * @param populationSize the size to draw from
 */
public static int[] generateRandomSample(int populationSize) {
    int sampleSize = LfuPolicy.calculateSampleSize(populationSize);
    int[] offsets = new int[sampleSize];
    int maxOffset = populationSize / sampleSize;
    for (int i = 0; i < sampleSize; i++) {
        offsets[i] = RANDOM.nextInt(maxOffset);
    }
    return offsets;
}

/**
 * A type representing relevant metadata from an element, used by LfuPolicy for its operations.
 */
public static interface Metadata {

    /**
     * @return the key of this object
     */
    Object getKey();

    /**
     *
     * @return the hit count for the element
     */
    long getHitCount();

}
}

/**
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 */

```

```

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* limitations under the License.
*/

```

```
package net.sf.ehcache.distribution;
```

```
import net.sf.ehcache.event.CacheEventListener;
```

```
/**
```

```

* Replicates cache entries to peers of the CacheManager
* @author <a href="mailto:gluck@thoughtworks.com">Greg Luck</a>
* @version $Id: CacheReplicator.java 52 2006-04-24 14:50:03Z gregluck $
*/

```

```
public interface CacheReplicator extends CacheEventListener {
```

```
    /**
```

```

    * Returns whether update is through copy or invalidate
    * @return true if update is via copy, else false if invalidate
    */

```

```
    boolean isReplicateUpdatesViaCopy();
```

```
    /**
```

```

    * Returns whether the replicator is not active.
    * @return true if the status is not STATUS_ALIVE
    */

```

```
    boolean notAlive();
```

```
    /**
```

```

    * Checks that the replicator is is <code>STATUS_ALIVE</code>.
    * @return true if the replicator is is <code>STATUS_ALIVE</code>, else false.
    */

```

```
    boolean alive();
```

```
    }
```

```
/**
```

```

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```

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- * limitations under the License.
- */

```
package net.sf.ehcache.distribution;
```

```
import net.sf.ehcache.event.CacheEventListener;
import net.sf.ehcache.event.CacheEventListenerFactory;
import net.sf.ehcache.util.PropertyUtil;
```

```
import java.util.Properties;
```

```
import org.apache.commons.logging.Log;
import org.apache.commons.logging.LogFactory;
```

```
/**
```

```
* Creates an RMICacheReplicator using properties. Config lines look like:
* <pre>&lt;cacheEventListenerFactory class="net.sf.ehcache.distribution.RMICacheReplicatorFactory"
* properties="
* replicateAsynchronously=true,
* replicatePuts=true
* replicateUpdates=true
* replicateUpdatesViaCopy=true
* replicateRemovals=true
* "&gt;&lt;/pre>
*
* @author <a href="mailto:gluck@thoughtworks.com">Greg Luck</a>
* @version $Id: RMICacheReplicatorFactory.java 173 2006-08-21 07:04:28Z gregluck $
*/
```

```
public class RMICacheReplicatorFactory extends CacheEventListenerFactory {
```

```
/**
```

```
* A default for the amount of time the replication thread sleeps after it detects the replicationQueue is empty
* before checking again.
```

```
*/
```

```
protected static final int DEFAULT_ASYNCHRONOUS_REPLICATION_INTERVAL_MILLIS = 1000;
```

```
private static final Log LOG = LogFactory.getLog(RMICacheReplicatorFactory.class.getName());
```

```
private static final String REPLICATE_PUTS = "replicatePuts";
```

```
private static final String REPLICATE_UPDATES = "replicateUpdates";
```

```
private static final String REPLICATE_UPDATES_VIA_COPY = "replicateUpdatesViaCopy";
```

```

private static final String REPLICATE_REMOVALS = "replicateRemovals";
private static final String REPLICATE_ASYNCHRONOUSLY = "replicateAsynchronously";
private static final String ASYNCHRONOUS_REPLICATION_INTERVAL_MILLIS =
"asynchronousReplicationIntervalMillis";
private static final int MINIMUM_REASONABLE_INTERVAL = 10;

/**
 * Create a CacheEventListener which is also a CacheReplicator.
 * <p/>
 * The defaults if properties are not specified are:
 * <ul>
 * <li>replicatePuts=true
 * <li>replicateUpdates=true
 * <li>replicateUpdatesViaCopy=true
 * <li>replicateRemovals=true;
 * <li>replicateAsynchronously=true
 * <li>asynchronousReplicationIntervalMillis=1000
 * </ul>
 *
 * @param properties implementation specific properties. These are configured as comma
 *       separated name value pairs in ehcache.xml e.g.
 *       <p/>
 *       <code>
 *       &lt;cacheEventListenerFactory class="net.sf.ehcache.distribution.RMICacheReplicatorFactory"
 *       properties="
 *       replicateAsynchronously=true,
 *       replicatePuts=true
 *       replicateUpdates=true
 *       replicateUpdatesViaCopy=true
 *       replicateRemovals=true
 *       asynchronousReplicationIntervalMillis=1000
 *       "/&gt;</code>
 * @return a constructed CacheEventListener
 */
public final CacheEventListener createCacheEventListener(Properties properties) {
    boolean replicatePuts = extractReplicatePuts(properties);
    boolean replicateUpdates = extractReplicateUpdates(properties);
    boolean replicateUpdatesViaCopy = extractReplicateUpdatesViaCopy(properties);
    boolean replicateRemovals = extractReplicateRemovals(properties);
    boolean replicateAsynchronously = extractReplicateAsynchronously(properties);
    int asynchronousReplicationIntervalMillis = extractReplicationIntervalMilis(properties);

    if (replicateAsynchronously) {
        return new RMIAynchronousCacheReplicator(
            replicatePuts,
            replicateUpdates,
            replicateUpdatesViaCopy,
            replicateRemovals,

```

```

        asynchronousReplicationIntervalMillis);
    } else {
        return new RMISynchronousCacheReplicator(
            replicatePuts,
            replicateUpdates,
            replicateUpdatesViaCopy,
            replicateRemovals);
    }
}

/**
 * Extracts the value of asynchronousReplicationIntervalMillis. Sets it to 1000ms if
 * either not set or there is a problem parsing the number
 * @param properties
 */
protected int extractReplicationIntervalMilis(Properties properties) {
    int asynchronousReplicationIntervalMillis;
    String asynchronousReplicationIntervalMillisString =
        PropertyUtil.extractAndLogProperty(ASYNCHRONOUS_REPLICATION_INTERVAL_MILLIS,
properties);
    if (asynchronousReplicationIntervalMillisString != null) {
        try {
            int asynchronousReplicationIntervalMillisCandidate =
                Integer.parseInt(asynchronousReplicationIntervalMillisString);
            if (asynchronousReplicationIntervalMillisCandidate < MINIMUM_REASONABLE_INTERVAL) {
                LOG.warn("Trying to set the asynchronousReplicationIntervalMillis to an unreasonable number." +
                    " Using the default instead.");
                asynchronousReplicationIntervalMillis =
DEFAULT_ASYNCHRONOUS_REPLICATION_INTERVAL_MILLIS;
            } else {
                asynchronousReplicationIntervalMillis = asynchronousReplicationIntervalMillisCandidate;
            }
        } catch (NumberFormatException e) {
            LOG.warn("Number format exception trying to set asynchronousReplicationIntervalMillis. " +
                "Using the default instead. String value was: " + asynchronousReplicationIntervalMillisString + "");
            asynchronousReplicationIntervalMillis =
DEFAULT_ASYNCHRONOUS_REPLICATION_INTERVAL_MILLIS;
        }
    } else {
        asynchronousReplicationIntervalMillis =
DEFAULT_ASYNCHRONOUS_REPLICATION_INTERVAL_MILLIS;
    }
    return asynchronousReplicationIntervalMillis;
}

/**
 * Extracts the value of replicateAsynchronously from the properties
 * @param properties

```

```

*/
protected boolean extractReplicateAsynchronously(Properties properties) {
    boolean replicateAsynchronously;
    String replicateAsynchronouslyString =
PropertyUtil.extractAndLogProperty(REPLICATE_ASYNCHRONOUSLY, properties);
    if (replicateAsynchronouslyString != null) {
        replicateAsynchronously = PropertyUtil.parseBoolean(replicateAsynchronouslyString);
    } else {
        replicateAsynchronously = true;
    }
    return replicateAsynchronously;
}

/**
 * Extracts the value of replicateRemovals from the properties
 * @param properties
 */
protected boolean extractReplicateRemovals(Properties properties) {
    boolean replicateRemovals;
    String replicateRemovalsString = PropertyUtil.extractAndLogProperty(REPLICATE_REMOVALS,
properties);
    if (replicateRemovalsString != null) {
        replicateRemovals = PropertyUtil.parseBoolean(replicateRemovalsString);
    } else {
        replicateRemovals = true;
    }
    return replicateRemovals;
}

/**
 * Extracts the value of replicateUpdatesViaCopy from the properties
 * @param properties
 */
protected boolean extractReplicateUpdatesViaCopy(Properties properties) {
    boolean replicateUpdatesViaCopy;
    String replicateUpdatesViaCopyString =
PropertyUtil.extractAndLogProperty(REPLICATE_UPDATES_VIA_COPY, properties);
    if (replicateUpdatesViaCopyString != null) {
        replicateUpdatesViaCopy = PropertyUtil.parseBoolean(replicateUpdatesViaCopyString);
    } else {
        replicateUpdatesViaCopy = true;
    }
    return replicateUpdatesViaCopy;
}

/**
 * Extracts the value of replicateUpdates from the properties
 * @param properties

```

```

*/
protected boolean extractReplicateUpdates(Properties properties) {
    boolean replicateUpdates;
    String replicateUpdatesString = PropertyUtil.extractAndLogProperty(REPLICATE_UPDATES, properties);
    if (replicateUpdatesString != null) {
        replicateUpdates = PropertyUtil.parseBoolean(replicateUpdatesString);
    } else {
        replicateUpdates = true;
    }
    return replicateUpdates;
}

/**
 * Extracts the value of replicatePuts from the properties
 * @param properties
 */
protected boolean extractReplicatePuts(Properties properties) {
    boolean replicatePuts;
    String replicatePutsString = PropertyUtil.extractAndLogProperty(REPLICATE_PUTS, properties);
    if (replicatePutsString != null) {
        replicatePuts = PropertyUtil.parseBoolean(replicatePutsString);
    } else {
        replicatePuts = true;
    }
    return replicatePuts;
}

}

/**
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 *
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 * limitations under the License.
 */

package net.sf.ehcache.distribution;

import net.sf.ehcache.CacheException;

```

```

import net.sf.ehcache.Ehcache;
import net.sf.ehcache.Element;
import net.sf.ehcache.Status;
import org.apache.commons.logging.Log;
import org.apache.commons.logging.LogFactory;

import java.io.Serializable;
import java.util.List;

/**
 * Listens to { @link net.sf.ehcache.CacheManager } and { @link net.sf.ehcache.Cache } events and propagates those
 * to
 * { @link CachePeer } peers of the Cache.
 *
 * @author Greg Luck
 * @version $Id: RMISynchronousCacheReplicator.java 181 2006-08-27 22:42:39Z gregluck $
 */
public class RMISynchronousCacheReplicator implements CacheReplicator {

    private static final Log LOG = LogFactory.getLog(RMISynchronousCacheReplicator.class.getName());

    /**
     * The status of the replicator. Only replicates when <code>STATUS_ALIVE</code>
     */
    protected Status status;

    /**
     * Whether to replicate puts.
     */
    protected final boolean replicatePuts;

    /**
     * Whether to replicate updates.
     */
    protected final boolean replicateUpdates;

    /**
     * Whether an update (a put) should be by copy or by invalidation, (a remove).
     * <p/>
     * By copy is best when the entry is expensive to produce. By invalidation is best when
     * we are really trying to force other caches to sync back to a canonical source like a database.
     * An example of a latter usage would be a read/write cache being used in Hibernate.
     * <p/>
     * This setting only has effect if <code>#replicateUpdates</code> is true.
     */
    protected final boolean replicateUpdatesViaCopy;

```

```

/**
 * Whether to replicate removes
 */
protected final boolean replicateRemovals;

/**
 * Constructor for internal and subclass use
 *
 * @param replicatePuts
 * @param replicateUpdates
 * @param replicateUpdatesViaCopy
 * @param replicateRemovals
 */
public RMISynchronousCacheReplicator(
    boolean replicatePuts,
    boolean replicateUpdates,
    boolean replicateUpdatesViaCopy,
    boolean replicateRemovals) {
    this.replicatePuts = replicatePuts;
    this.replicateUpdates = replicateUpdates;
    this.replicateUpdatesViaCopy = replicateUpdatesViaCopy;
    this.replicateRemovals = replicateRemovals;
    status = Status.STATUS_ALIVE;
}

/**
 * Called immediately after an element has been put into the cache. The {@link
net.sf.ehcache.Cache#put(net.sf.ehcache.Element)} method
 * will block until this method returns.
 * <p/>
 * Implementers may wish to have access to the Element's fields, including value, so the element is provided.
 * Implementers should be careful not to modify the element. The effect of any modifications is undefined.
 *
 * @param cache the cache emitting the notification
 * @param element the element which was just put into the cache.
 */
public void notifyElementPut(final Ehcache cache, final Element element) throws CacheException {
    if (notAlive()) {
        return;
    }

    if (!replicatePuts) {
        return;
    }

    if (!element.isSerializable()) {
        if (LOG.isWarnEnabled()) {
            LOG.warn("Object with key " + element.getObjectKey() + " is not Serializable and cannot be replicated");
        }
    }
}

```

```

    }
    return;
}

    replicatePutNotification(cache, element);
}

/**
 * Does the actual RMI remote call
 *
 * @param element
 * @param cache
 * @throws RemoteCacheException if anything goes wrong with the remote call
 */
private static void replicatePutNotification(Ehcache cache, Element element) throws RemoteCacheException {
    List cachePeers = listRemoteCachePeers(cache);
    for (int i = 0; i < cachePeers.size(); i++) {
        CachePeer cachePeer = (CachePeer) cachePeers.get(i);
        try {
            cachePeer.put(element);
        } catch (Throwable t) {
            throw new RemoteCacheException("Error doing put to remote peer. Message was: " + t.getMessage());
        }
    }
}

/**
 * Called immediately after an element has been put into the cache and the element already
 * existed in the cache. This is thus an update.
 * <p/>
 * The { @link net.sf.ehcache.Cache#put(net.sf.ehcache.Element)} method
 * will block until this method returns.
 * <p/>
 * Implementers may wish to have access to the Element's fields, including value, so the element is provided.
 * Implementers should be careful not to modify the element. The effect of any modifications is undefined.
 *
 * @param cache the cache emitting the notification
 * @param element the element which was just put into the cache.
 */
public void notifyElementUpdated(final Ehcache cache, final Element element) throws CacheException {
    if (notAlive()) {
        return;
    }
    if (!replicateUpdates) {
        return;
    }
}

```

```

    if (replicateUpdatesViaCopy) {
        if (!element.isSerializable()) {
            if (LOG.isWarnEnabled()) {
                LOG.warn("Object with key " + element.getObjectKey() + " is not Serializable and cannot be updated
via copy");
            }
            return;
        }

        replicatePutNotification(cache, element);
    } else {
        if (!element.isKeySerializable()) {
            if (LOG.isWarnEnabled()) {
                LOG.warn("Key " + element.getObjectKey() + " is not Serializable and cannot be replicated.");
            }
            return;
        }

        replicateRemovalNotification(cache, (Serializable) element.getObjectKey());
    }
}

/**
 * Called immediately after an attempt to remove an element. The remove method will block until
 * this method returns.
 * <p/>
 * This notification is received regardless of whether the cache had an element matching
 * the removal key or not. If an element was removed, the element is passed to this method,
 * otherwise a synthetic element, with only the key set is passed in.
 * <p/>
 *
 * @param cache the cache emitting the notification
 * @param element the element just deleted, or a synthetic element with just the key set if
 * no element was removed. param element just deleted
 */
public void notifyElementRemoved(final Ehcache cache, final Element element) throws CacheException {
    if (notAlive()) {
        return;
    }

    if (!replicateRemovals) {
        return;
    }

    if (!element.isKeySerializable()) {
        if (LOG.isWarnEnabled()) {
            LOG.warn("Key " + element.getObjectKey() + " is not Serializable and cannot be replicated.");
        }
    }
}

```

```

    }
    return;
}

replicateRemovalNotification(cache, (Serializable) element.getObjectKey());
}

/**
 * Does the actual RMI remote call
 *
 * @param key
 * @param cache
 * @throws RemoteCacheException if anything goes wrong with the remote call
 */
private static void replicateRemovalNotification(Ehcache cache, Serializable key) throws RemoteCacheException
{
    List cachePeers = listRemoteCachePeers(cache);
    for (int i = 0; i < cachePeers.size(); i++) {
        CachePeer cachePeer = (CachePeer) cachePeers.get(i);
        try {
            cachePeer.remove(key);
        } catch (Throwable e) {
            throw new RemoteCacheException("Error doing remove to remote peer. Message was: " +
e.getMessage());
        }
    }
}

/**
 * {@inheritDoc}
 * <p/>
 * This implementation does not propagate expiries. It does not need to do anything because the element will
 * expire in the remote cache at the same time. If the remote peer is not configured the same way they should
 * not be in an cache cluster.
 */
public final void notifyElementExpired(final Ehcache cache, final Element element) {
    /*do not propagate expiries. The element should expire in the remote cache at the same time, thus
    preseerving coherency.
    */
}

/**
 * Called immediately after an element is evicted from the cache. Evicted in this sense
 * means evicted from one store and not moved to another, so that it exists nowhere in the
 * local cache.
 * <p/>
 * In a sense the Element has been <i>removed</i> from the cache, but it is different,

```

```

* thus the separate notification.
* <p/>
* This replicator does not propagate these events
*
* @param cache the cache emitting the notification
* @param element the element that has just been evicted
*/
public void notifyElementEvicted(final Ehcache cache, final Element element) {
    /**
     * do not notify these
     */
}

/**
 * Called during {@link net.sf.ehcache.Ehcache#removeAll()} to indicate that the all
 * elements have been removed from the cache in a bulk operation. The usual
 * {@link #notifyElementRemoved(net.sf.ehcache.Ehcache,net.sf.ehcache.Element)}
 * is not called.
 * <p/>
 * This notification exists because clearing a cache is a special case. It is often
 * not practical to serially process notifications where potentially millions of elements
 * have been bulk deleted.
 *
 * @param cache the cache emitting the notification
 */
public void notifyRemoveAll(final Ehcache cache) {
    if (notAlive()) {
        return;
    }

    if (!replicateRemovals) {
        return;
    }

    replicateRemoveAllNotification(cache);
}

private void replicateRemoveAllNotification(Ehcache cache) {
    List cachePeers = listRemoteCachePeers(cache);
    for (int i = 0; i < cachePeers.size(); i++) {
        CachePeer cachePeer = (CachePeer) cachePeers.get(i);
        try {
            cachePeer.removeAll();
        } catch (Throwable e) {
            throw new RemoteCacheException("Error doing removeAll to remote peer. Message was: " +
e.getMessage());
        }
    }
}

```

```

    }
}

/**
 * Package protected List of cache peers
 *
 * @param cache
 * @return a list of {@link CachePeer} peers for the given cache, excluding the local peer.
 */
static List listRemoteCachePeers(Ehcache cache) {
    CacheManagerPeerProvider provider = cache.getCacheManager().getCachePeerProvider();
    return provider.listRemoteCachePeers(cache);
}

/**
 * @return whether update is through copy or invalidate
 */
public final boolean isReplicateUpdatesViaCopy() {
    return replicateUpdatesViaCopy;
}

/**
 * Asserts that the replicator is active.
 *
 * @return true if the status is not STATUS_ALIVE
 */
public final boolean notAlive() {
    return !alive();
}

/**
 * Checks that the replicator is is STATUS_ALIVE.
 */
public final boolean alive() {
    if (status == null) {
        return false;
    } else {
        return (status.equals(Status.STATUS_ALIVE));
    }
}

/**
 * Give the replicator a chance to cleanup and free resources when no longer needed
 */
public void dispose() {
    status = Status.STATUS_SHUTDOWN;
}

```

```

/**
 * Creates a clone of this listener. This method will only be called by ehcache before a cache is initialized.
 * <p/>
 * This may not be possible for listeners after they have been initialized. Implementations should throw
 * CloneNotSupportedException if they do not support clone.
 *
 * @return a clone
 * @throws CloneNotSupportedException if the listener could not be cloned.
 */
public Object clone() throws CloneNotSupportedException {
    //shutup checkstyle
    super.clone();
    return new RMISynchronousCacheReplicator(replicatePuts, replicateUpdates, replicateUpdatesViaCopy,
replicateRemovals);
}
}
/**
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 *
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 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */

package net.sf.ehcache.distribution;

import net.sf.ehcache.CacheException;
import net.sf.ehcache.Ehcache;
import net.sf.ehcache.Element;
import net.sf.ehcache.Status;
import org.apache.commons.logging.Log;
import org.apache.commons.logging.LogFactory;

import java.io.Serializable;
import java.rmi.UnmarshalException;
import java.util.ArrayList;
import java.util.LinkedList;
import java.util.List;

```

```

/**
 * Listens to { @link net.sf.ehcache.CacheManager } and { @link net.sf.ehcache.Cache } events and propagates those
 * to
 * { @link CachePeer } peers of the Cache asynchronously.
 * <p/>
 * Updates are guaranteed to be replicated in the order in which they are received.
 * <p/>
 * While much faster in operation than { @link RMISynchronousCacheReplicator }, it does suffer from a number
 * of problems. Elements, which may be being spooled to DiskStore may stay around in memory because references
 * are being held to them from { @link EventMessage }s which are queued up. The replication thread runs once
 * per second, limiting the build up. However a lot of elements can be put into a cache in that time. We do not want
 * to get an { @link OutOfMemoryError } using distribution in circumstances when it would not happen if we were
 * just using the DiskStore.
 * <p/>
 * Accordingly, the Element values in { @link EventMessage }s are held by { @link java.lang.ref.SoftReference } in
 * the queue,
 * so that they can be discarded if required by the GC to avoid an { @link OutOfMemoryError }. A log message
 * will be issued on each flush of the queue if there were any forced discards. One problem with GC collection
 * of SoftReferences is that the VM (JDK1.5 anyway) will do that rather than grow the heap size to the maximum.
 * The workaround is to either set minimum heap size to the maximum heap size to force heap allocation at start
 * up, or put up with a few lost messages while the heap grows.
 *
 * @author Greg Luck
 * @version $Id: RMIAynchronousCacheReplicator.java 181 2006-08-27 22:42:39Z gregluck $
 */

```

```

public class RMIAynchronousCacheReplicator extends RMISynchronousCacheReplicator {

```

```

    private static final Log LOG = LogFactory.getLog(RMIAynchronousCacheReplicator.class.getName());

```

```

/**
 * A thread which handles replication, so that replication can take place asynchronously and not hold up the cache
 */

```

```

    protected Thread replicationThread = new ReplicationThread();

```

```

/**
 * The amount of time the replication thread sleeps after it detects the replicationQueue is empty
 * before checking again.
 */

```

```

    protected int asynchronousReplicationInterval;

```

```

/**
 * A queue of updates.
 */
    protected final List replicationQueue = new LinkedList();

```

```

/**

```

```

* Constructor for internal and subclass use
*
* @param replicatePuts
* @param replicateUpdates
* @param replicateUpdatesViaCopy
* @param replicateRemovals
* @param asynchronousReplicationInterval
*/
public RMIAynchronousCacheReplicator(
    boolean replicatePuts,
    boolean replicateUpdates,
    boolean replicateUpdatesViaCopy,
    boolean replicateRemovals,
    int asynchronousReplicationInterval) {
    super(replicatePuts,
        replicateUpdates,
        replicateUpdatesViaCopy,
        replicateRemovals);
    this.asynchronousReplicationInterval = asynchronousReplicationInterval;
    status = Status.STATUS_ALIVE;
    replicationThread.start();
}

/**
* RemoteDebugger method for the replicationQueue thread.
* <p/>
* Note that the replicationQueue thread locks the cache for the entire time it is writing elements to the disk.
*/
private void replicationThreadMain() {
    while (true) {
        // Wait for elements in the replicationQueue
        while (alive() && replicationQueue != null && replicationQueue.size() == 0) {
            try {
                Thread.sleep(asynchronousReplicationInterval);
            } catch (InterruptedException e) {
                LOG.debug("Spool Thread interrupted.");
                return;
            }
        }
        if (notAlive()) {
            return;
        }
        try {
            if (replicationQueue.size() != 0) {
                flushReplicationQueue();
            }
        } catch (Throwable e) {
            LOG.warn("Exception on flushing of replication queue: " + e.getMessage()

```

```

        + ". Continuing...", e);
    }
}

/**
 * {@inheritDoc}
 * <p/>
 * This implementation queues the put notification for in-order replication to peers.
 *
 * @param cache the cache emitting the notification
 * @param element the element which was just put into the cache.
 */
public final void notifyElementPut(final Ehcache cache, final Element element) throws CacheException {
    if (notAlive()) {
        return;
    }

    if (!replicatePuts) {
        return;
    }

    if (!element.isSerializable()) {
        if (LOG.isWarnEnabled()) {
            LOG.warn("Object with key " + element.getObjectKey() + " is not Serializable and cannot be replicated");
        }
        return;
    }
    addToReplicationQueue(new CacheEventMessage(EventMessage.PUT, cache, element, null));
}

/**
 * Called immediately after an element has been put into the cache and the element already
 * existed in the cache. This is thus an update.
 * <p/>
 * The { @link net.sf.ehcache.Cache#put(net.sf.ehcache.Element)} method
 * will block until this method returns.
 * <p/>
 * Implementers may wish to have access to the Element's fields, including value, so the element is provided.
 * Implementers should be careful not to modify the element. The effect of any modifications is undefined.
 *
 * @param cache the cache emitting the notification
 * @param element the element which was just put into the cache.
 */
public final void notifyElementUpdated(final Ehcache cache, final Element element) throws CacheException {
    if (notAlive()) {
        return;
    }
}

```

```

    }
    if (!replicateUpdates) {
        return;
    }

    if (replicateUpdatesViaCopy) {
        if (!element.isSerializable()) {
            if (LOG.isWarnEnabled()) {
                LOG.warn("Object with key " + element.getObjectKey() + " is not Serializable and cannot be updated
via copy");
            }
            return;
        }
        addToReplicationQueue(new CacheEventMessage(EventMessage.PUT, cache, element, null));
    } else {
        if (!element.isKeySerializable()) {
            if (LOG.isWarnEnabled()) {
                LOG.warn("Key " + element.getObjectKey() + " is not Serializable and cannot be replicated.");
            }
            return;
        }
        addToReplicationQueue(new CacheEventMessage(EventMessage.REMOVE, cache, null,
element.getKey()));
    }
}

/**
 * Called immediately after an attempt to remove an element. The remove method will block until
 * this method returns.
 * <p/>
 * This notification is received regardless of whether the cache had an element matching
 * the removal key or not. If an element was removed, the element is passed to this method,
 * otherwise a synthetic element, with only the key set is passed in.
 * <p/>
 * @param cache the cache emitting the notification
 * @param element the element just deleted, or a synthetic element with just the key set if
 * no element was removed.
 */
public final void notifyElementRemoved(final Ehcache cache, final Element element) throws CacheException {
    if (notAlive()) {
        return;
    }

    if (!replicateRemovals) {
        return;
    }

    if (!element.isKeySerializable()) {

```

```

        if (LOG.isWarnEnabled()) {
            LOG.warn("Key " + element.getObjectKey() + " is not Serializable and cannot be replicated.");
        }
        return;
    }
    addToReplicationQueue(new CacheEventMessage(EventMessage.REMOVE, cache, null, element.getKey()));
}

/**
 * Called during {@link net.sf.ehcache.Ehcache#removeAll()} to indicate that the all
 * elements have been removed from the cache in a bulk operation. The usual
 * {@link #notifyElementRemoved(net.sf.ehcache.Ehcache,net.sf.ehcache.Element)}
 * is not called.
 * <p/>
 * This notification exists because clearing a cache is a special case. It is often
 * not practical to serially process notifications where potentially millions of elements
 * have been bulk deleted.
 *
 * @param cache the cache emitting the notification
 */
public void notifyRemoveAll(final Ehcache cache) {
    if (notAlive()) {
        return;
    }

    if (!replicateRemovals) {
        return;
    }

    addToReplicationQueue(new CacheEventMessage(EventMessage.REMOVE_ALL, cache, null, null));
}

/**
 * Adds a message to the queue.
 * <p/>
 * This method checks the state of the replication thread and warns
 * if it has stopped and then discards the message.
 *
 * @param cacheEventMessage
 */
protected void addToReplicationQueue(CacheEventMessage cacheEventMessage) {
    if (!replicationThread.isAlive()) {
        LOG.error("CacheEventMessages cannot be added to the replication queue"
            + " because the replication thread has died.");
    } else {
        synchronized (replicationQueue) {

```

```

        replicationQueue.add(cacheEventMessage);
    }
}
}

/**
 * Gets called once per {@link #asynchronousReplicationInterval}.
 * <p/>
 * Sends accumulated messages in bulk to each peer. i.e. if there are 100 messages and 1 peer,
 * 1 RMI invocation results, not 100. Also, if a peer is unavailable this is discovered in only 1 try.
 * <p/>
 * Makes a copy of the queue so as not to hold up the enqueue operations.
 * <p/>
 * Any exceptions are caught so that the replication thread does not die, and because errors are expected,
 * due to peers becoming unavailable.
 * <p/>
 * This method issues warnings for problems that can be fixed with configuration changes.
 */
private void flushReplicationQueue() {
    List replicationQueueCopy;
    synchronized (replicationQueue) {
        if (replicationQueue.size() == 0) {
            return;
        }

        replicationQueueCopy = new ArrayList(replicationQueue.size());
        for (int i = 0; i < replicationQueue.size(); i++) {
            CacheEventMessage cacheEventMessage = (CacheEventMessage) replicationQueue.get(i);
            replicationQueueCopy.add(cacheEventMessage);
        }
        replicationQueue.clear();
    }

    Ehcache cache = ((CacheEventMessage) replicationQueueCopy.get(0)).cache;
    List cachePeers = listRemoteCachePeers(cache);

    List resolvedEventMessages = extractAndResolveEventMessages(replicationQueueCopy);

    for (int j = 0; j < cachePeers.size(); j++) {
        CachePeer cachePeer = (CachePeer) cachePeers.get(j);
        try {
            cachePeer.send(resolvedEventMessages);
        } catch (UnmarshalException e) {
            String message = e.getMessage();
            if (message.indexOf("Read time out") != 0) {

```

```

        LOG.warn("Unable to send message to remote peer due to socket read timeout. Consider increasing" +
            " the socketTimeoutMillis setting in the cacheManagerPeerListenerFactory. " +
            "Message was: " + e.getMessage());
    } else {
        LOG.debug("Unable to send message to remote peer. Message was: " + e.getMessage());
    }
} catch (Throwable t) {
    LOG.debug("Unable to send message to remote peer. Message was: " + t.getMessage());
}
}

if (LOG.isWarnEnabled()) {
    int eventMessagesNotResolved = replicationQueueCopy.size() - resolvedEventMessages.size();
    if (eventMessagesNotResolved > 0) {
        LOG.warn(eventMessagesNotResolved + " messages were discarded on replicate due to reclamation of " +
            "SoftReferences by the VM. Consider increasing the maximum heap size and/or setting the " +
            "starting heap size to a higher value.");
    }
}

}
}

/**
 * Extracts CacheEventMessages and attempts to get a hard reference to the underlying EventMessage
 * <p/>
 * If an EventMessage has been invalidated due to SoftReference collection of the Element, it is not
 * propagated. This only affects puts and updates via copy.
 *
 * @param replicationQueueCopy
 * @return a list of EventMessages which were able to be resolved
 */
private static List extractAndResolveEventMessages(List replicationQueueCopy) {
    List list = new ArrayList();
    for (int i = 0; i < replicationQueueCopy.size(); i++) {
        EventMessage eventMessage = ((CacheEventMessage) replicationQueueCopy.get(i)).getEventMessage();
        if (eventMessage != null && eventMessage.isValid()) {
            list.add(eventMessage);
        }
    }
    return list;
}

/**
 * A background daemon thread that writes objects to the file.
 */
private final class ReplicationThread extends Thread {
    public ReplicationThread() {
        super("Replication Thread");
        setDaemon(true);
    }
}

```

```

        setPriority(2);
    }

    /**
     * RemoteDebugger thread method.
     */
    public final void run() {
        replicationThreadMain();
    }
}

/**
 * A wrapper around an EventMessage, which enables the element to be enqueued along with
 * what is to be done with it.
 * <p/>
 * The wrapper holds a { @link java.lang.ref.SoftReference } to the { @link EventMessage }, so that the queue is
never
 * the cause of an { @link OutOfMemoryError }
 */
private static final class CacheEventMessage {

    private final Ehcache cache;
    private final EventMessage eventMessage;

    public CacheEventMessage(int event, Ehcache cache, Element element, Serializable key) {
        eventMessage = new EventMessage(event, key, element);
        this.cache = cache;
    }

    /**
     * Gets the component EventMessage
     */
    public final EventMessage getEventMessage() {
        return eventMessage;
    }
}

/**
 * Give the replicator a chance to cleanup and free resources when no longer needed
 */
public final void dispose() {
    status = Status.STATUS_SHUTDOWN;
    synchronized (replicationQueue) {
        replicationQueue.clear();
    }
}

```

```

}

/**
 * Creates a clone of this listener. This method will only be called by ehcache before a cache is initialized.
 * <p/>
 * This may not be possible for listeners after they have been initialized. Implementations should throw
 * CloneNotSupportedException if they do not support clone.
 *
 * @return a clone
 * @throws CloneNotSupportedException if the listener could not be cloned.
 */
public Object clone() throws CloneNotSupportedException {
    //shutup checkstyle
    super.clone();
    return new RMIAynchronousCacheReplicator(replicatePuts, replicateUpdates,
        replicateUpdatesViaCopy, replicateRemovals, asynchronousReplicationInterval);
}

}

```

1.63 esapi 2.0.1

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* @author Jeff Williams Aspect Security

* @created 2007

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1.64 ezmorph-1.0.6 1.0.6

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1.71 hornetq-commons 2.4.5

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 */

package org.hornetq.api.core;

import static org.hornetq.api.core.HornetQExceptionType.DUPLICATE_METADATA;

/**
 * A Session Metadata was set in duplication
 * @author <a href="mailto:andy.taylor@jboss.org">Andy Taylor</a> 5/2/12
 */
public final class HornetQDuplicateMetaDataException extends HornetQException
{
    private static final long serialVersionUID = 7877182872143004058L;

    public HornetQDuplicateMetaDataException()
    {
        super(DUPLICATE_METADATA);
    }

    public HornetQDuplicateMetaDataException(String msg)

```

```

    {
        super(DUPLICATE_METADATA, msg);
    }
}
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package org.hornetq.api.core;

import static org.hornetq.api.core.HornetQExceptionType.DUPLICATE_ID_REJECTED;

/**
 * A DuplicateID was rejected.
 * @author <a href="mailto:andy.taylor@jboss.org">Andy Taylor</a> 5/2/12
 */
public final class HornetQDuplicateIdException extends HornetQException
{
    private static final long serialVersionUID = -4302979339865777119L;

    public HornetQDuplicateIdException()
    {
        super(DUPLICATE_ID_REJECTED);
    }

    public HornetQDuplicateIdException(String message)
    {
        super(DUPLICATE_ID_REJECTED, message);
    }
}
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```

```
package org.hornetq.api.core;
```

```
import java.io.Serializable;
import java.util.ArrayList;
import java.util.List;
```

```
import org.hornetq.utils.DataConstants;
```

```
/**
```

```
 * A simple String class that can store all characters, and stores as simple { @code byte[] }, this
 * minimises expensive copying between String objects.
```

```
 * <p>
```

```
 * This object is used heavily throughout HornetQ for performance reasons.
```

```
 *
```

```
 * @author <a href="mailto:tim.fox@jboss.com">Tim Fox</a>
```

```
*/
```

```
public final class SimpleString implements CharSequence, Serializable, Comparable<SimpleString>
{
    private static final long serialVersionUID = 4204223851422244307L;
```

```
    // Attributes
```

```
    // -----
```

```
    private final byte[] data;
```

```
    private transient int hash;
```

```
    // Cache the string
```

```
    private transient String str;
```

```
    // Static
```

```
    // -----
```

```
/**
```

```
 * Returns a SimpleString constructed from the { @code string } parameter.
```

```
 * <p>
```

```
 * If { @code string } is { @code null }, the return value will be { @code null } too.
```

```
 *
```

```
 * @param string String used to instantiate a SimpleString.
```

```
*/
```

```
public static SimpleString toSimpleString(final String string)
```

```
{
```

```
    if (string == null)
```

```
    {
```

```
        return null;
```

```

    }
    return new SimpleString(string);
}

// Constructors
// -----

/**
 * creates a SimpleString from a conventional String
 *
 * @param string the string to transform
 */
public SimpleString(final String string)
{
    int len = string.length();

    data = new byte[len << 1];

    int j = 0;

    for (int i = 0; i < len; i++)
    {
        char c = string.charAt(i);

        byte low = (byte) (c & 0xFF); // low byte

        data[j++] = low;

        byte high = (byte) (c >> 8 & 0xFF); // high byte

        data[j++] = high;
    }

    str = string;
}

/**
 * creates a SimpleString from a byte array
 *
 * @param data the byte array to use
 */
public SimpleString(final byte[] data)
{
    this.data = data;
}

// CharSequence implementation
// -----

```

```

public int length()
{
    return data.length >> 1;
}

public char charAt(int pos)
{
    if (pos < 0 || pos >= data.length >> 1)
    {
        throw new IndexOutOfBoundsException();
    }
    pos <<= 1;

    return (char) ((data[pos] & 0xFF) | (data[pos + 1] << 8) & 0xFF00);
}

public CharSequence subSequence(final int start, final int end)
{
    int len = data.length >> 1;

    if (end < start || start < 0 || end > len)
    {
        throw new IndexOutOfBoundsException();
    }
    else
    {
        int newlen = end - start << 1;
        byte[] bytes = new byte[newlen];

        System.arraycopy(data, start << 1, bytes, 0, newlen);

        return new SimpleString(bytes);
    }
}

// Comparable implementation -----

public int compareTo(final SimpleString o)
{
    return toString().compareTo(o.toString());
}

// Public
// -----

/**
 * returns the underlying byte array of this SimpleString

```

```

*
* @return the byte array
*/
public byte[] getData()
{
    return data;
}

/**
 * returns true if the SimpleString parameter starts with the same data as this one. false if not.
 *
 * @param other the SimpleString to look for
 * @return true if this SimpleString starts with the same data
 */
public boolean startsWith(final SimpleString other)
{
    byte[] otherdata = other.data;

    if (otherdata.length > data.length)
    {
        return false;
    }

    for (int i = 0; i < otherdata.length; i++)
    {
        if (data[i] != otherdata[i])
        {
            return false;
        }
    }

    return true;
}

@Override
public String toString()
{
    if (str == null)
    {
        int len = data.length >> 1;

        char[] chars = new char[len];

        int j = 0;

        for (int i = 0; i < len; i++)
        {
            int low = data[j++] & 0xFF;

```

```

        int high = data[j++] << 8 & 0xFF00;

        chars[i] = (char) (low | high);
    }

    str = new String(chars);
}

return str;
}

@Override
public boolean equals(final Object other)
{
    if (this == other)
    {
        return true;
    }

    if (other instanceof SimpleString)
    {
        SimpleString s = (SimpleString) other;

        if (data.length != s.data.length)
        {
            return false;
        }

        for (int i = 0; i < data.length; i++)
        {
            if (data[i] != s.data[i])
            {
                return false;
            }
        }

        return true;
    }
    else
    {
        return false;
    }
}

@Override
public int hashCode()
{

```

```

if (hash == 0)
{
    int tmphash = 0;
    for (byte element : data)
    {
        tmphash = (tmphash << 5) - tmphash + element; // (hash << 5) - hash is same as hash * 31
    }
    hash = tmphash;
}

return hash;
}

/**
 * Splits this SimpleString into an array of SimpleString using the char param as the delimiter.
 * i.e. "a.b" would return "a" and "b" if . was the delimiter
 *
 * @param delim
 */
public SimpleString[] split(final char delim)
{
    List<SimpleString> all = null;

    byte low = (byte) (delim & 0xFF); // low byte
    byte high = (byte) (delim >> 8 & 0xFF); // high byte

    int lasPos = 0;
    for (int i = 0; i < data.length; i += 2)
    {
        if (data[i] == low && data[i + 1] == high)
        {
            byte[] bytes = new byte[i - lasPos];
            System.arraycopy(data, lasPos, bytes, 0, bytes.length);
            lasPos = i + 2;

            // We will create the ArrayList lazily
            if (all == null)
            {
                // There will be at least 2 strings on this case (which is the actual common usecase)
                // For that reason I'm allocating the ArrayList with 2 already
                // I have thought about using LinkedList here but I think this will be good enough already
                // Note by Clebert
                all = new ArrayList<SimpleString>(2);
            }
            all.add(new SimpleString(bytes));
        }
    }
}

```

```

if (all == null)
{
    return new SimpleString[]{this};
}
else
{
    // Adding the last one
    byte[] bytes = new byte[data.length - lasPos];
    System.arraycopy(data, lasPos, bytes, 0, bytes.length);
    all.add(new SimpleString(bytes));

    // Converting it to arrays
    SimpleString[] parts = new SimpleString[all.size()];
    return all.toArray(parts);
}
}

/**
 * checks to see if this SimpleString contains the char parameter passed in
 *
 * @param c the char to check for
 * @return true if the char is found, false otherwise.
 */
public boolean contains(final char c)
{
    final byte low = (byte) (c & 0xFF); // low byte
    final byte high = (byte) (c >> 8 & 0xFF); // high byte

    for (int i = 0; i < data.length; i += 2)
    {
        if (data[i] == low && data[i + 1] == high)
        {
            return true;
        }
    }
    return false;
}

/**
 * Concatenates a SimpleString and a String
 *
 * @param toAdd the String to concatenate with.
 * @return the concatenated SimpleString
 */
public SimpleString concat(final String toAdd)
{
    return concat(new SimpleString(toAdd));
}

```

```

/**
 * Concatenates 2 SimpleString's
 *
 * @param toAdd the SimpleString to concatenate with.
 * @return the concatenated SimpleString
 */
public SimpleString concat(final SimpleString toAdd)
{
    byte[] bytes = new byte[data.length + toAdd.getData().length];
    System.arraycopy(data, 0, bytes, 0, data.length);
    System.arraycopy(toAdd.getData(), 0, bytes, data.length, toAdd.getData().length);
    return new SimpleString(bytes);
}

/**
 * Concatenates a SimpleString and a char
 *
 * @param c the char to concate with.
 * @return the concatenated SimpleString
 */
public SimpleString concat(final char c)
{
    byte[] bytes = new byte[data.length + 2];
    System.arraycopy(data, 0, bytes, 0, data.length);
    bytes[data.length] = (byte) (c & 0xFF);
    bytes[data.length + 1] = (byte) (c >> 8 & 0xFF);
    return new SimpleString(bytes);
}

/**
 * returns the size of this SimpleString
 *
 * @return the size
 */
public int sizeof()
{
    return DataConstants.SIZE_INT + data.length;
}

/**
 * returns the size of a SimpleString
 *
 * @param str the SimpleString to check
 * @return the size
 */
public static int sizeofString(final SimpleString str)
{

```

```

    return str.sizeof();
}

/**
 * returns the size of a SimpleString which could be null
 *
 * @param str the SimpleString to check
 * @return the size
 */
public static int sizeofNullableString(final SimpleString str)
{
    if (str == null)
    {
        return 1;
    }
    else
    {
        return 1 + str.sizeof();
    }
}

/**
 * This method performs a similar function to { @link String#getChars(int, int, char[], int)}.
 * This is mainly used by the Parsers on Filters
 *
 * @param srcBegin
 * @param srcEnd
 * @param dst
 * @param dstPos
 */
public void getChars(final int srcBegin, final int srcEnd, final char[] dst, final int dstPos)
{
    if (srcBegin < 0)
    {
        throw new StringIndexOutOfBoundsException(srcBegin);
    }
    if (srcEnd > length())
    {
        throw new StringIndexOutOfBoundsException(srcEnd);
    }
    if (srcBegin > srcEnd)
    {
        throw new StringIndexOutOfBoundsException(srcEnd - srcBegin);
    }

    int j = srcBegin * 2;
    int d = dstPos;

```

```

    for (int i = srcBegin; i < srcEnd; i++)
    {
        int low = data[j++] & 0xFF;

        int high = data[j++] << 8 & 0xFF00;

        dst[d++] = (char) (low | high);
    }
}

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 */

package org.hornetq.api.core;

import static org.hornetq.api.core.HornetQExceptionType.ILLEGAL_STATE;

/**
 * A HornetQ resource is not in a legal state (e.g. calling ClientConsumer.receive() if a
 * MessageHandler is set).
 * @author <a href="mailto:andy.taylor@jboss.org">Andy Taylor</a> 5/2/12
 */
public final class HornetQIllegalStateException extends HornetQException
{
    private static final long serialVersionUID = -4480125401057788511L;

    public HornetQIllegalStateException()
    {
        super(ILLEGAL_STATE);
    }

    public HornetQIllegalStateException(String message)
    {
        super(ILLEGAL_STATE, message);
    }
}

```

```

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 */

package org.hornetq.api.core;

import static org.hornetq.api.core.HornetQExceptionType.ALREADY_REPLICATING;

/**
 * The server is already paired with a replicating backup.
 * @author <a href="mailto:andy.taylor@jboss.org">Andy Taylor</a> 5/2/12
 */
public final class HornetQAlreadyReplicatingException extends HornetQException
{
    private static final long serialVersionUID = -7352538521961996152L;

    public HornetQAlreadyReplicatingException()
    {
        super(ALREADY_REPLICATING);
    }

    public HornetQAlreadyReplicatingException(String msg)
    {
        super(ALREADY_REPLICATING, msg);
    }
}

```

1.72 hornetq-core-client 2.4.5

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```

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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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```

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1.74 hornetq-jms-client 2.4.5

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 */
/**
 *
 */
package org.hornetq.jms.client;

import javax.jms.JMSContext;
import javax.jms.JMSException;
import javax.jms.JMSRuntimeException;
import javax.jms.Session;
import javax.jms.XAJMSContext;

import org.hornetq.api.jms.HornetQJMSConstants;
import org.hornetq.utils.ReferenceCounter;
import org.hornetq.utils.ReferenceCounterUtil;

public abstract class HornetQConnectionForContextImpl implements HornetQConnectionForContext
{

    final Runnable closeRunnable = new Runnable()
    {
        public void run()
        {
            try
            {
                close();
            }
        }
    };
}
```

```

    }
    catch (JMSEException e)
    {
        throw JmsExceptionUtils.convertToRuntimeException(e);
    }
}
};

final ReferenceCounter refCounter = new ReferenceCounterUtil(closeRunnable);

protected final ThreadAwareContext threadAwareContext = new ThreadAwareContext();

public JMSContext createContext(int sessionMode)
{
    switch (sessionMode)
    {
        case Session.AUTO_ACKNOWLEDGE:
        case Session.CLIENT_ACKNOWLEDGE:
        case Session.DUPS_OK_ACKNOWLEDGE:
        case Session.SESSION_TRANSACTED:
        case HornetQJMSConstants.INDIVIDUAL_ACKNOWLEDGE:
        case HornetQJMSConstants.PRE_ACKNOWLEDGE:
            break;
        default:
            throw new JMSRuntimeException("Invalid ackmode: " + sessionMode);
    }
    refCounter.increment();

    return new HornetQJMSContext(this, sessionMode, threadAwareContext);
}

public XAJMSContext createXAContext()
{
    refCounter.increment();

    return new HornetQXAJMSContext(this, threadAwareContext);
}

@Override
public void closeFromContext()
{
    refCounter.decrement();
}

protected void incrementRefCounter()
{
    refCounter.increment();
}

```

```

public ThreadAwareContext getThreadAwareContext()
{
    return threadAwareContext;
}
}

```

1.75 hornetq-jms-server 2.4.5

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```

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 */
package org.hornetq.jms.persistence.impl.nullpm;

import java.util.Collections;
import java.util.List;

import org.hornetq.jms.persistence.JMSStorageManager;
import org.hornetq.jms.persistence.config.PersistedConnectionFactory;
import org.hornetq.jms.persistence.config.PersistedDestination;
import org.hornetq.jms.persistence.config.PersistedJNDI;
import org.hornetq.jms.persistence.config.PersistedType;

/**
 * A NullJMSStorageManagerImpl
 *
 * @author <a href="mailto:clebert.suconic@jboss.org">Clebert Suconic</a>
 *
 */
public class NullJMSStorageManagerImpl implements JMSStorageManager
{

    @Override
    public void deleteConnectionFactory(String connectionFactory) throws Exception
    {

```

```

}

@Override
public List<PersistedConnectionFactory> recoverConnectionFactories()
{
    return Collections.emptyList();
}

@Override
public List<PersistedDestination> recoverDestinations()
{
    return Collections.emptyList();
}

@Override
public void storeConnectionFactory(PersistedConnectionFactory connectionFactory) throws Exception
{
}

@Override
public void storeDestination(PersistedDestination destination)
{
}

@Override
public boolean isStarted()
{
    return true;
}

@Override
public void start() throws Exception
{
}

@Override
public void stop() throws Exception
{
}

@Override
public void addJNDI(PersistedType type, String name, String ... address) throws Exception
{
}

@Override
public void deleteJNDI(PersistedType type, String name, String address) throws Exception
{
}

```

```

}

@Override
public void deleteDestination(PersistedType type, String name) throws Exception
{
}

@Override
public void deleteJNDI(PersistedType type, String name) throws Exception
{
}

@Override
public List<PersistedJNDI> recoverPersistedJNDI() throws Exception
{
    return Collections.emptyList();
}

@Override
public void load() throws Exception
{
}
}
/*
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 */
package org.hornetq.jms.persistence.impl.journal;

import java.io.File;
import java.util.ArrayList;
import java.util.List;
import java.util.Map;
import java.util.concurrent.ConcurrentHashMap;

import org.hornetq.api.core.HornetQBuffer;
import org.hornetq.api.core.HornetQBuffers;
import org.hornetq.api.core.Pair;
import org.hornetq.core.config.Configuration;
import org.hornetq.core.journal.Journal;

```

```

import org.hornetq.core.journal.PreparedTransactionInfo;
import org.hornetq.core.journal.RecordInfo;
import org.hornetq.core.journal.SequentialFileFactory;
import org.hornetq.core.journal.impl.JournalImpl;
import org.hornetq.core.journal.impl.NIOSequentialFileFactory;
import org.hornetq.core.replication.ReplicatedJournal;
import org.hornetq.core.replication.ReplicationManager;
import org.hornetq.core.server.JournalType;
import org.hornetq.jms.persistence.JMSStorageManager;
import org.hornetq.jms.persistence.config.PersistedConnectionFactory;
import org.hornetq.jms.persistence.config.PersistedDestination;
import org.hornetq.jms.persistence.config.PersistedJNDI;
import org.hornetq.jms.persistence.config.PersistedType;
import org.hornetq.utils.IDGenerator;

/**
 * A JournalJMSStorageManagerImpl
 *
 * @author <a href="mailto:clebert.suonic@jboss.org">Clebert Suonic</a>
 */
public final class JMSJournalStorageManagerImpl implements JMSStorageManager
{

    // Constants -----

    public static final byte CF_RECORD = 1;

    public static final byte DESTINATION_RECORD = 2;

    public static final byte JNDI_RECORD = 3;

    // Attributes -----

    private final IDGenerator idGenerator;

    private final String journalDir;

    private final boolean createDir;

    private final Journal jmsJournal;

    private volatile boolean started;

    private final Map<String, PersistedConnectionFactory> mapFactories = new ConcurrentHashMap<String,
PersistedConnectionFactory>();

    private final Map<Pair<PersistedType, String>, PersistedDestination> destinations = new
ConcurrentHashMap<Pair<PersistedType, String>, PersistedDestination>();

```

```

private final Map<Pair<PersistedType, String>, PersistedJNDI> mapJNDI = new
ConcurrentHashMap<Pair<PersistedType, String>, PersistedJNDI>();

// Static -----

// Constructors -----
public JMSJournalStorageManagerImpl(final IDGenerator idGenerator,
final Configuration config,
final ReplicationManager replicator)
{
if (config.getJournalType() != JournalType.NIO && config.getJournalType() != JournalType.ASYNCIO)
{
throw new IllegalArgumentException("Only NIO and AsyncIO are supported journals");
}

// Will use the same place as the bindings directory from the core journal
journalDir = config.getBindingsDirectory();

if (journalDir == null)
{
throw new NullPointerException("bindings-dir is null");
}

createDir = config.isCreateBindingsDir();

SequentialFileFactory bindingsJMS = new NIOSequentialFileFactory(journalDir);

Journal localJMS = new JournalImpl(1024 * 1024,
2,
config.getJournalCompactMinFiles(),
config.getJournalCompactPercentage(),
bindingsJMS,
"hornetq-jms",
"jms",
1);

if (replicator != null)
{
jmsJournal = new ReplicatedJournal((byte) 2, localJMS, replicator);
}
else
{
jmsJournal = localJMS;
}

this.idGenerator = idGenerator;
}

```

```

// Public -----
@Override
public List<PersistedConnectionFactory> recoverConnectionFactories()
{
    List<PersistedConnectionFactory> cfs = new ArrayList<PersistedConnectionFactory>(mapFactories.values());
    return cfs;
}

@Override
public void storeConnectionFactory(final PersistedConnectionFactory connectionFactory) throws Exception
{
    deleteConnectionFactory(connectionFactory.getName());
    long id = idGenerator.generateID();
    connectionFactory.setId(id);
    jmsJournal.appendAddRecord(id, CF_RECORD, connectionFactory, true);
    mapFactories.put(connectionFactory.getName(), connectionFactory);
}

public void deleteConnectionFactory(final String cfName) throws Exception
{
    PersistedConnectionFactory oldCF = mapFactories.remove(cfName);
    if (oldCF != null)
    {
        jmsJournal.appendDeleteRecord(oldCF.getId(), false);
    }
}

@Override
public List<PersistedDestination> recoverDestinations()
{
    List<PersistedDestination> destinations = new ArrayList<PersistedDestination>(this.destinations.values());
    return destinations;
}

@Override
public void storeDestination(final PersistedDestination destination) throws Exception
{
    deleteDestination(destination.getType(), destination.getName());
    long id = idGenerator.generateID();
    destination.setId(id);
    jmsJournal.appendAddRecord(id, DESTINATION_RECORD, destination, true);
    destinations.put(new Pair<PersistedType, String>(destination.getType(), destination.getName()), destination);
}

public List<PersistedJNDI> recoverPersistedJNDI() throws Exception
{

```

```

    ArrayList<PersistedJNDI> list = new ArrayList<PersistedJNDI>(mapJNDI.values());
    return list;
}

public void addJNDI(PersistedType type, String name, String... address) throws Exception
{
    Pair<PersistedType, String> key = new Pair<PersistedType, String>(type, name);

    long tx = idGenerator.generateID();

    PersistedJNDI currentJNDI = mapJNDI.get(key);
    if (currentJNDI != null)
    {
        jmsJournal.appendDeleteRecordTransactional(tx, currentJNDI.getId());
    }
    else
    {
        currentJNDI = new PersistedJNDI(type, name);
    }

    mapJNDI.put(key, currentJNDI);

    for (String adItem : address)
    {
        currentJNDI.addJNDI(adItem);
    }

    long newId = idGenerator.generateID();

    currentJNDI.setId(newId);

    jmsJournal.appendAddRecordTransactional(tx, newId, JNDI_RECORD, currentJNDI);

    jmsJournal.appendCommitRecord(tx, true);
}

public void deleteJNDI(PersistedType type, String name, String address) throws Exception
{
    Pair<PersistedType, String> key = new Pair<PersistedType, String>(type, name);

    long tx = idGenerator.generateID();

    PersistedJNDI currentJNDI = mapJNDI.get(key);
    if (currentJNDI == null)
    {
        return;
    }
}

```

```

else
{
    jmsJournal.appendDeleteRecordTransactional(tx, currentJNDI.getId());
}

currentJNDI.deleteJNDI(address);

if (currentJNDI.getJndi().size() == 0)
{
    mapJNDI.remove(key);
}
else
{
    long newId = idGenerator.generateID();
    currentJNDI.setId(newId);
    jmsJournal.appendAddRecordTransactional(tx, newId, JNDI_RECORD, currentJNDI);
}

jmsJournal.appendCommitRecord(tx, true);
}

public void deleteJNDI(PersistedType type, String name) throws Exception
{
    Pair<PersistedType, String> key = new Pair<PersistedType, String>(type, name);

    PersistedJNDI currentJNDI = mapJNDI.remove(key);

    if (currentJNDI != null)
    {
        jmsJournal.appendDeleteRecord(currentJNDI.getId(), true);
    }
}

public void deleteDestination(final PersistedType type, final String name) throws Exception
{
    PersistedDestination destination = destinations.remove(new Pair<PersistedType, String>(type, name));
    if (destination != null)
    {
        jmsJournal.appendDeleteRecord(destination.getId(), false);
    }
}

@Override
public boolean isStarted()
{
    return started;
}

```

```

@Override
public void start() throws Exception
{

    checkAndCreateDir(journalDir, createDir);

    jmsJournal.start();

    started = true;
}

@Override
public void stop() throws Exception
{
    this.started = false;
    jmsJournal.stop();
}

public void load() throws Exception
{
    mapFactories.clear();

    List<RecordInfo> data = new ArrayList<RecordInfo>();

    ArrayList<PreparedTransactionInfo> list = new ArrayList<PreparedTransactionInfo>();

    jmsJournal.load(data, list, null);

    for (RecordInfo record : data)
    {
        long id = record.id;

        HornetQBuffer buffer = HornetQBuffers.wrappedBuffer(record.data);

        byte rec = record.getUserRecordType();

        if (rec == CF_RECORD)
        {
            PersistedConnectionFactory cf = new PersistedConnectionFactory();
            cf.decode(buffer);
            cf.setId(id);
            mapFactories.put(cf.getName(), cf);
        }
        else if (rec == DESTINATION_RECORD)
        {
            PersistedDestination destination = new PersistedDestination();

```

```

        destination.decode(buffer);
        destination.setId(id);
        destinations.put(new Pair<PersistedType, String>(destination.getType(), destination.getName()),
destination);
    }
    else if (rec == JNDI_RECORD)
    {
        PersistedJNDI jndi = new PersistedJNDI();
        jndi.decode(buffer);
        jndi.setId(id);
        Pair<PersistedType, String> key = new Pair<PersistedType, String>(jndi.getType(), jndi.getName());
        mapJNDI.put(key, jndi);
    }
    else
    {
        throw new IllegalStateException("Invalid record type " + rec);
    }

}

}

// Package protected -----

// Protected -----

// Private -----

private void checkAndCreateDir(final String dir, final boolean create)
{
    File f = new File(dir);

    if (!f.exists())
    {
        if (create)
        {
            if (!f.mkdirs())
            {
                throw new IllegalStateException("Failed to create directory " + dir);
            }
        }
        else
        {
            throw new IllegalArgumentException("Directory " + dir + " does not exist and will not create it");
        }
    }
}
}

```

```

// Inner classes -----
}
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 * implied.  See the License for the specific language governing
 * permissions and limitations under the License.
 */
package org.hornetq.jms.server.impl;

import javax.naming.Context;
import javax.naming.InitialContext;
import javax.naming.NamingException;
import javax.transaction.xa.Xid;

import java.net.InetAddress;
import java.net.UnknownHostException;
import java.util.ArrayList;
import java.util.Collections;
import java.util.Comparator;
import java.util.HashMap;
import java.util.HashSet;
import java.util.Iterator;
import java.util.List;
import java.util.Map;
import java.util.Map.Entry;
import java.util.Set;
import java.util.concurrent.atomic.AtomicBoolean;

import org.hornetq.api.core.DiscoveryGroupConfiguration;
import org.hornetq.api.core.HornetQException;
import org.hornetq.api.core.SimpleString;
import org.hornetq.api.core.TransportConfiguration;
import org.hornetq.api.core.management.AddressControl;
import org.hornetq.api.core.management.ResourceNames;
import org.hornetq.api.jms.HornetQJMSClient;
import org.hornetq.api.jms.JMSFactoryType;
import org.hornetq.core.config.Configuration;
import org.hornetq.core.deployers.DeploymentManager;

```

```

import org.hornetq.core.deployers.impl.FileDeploymentManager;
import org.hornetq.core.deployers.impl.XmlDeployer;
import org.hornetq.core.postoffice.Binding;
import org.hornetq.core.postoffice.BindingType;
import org.hornetq.core.registry.JndiBindingRegistry;
import org.hornetq.core.remoting.impl.netty.NettyConnectorFactory;
import org.hornetq.core.remoting.impl.netty.TransportConstants;
import org.hornetq.core.security.Role;
import org.hornetq.core.server.ActivateCallback;
import org.hornetq.core.server.HornetQServer;
import org.hornetq.core.server.Queue;
import org.hornetq.core.server.impl.HornetQServerImpl;
import org.hornetq.core.server.management.Notification;
import org.hornetq.core.settings.impl.AddressSettings;
import org.hornetq.core.transaction.ResourceManager;
import org.hornetq.core.transaction.Transaction;
import org.hornetq.core.transaction.TransactionDetail;
import org.hornetq.jms.client.HornetQConnectionFactory;
import org.hornetq.jms.client.HornetQDestination;
import org.hornetq.jms.client.HornetQQueue;
import org.hornetq.jms.client.HornetQTopic;
import org.hornetq.jms.client.SelectorTranslator;
import org.hornetq.jms.persistence.JMSStorageManager;
import org.hornetq.jms.persistence.config.PersistedConnectionFactory;
import org.hornetq.jms.persistence.config.PersistedDestination;
import org.hornetq.jms.persistence.config.PersistedJNDI;
import org.hornetq.jms.persistence.config.PersistedType;
import org.hornetq.jms.persistence.impl.journal.JMSJournalStorageManagerImpl;
import org.hornetq.jms.persistence.impl.nullpm.NullJMSStorageManagerImpl;
import org.hornetq.jms.server.HornetQJMSServerBundle;
import org.hornetq.jms.server.HornetQJMSServerLogger;
import org.hornetq.jms.server.JMSServerManager;
import org.hornetq.jms.server.config.ConnectionFactoryConfiguration;
import org.hornetq.jms.server.config.JMSConfiguration;
import org.hornetq.jms.server.config.JMSQueueConfiguration;
import org.hornetq.jms.server.config.TopicConfiguration;
import org.hornetq.jms.server.config.impl.ConnectionFactoryConfigurationImpl;
import org.hornetq.jms.server.management.JMSManagementService;
import org.hornetq.jms.server.management.JMSNotificationType;
import org.hornetq.jms.server.management.impl.JMSManagementServiceImpl;
import org.hornetq.jms.transaction.JMSTransactionDetail;
import org.hornetq.spi.core.naming.BindingRegistry;
import org.hornetq.utils.TimeAndCounterIDGenerator;
import org.hornetq.utils.TypedProperties;
import org.hornetq.utils.json.JSONArray;
import org.hornetq.utils.json.JSONObject;

```

```
/**
```

* A Deployer used to create and add to JNDI queues, topics and connection factories. Typically this would only be used in an app server env.

* <p>

* JMS Connection Factories and Destinations can be configured either using configuration files or using a JMSConfiguration object.

* <p>

* If configuration files are used, JMS resources are redeployed if the files content is changed.

* If a JMSConfiguration object is used, the JMS resources can not be redeployed.

*

* @author Andy Taylor

* @author Jeff Mesnil

* @author Tim Fox

*/

```
public class JMSServerManagerImpl implements JMSServerManager, ActivateCallback
{
    private static final String REJECT_FILTER = HornetQServerImpl.GENERIC_IGNORED_FILTER;

    private BindingRegistry registry;

    private final Map<String, HornetQQueue> queues = new HashMap<String, HornetQQueue>();

    private final Map<String, HornetQTopic> topics = new HashMap<String, HornetQTopic>();

    private final Map<String, HornetQConnectionFactory> connectionFactories = new HashMap<String,
HornetQConnectionFactory>();

    private final Map<String, List<String>> queueJNDI = new HashMap<String, List<String>>();

    private final Map<String, List<String>> topicJNDI = new HashMap<String, List<String>>();

    private final Map<String, List<String>> connectionFactoryJNDI = new HashMap<String, List<String>>();

    // We keep things cached if objects are created while the JMS is not active
    private final List<Runnable> cachedCommands = new ArrayList<Runnable>();

    private final HornetQServer server;

    private JMSManagementService jmsManagementService;

    private XmlDeployer jmsDeployer;

    private boolean startCalled;

    private boolean active;

    private DeploymentManager deploymentManager;
```

```

private final String configFileNames;

private boolean contextSet;

private JMSConfiguration config;

private Configuration coreConfig;

private JMSStorageManager storage;

private final Map<String, List<String>> unRecoveredJndi = new HashMap<String, List<String>>();

public JMSServerManagerImpl(final HornetQServer server) throws Exception
{
    this.server = server;

    this.coreConfig = server.getConfiguration();

    configFileNames = null;
}

/**
 * This constructor is used by the Application Server's integration
 *
 * @param server
 * @param registry
 * @throws Exception
 */
public JMSServerManagerImpl(final HornetQServer server, final BindingRegistry registry) throws Exception
{
    this.server = server;

    this.coreConfig = server.getConfiguration();

    configFileNames = null;

    this.registry = registry;
}

public JMSServerManagerImpl(final HornetQServer server, final String configFileNames) throws Exception
{
    this.server = server;

    this.coreConfig = server.getConfiguration();

    this.configFileNames = configFileNames;
}

```

```

public JMSServerManagerImpl(final HornetQServer server, final JMSConfiguration configuration) throws
Exception
{
    this.server = server;

    this.coreConfig = server.getConfiguration();

    configFileName = null;

    config = configuration;
}

/**
 * Unused
 */
@Deprecated
public JMSServerManagerImpl(HornetQServer server, String configFilename, JMSStorageManager
storageManager)
{
    this.server = server;

    configFileName = null;

    storage = storageManager;
}

// ActivateCallback implementation -----

public void preActivate()
{
}

public synchronized void activated()
{
    if (!startCalled)
    {
        return;
    }

    try
    {

        jmsManagementService = new JMSManagementServiceImpl(server.getManagementService(), server, this);

        jmsManagementService.registerJMSServer(this);
    }
}

```

```

// Must be set to active before calling initJournal
active = true;

initJournal();

// start the JMS deployer only if the configuration is not done using the JMSConfiguration object
if (config == null)
{
    if (server.getConfiguration().isFileDeploymentEnabled())
    {
        jmsDeployer = new JMSServerDeployer(this, deploymentManager);

        if (configFileName != null)
        {
            jmsDeployer.setConfigFileNames(new String[]{configFileName});
        }

        jmsDeployer.start();

        deploymentManager.start();
    }
}
else
{
    deploy();
}

for (Runnable run : cachedCommands)
{
    HornetQJMSServerLogger.LOGGER.serverRunningCachedCommand(run);
    run.run();
}

// do not clear the cachedCommands - HORNETQ-1047

recoverJndiBindings();
}
catch (Exception e)
{
    active = false;
    HornetQJMSServerLogger.LOGGER.jmsDeployerStartError(e);
}
}

@Override
public void deactivate()
{
    try

```

```

{
synchronized (this)
{
    if (!active)
    {
        return;
    }

    if (jmsDeployer != null)
    {
        jmsDeployer.stop();
    }

    if (deploymentManager != null)
    {
        deploymentManager.stop();
    }

    // Storage could be null on a shared store backup server before initialization
    if (storage != null && storage.isStarted())
    {
        storage.stop();
    }

    unbindJNDI(queueJNDI);

    unbindJNDI(topicJNDI);

    unbindJNDI(connectionFactoryJNDI);

    for (String connectionFactory : new HashSet<String>(connectionFactories.keySet()))
    {
        shutdownConnectionFactory(connectionFactory);
    }

    connectionFactories.clear();
    connectionFactoryJNDI.clear();

    queueJNDI.clear();
    queues.clear();

    topicJNDI.clear();
    topics.clear();

    // it could be null if a backup
    if (jmsManagementService != null)
    {
        jmsManagementService.unregisterJMSServer();
    }
}
}

```

```

        jmsManagementService.stop();
    }

    jmsDeployer = null;
    jmsManagementService = null;

    active = false;
}
}
catch (Exception e)
{
    e.printStackTrace();
}
}

public void recoverJndiBindings(String name, PersistedType type) throws NamingException
{
    List<String> bindings = unRecoveredJndi.get(name);
    if ((bindings != null) && (bindings.size() > 0))
    {
        Map<String, List<String>> mapJNDI;
        Map<String, ?> objects;

        switch (type)
        {
            case Queue:
                mapJNDI = queueJNDI;
                objects = queues;
                break;
            case Topic:
                mapJNDI = topicJNDI;
                objects = topics;
                break;
            default:
                case ConnectionFactory:
                    mapJNDI = connectionFactoryJNDI;
                    objects = connectionFactories;
                    break;
        }

        Object objectToBind = objects.get(name);

        List<String> jndiList = mapJNDI.get(name);

        if (objectToBind == null)
        {
            return;
        }
    }
}

```

```

    }

    if (jndiList == null)
    {
        jndiList = new ArrayList<String>();
        mapJNDI.put(name, jndiList);
    }

    for (String jndi : bindings)
    {
        jndiList.add(jndi);
        bindToJndi(jndi, objectToBind);
    }

    unRecoveredJndi.remove(name);
}
}

private void recoverJndiBindings() throws Exception
{
    //now its time to add journal recovered stuff
    List<PersistedJNDI> jndiSpace = storage.recoverPersistedJNDI();

    for (PersistedJNDI record : jndiSpace)
    {
        Map<String, List<String>> mapJNDI;
        Map<String, ?> objects;

        switch (record.getType())
        {
            case Queue:
                mapJNDI = queueJNDI;
                objects = queues;
                break;
            case Topic:
                mapJNDI = topicJNDI;
                objects = topics;
                break;
            default:
                case ConnectionFactory:
                    mapJNDI = connectionFactoryJNDI;
                    objects = connectionFactories;
                    break;
        }

        Object objectToBind = objects.get(record.getName());
        List<String> jndiList = mapJNDI.get(record.getName());
    }
}

```

```

    if (objectToBind == null)
    {
        unRecoveredJndi.put(record.getName(), record.getJndi());
        continue;
    }

    if (jndiList == null)
    {
        jndiList = new ArrayList<String>();
        mapJNDI.put(record.getName(), jndiList);
    }

    for (String jndi : record.getJndi())
    {
        jndiList.add(jndi);
        bindToJndi(jndi, objectToBind);
    }
}

// HornetQComponent implementation -----

/**
 * Notice that this component has a {@link #startCalled} boolean to control its internal
 * life-cycle, but its {@link #isStarted()} returns the value of {@code server.isStarted()} and
 * not the value of {@link #startCalled}.
 * <p>
 * This method and {@code server.start()} are interdependent in the following way:
 * <ol>
 * <li>{@link JMSServerManagerImpl#start()} is called, it sets {@code start_called=true}, and
 * calls {@link HornetQServerImpl#start()}
 * <li>{@link HornetQServerImpl#start()} will call {@link JMSServerManagerImpl#activated()}
 * <li>{@link JMSServerManagerImpl#activated()} checks the value of {@link #startCalled}, which
 * must already be true.
 * </ol>
 */
public synchronized void start() throws Exception
{
    if (startCalled)
    {
        return;
    }

    if (registry == null)
    {
        if (!contextSet)

```

```

    {
        registry = new JndiBindingRegistry(new InitialContext());
    }
}

deploymentManager = new FileDeploymentManager(server.getConfiguration().getFileDeployerScanPeriod());
server.registerActivateCallback(this);
/**
 * See this method's javadoc.
 * <p>
 * start_called MUST be set to true BEFORE calling server.start().
 * <p>
 * start_called is NOT used at { @link JMSServerManager#isStarted() }
 */
startCalled = true;
server.start();

}

public void stop() throws Exception
{
    synchronized (this)
    {
        if (!startCalled)
        {
            return;
        }
        startCalled = false;
        //deactivate in case we haven't been already
        deActivate();
        if (registry != null)
        {
            registry.close();
        }
    }
    // We have to perform the server.stop outside of the lock because of backup activation issues.
    // See https://bugzilla.redhat.com/show_bug.cgi?id=959616
    // And org.hornetq.byteman.tests.StartStopDeadlockTest which is validating for this case here
    server.stop();
}

public boolean isStarted()
{
    return server.isStarted();
}

// JMSServerManager implementation -----

```

```

public BindingRegistry getRegistry()
{
    return registry;
}

public void setRegistry(BindingRegistry registry)
{
    this.registry = registry;
}

public HornetQServer getHornetQServer()
{
    return server;
}

public void addAddressSettings(final String address, final AddressSettings addressSettings)
{
    server.getAddressSettingsRepository().addMatch(address, addressSettings);
}

public AddressSettings getAddressSettings(final String address)
{
    return server.getAddressSettingsRepository().getMatch(address);
}

public void addSecurity(final String addressMatch, final Set<Role> roles)
{
    server.getSecurityRepository().addMatch(addressMatch, roles);
}

public Set<Role> getSecurity(final String addressMatch)
{
    return server.getSecurityRepository().getMatch(addressMatch);
}

public synchronized void setContext(final Context context)
{
    if (registry == null || registry instanceof JndiBindingRegistry)
    {
        registry = new JndiBindingRegistry(context);
        registry.setContext(context);
    }

    contextSet = true;
}

public synchronized String getVersion()

```

```

{
    checkInitialised();

    return server.getVersion().getFullVersion();
}

public synchronized boolean createQueue(final boolean storeConfig,
                                         final String queueName,
                                         final String selectorString,
                                         final boolean durable,
                                         final String... jndi) throws Exception
{

    if (active && queues.get(queueName) != null)
    {
        return false;
    }

    runAfterActive(new WrappedRunnable()
    {
        @Override
        public String toString()
        {
            return "createQueue for " + queueName;
        }
    })

    @Override
    public void runException() throws Exception
    {
        checkJNDI(jndi);

        if (internalCreateQueue(queueName, selectorString, durable))
        {

            HornetQDestination destination = queues.get(queueName);
            if (destination == null)
            {
                // sanity check. internalCreateQueue should already have done this check
                throw new IllegalArgumentException("Queue does not exist");
            }

            ArrayList<String> bindings = new ArrayList<String>();

            for (String jndiItem : jndi)
            {
                if (bindToJndi(jndiItem, destination))
                {
                    bindings.add(jndiItem);
                }
            }
        }
    }
}

```

```

    }
}

String[] usedJNDI = bindings.toArray(new String[bindings.size()]);
addToBounds(queueJNDI, queueName, usedJNDI);

if (storeConfig && durable)
{
    storage.storeDestination(new PersistedDestination(PersistedType.Queue,
                                                    queueName,
                                                    selectorString,
                                                    durable));
    storage.addJNDI(PersistedType.Queue, queueName, usedJNDI);
}
}
});

sendNotification(JMSNotificationType.QUEUE_CREATED, queueName);
return true;
}

public synchronized boolean createTopic(final boolean storeConfig, final String topicName, final String... jndi)
throws Exception
{
    if (active && topics.get(topicName) != null)
    {
        return false;
    }

    runAfterActive(new WrappedRunnable()
    {
        @Override
        public String toString()
        {
            return "createTopic for " + topicName;
        }
    });

    @Override
    public void runException() throws Exception
    {
        checkJNDI(jndi);

        if (internalCreateTopic(topicName))
        {
            HornetQDestination destination = topics.get(topicName);

            if (destination == null)

```

```

    {
        // sanity check. internalCreateQueue should already have done this check
        throw new IllegalArgumentException("Queue does not exist");
    }

    ArrayList<String> bindings = new ArrayList<String>();

    for (String jndiItem : jndi)
    {
        if (bindToJndi(jndiItem, destination))
        {
            bindings.add(jndiItem);
        }
    }

    String[] usedJNDI = bindings.toArray(new String[bindings.size()]);
    addToBindings(topicJNDI, topicName, usedJNDI);

    if (storeConfig)
    {
        {
            storage.storeDestination(new PersistedDestination(PersistedType.Topic, topicName));
            storage.addJNDI(PersistedType.Topic, topicName, usedJNDI);
        }
    }
});

sendNotification(JMSNotificationType.TOPIC_CREATED, topicName);
return true;

}

public boolean addTopicToJndi(final String topicName, final String jndiBinding) throws Exception
{
    checkInitialised();

    checkJNDI(jndiBinding);

    HornetQTopic destination = topics.get(topicName);
    if (destination == null)
    {
        throw new IllegalArgumentException("Topic does not exist");
    }
    if (destination.getTopicName() == null)
    {
        throw new IllegalArgumentException(topicName + " is not a topic");
    }
    boolean added = bindToJndi(jndiBinding, destination);

```

```

    if (added)
    {
        addToBindings(topicJNDI, topicName, jndiBinding);
        storage.addJNDI(PersistedType.Topic, topicName, jndiBinding);
    }
    return added;
}

public String[] getJNDIOnQueue(String queue)
{
    return getJNDIList(queueJNDI, queue);
}

public String[] getJNDIOnTopic(String topic)
{
    return getJNDIList(topicJNDI, topic);
}

public String[] getJNDIOnConnectionFactory(String factoryName)
{
    return getJNDIList(connectionFactoryJNDI, factoryName);
}

public boolean addQueueToJndi(final String queueName, final String jndiBinding) throws Exception
{
    checkInitialised();

    checkJNDI(jndiBinding);

    HornetQQueue destination = queues.get(queueName);
    if (destination == null)
    {
        throw new IllegalArgumentException("Queue does not exist");
    }
    if (destination.getQueueName() == null)
    {
        throw new IllegalArgumentException(queueName + " is not a queue");
    }
    boolean added = bindToJndi(jndiBinding, destination);
    if (added)
    {
        addToBindings(queueJNDI, queueName, jndiBinding);
        storage.addJNDI(PersistedType.Queue, queueName, jndiBinding);
    }
    return added;
}

```

```

public boolean addConnectionFactoryToJNDI(final String name, final String jndiBinding) throws Exception
{
    checkInitialised();

    checkJNDI(jndiBinding);

    HornetQConnectionFactory factory = connectionFactories.get(name);
    if (factory == null)
    {
        throw new IllegalArgumentException("Factory does not exist");
    }
    if (registry.lookup(jndiBinding) != null)
    {
        throw HornetQJMSSEServerBundle.BUNDLE.cfJndiExists(name);
    }
    boolean added = bindToJndi(jndiBinding, factory);
    if (added)
    {
        addToBindings(connectionFactoryJNDI, name, jndiBinding);
        storage.addJNDI(PersistedType.ConnectionFactory, name, jndiBinding);
    }
    return added;
}

@Override
public boolean removeQueueFromJNDI(String name, String jndi) throws Exception
{
    checkInitialised();

    boolean removed = removeFromJNDI(queueJNDI, name, jndi);

    if (removed)
    {
        storage.deleteJNDI(PersistedType.Queue, name, jndi);
    }

    return removed;
}

@Override
public boolean removeQueueFromJNDI(final String name) throws Exception
{
    final AtomicBoolean valueReturn = new AtomicBoolean(false);

    // HORNETQ-911 - make this runAfterActive to prevent WARN messages on shutdown/undeployment when the
    backup was never activated
    runAfterActive(new WrappedRunnable()
    {

```

```

@Override
public String toString()
{
    return "removeQueueFromJNDI for " + name;
}

@Override
public void runException() throws Exception
{
    checkInitialised();

    if (removeFromJNDI(queues, queueJNDI, name))
    {
        storage.deleteDestination(PersistedType.Queue, name);
        valueReturn.set(true);
    }
}

return valueReturn.get();
}

@Override
public boolean removeTopicFromJNDI(String name, String jndi) throws Exception
{
    checkInitialised();

    if (removeFromJNDI(topicJNDI, name, jndi))
    {
        storage.deleteJNDI(PersistedType.Topic, name, jndi);
        return true;
    }
    else
    {
        return false;
    }
}

/* (non-Javadoc)
 * @see org.hornetq.jms.server.JMSServerManager#removeTopicFromJNDI(java.lang.String, java.lang.String)
 */
public boolean removeTopicFromJNDI(final String name) throws Exception
{
    final AtomicBoolean valueReturn = new AtomicBoolean(false);

    // HORNETQ-911 - make this runAfterActive to prevent WARN messages on shutdown/undeployment when the
    backup was never activated
    runAfterActive(new WrappedRunnable()

```

```

{
    @Override
    public String toString()
    {
        return "removeTopicFromJNDI for " + name;
    }

    @Override
    public void runException() throws Exception
    {
        checkInitialised();

        if (removeFromJNDI(topics, topicJNDI, name))
        {
            storage.deleteDestination(PersistedType.Topic, name);
            valueReturn.set(true);
        }
    }
});

return valueReturn.get();
}

@Override
public boolean removeConnectionFactoryFromJNDI(String name, String jndi) throws Exception
{
    checkInitialised();

    removeFromJNDI(connectionFactoryJNDI, name, jndi);

    storage.deleteJNDI(PersistedType.ConnectionFactory, name, jndi);

    return true;
}

@Override
public boolean removeConnectionFactoryFromJNDI(String name) throws Exception
{
    checkInitialised();

    removeFromJNDI(connectionFactories, connectionFactoryJNDI, name);

    storage.deleteConnectionFactory(name);

    return true;
}

public synchronized boolean destroyQueue(final String name) throws Exception

```

```

    {
        return destroyQueue(name, true);
    }

public synchronized boolean destroyQueue(final String name, final boolean removeConsumers) throws Exception
{
    checkInitialised();

    server.destroyQueue(HornetQDestination.createQueueAddressFromName(name), null, !removeConsumers,
removeConsumers);

    // if the queue has consumers and 'removeConsumers' is false then the queue won't actually be removed
    // therefore only remove the queue from JNDI, etc. if the queue is actually removed
    if (this.server.getPostOffice().getBinding(HornetQDestination.createQueueAddressFromName(name)) == null)
    {
        removeFromJNDI(queues, queueJNDI, name);

        queues.remove(name);
        queueJNDI.remove(name);

        jmsManagementService.unregisterQueue(name);

        storage.deleteDestination(PersistedType.Queue, name);

        sendNotification(JMSNotificationType.QUEUE_DESTROYED, name);
        return true;
    }
    else
    {
        return false;
    }
}

public synchronized boolean destroyTopic(final String name) throws Exception
{
    return destroyTopic(name, true);
}

public synchronized boolean destroyTopic(final String name, final boolean removeConsumers) throws Exception
{
    checkInitialised();
    AddressControl addressControl = (AddressControl) server.getManagementService()
        .getResource(ResourceNames.CORE_ADDRESS +
HornetQDestination.createTopicAddressFromName(name));
    if (addressControl != null)
    {
        for (String queueName : addressControl.getQueueNames())
        {

```

```

Binding binding = server.getPostOffice().getBinding(new SimpleString(queueName));
if (binding == null)
{
    HornetQJMSServerLogger.LOGGER.noQueueOnTopic(queueName, name);
    continue;
}

// We can't remove the remote binding. As this would be the bridge associated with the topic on this case
if (binding.getType() != BindingType.REMOTE_QUEUE)
{
    server.destroyQueue(SimpleString.toSimpleString(queueName), null, !removeConsumers,
removeConsumers);
}
}

if (addressControl.getQueueNames().length == 0)
{
    removeFromJNDI(topics, topicJNDI, name);

    topics.remove(name);
    topicJNDI.remove(name);

    jmsManagementService.unregisterTopic(name);

    storage.deleteDestination(PersistedType.Topic, name);

    sendNotification(JMSNotificationType.TOPIC_DESTROYED, name);
    return true;
}
else
{
    return false;
}
}
else
{
    return false;
}
}

public synchronized void createConnectionFactory(final String name,
                                                final boolean ha,
                                                final JMSFactoryType cfType,
                                                final List<String> connectorNames,
                                                String... jndiBindings) throws Exception
{
    checkInitialised();
    HornetQConnectionFactory cf = connectionFactories.get(name);

```

```

    if (cf == null)
    {
        ConnectionFactoryConfiguration configuration = new ConnectionFactoryConfigurationImpl(name, ha,
connectorNames);
        configuration.setFactoryType(cfType);
        createConnectionFactory(true, configuration, jndiBindings);
    }
}

```

```

public synchronized void createConnectionFactory(final String name,
        final boolean ha,
        JMSFactoryType cfType,
        final List<String> connectorNames,
        final String clientID,
        final long clientFailureCheckPeriod,
        final long connectionTTL,
        final long callTimeout,
        final long callFailoverTimeout,
        final boolean cacheLargeMessagesClient,
        final int minLargeMessageSize,
        final boolean compressLargeMessage,
        final int consumerWindowSize,
        final int consumerMaxRate,
        final int confirmationWindowSize,
        final int producerWindowSize,
        final int producerMaxRate,
        final boolean blockOnAcknowledge,
        final boolean blockOnDurableSend,
        final boolean blockOnNonDurableSend,
        final boolean autoGroup,
        final boolean preAcknowledge,
        final String loadBalancingPolicyClassName,
        final int transactionBatchSize,
        final int dupsOKBatchSize,
        final boolean useGlobalPools,
        final int scheduledThreadPoolMaxSize,
        final int threadPoolMaxSize,
        final long retryInterval,
        final double retryIntervalMultiplier,
        final long maxRetryInterval,
        final int reconnectAttempts,
        final boolean failoverOnInitialConnection,
        final String groupId,
        String... jndiBindings) throws Exception
{
    checkInitialised();
    HornetQConnectionFactory cf = connectionFactories.get(name);
    if (cf == null)

```

```

    {
        ConnectionFactoryConfiguration configuration = new ConnectionFactoryConfigurationImpl(name, ha,
connectorNames);
        configuration.setClientID(clientID);
        configuration.setClientFailureCheckPeriod(clientFailureCheckPeriod);
        configuration.setConnectionTTL(connectionTTL);
        configuration.setFactoryType(cfType);
        configuration.setCallTimeout(callTimeout);
        configuration.setCallFailoverTimeout(callFailoverTimeout);
        configuration.setCacheLargeMessagesClient(cacheLargeMessagesClient);
        configuration.setMinLargeMessageSize(minLargeMessageSize);
        configuration.setConsumerWindowSize(consumerWindowSize);
        configuration.setConsumerMaxRate(consumerMaxRate);
        configuration.setConfirmationWindowSize(confirmationWindowSize);
        configuration.setProducerWindowSize(producerWindowSize);
        configuration.setProducerMaxRate(producerMaxRate);
        configuration.setBlockOnAcknowledge(blockOnAcknowledge);
        configuration.setBlockOnDurableSend(blockOnDurableSend);
        configuration.setBlockOnNonDurableSend(blockOnNonDurableSend);
        configuration.setAutoGroup(autoGroup);
        configuration.setPreAcknowledge(preAcknowledge);
        configuration.setLoadBalancingPolicyClassName(loadBalancingPolicyClassName);
        configuration.setTransactionBatchSize(transactionBatchSize);
        configuration.setDupsOKBatchSize(dupsOKBatchSize);
        configuration.setUseGlobalPools(useGlobalPools);
        configuration.setScheduledThreadPoolMaxSize(scheduledThreadPoolMaxSize);
        configuration.setThreadPoolMaxSize(threadPoolMaxSize);
        configuration.setRetryInterval(retryInterval);
        configuration.setRetryIntervalMultiplier(retryIntervalMultiplier);
        configuration.setMaxRetryInterval(maxRetryInterval);
        configuration.setReconnectAttempts(reconnectAttempts);
        configuration.setFailoverOnInitialConnection(failoverOnInitialConnection);
        configuration.setGroupID(groupId);
        createConnectionFactory(true, configuration, jndiBindings);
    }
}

```

```

public synchronized void createConnectionFactory(final String name,
        final boolean ha,
        final JMSFactoryType cfType,
        final String discoveryGroupName,
        final String clientID,
        final long clientFailureCheckPeriod,
        final long connectionTTL,
        final long callTimeout,
        final long callFailoverTimeout,
        final boolean cacheLargeMessagesClient,
        final int minLargeMessageSize,

```

```

        final boolean compressLargeMessages,
        final int consumerWindowSize,
        final int consumerMaxRate,
        final int confirmationWindowSize,
        final int producerWindowSize,
        final int producerMaxRate,
        final boolean blockOnAcknowledge,
        final boolean blockOnDurableSend,
        final boolean blockOnNonDurableSend,
        final boolean autoGroup,
        final boolean preAcknowledge,
        final String loadBalancingPolicyClassName,
        final int transactionBatchSize,
        final int dupsOKBatchSize,
        final boolean useGlobalPools,
        final int scheduledThreadPoolMaxSize,
        final int threadPoolMaxSize,
        final long retryInterval,
        final double retryIntervalMultiplier,
        final long maxRetryInterval,
        final int reconnectAttempts,
        final boolean failoverOnInitialConnection,
        final String groupId,
        final String... jndiBindings) throws Exception
    {
        checkInitialised();
        HornetQConnectionFactory cf = connectionFactories.get(name);
        if (cf == null)
        {
            ConnectionFactoryConfiguration configuration = new ConnectionFactoryConfigurationImpl(name, ha,
jndiBindings);
            configuration.setDiscoveryGroupName(discoveryGroupName);
            configuration.setFactoryType(cfType);
            configuration.setClientID(clientID);
            configuration.setClientFailureCheckPeriod(clientFailureCheckPeriod);
            configuration.setConnectionTTL(connectionTTL);
            configuration.setCallTimeout(callTimeout);
            configuration.setCallFailoverTimeout(callFailoverTimeout);
            configuration.setCacheLargeMessagesClient(cacheLargeMessagesClient);
            configuration.setMinLargeMessageSize(minLargeMessageSize);
            configuration.setCompressLargeMessages(compressLargeMessages);
            configuration.setConsumerWindowSize(consumerWindowSize);
            configuration.setConsumerMaxRate(consumerMaxRate);
            configuration.setConfirmationWindowSize(confirmationWindowSize);
            configuration.setProducerWindowSize(producerWindowSize);
            configuration.setProducerMaxRate(producerMaxRate);
            configuration.setBlockOnAcknowledge(blockOnAcknowledge);
            configuration.setBlockOnDurableSend(blockOnDurableSend);

```

```

configuration.setBlockOnNonDurableSend(blockOnNonDurableSend);
configuration.setAutoGroup(autoGroup);
configuration.setPreAcknowledge(preAcknowledge);
configuration.setLoadBalancingPolicyClassName(loadBalancingPolicyClassName);
configuration.setTransactionBatchSize(transactionBatchSize);
configuration.setDupsOKBatchSize(dupsOKBatchSize);
configuration.setUseGlobalPools(useGlobalPools);
configuration.setScheduledThreadPoolMaxSize(scheduledThreadPoolMaxSize);
configuration.setThreadPoolMaxSize(threadPoolMaxSize);
configuration.setRetryInterval(retryInterval);
configuration.setRetryIntervalMultiplier(retryIntervalMultiplier);
configuration.setMaxRetryInterval(maxRetryInterval);
configuration.setReconnectAttempts(reconnectAttempts);
configuration.setFailoverOnInitialConnection(failoverOnInitialConnection);
createConnectionFactory(true, configuration, jndiBindings);
}
}

```

```

public synchronized void createConnectionFactory(final String name,
                                               final boolean ha,
                                               final JMSFactoryType cfType,
                                               final String discoveryGroupName,
                                               final String... jndiBindings) throws Exception

```

```

{
    checkInitialised();
    HornetQConnectionFactory cf = connectionFactories.get(name);
    if (cf == null)
    {
        ConnectionFactoryConfiguration configuration = new ConnectionFactoryConfigurationImpl(name, ha,
jndiBindings);
        configuration.setDiscoveryGroupName(discoveryGroupName);
        createConnectionFactory(true, configuration, jndiBindings);
    }
}

```

```

public synchronized HornetQConnectionFactory recreateCF(String name, ConnectionFactoryConfiguration cf)
throws Exception

```

```

{
    List<String> jndi = connectionFactoryJNDI.get(name);

    if (jndi == null)
    {
        throw HornetQJMSServerBundle.BUNDLE.cfDoesntExist(name);
    }

```

```

String[] usedJNDI = jndi.toArray(new String[jndi.size()]);

```

```

HornetQConnectionFactory realCF = internalCreateCFPOJO(cf);

```

```

if (cf.isPersisted())
{
    storage.storeConnectionFactory(new PersistedConnectionFactory(cf));
    storage.addJNDI(PersistedType.ConnectionFactory, cf.getName(), usedJNDI);
}

for (String jndiElement : usedJNDI)
{
    this.bindToJndi(jndiElement, realCF);
}

return realCF;
}

public synchronized void createConnectionFactory(final boolean storeConfig,
                                                final ConnectionFactoryConfiguration cfConfig,
                                                final String... jndi) throws Exception
{
    runAfterActive(new WrappedRunnable()
    {

        @Override
        public String toString()
        {
            return "createConnectionFactory for " + cfConfig.getName();
        }

        @Override
        public void runException() throws Exception
        {
            checkJNDI(jndi);

            HornetQConnectionFactory cf = internalCreateCF(storeConfig, cfConfig);

            ArrayList<String> bindings = new ArrayList<String>();

            for (String jndiItem : jndi)
            {
                if (bindToJndi(jndiItem, cf))
                {
                    bindings.add(jndiItem);
                }
            }

            String[] usedJNDI = bindings.toArray(new String[bindings.size()]);
            addToBindings(connectionFactoryJNDI, cfConfig.getName(), usedJNDI);
        }
    });
}

```

```

    if (storeConfig)
    {
        storage.storeConnectionFactory(new PersistedConnectionFactory(cfConfig));
        storage.addJNDI(PersistedType.ConnectionFactory, cfConfig.getName(), usedJNDI);
    }

    JMSResourceManagerImpl.this.recoverJndiBindings(cfConfig.getName(), PersistedType.ConnectionFactory);
    sendNotification(JMSNotificationType.CONNECTION_FACTORY_CREATED, cfConfig.getName());
}
});
}

private void sendNotification(JMSNotificationType type, String message)
{
    TypedProperties prop = new TypedProperties();
    prop.putSimpleStringProperty(JMSNotificationType.MESSAGE, SimpleString.toSimpleString(message));
    Notification notif = new Notification(null, type, prop);
    try
    {
        {
            server.getManagementService().sendNotification(notif);
        }
    }
    catch (Exception e)
    {
        {
            HornetQJMSLogger.LOGGER.warn("Failed to send notification : " + notif);
        }
    }
}

public JMSStorageManager getJMSStorageManager()
{
    return storage;
}

// used on tests only
public void replaceStorageManager(JMSStorageManager newStorage)
{
    this.storage = newStorage;
}

private String[] getJNDIList(final Map<String, List<String>> map, final String name)
{
    List<String> result = map.get(name);
    if (result == null)
    {
        return new String[0];
    }
    else
    {
        String[] strings = new String[result.size()];
    }
}

```

```

        result.toArray(strings);
        return strings;
    }
}

private boolean internalCreateQueue(final String queueName, final String selectorString, final boolean durable)
throws Exception
{
    if (queues.get(queueName) != null)
    {
        return false;
    }
    else
    {
        HornetQQueue hqQueue = HornetQDestination.createQueue(queueName);

        // Convert from JMS selector to core filter
        String coreFilterString = null;

        if (selectorString != null)
        {
            coreFilterString = SelectorTranslator.convertToHornetQFilterString(selectorString);
        }

        Queue queue = server.deployQueue(SimpleString.toSimpleString(hqQueue.getAddress()),
            SimpleString.toSimpleString(hqQueue.getAddress()),
            SimpleString.toSimpleString(coreFilterString),
            durable,
            false);

        queues.put(queueName, hqQueue);

        this.recoverJndiBindings(queueName, PersistedType.Queue);

        jmsManagementService.registerQueue(hqQueue, queue);

        return true;
    }
}

/**
 * Performs the internal creation without activating any storage.
 * The storage load will call this method
 *
 * @param topicName
 * @return
 * @throws Exception
 */

```

```

private boolean internalCreateTopic(final String topicName) throws Exception
{

    if (topics.get(topicName) != null)
    {
        return false;
    }
    else
    {
        HornetQTopic hqTopic = HornetQDestination.createTopic(topicName);
        // We create a dummy subscription on the topic, that never receives messages - this is so we can perform JMS
        // checks when routing messages to a topic that
        // does not exist - otherwise we would not be able to distinguish from a non existent topic and one with no
        // subscriptions - core has no notion of a topic
        server.deployQueue(SimpleString.toSimpleString(hqTopic.getAddress()),
            SimpleString.toSimpleString(hqTopic.getAddress()),
            SimpleString.toSimpleString(JMSServerManagerImpl.REJECT_FILTER),
            true,
            false);

        topics.put(topicName, hqTopic);

        this.recoverJndiBindings(topicName, PersistedType.Topic);

        jmsManagementService.registerTopic(hqTopic);

        return true;
    }
}

/**
 * @param cfConfig
 * @throws Exception
 */
private HornetQConnectionFactory internalCreateCF(final boolean persisted,
    final ConnectionFactoryConfiguration cfConfig) throws Exception
{
    checkInitialised();

    HornetQConnectionFactory cf = connectionFactories.get(cfConfig.getName());

    if (cf == null)
    {
        cf = internalCreateCFPOJO(cfConfig);
    }

    connectionFactories.put(cfConfig.getName(), cf);
}

```

```

jmsManagementService.registerConnectionFactory(cfConfig.getName(), cfConfig, cf);

return cf;
}

/**
 * @param cfConfig
 * @return
 * @throws HornetQException
 */
protected HornetQConnectionFactory internalCreateCFPOJO(final ConnectionFactoryConfiguration cfConfig)
throws HornetQException
{
    HornetQConnectionFactory cf;
    if (cfConfig.getDiscoveryGroupName() != null)
    {
        DiscoveryGroupConfiguration groupConfig = server.getConfiguration()
            .getDiscoveryGroupConfigurations()
            .get(cfConfig.getDiscoveryGroupName());

        if (groupConfig == null)
        {
            throw
HornetQJMSServerBundle.BUNDLE.discoveryGroupDoesntExist(cfConfig.getDiscoveryGroupName());
        }

        if (cfConfig.isHA())
        {
            cf = HornetQJMSSClient.createConnectionFactoryWithHA(groupConfig, cfConfig.getFactoryType());
        }
        else
        {
            cf = HornetQJMSSClient.createConnectionFactoryWithoutHA(groupConfig, cfConfig.getFactoryType());
        }
    }
    else
    {
        if (cfConfig.getConnectorNames() == null || cfConfig.getConnectorNames().size() == 0)
        {
            throw HornetQJMSServerBundle.BUNDLE.noConnectorNameOnCF();
        }

        TransportConfiguration[] configs = new TransportConfiguration[cfConfig.getConnectorNames().size()];

        int count = 0;
        for (String name : cfConfig.getConnectorNames())
        {
            TransportConfiguration connector = server.getConfiguration().getConnectorConfigurations().get(name);

```

```

    if (connector == null)
    {
        throw HornetQJMSServerBundle.BUNDLE.noConnectorNameConfiguredOnCF(name);
    }
    correctInvalidNettyConnectorHost(connector);
    configs[count++] = connector;
}

if (cfConfig.isHA())
{
    cf = HornetQJMSSClient.createConnectionFactoryWithHA(cfConfig.getFactoryType(), configs);
}
else
{
    cf = HornetQJMSSClient.createConnectionFactoryWithoutHA(cfConfig.getFactoryType(), configs);
}
}

```

```

cf.setClientID(cfConfig.getClientID());
cf.setClientFailureCheckPeriod(cfConfig.getClientFailureCheckPeriod());
cf.setConnectionTTL(cfConfig.getConnectionTTL());
cf.setCallTimeout(cfConfig.getCallTimeout());
cf.setCallFailoverTimeout(cfConfig.getCallFailoverTimeout());
cf.setCacheLargeMessagesClient(cfConfig.isCacheLargeMessagesClient());
cf.setMinLargeMessageSize(cfConfig.getMinLargeMessageSize());
cf.setConsumerWindowSize(cfConfig.getConsumerWindowSize());
cf.setConsumerMaxRate(cfConfig.getConsumerMaxRate());
cf.setConfirmationWindowSize(cfConfig.getConfirmationWindowSize());
cf.setProducerWindowSize(cfConfig.getProducerWindowSize());
cf.setProducerMaxRate(cfConfig.getProducerMaxRate());
cf.setBlockOnAcknowledge(cfConfig.isBlockOnAcknowledge());
cf.setBlockOnDurableSend(cfConfig.isBlockOnDurableSend());
cf.setBlockOnNonDurableSend(cfConfig.isBlockOnNonDurableSend());
cf.setAutoGroup(cfConfig.isAutoGroup());
cf.setPreAcknowledge(cfConfig.isPreAcknowledge());
cf.setConnectionLoadBalancingPolicyClassName(cfConfig.getLoadBalancingPolicyClassName());
cf.setTransactionBatchSize(cfConfig.getTransactionBatchSize());
cf.setDupsOKBatchSize(cfConfig.getDupsOKBatchSize());
cf.setUseGlobalPools(cfConfig.isUseGlobalPools());
cf.setScheduledThreadPoolMaxSize(cfConfig.getScheduledThreadPoolMaxSize());
cf.setThreadPoolMaxSize(cfConfig.getThreadPoolMaxSize());
cf.setRetryInterval(cfConfig.getRetryInterval());
cf.setRetryIntervalMultiplier(cfConfig.getRetryIntervalMultiplier());
cf.setMaxRetryInterval(cfConfig.getMaxRetryInterval());
cf.setReconnectAttempts(cfConfig.getReconnectAttempts());
cf.setFailoverOnInitialConnection(cfConfig.isFailoverOnInitialConnection());
cf.setCompressLargeMessage(cfConfig.isCompressLargeMessages());
cf.setGroupID(cfConfig.getGroupID());

```

```

    return cf;
}

public synchronized boolean destroyConnectionFactory(final String name) throws Exception
{
    final AtomicBoolean valueReturn = new AtomicBoolean(false);

    // HORNETQ-911 - make this runAfterActive to prevent WARN messages on shutdown/undeployment when the
    backup was never activated
    runAfterActive(new WrappedRunnable()
    {

        @Override
        public String toString()
        {
            return "destroyConnectionFactory for " + name;
        }

        @Override
        public void runException() throws Exception
        {
            shutdownConnectionFactory(name);

            storage.deleteConnectionFactory(name);
            valueReturn.set(true);
        }
    });

    if (valueReturn.get())
    {
        sendNotification(JMSNotificationType.CONNECTION_FACTORY_DESTROYED, name);
    }

    return valueReturn.get();
}

/**
 * @param name
 * @throws Exception
 */
protected boolean shutdownConnectionFactory(final String name) throws Exception
{
    checkInitialised();
    List<String> jndiBindings = connectionFactoryJNDI.get(name);
    if (jndiBindings == null || jndiBindings.size() == 0)
    {
        return false;
    }
}

```

```

if (registry != null)
{
    for (String jndiBinding : jndiBindings)
    {
        registry.unbind(jndiBinding);
    }
}

connectionFactoryJNDI.remove(name);
connectionFactories.remove(name);

jmsManagementService.unregisterConnectionFactory(name);

return true;
}

public String[] listRemoteAddresses() throws Exception
{
    checkInitialised();
    return server.getHornetQServerControl().listRemoteAddresses();
}

public String[] listRemoteAddresses(final String ipAddress) throws Exception
{
    checkInitialised();
    return server.getHornetQServerControl().listRemoteAddresses(ipAddress);
}

public boolean closeConnectionsForAddress(final String ipAddress) throws Exception
{
    checkInitialised();
    return server.getHornetQServerControl().closeConnectionsForAddress(ipAddress);
}

public boolean closeConsumerConnectionsForAddress(final String address) throws Exception
{
    checkInitialised();
    return server.getHornetQServerControl().closeConsumerConnectionsForAddress(address);
}

public boolean closeConnectionsForUser(final String userName) throws Exception
{
    checkInitialised();
    return server.getHornetQServerControl().closeConnectionsForUser(userName);
}

public String[] listConnectionIDs() throws Exception

```

```

    {
        return server.getHornetQServerControl().listConnectionIDs();
    }

    public String[] listSessions(final String connectionID) throws Exception
    {
        checkInitialised();
        return server.getHornetQServerControl().listSessions(connectionID);
    }

    public String listPreparedTransactionDetailsAsJSON() throws Exception
    {
        ResourceManager resourceManager = server.getResourceManager();
        Map<Xid, Long> xids = resourceManager.getPreparedTransactionsWithCreationTime();
        if (xids == null || xids.size() == 0)
        {
            return "";
        }

        ArrayList<Entry<Xid, Long>> xidsSortedByCreationTime = new ArrayList<Map.Entry<Xid,
Long>>(xids.entrySet());
        Collections.sort(xidsSortedByCreationTime, new Comparator<Entry<Xid, Long>>()
        {
            public int compare(final Entry<Xid, Long> entry1, final Entry<Xid, Long> entry2)
            {
                // sort by creation time, oldest first
                return (int) (entry1.getValue() - entry2.getValue());
            }
        });

        JSONArray txDetailListJson = new JSONArray();
        for (Map.Entry<Xid, Long> entry : xidsSortedByCreationTime)
        {
            Xid xid = entry.getKey();
            Transaction tx = resourceManager.getTransaction(xid);
            if (tx == null)
            {
                continue;
            }
            TransactionDetail detail = new JMSTransactionDetail(xid, tx, entry.getValue());
            txDetailListJson.put(detail.toJSON());
        }
        return txDetailListJson.toString();
    }

    public String listPreparedTransactionDetailsAsHTML() throws Exception
    {
        ResourceManager resourceManager = server.getResourceManager();

```

```

Map<Xid, Long> xids = resourceManager.getPreparedTransactionsWithCreationTime();
if (xids == null || xids.size() == 0)
{
    return "<h3>*** Prepared Transaction Details ***</h3><p>No entry.</p>";
}

ArrayList<Entry<Xid, Long>> xidsSortedByCreationTime = new ArrayList<Map.Entry<Xid,
Long>>(xids.entrySet());
Collections.sort(xidsSortedByCreationTime, new Comparator<Entry<Xid, Long>>()
{
    public int compare(final Entry<Xid, Long> entry1, final Entry<Xid, Long> entry2)
    {
        // sort by creation time, oldest first
        return (int) (entry1.getValue() - entry2.getValue());
    }
});

StringBuilder html = new StringBuilder();
html.append("<h3>*** Prepared Transaction Details ***</h3>");

for (Map.Entry<Xid, Long> entry : xidsSortedByCreationTime)
{
    Xid xid = entry.getKey();
    Transaction tx = resourceManager.getTransaction(xid);
    if (tx == null)
    {
        continue;
    }
    TransactionDetail detail = new JMSTransactionDetail(xid, tx, entry.getValue());
    JSONObject txJson = detail.toJSON();

    html.append("<table border=\"1\">");
    html.append("<tr><th>creation_time</th>");
    html.append("<td>" + txJson.get(TransactionDetail.KEY_CREATION_TIME) + "</td>");
    html.append("<th>xid_as_base_64</th>");
    html.append("<td colspan=\"3\">" + txJson.get(TransactionDetail.KEY_XID_AS_BASE64) + "</td></tr>");
    html.append("<tr><th>xid_format_id</th>");
    html.append("<td>" + txJson.get(TransactionDetail.KEY_XID_FORMAT_ID) + "</td>");
    html.append("<th>xid_global_txid</th>");
    html.append("<td>" + txJson.get(TransactionDetail.KEY_XID_GLOBAL_TXID) + "</td>");
    html.append("<th>xid_branch_qual</th>");
    html.append("<td>" + txJson.get(TransactionDetail.KEY_XID_BRANCH_QUAL) + "</td></tr>");

    html.append("<tr><th colspan=\"6\">Message List</th></tr>");
    html.append("<tr><td colspan=\"6\">");
    html.append("<table border=\"1\" cellspacing=\"0\" cellpadding=\"0\">");

    JSONArray msgs = txJson.getJSONArray(TransactionDetail.KEY_TX_RELATED_MESSAGES);

```

```

for (int i = 0; i < msgs.length(); i++)
{
    JSONObject msgJson = msgs.getJSONObject(i);
    JSONObject props = msgJson.getJSONObject(TransactionDetail.KEY_MSG_PROPERTIES);
    StringBuilder propstr = new StringBuilder();
    @SuppressWarnings("unchecked")
    Iterator<String> propkeys = props.keys();
    while (propkeys.hasNext())
    {
        String key = propkeys.next();
        propstr.append(key);
        propstr.append("=");
        propstr.append(props.get(key));
        propstr.append(", ");
    }

    html.append("<th>operation_type</th>");
    html.append("<td>" + msgJson.get(TransactionDetail.KEY_MSG_OP_TYPE) + "</td>");
    html.append("<th>message_type</th>");
    html.append("<td>" + msgJson.get(TransactionDetail.KEY_MSG_TYPE) + "</td></tr>");
    html.append("<tr><th>properties</th>");
    html.append("<td colspan=\"3\">" + propstr.toString() + "</td></tr>");
}
html.append("</table></td></tr>");
html.append("</table><br/>");
}

return html.toString();
}

// Public -----

// Private -----

private synchronized void checkInitialised()
{
    if (!active)
    {
        throw new IllegalStateException("Cannot access JMS Server, core server is not yet active");
    }
}

private void addToBindings(Map<String, List<String>> map, String name, String... jndi)
{
    List<String> list = map.get(name);
    if (list == null)
    {
        list = new ArrayList<String>();
    }
}

```

```

        map.put(name, list);
    }
    for (String jndiItem : jndi)
    {
        list.add(jndiItem);
    }
}

private void checkJNDI(final String... jndiNames) throws NamingException
{

    for (String jndiName : jndiNames)
    {
        if (registry.lookup(jndiName) != null)
        {
            throw new NamingException(jndiName + " already has an object bound");
        }
    }
}

private boolean bindToJndi(final String jndiName, final Object objectToBind) throws NamingException
{
    if (registry != null)
    {
        registry.unbind(jndiName);
        registry.bind(jndiName, objectToBind);
    }
    return true;
}

private void deploy() throws Exception
{
    if (config == null)
    {
        return;
    }

    if (config.getContext() != null)
    {
        setContext(config.getContext());
    }

    List<ConnectionFactoryConfiguration> connectionFactoryConfigurations =
config.getConnectionFactoryConfigurations();
    for (ConnectionFactoryConfiguration cfConfig : connectionFactoryConfigurations)
    {
        createConnectionFactory(false, cfConfig, cfConfig.getBindings());
    }
}

```

```

List<JMSQueueConfiguration> queueConfigs = config.getQueueConfigurations();
for (JMSQueueConfiguration qConfig : queueConfigs)
{
    String[] bindings = qConfig.getBindings();
    createQueue(false, qConfig.getName(), qConfig.getSelector(), qConfig.isDurable(), bindings);
}

List<TopicConfiguration> topicConfigs = config.getTopicConfigurations();
for (TopicConfiguration tConfig : topicConfigs)
{
    String[] bindings = tConfig.getBindings();
    createTopic(false, tConfig.getName(), bindings);
}
}

/**
 * @param param
 */
private void unbindJNDI(Map<String, List<String>> param)
{
    if (registry != null)
    {
        for (List<String> elementList : param.values())
        {
            for (String key : elementList)
            {
                try
                {
                    registry.unbind(key);
                }
                catch (Exception e)
                {
                    HornetQJMSServerLogger.LOGGER.jndiUnbindError(e, key);
                }
            }
        }
    }
}

/**
 * @throws Exception
 */
private void initJournal() throws Exception
{
    this.coreConfig = server.getConfiguration();

    createJournal();
}

```

```

storage.load();

List<PersistedConnectionFactory> cfs = storage.recoverConnectionFactories();

for (PersistedConnectionFactory cf : cfs)
{
    internalCreateCF(true, cf.getConfig());
}

List<PersistedDestination> destinations = storage.recoverDestinations();

for (PersistedDestination destination : destinations)
{
    if (destination.getType() == PersistedType.Queue)
    {
        internalCreateQueue(destination.getName(), destination.getSelector(), destination.isDurable());
    }
    else if (destination.getType() == PersistedType.Topic)
    {
        internalCreateTopic(destination.getName());
    }
}

/**
 * @throws Exception
 */
private void createJournal() throws Exception
{
    if (storage == null)
    {
        if (coreConfig.isPersistenceEnabled())
        {
            storage = new JMSJournalStorageManagerImpl(new TimeAndCounterIDGenerator(),
                server.getConfiguration(),
                server.getReplicationManager());
        }
        else
        {
            storage = new NullJMSStorageManagerImpl();
        }
    }
    else
    {
        if (storage.isStarted())
        {
            storage.stop();
        }
    }
}

```

```

    }
}

storage.start();
}

private synchronized boolean removeFromJNDI(final Map<String, ?> keys,
                                           final Map<String, List<String>> jndiMap,
                                           final String name) throws Exception
{
    checkInitialised();
    List<String> jndiBindings = jndiMap.remove(name);
    if (jndiBindings == null || jndiBindings.size() == 0)
    {
        return false;
    }
    else
    {
        keys.remove(name);
    }
    if (registry != null)
    {
        Iterator<String> iter = jndiBindings.iterator();
        while (iter.hasNext())
        {
            String jndiBinding = iter.next();
            registry.unbind(jndiBinding);
            iter.remove();
        }
    }
    return true;
}

private synchronized boolean removeFromJNDI(final Map<String, List<String>> jndiMap,
                                           final String name,
                                           final String jndi) throws Exception
{
    checkInitialised();
    List<String> jndiBindings = jndiMap.get(name);
    if (jndiBindings == null || jndiBindings.size() == 0)
    {
        return false;
    }

    if (jndiBindings.remove(jndi))
    {
        registry.unbind(jndi);
        return true;
    }
}

```

```

    }
    else
    {
        return false;
    }
}

private boolean runAfterActive(WrappedRunnable runnable) throws Exception
{
    if (active)
    {
        runnable.runException();
        return true;
    }
    else
    {
        HornetQJMSServerLogger.LOGGER.serverCachingCommand(runnable);
        cachedCommands.add(runnable);
        return false;
    }
}

private abstract class WrappedRunnable implements Runnable
{
    public void run()
    {
        try
        {
            runException();
        }
        catch (Exception e)
        {
            HornetQJMSServerLogger.LOGGER.jmsServerError(e);
        }
    }
}

public abstract void runException() throws Exception;
}

private void correctInvalidNettyConnectorHost(TransportConfiguration transportConfiguration)
{
    Map<String, Object> params = transportConfiguration.getParams();

    if (transportConfiguration.getFactoryClassName().equals(NettyConnectorFactory.class.getCanonicalName())
    &&
        params.containsKey(TransportConstants.HOST_PROP_NAME) &&
        params.get(TransportConstants.HOST_PROP_NAME).equals("0.0.0.0"))
    {

```

```

try
{
    String newHost = InetAddress.getLocalHost().getHostName();
    HornetQJMSServerLogger.LOGGER.invalidHostForConnector(transportConfiguration.getName(),
newHost);
    params.put(TransportConstants.HOST_PROP_NAME, newHost);
}
catch (UnknownHostException e)
{
    HornetQJMSServerLogger.LOGGER.failedToCorrectHost(e, transportConfiguration.getName());
}
}
}
}

```

```

}

```

```

/*

```

```

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```

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```

```

*/

```

```

package org.hornetq.jms.server.impl;

```

```

import java.io.InputStream;

```

```

import java.io.InputStreamReader;

```

```

import java.io.Reader;

```

```

import java.util.ArrayList;

```

```

import java.util.List;

```

```

import org.hornetq.api.config.HornetQDefaultConfiguration;

```

```

import org.hornetq.api.core.HornetQException;

```

```

import org.hornetq.api.core.client.HornetQClient;

```

```

import org.hornetq.api.jms.JMSFactoryType;

```

```

import org.hornetq.core.config.impl.Validators;

```

```

import org.hornetq.jms.server.HornetQJMSServerBundle;

```

```

import org.hornetq.jms.server.HornetQJMSServerLogger;

```

```

import org.hornetq.jms.server.JMSConfigParser;

```

```

import org.hornetq.jms.server.config.ConnectionFactoryConfiguration;

```

```

import org.hornetq.jms.server.config.JMSConfiguration;

```

```

import org.hornetq.jms.server.config.JMSQueueConfiguration;

```

```

import org.hornetq.jms.server.config.TopicConfiguration;

```

```

import org.hornetq.jms.server.config.impl.ConnectionFactoryConfigurationImpl;

```

```

import org.hornetq.jms.server.config.impl.JMSConfigurationImpl;
import org.hornetq.jms.server.config.impl.JMSQueueConfigurationImpl;
import org.hornetq.jms.server.config.impl.TopicConfigurationImpl;
import org.hornetq.utils.XMLConfigurationUtil;
import org.hornetq.utils.XMLUtil;
import org.w3c.dom.Element;
import org.w3c.dom.NamedNodeMap;
import org.w3c.dom.Node;
import org.w3c.dom.NodeList;

/**
 * JMS Configuration File Parser.
 *
 * @author <a href="mailto:clebert.suconic@jboss.org">Clebert Suconic</a>
 */
public final class JMSServerConfigParserImpl implements JMSServerConfigParser
{
    protected static final String NAME_ATTR = "name";

    public JMSServerConfigParserImpl()
    {
    }

    /**
     * Parse the JMS Configuration XML as a JMSConfiguration object
     */
    public JMSConfiguration parseConfiguration(final InputStream stream) throws Exception
    {
        Reader reader = new InputStreamReader(stream);
        String xml = org.hornetq.utils.XMLUtil.readerToString(reader);
        xml = XMLUtil.replaceSystemProps(xml);
        return parseConfiguration(XMLUtil.stringToElement(xml));
    }

    /**
     * Parse the JMS Configuration XML as a JMSConfiguration object
     */
    public JMSConfiguration parseConfiguration(final Node rootnode) throws Exception
    {
        ArrayList<JMSQueueConfiguration> queues = new ArrayList<JMSQueueConfiguration>();
        ArrayList<TopicConfiguration> topics = new ArrayList<TopicConfiguration>();
        ArrayList<ConnectionFactoryConfiguration> cfs = new ArrayList<ConnectionFactoryConfiguration>();
        String domain = HornetQDefaultConfiguration.getDefaultJmxDomain();

        Element e = (Element) rootnode;

        org.hornetq.utils.XMLUtil.validate(rootnode, "schema/hornetq-jms.xsd");
    }
}

```

```

String[] elements = new String[]{JMSServerDeployer.QUEUE_NODE_NAME,
    JMSServerDeployer.TOPIC_NODE_NAME,
    JMSServerDeployer.CONNECTION_FACTORY_NODE_NAME};
for (String element : elements)
{
    NodeList children = e.getElementsByTagName(element);
    for (int i = 0; i < children.getLength(); i++)
    {
        Node node = children.item(i);
        Node keyNode = node.getAttributes().getNamedItem(JMSServerConfigParserImpl.NAME_ATTR);
        if (keyNode == null)
        {
            HornetQJMSServerLogger.LOGGER.jmsConfigMissingKey(node);
            continue;
        }

        if (node.getNodeName().equals(JMSServerDeployer.CONNECTION_FACTORY_NODE_NAME))
        {
            cfs.add(parseConnectionFactoryConfiguration(node));
        }
        else if (node.getNodeName().equals(JMSServerDeployer.TOPIC_NODE_NAME))
        {
            topics.add(parseTopicConfiguration(node));
        }
        else if (node.getNodeName().equals(JMSServerDeployer.QUEUE_NODE_NAME))
        {
            queues.add(parseQueueConfiguration(node));
        }
    }
}

domain = XMLConfigurationUtil.getString(e, JMSServerDeployer.JMX_DOMAIN_NAME,
HornetQDefaultConfiguration.getDefaultJmxDomain(), Validators.NO_CHECK);

JMSSConfiguration value = newConfig(queues, topics, cfs, domain);

return value;
}

/**
 * Parse the topic node as a TopicConfiguration object
 *
 * @param node
 * @return topic configuration
 * @throws Exception
 */

```

```

public TopicConfiguration parseTopicConfiguration(final Node node) throws Exception
{
    String topicName =
node.getAttributes().getNamedItem(JMSServerConfigParserImpl.NAME_ATTR).getNodeValue();
    NodeList children = node.getChildNodes();
    ArrayList<String> jndiNames = new ArrayList<String>();
    for (int i = 0; i < children.getLength(); i++)
    {
        Node child = children.item(i);

        if (JMSServerDeployer.ENTRY_NODE_NAME.equals(children.item(i).getNodeName()))
        {
            String jndiElement = child.getAttributes().getNamedItem("name").getNodeValue();
            jndiNames.add(jndiElement);
        }
    }

    String[] strBindings = jndiNames.toArray(new String[jndiNames.size()]);

    return newTopic(topicName, strBindings);
}

/**
 * Parse the Queue Configuration node as a QueueConfiguration object
 *
 * @param node
 * @return jms queue configuration
 * @throws Exception
 */
public JMSQueueConfiguration parseQueueConfiguration(final Node node) throws Exception
{
    Element e = (Element) node;
    NamedNodeMap atts = node.getAttributes();
    String queueName = atts.getNamedItem(JMSServerConfigParserImpl.NAME_ATTR).getNodeValue();
    String selectorString = null;
    boolean durable = XMLConfigurationUtil.getBoolean(e, "durable",
JMSServerDeployer.DEFAULT_QUEUE_DURABILITY);
    NodeList children = node.getChildNodes();
    ArrayList<String> jndiNames = new ArrayList<String>();
    for (int i = 0; i < children.getLength(); i++)
    {
        Node child = children.item(i);

        if (JMSServerDeployer.ENTRY_NODE_NAME.equals(children.item(i).getNodeName()))
        {
            String jndiName = child.getAttributes().getNamedItem("name").getNodeValue();
            jndiNames.add(jndiName);
        }
    }
}

```

```

    }
    else if (JMSServerDeployer.QUEUE_SELECTOR_NODE_NAME.equals(children.item(i).getNodeName()))
    {
        Node selectorNode = children.item(i);
        Node attNode = selectorNode.getAttributes().getNamedItem("string");
        selectorString = attNode.getNodeValue();
    }
}

String[] jndiArray = jndiNames.toArray(new String[jndiNames.size()]);
return new Queue(queueName, selectorString, durable, jndiArray);
}

/**
 * Parse the Connection Configuration node as a ConnectionFactoryConfiguration object
 *
 * @param node
 * @return ConnectionFactoryConfiguration
 * @throws Exception
 */
public ConnectionFactoryConfiguration parseConnectionFactoryConfiguration(final Node node) throws Exception
{
    if (!node.getNodeName().equals(JMSServerDeployer.CONNECTION_FACTORY_NODE_NAME))
    {
        // sanity check, this shouldn't ever happen
        throw HornetQJMSBundle.BUNDLE.invalidNodeParsingCF(node.getNodeName());
    }
    Element e = (Element) node;

    String name =
node.getAttributes().getNamedItem(JMSServerConfigParserImpl.NAME_ATTR).getNodeValue();

    String fact = e.getAttribute("signature");
    boolean isXA = XMLConfigurationUtil.getBoolean(e,
        "xa",
        HornetQClient.DEFAULT_XA);

    JMSFactoryType factType = resolveFactoryType(fact, isXA);

    long clientFailureCheckPeriod = XMLConfigurationUtil.getLong(e,
        "client-failure-check-period",
        HornetQClient.DEFAULT_CLIENT_FAILURE_CHECK_PERIOD,
        Validators.MINUS_ONE_OR_GT_ZERO);

    long connectionTTL = XMLConfigurationUtil.getLong(e,
        "connection-ttl",
        HornetQClient.DEFAULT_CONNECTION_TTL,
        Validators.MINUS_ONE_OR_GE_ZERO);

    long callTimeout = XMLConfigurationUtil.getLong(e,

```

```

        "call-timeout",
        HornetQClient.DEFAULT_CALL_TIMEOUT,
        Validators.GE_ZERO);
long callFailoverTimeout = XMLConfigurationUtil.getLong(e,
        "call-failover-timeout",
        HornetQClient.DEFAULT_CALL_FAILOVER_TIMEOUT,
        Validators.MINUS_ONE_OR_GT_ZERO);
String clientID = XMLConfigurationUtil.getString(e, "client-id", null, Validators.NO_CHECK);
int dupsOKBatchSize = XMLConfigurationUtil.getInteger(e,
        "dups-ok-batch-size",
        HornetQClient.DEFAULT_ACK_BATCH_SIZE,
        Validators.GT_ZERO);
int transactionBatchSize = XMLConfigurationUtil.getInteger(e,
        "transaction-batch-size",
        HornetQClient.DEFAULT_ACK_BATCH_SIZE,
        Validators.GT_ZERO);
int consumerWindowSize = XMLConfigurationUtil.getInteger(e,
        "consumer-window-size",
        HornetQClient.DEFAULT_CONSUMER_WINDOW_SIZE,
        Validators.MINUS_ONE_OR_GE_ZERO);
int producerWindowSize = XMLConfigurationUtil.getInteger(e,
        "producer-window-size",
        HornetQClient.DEFAULT_PRODUCER_WINDOW_SIZE,
        Validators.MINUS_ONE_OR_GT_ZERO);
int consumerMaxRate = XMLConfigurationUtil.getInteger(e,
        "consumer-max-rate",
        HornetQClient.DEFAULT_CONSUMER_MAX_RATE,
        Validators.MINUS_ONE_OR_GT_ZERO);
int confirmationWindowSize = XMLConfigurationUtil.getInteger(e,
        "confirmation-window-size",
        HornetQClient.DEFAULT_CONFIRMATION_WINDOW_SIZE,
        Validators.MINUS_ONE_OR_GT_ZERO);
int producerMaxRate = XMLConfigurationUtil.getInteger(e,
        "producer-max-rate",
        HornetQClient.DEFAULT_PRODUCER_MAX_RATE,
        Validators.MINUS_ONE_OR_GT_ZERO);
boolean cacheLargeMessagesClient = XMLConfigurationUtil.getBoolean(e,
        "cache-large-message-client",
        HornetQClient.DEFAULT_CACHE_LARGE_MESSAGE_CLIENT);
int minLargeMessageSize = XMLConfigurationUtil.getInteger(e,
        "min-large-message-size",
        HornetQClient.DEFAULT_MIN_LARGE_MESSAGE_SIZE,
        Validators.GT_ZERO);

boolean compressLargeMessages = XMLConfigurationUtil.getBoolean(e,
        "compress-large-messages",
        HornetQClient.DEFAULT_COMPRESS_LARGE_MESSAGES);

```

```

boolean blockOnAcknowledge = XMLConfigurationUtil.getBoolean(e,
    "block-on-acknowledge",
    HornetQClient.DEFAULT_BLOCK_ON_ACKNOWLEDGE);
boolean blockOnNonDurableSend = XMLConfigurationUtil.getBoolean(e,
    "block-on-non-durable-send",
    HornetQClient.DEFAULT_BLOCK_ON_NON_DURABLE_SEND);
boolean blockOnDurableSend = XMLConfigurationUtil.getBoolean(e,
    "block-on-durable-send",
    HornetQClient.DEFAULT_BLOCK_ON_DURABLE_SEND);
boolean autoGroup = XMLConfigurationUtil.getBoolean(e, "auto-group",
HornetQClient.DEFAULT_AUTO_GROUP);
boolean preAcknowledge = XMLConfigurationUtil.getBoolean(e,
    "pre-acknowledge",
    HornetQClient.DEFAULT_PRE_ACKNOWLEDGE);
long retryInterval = XMLConfigurationUtil.getLong(e,
    "retry-interval",
    HornetQClient.DEFAULT_RETRY_INTERVAL,
    Validators.GT_ZERO);
double retryIntervalMultiplier = XMLConfigurationUtil.getDouble(e,
    "retry-interval-multiplier",
    HornetQClient.DEFAULT_RETRY_INTERVAL_MULTIPLIER,
    Validators.GT_ZERO);
long maxRetryInterval = XMLConfigurationUtil.getLong(e,
    "max-retry-interval",
    HornetQClient.DEFAULT_MAX_RETRY_INTERVAL,
    Validators.GT_ZERO);
int reconnectAttempts = XMLConfigurationUtil.getInteger(e,
    "reconnect-attempts",
    HornetQClient.DEFAULT_RECONNECT_ATTEMPTS,
    Validators.MINUS_ONE_OR_GE_ZERO);
boolean failoverOnInitialConnection = XMLConfigurationUtil.getBoolean(e,
    "failover-on-initial-connection",
HornetQClient.DEFAULT_FAILOVER_ON_INITIAL_CONNECTION);
boolean useGlobalPools = XMLConfigurationUtil.getBoolean(e,
    "use-global-pools",
    HornetQClient.DEFAULT_USE_GLOBAL_POOLS);
int scheduledThreadPoolMaxSize = XMLConfigurationUtil.getInteger(e,
    "scheduled-thread-pool-max-size",
HornetQClient.DEFAULT_SCHEDULED_THREAD_POOL_MAX_SIZE,
    Validators.MINUS_ONE_OR_GT_ZERO);
int threadPoolMaxSize = XMLConfigurationUtil.getInteger(e,
    "thread-pool-max-size",
    HornetQClient.DEFAULT_THREAD_POOL_MAX_SIZE,
    Validators.MINUS_ONE_OR_GT_ZERO);
String connectionLoadBalancingPolicyClassName = XMLConfigurationUtil.getString(e,
    "connection-load-balancing-policy-class-name",
HornetQClient.DEFAULT_CONNECTION_LOAD_BALANCING_POLICY_CLASS_NAME,
    Validators.NOT_NULL_OR_EMPTY);

```

```

boolean ha = XMLConfigurationUtil.getBoolean(e, "ha", HornetQClient.DEFAULT_HA);

String groupid = XMLConfigurationUtil.getString(e, "group-id", null, Validators.NO_CHECK);
List<String> jndiBindings = new ArrayList<String>();
List<String> connectorNames = new ArrayList<String>();
String discoveryGroupName = null;

NodeList children = node.getChildNodes();

for (int j = 0; j < children.getLength(); j++)
{
    Node child = children.item(j);

    if (JMSServerDeployer.ENTRIES_NODE_NAME.equals(child.getNodeName()))
    {
        NodeList entries = child.getChildNodes();
        for (int i = 0; i < entries.getLength(); i++)
        {
            Node entry = entries.item(i);
            if (JMSServerDeployer.ENTRY_NODE_NAME.equals(entry.getNodeName()))
            {
                String jndiName = entry.getAttributes().getNamedItem("name").getNodeValue();

                jndiBindings.add(jndiName);
            }
        }
    }
    else if (JMSServerDeployer.CONNECTORS_NODE_NAME.equals(child.getNodeName()))
    {
        NodeList entries = child.getChildNodes();
        for (int i = 0; i < entries.getLength(); i++)
        {
            Node entry = entries.item(i);
            if (JMSServerDeployer.CONNECTOR_REF_ELEMENT.equals(entry.getNodeName()))
            {
                String connectorName = entry.getAttributes().getNamedItem("connector-name").getNodeValue();

                connectorNames.add(connectorName);
            }
        }
    }
    else if (JMSServerDeployer.DISCOVERY_GROUP_ELEMENT.equals(child.getNodeName()))
    {
        discoveryGroupName = child.getAttributes().getNamedItem("discovery-group-name").getNodeValue();
    }
}

```

```

ConnectionFactoryConfiguration cfConfig;

String[] strbindings = jndiBindings.toArray(new String[jndiBindings.size()]);

if (discoveryGroupName != null)
{
    cfConfig = new ConnectionFactoryConfigurationImpl(name,
                                                    ha,
                                                    strbindings);
    cfConfig.setDiscoveryGroupName(discoveryGroupName);
}
else
{
    ArrayList<String> connectors = new ArrayList<String>(connectorNames.size());
    for (String connectorName : connectorNames)
    {
        connectors.add(connectorName);
    }
    cfConfig = new ConnectionFactoryConfigurationImpl(name, ha, connectors, strbindings);
}

cfConfig.setFactoryType(factoryType);
cfConfig.setClientID(clientID);
cfConfig.setClientFailureCheckPeriod(clientFailureCheckPeriod);
cfConfig.setConnectionTTL(connectionTTL);
cfConfig.setCallTimeout(callTimeout);
cfConfig.setCallFailoverTimeout(callFailoverTimeout);
cfConfig.setCacheLargeMessagesClient(cacheLargeMessagesClient);
cfConfig.setMinLargeMessageSize(minLargeMessageSize);
cfConfig.setCompressLargeMessages(compressLargeMessages);
cfConfig.setConsumerWindowSize(consumerWindowSize);
cfConfig.setConsumerMaxRate(consumerMaxRate);
cfConfig.setConfirmationWindowSize(confirmationWindowSize);
cfConfig.setProducerWindowSize(producerWindowSize);
cfConfig.setProducerMaxRate(producerMaxRate);
cfConfig.setBlockOnAcknowledge(blockOnAcknowledge);
cfConfig.setBlockOnDurableSend(blockOnDurableSend);
cfConfig.setBlockOnNonDurableSend(blockOnNonDurableSend);
cfConfig.setAutoGroup(autoGroup);
cfConfig.setPreAcknowledge(preAcknowledge);
cfConfig.setLoadBalancingPolicyClassName(connectionLoadBalancingPolicyClassName);
cfConfig.setTransactionBatchSize(transactionBatchSize);
cfConfig.setDupsOKBatchSize(dupsOKBatchSize);
cfConfig.setUseGlobalPools(useGlobalPools);
cfConfig.setScheduledThreadPoolMaxSize(scheduledThreadPoolMaxSize);
cfConfig.setThreadPoolMaxSize(threadPoolMaxSize);
cfConfig.setRetryInterval(retryInterval);
cfConfig.setRetryIntervalMultiplier(retryIntervalMultiplier);

```

```

cfConfig.setMaxRetryInterval(maxRetryInterval);
cfConfig.setReconnectAttempts(reconnectAttempts);
cfConfig.setFailoverOnInitialConnection(failoverOnInitialConnection);
cfConfig.setGroupID(groupid);
return cfConfig;
}

private JMSFactoryType resolveFactoryType(String fact, boolean isXA) throws HornetQException
{
    if ("".equals(fact))
    {
        fact = "generic";
    }
    if (isXA)
    {
        if ("generic".equals(fact))
        {
            return JMSFactoryType.XA_CF;
        }
        if ("queue".equals(fact))
        {
            return JMSFactoryType.QUEUE_XA_CF;
        }
        if ("topic".equals(fact))
        {
            return JMSFactoryType.TOPIC_XA_CF;
        }
    }
    else
    {
        if ("generic".equals(fact))
        {
            return JMSFactoryType.CF;
        }
        if ("queue".equals(fact))
        {
            return JMSFactoryType.QUEUE_CF;
        }
        if ("topic".equals(fact))
        {
            return JMSFactoryType.TOPIC_CF;
        }
    }
    throw HornetQJMSServerBundle.BUNDLE.invalidSignatureParsingCF(fact);
}

/**
 * hook for integration layers

```

```

*
* @param topicName
* @param strBindings
* @return
*/
protected TopicConfiguration newTopic(final String topicName, final String[] strBindings)
{
    return new TopicConfigurationImpl(topicName, strBindings);
}

/**
* hook for integration layers
*
* @param queueName
* @param selectorString
* @param durable
* @param jndiArray
* @return
*/
protected JMSQueueConfiguration newQueue(final String queueName,
                                          final String selectorString,
                                          final boolean durable,
                                          final String[] jndiArray)
{
    return new JMSQueueConfigurationImpl(queueName, selectorString, durable, jndiArray);
}

/**
* hook for integration layers
*
* @param queues
* @param topics
* @param cfs
* @param domain
* @return
*/
protected JMSConfiguration newConfig(final ArrayList<JMSQueueConfiguration> queues,
                                     final ArrayList<TopicConfiguration> topics,
                                     final ArrayList<ConnectionFactoryConfiguration> cfs, String domain)
{
    JMSConfiguration value = new JMSConfigurationImpl(cfs, queues, topics, domain);
    return value;
}
}
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```

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- */

```
package org.hornetq.jms.server.config.impl;
```

```
import org.hornetq.jms.server.config.TopicConfiguration;
```

```
/**
```

```
 * A TopicConfigurationImpl
```

```
 *
```

```
 * @author <a href="mailto:jmesnil@redhat.com">Jeff Mesnil</a>
```

```
 *
```

```
 *
```

```
 */
```

```
public class TopicConfigurationImpl implements TopicConfiguration
{
```

```
    // Constants -----
```

```
    // Attributes -----
```

```
    private final String name;
```

```
    private final String[] bindings;
```

```
    // Static -----
```

```
    // Constructors -----
```

```
    public TopicConfigurationImpl(final String name, final String... bindings)
```

```
    {
```

```
        this.name = name;
```

```
        this.bindings = new String[bindings.length];
```

```
        System.arraycopy(bindings, 0, this.bindings, 0, bindings.length);
```

```
    }
```

```
    // TopicConfiguration implementation -----
```

```
    public String[] getBindings()
```

```
    {
```

```
        return bindings;
```

```
    }
```

```

public String getName()
{
    return name;
}

// Public -----

// Package protected -----

// Protected -----

// Private -----

// Inner classes -----

}
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 */
package org.hornetq.jms.server.config.impl;

import org.hornetq.jms.server.config.JMSQueueConfiguration;

/**
 * A QueueConfigurationImpl
 *
 * @author <a href="mailto:jmesnil@redhat.com">Jeff Mesnil</a>
 *
 */
public class JMSQueueConfigurationImpl implements JMSQueueConfiguration
{

    // Constants -----

    // Attributes -----

```

```

private final String name;

private final String selector;

private final boolean durable;

private final String[] bindings;

// Static -----

// Constructors -----

public JMSQueueConfigurationImpl(final String name,
                                final String selector,
                                final boolean durable,
                                final String... bindings)
{
    this.name = name;
    this.selector = selector;
    this.durable = durable;
    this.bindings = new String[bindings.length];
    System.arraycopy(bindings, 0, this.bindings, 0, bindings.length);
}

// QueueConfiguration implementation -----

public String[] getBindings()
{
    return bindings;
}

public String getName()
{
    return name;
}

public String getSelector()
{
    return selector;
}

public boolean isDurable()
{
    return durable;
}

// Public -----

```

```

// Package protected -----

// Protected -----

// Private -----

// Inner classes -----

}
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 */
package org.hornetq.jms.server.config.impl;

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

import javax.naming.Context;

import org.hornetq.api.config.HornetQDefaultConfiguration;
import org.hornetq.jms.server.config.ConnectionFactoryConfiguration;
import org.hornetq.jms.server.config.JMSConfiguration;
import org.hornetq.jms.server.config.JMSQueueConfiguration;
import org.hornetq.jms.server.config.TopicConfiguration;

/**
 * A JMSConfigurationImpl
 * @author <a href="mailto:jmesnil@redhat.com">Jeff Mesnil</a>
 */
public class JMSConfigurationImpl implements JMSConfiguration
{

    private final List<ConnectionFactoryConfiguration> connectionFactoryConfigurations = new
ArrayList<ConnectionFactoryConfiguration>();

    private final List<JMSQueueConfiguration> queueConfigurations = new ArrayList<JMSQueueConfiguration>();

    private final List<TopicConfiguration> topicConfigurations = new ArrayList<TopicConfiguration>();

```

```

private final String domain;

private Context context = null;

public JMSConfigurationImpl()
{
    domain = HornetQDefaultConfiguration.getDefaultJmxDomain();
}

public JMSConfigurationImpl(final List<ConnectionFactoryConfiguration> connectionFactoryConfigurations,
                             final List<JMSQueueConfiguration> queueConfigurations,
                             final List<TopicConfiguration> topicConfigurations,
                             final String domain)
{
    this.connectionFactoryConfigurations.addAll(connectionFactoryConfigurations);
    this.queueConfigurations.addAll(queueConfigurations);
    this.topicConfigurations.addAll(topicConfigurations);
    this.domain = domain != null ? domain : HornetQDefaultConfiguration.getDefaultJmxDomain();
}

// JMSConfiguration implementation -----

public List<ConnectionFactoryConfiguration> getConnectionFactoryConfigurations()
{
    return connectionFactoryConfigurations;
}

public List<JMSQueueConfiguration> getQueueConfigurations()
{
    return queueConfigurations;
}

public List<TopicConfiguration> getTopicConfigurations()
{
    return topicConfigurations;
}

public Context getContext()
{
    return context;
}

public void setContext(final Context context)
{
    this.context = context;
}

```

```

public String getDomain()
{
    return domain;
}
}
/*
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 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
 * implied.  See the License for the specific language governing
 * permissions and limitations under the License.
 */
package org.hornetq.jms.server.config.impl;

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

import org.hornetq.api.core.HornetQBuffer;
import org.hornetq.api.core.SimpleString;
import org.hornetq.api.core.client.HornetQClient;
import org.hornetq.api.jms.JMSFactoryType;
import org.hornetq.jms.server.config.ConnectionFactoryConfiguration;
import org.hornetq.utils.BufferHelper;
import org.hornetq.utils.DataConstants;

/**
 * This class contains the configuration properties of a connection factory.
 * <p>
 * It is also persisted on the journal at the time of management is used to created a connection factory and set to store.
 * <p>
 * Every property on this class has to be also set through encoders through EncodingSupport implementation at this
 * class.
 *
 * @author <a href="mailto:jmesnil@redhat.com">Jeff Mesnil</a>
 */
public class ConnectionFactoryConfigurationImpl implements ConnectionFactoryConfiguration
{
    // Constants -----

    // Attributes -----

    private String name;

```

```
private boolean persisted;

private String[] bindings;

private List<String> connectorNames;

private String discoveryGroupName;

private String clientID = null;

private boolean ha = HornetQClient.DEFAULT_HA;

private long clientFailureCheckPeriod = HornetQClient.DEFAULT_CLIENT_FAILURE_CHECK_PERIOD;

private long connectionTTL = HornetQClient.DEFAULT_CONNECTION_TTL;

private long callTimeout = HornetQClient.DEFAULT_CALL_TIMEOUT;

private long callFailoverTimeout = HornetQClient.DEFAULT_CALL_FAILOVER_TIMEOUT;

private boolean cacheLargeMessagesClient =
HornetQClient.DEFAULT_CACHE_LARGE_MESSAGE_CLIENT;

private int minLargeMessageSize = HornetQClient.DEFAULT_MIN_LARGE_MESSAGE_SIZE;

private boolean compressLargeMessage = HornetQClient.DEFAULT_COMPRESS_LARGE_MESSAGES;

private int consumerWindowSize = HornetQClient.DEFAULT_CONSUMER_WINDOW_SIZE;

private int consumerMaxRate = HornetQClient.DEFAULT_CONSUMER_MAX_RATE;

private int confirmationWindowSize = HornetQClient.DEFAULT_CONFIRMATION_WINDOW_SIZE;

private int producerWindowSize = HornetQClient.DEFAULT_PRODUCER_WINDOW_SIZE;

private int producerMaxRate = HornetQClient.DEFAULT_PRODUCER_MAX_RATE;

private boolean blockOnAcknowledge = HornetQClient.DEFAULT_BLOCK_ON_ACKNOWLEDGE;

private boolean blockOnDurableSend = HornetQClient.DEFAULT_BLOCK_ON_DURABLE_SEND;

private boolean blockOnNonDurableSend = HornetQClient.DEFAULT_BLOCK_ON_NON_DURABLE_SEND;

private boolean autoGroup = HornetQClient.DEFAULT_AUTO_GROUP;

private boolean preAcknowledge = HornetQClient.DEFAULT_PRE_ACKNOWLEDGE;

private String loadBalancingPolicyClassName =
```

```

HornetQClient.DEFAULT_CONNECTION_LOAD_BALANCING_POLICY_CLASS_NAME;

private int transactionBatchSize = HornetQClient.DEFAULT_ACK_BATCH_SIZE;

private int dupsOKBatchSize = HornetQClient.DEFAULT_ACK_BATCH_SIZE;

private long initialWaitTimeout = HornetQClient.DEFAULT_DISCOVERY_INITIAL_WAIT_TIMEOUT;

private boolean useGlobalPools = HornetQClient.DEFAULT_USE_GLOBAL_POOLS;

private int scheduledThreadPoolMaxSize =
HornetQClient.DEFAULT_SCHEDULED_THREAD_POOL_MAX_SIZE;

private int threadPoolMaxSize = HornetQClient.DEFAULT_THREAD_POOL_MAX_SIZE;

private long retryInterval = HornetQClient.DEFAULT_RETRY_INTERVAL;

private double retryIntervalMultiplier = HornetQClient.DEFAULT_RETRY_INTERVAL_MULTIPLIER;

private long maxRetryInterval = HornetQClient.DEFAULT_MAX_RETRY_INTERVAL;

private int reconnectAttempts = HornetQClient.DEFAULT_RECONNECT_ATTEMPTS;

private boolean failoverOnInitialConnection =
HornetQClient.DEFAULT_FAILOVER_ON_INITIAL_CONNECTION;

private String groupID = null;

private JMSFactoryType factoryType = JMSFactoryType.CF;

// Static -----

// Constructors -----

/**
 * To be used on persistence only
 */
public ConnectionFactoryConfigurationImpl()
{
}

public ConnectionFactoryConfigurationImpl(final String name,
                                           final boolean ha,
                                           final List<String> connectorNames,
                                           final String... bindings)
{
    this(name, ha, bindings);
    this.connectorNames = connectorNames;
}

```

```

}

public ConnectionFactoryConfigurationImpl(final String name, final boolean ha, final String... bindings)
{
    this.name = name;
    this.ha = ha;
    this.bindings = new String[bindings.length];
    System.arraycopy(bindings, 0, this.bindings, 0, bindings.length);
}

// ConnectionFactoryConfiguration implementation -----

public String[] getBindings()
{
    return bindings;
}

public void setBindings(final String[] bindings)
{
    this.bindings = bindings;
}

public String getName()
{
    return name;
}

public boolean isPersisted()
{
    return persisted;
}

/**
 * @return the discoveryGroupName
 */
public String getDiscoveryGroupName()
{
    return discoveryGroupName;
}

/**
 * @param discoveryGroupName the discoveryGroupName to set
 */
public void setDiscoveryGroupName(String discoveryGroupName)
{
    this.discoveryGroupName = discoveryGroupName;
}

```

```

public List<String> getConnectorNames()
{
    return connectorNames;
}

public void setConnectorNames(final List<String> connectorNames)
{
    this.connectorNames = connectorNames;
}

public boolean isHA()
{
    return ha;
}

public void setHA(final boolean ha)
{
    this.ha = ha;
}

public String getClientID()
{
    return clientID;
}

public void setClientID(final String clientID)
{
    this.clientID = clientID;
}

public long getClientFailureCheckPeriod()
{
    return clientFailureCheckPeriod;
}

public void setClientFailureCheckPeriod(final long clientFailureCheckPeriod)
{
    this.clientFailureCheckPeriod = clientFailureCheckPeriod;
}

public long getConnectionTTL()
{
    return connectionTTL;
}

public void setConnectionTTL(final long connectionTTL)
{
    this.connectionTTL = connectionTTL;
}

```

```

}

public long getCallTimeout()
{
    return callTimeout;
}

public void setCallTimeout(final long callTimeout)
{
    this.callTimeout = callTimeout;
}

public long getCallFailoverTimeout()
{
    return callFailoverTimeout;
}

public void setCallFailoverTimeout(long callFailoverTimeout)
{
    this.callFailoverTimeout = callFailoverTimeout;
}

public boolean isCacheLargeMessagesClient()
{
    return cacheLargeMessagesClient;
}

public void setCacheLargeMessagesClient(final boolean cacheLargeMessagesClient)
{
    this.cacheLargeMessagesClient = cacheLargeMessagesClient;
}

public int getMinLargeMessageSize()
{
    return minLargeMessageSize;
}

public void setMinLargeMessageSize(final int minLargeMessageSize)
{
    this.minLargeMessageSize = minLargeMessageSize;
}

public int getConsumerWindowSize()
{
    return consumerWindowSize;
}

public void setConsumerWindowSize(final int consumerWindowSize)

```

```

{
    this.consumerWindowSize = consumerWindowSize;
}

public int getConsumerMaxRate()
{
    return consumerMaxRate;
}

public void setConsumerMaxRate(final int consumerMaxRate)
{
    this.consumerMaxRate = consumerMaxRate;
}

public int getConfirmationWindowSize()
{
    return confirmationWindowSize;
}

public void setConfirmationWindowSize(final int confirmationWindowSize)
{
    this.confirmationWindowSize = confirmationWindowSize;
}

public int getProducerMaxRate()
{
    return producerMaxRate;
}

public void setProducerMaxRate(final int producerMaxRate)
{
    this.producerMaxRate = producerMaxRate;
}

public int getProducerWindowSize()
{
    return producerWindowSize;
}

public void setProducerWindowSize(final int producerWindowSize)
{
    this.producerWindowSize = producerWindowSize;
}

public boolean isBlockOnAcknowledge()
{
    return blockOnAcknowledge;
}

```

```

public void setBlockOnAcknowledge(final boolean blockOnAcknowledge)
{
    this.blockOnAcknowledge = blockOnAcknowledge;
}

public boolean isBlockOnDurableSend()
{
    return blockOnDurableSend;
}

public void setBlockOnDurableSend(final boolean blockOnDurableSend)
{
    this.blockOnDurableSend = blockOnDurableSend;
}

public boolean isBlockOnNonDurableSend()
{
    return blockOnNonDurableSend;
}

public void setBlockOnNonDurableSend(final boolean blockOnNonDurableSend)
{
    this.blockOnNonDurableSend = blockOnNonDurableSend;
}

public boolean isAutoGroup()
{
    return autoGroup;
}

public void setAutoGroup(final boolean autoGroup)
{
    this.autoGroup = autoGroup;
}

public boolean isPreAcknowledge()
{
    return preAcknowledge;
}

public void setPreAcknowledge(final boolean preAcknowledge)
{
    this.preAcknowledge = preAcknowledge;
}

public String getLoadBalancingPolicyClassName()
{

```

```

    return loadBalancingPolicyClassName;
}

public void setLoadBalancingPolicyClassName(final String loadBalancingPolicyClassName)
{
    this.loadBalancingPolicyClassName = loadBalancingPolicyClassName;
}

public int getTransactionBatchSize()
{
    return transactionBatchSize;
}

public void setTransactionBatchSize(final int transactionBatchSize)
{
    this.transactionBatchSize = transactionBatchSize;
}

public int getDupsOKBatchSize()
{
    return dupsOKBatchSize;
}

public void setDupsOKBatchSize(final int dupsOKBatchSize)
{
    this.dupsOKBatchSize = dupsOKBatchSize;
}

public long getInitialWaitTimeout()
{
    return initialWaitTimeout;
}

public void setInitialWaitTimeout(final long initialWaitTimeout)
{
    this.initialWaitTimeout = initialWaitTimeout;
}

public boolean isUseGlobalPools()
{
    return useGlobalPools;
}

public void setUseGlobalPools(final boolean useGlobalPools)
{
    this.useGlobalPools = useGlobalPools;
}

```

```

public int getScheduledThreadPoolMaxSize()
{
    return scheduledThreadPoolMaxSize;
}

public void setScheduledThreadPoolMaxSize(final int scheduledThreadPoolMaxSize)
{
    this.scheduledThreadPoolMaxSize = scheduledThreadPoolMaxSize;
}

public int getThreadPoolMaxSize()
{
    return threadPoolMaxSize;
}

public void setThreadPoolMaxSize(final int threadPoolMaxSize)
{
    this.threadPoolMaxSize = threadPoolMaxSize;
}

public long getRetryInterval()
{
    return retryInterval;
}

public void setRetryInterval(final long retryInterval)
{
    this.retryInterval = retryInterval;
}

public double getRetryIntervalMultiplier()
{
    return retryIntervalMultiplier;
}

public void setRetryIntervalMultiplier(final double retryIntervalMultiplier)
{
    this.retryIntervalMultiplier = retryIntervalMultiplier;
}

public long getMaxRetryInterval()
{
    return maxRetryInterval;
}

public void setMaxRetryInterval(final long maxRetryInterval)
{
    this.maxRetryInterval = maxRetryInterval;
}

```

```

    }

    public int getReconnectAttempts()
    {
        return reconnectAttempts;
    }

    public void setReconnectAttempts(final int reconnectAttempts)
    {
        this.reconnectAttempts = reconnectAttempts;
    }

    public boolean isFailoverOnInitialConnection()
    {
        return failoverOnInitialConnection;
    }

    public void setFailoverOnInitialConnection(final boolean failover)
    {
        failoverOnInitialConnection = failover;
    }

    public String getGroupID()
    {
        return groupID;
    }

    public void setGroupID(final String groupID)
    {
        this.groupID = groupID;
    }

    // Encoding Support Implementation -----

    @Override
    public void decode(final HornetQBuffer buffer)
    {
        persisted = true;

        name = buffer.readSimpleString().toString();

        discoveryGroupName = BufferHelper.readNullableSimpleStringAsString(buffer);

        int nConnectors = buffer.readInt();

        if (nConnectors > 0)
        {
            connectorNames = new ArrayList<String>(nConnectors);

```

```
for (int i = 0; i < nConnectors; i++)
{
    SimpleString str = buffer.readSimpleString();

    connectorNames.add(str.toString());
}
}

ha = buffer.readBoolean();

clientID = BufferHelper.readNullableSimpleStringAsString(buffer);

clientFailureCheckPeriod = buffer.readLong();

connectionTTL = buffer.readLong();

callTimeout = buffer.readLong();

cacheLargeMessagesClient = buffer.readBoolean();

minLargeMessageSize = buffer.readInt();

consumerWindowSize = buffer.readInt();

consumerMaxRate = buffer.readInt();

confirmationWindowSize = buffer.readInt();

producerWindowSize = buffer.readInt();

producerMaxRate = buffer.readInt();

blockOnAcknowledge = buffer.readBoolean();

blockOnDurableSend = buffer.readBoolean();

blockOnNonDurableSend = buffer.readBoolean();

autoGroup = buffer.readBoolean();

preAcknowledge = buffer.readBoolean();

loadBalancingPolicyClassName = buffer.readSimpleString().toString();

transactionBatchSize = buffer.readInt();

dupsOKBatchSize = buffer.readInt();
```

```

initialWaitTimeout = buffer.readLong();

useGlobalPools = buffer.readBoolean();

scheduledThreadPoolMaxSize = buffer.readInt();

threadPoolMaxSize = buffer.readInt();

retryInterval = buffer.readLong();

retryIntervalMultiplier = buffer.readDouble();

maxRetryInterval = buffer.readLong();

reconnectAttempts = buffer.readInt();

failoverOnInitialConnection = buffer.readBoolean();

compressLargeMessage = buffer.readBoolean();

groupID = BufferHelper.readNullableSimpleStringAsString(buffer);

factoryType = JMSFactoryType.valueOf(buffer.readInt());
}

@Override
public void encode(final HornetQBuffer buffer)
{
    persisted = true;

    BufferHelper.writeAsSimpleString(buffer, name);

    BufferHelper.writeAsNullableSimpleString(buffer, discoveryGroupName);

    if (this.connectorNames == null)
    {
        buffer.writeInt(0);
    }
    else
    {
        buffer.writeInt(connectorNames.size());

        for (String tc : connectorNames)
        {
            BufferHelper.writeAsSimpleString(buffer, tc);
        }
    }
}

```

```
buffer.writeBoolean(ha);

BufferHelper.writeAsNullableSimpleString(buffer, clientID);

buffer.writeLong(clientFailureCheckPeriod);

buffer.writeLong(connectionTTL);

buffer.writeLong(callTimeout);

buffer.writeBoolean(cacheLargeMessagesClient);

buffer.writeInt(minLargeMessageSize);

buffer.writeInt(consumerWindowSize);

buffer.writeInt(consumerMaxRate);

buffer.writeInt(confirmationWindowSize);

buffer.writeInt(producerWindowSize);

buffer.writeInt(producerMaxRate);

buffer.writeBoolean(blockOnAcknowledge);

buffer.writeBoolean(blockOnDurableSend);

buffer.writeBoolean(blockOnNonDurableSend);

buffer.writeBoolean(autoGroup);

buffer.writeBoolean(preAcknowledge);

BufferHelper.writeAsSimpleString(buffer, loadBalancingPolicyClassName);

buffer.writeInt(transactionBatchSize);

buffer.writeInt(dupsOKBatchSize);

buffer.writeLong(initialWaitTimeout);

buffer.writeBoolean(useGlobalPools);

buffer.writeInt(scheduledThreadPoolMaxSize);

buffer.writeInt(threadPoolMaxSize);
```

```

buffer.writeLong(retryInterval);

buffer.writeDouble(retryIntervalMultiplier);

buffer.writeLong(maxRetryInterval);

buffer.writeInt(reconnectAttempts);

buffer.writeBoolean(failoverOnInitialConnection);

buffer.writeBoolean(compressLargeMessage);

BufferHelper.writeAsNullableSimpleString(buffer, groupID);

buffer.writeInt(factoryType.intValue());
}

@Override
public int getEncodeSize()
{
    int size = BufferHelper.sizeOfSimpleString(name) +

        BufferHelper.sizeOfNullableSimpleString(discoveryGroupName);

    size += DataConstants.SIZE_INT;

    if (this.connectorNames != null)
    {
        for (String tc : connectorNames)
        {
            size += BufferHelper.sizeOfSimpleString(tc);
        }
    }

    size += BufferHelper.sizeOfNullableSimpleString(clientID) +

        DataConstants.SIZE_BOOLEAN +
        // ha

        DataConstants.SIZE_LONG +
        // clientFailureCheckPeriod

        DataConstants.SIZE_LONG +
        // connectionTTL

        DataConstants.SIZE_LONG +
        // callTimeout

```

```
DataConstants.SIZE_BOOLEAN +  
// cacheLargeMessagesClient  
  
DataConstants.SIZE_INT +  
// minLargeMessageSize  
  
DataConstants.SIZE_INT +  
// consumerWindowSize  
  
DataConstants.SIZE_INT +  
// consumerMaxRate  
  
DataConstants.SIZE_INT +  
// confirmationWindowSize  
  
DataConstants.SIZE_INT +  
// producerWindowSize  
  
DataConstants.SIZE_INT +  
// producerMaxRate  
  
DataConstants.SIZE_BOOLEAN +  
// blockOnAcknowledge  
  
DataConstants.SIZE_BOOLEAN +  
// blockOnDurableSend  
  
DataConstants.SIZE_BOOLEAN +  
// blockOnNonDurableSend  
  
DataConstants.SIZE_BOOLEAN +  
// autoGroup  
  
DataConstants.SIZE_BOOLEAN +  
// preAcknowledge  
  
BufferHelper.sizeOfSimpleString(loadBalancingPolicyClassName) +  
  
DataConstants.SIZE_INT +  
// transactionBatchSize  
  
DataConstants.SIZE_INT +  
// dupsOKBatchSize  
  
DataConstants.SIZE_LONG +  
// initialWaitTimeout
```

```

    DataConstants.SIZE_BOOLEAN +
    // useGlobalPools

    DataConstants.SIZE_INT +
    // scheduledThreadPoolMaxSize

    DataConstants.SIZE_INT +
    // threadPoolMaxSize

    DataConstants.SIZE_LONG +
    // retryInterval

    DataConstants.SIZE_DOUBLE +
    // retryIntervalMultiplier

    DataConstants.SIZE_LONG +
    // maxRetryInterval

    DataConstants.SIZE_INT +
    // reconnectAttempts

    DataConstants.SIZE_BOOLEAN +
    // failoverOnInitialConnection

    DataConstants.SIZE_BOOLEAN +
    // compress-large-message

    BufferHelper.sizeOfNullableSimpleString(groupID) +

    DataConstants.SIZE_INT; // factoryType

    return size;
}

public void setFactoryType(final JMSFactoryType factoryType)
{
    this.factoryType = factoryType;
}

public JMSFactoryType getFactoryType()
{
    return factoryType;
}

@Override
public void setCompressLargeMessages(boolean compressLargeMessage)
{
    this.compressLargeMessage = compressLargeMessage;
}

```

```

}

@Override
public boolean isCompressLargeMessages()
{
    return this.compressLargeMessage;
}

// Public -----

// Package protected -----

// Protected -----

// Private -----

// Inner classes -----

}
/*
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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. See the License for the specific language governing
 * permissions and limitations under the License.
 */
package org.hornetq.jms.server.management.impl;

import javax.management.ObjectName;

import org.hornetq.api.core.management.AddressControl;
import org.hornetq.api.core.management.QueueControl;
import org.hornetq.api.core.management.ResourceNames;
import org.hornetq.api.jms.management.ConnectionFactoryControl;
import org.hornetq.api.jms.management.JMSQueueControl;
import org.hornetq.api.jms.management.JMSServerControl;
import org.hornetq.api.jms.management.TopicControl;
import org.hornetq.core.messagecounter.MessageCounter;
import org.hornetq.core.messagecounter.MessageCounterManager;
import org.hornetq.core.server.HornetQServer;
import org.hornetq.core.server.Queue;
import org.hornetq.core.server.management.ManagementService;
import org.hornetq.jms.client.HornetQConnectionFactory;

```

```

import org.hornetq.jms.client.HornetQueue;
import org.hornetq.jms.client.HornetQTopic;
import org.hornetq.jms.management.impl.JMSConnectionFactoryControlImpl;
import org.hornetq.jms.management.impl.JMSQueueControlImpl;
import org.hornetq.jms.management.impl.JMSServerControlImpl;
import org.hornetq.jms.management.impl.JMSTopicControlImpl;
import org.hornetq.jms.server.JMSServerManager;
import org.hornetq.jms.server.config.ConnectionFactoryConfiguration;
import org.hornetq.jms.server.management.JMSManagementService;

/*
 * @author <a href="mailto:jmesnil@redhat.com">Jeff Mesnil</a>
 *
 */
public class JMSManagementServiceImpl implements JMSManagementService
{

    // Constants -----

    // Attributes -----

    private final ManagementService managementService;

    private final JMSServerManager jmsServerManager;

    // Static -----

    public JMSManagementServiceImpl(final ManagementService managementService, final HornetQServer server,
final JMSServerManager jmsServerManager)
    {
        this.managementService = managementService;
        this.jmsServerManager = jmsServerManager;
    }

    // Public -----

    // JMSManagementRegistration implementation -----

    public synchronized JMSServerControl registerJMSServer(final JMSServerManager server) throws Exception
    {
        ObjectName objectName = managementService.getObjectBuilder().getJMSServerObjectName();
        JMSServerControlImpl control = new JMSServerControlImpl(server);
        managementService.registerInJMX(objectName, control);
        managementService.registerInRegistry(ResourceNames.JMS_SERVER, control);
        return control;
    }

    public synchronized void unregisterJMSServer() throws Exception

```



```

managementService.unregisterFromJMX(objectName);
managementService.unregisterFromRegistry(ResourceNames.JMS_TOPIC + name);
}

public synchronized void registerConnectionFactory(final String name,
                                                final ConnectionFactoryConfiguration cfConfig,
                                                final HornetQConnectionFactory connectionFactory) throws Exception
{
    ObjectName objectName =
managementService.getObjectBuilder().getConnectionFactoryObjectName(name);
    JMSConnectionFactoryControlImpl control = new JMSConnectionFactoryControlImpl(cfConfig,
connectionFactory, jmsServerManager, name);
    managementService.registerInJMX(objectName, control);
    managementService.registerInRegistry(ResourceNames.JMS_CONNECTION_FACTORY + name, control);
}

public synchronized void unregisterConnectionFactory(final String name) throws Exception
{
    ObjectName objectName =
managementService.getObjectBuilder().getConnectionFactoryObjectName(name);
    managementService.unregisterFromJMX(objectName);
    managementService.unregisterFromRegistry(ResourceNames.JMS_CONNECTION_FACTORY + name);
}

public void stop() throws Exception
{
    for (Object resource : managementService.getResources(ConnectionFactoryControl.class))
    {
        unregisterConnectionFactory(((ConnectionFactoryControl)resource).getName());
    }
    for (Object resource : managementService.getResources(JMSQueueControl.class))
    {
        unregisterQueue(((JMSQueueControl)resource).getName());
    }
    for (Object resource : managementService.getResources(TopicControl.class))
    {
        unregisterTopic(((TopicControl)resource).getName());
    }
}

// Package protected -----
// Protected -----
// Private -----
// Inner classes -----
}

```

```

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 */
package org.hornetq.jms.management.impl;

import java.util.ArrayList;
import java.util.Collections;
import java.util.List;
import java.util.Map;

import javax.management.MBeanInfo;
import javax.management.StandardMBean;

import org.hornetq.api.core.HornetQException;
import org.hornetq.api.core.Pair;
import org.hornetq.api.core.management.AddressControl;
import org.hornetq.api.core.management.HornetQServerControl;
import org.hornetq.api.core.management.QueueControl;
import org.hornetq.api.core.management.ResourceNames;
import org.hornetq.api.jms.management.TopicControl;
import org.hornetq.core.management.impl.MBeanInfoHelper;
import org.hornetq.core.server.management.ManagementService;
import org.hornetq.jms.client.HornetQDestination;
import org.hornetq.jms.client.HornetQMessage;
import org.hornetq.jms.client.SelectorTranslator;
import org.hornetq.jms.server.JMSServerManager;
import org.hornetq.utils.json.JSONArray;
import org.hornetq.utils.json.JSONObject;

/**
 * @author <a href="mailto:jmesnil@redhat.com">Jeff Mesnil</a>
 *
 */
public class JMSTopicControlImpl extends StandardMBean implements TopicControl
{
    private final HornetQDestination managedTopic;

    private final AddressControl addressControl;

```

```

private final ManagementService managementService;

private final JMSServerManager jmsServerManager;

// Static -----

public static String createFilterFromJMSSelector(final String selectorStr) throws HornetQException
{
    return selectorStr == null || selectorStr.trim().length() == 0 ? null
        : SelectorTranslator.convertToHornetQFilterString(selectorStr);
}

// Constructors -----

public JMSTopicControlImpl(final HornetQDestination topic,
    final JMSServerManager jmsServerManager,
    final AddressControl addressControl,
    final ManagementService managementService) throws Exception
{
    super(TopicControl.class);
    this.jmsServerManager = jmsServerManager;
    managedTopic = topic;
    this.addressControl = addressControl;
    this.managementService = managementService;
}

// TopicControlMBean implementation -----

@Override
public void addJNDI(String jndi) throws Exception
{
    jmsServerManager.addTopicToJndi(managedTopic.getName(), jndi);
}

public String[] getJNDIBindings()
{
    return jmsServerManager.getJNDIOnTopic(managedTopic.getName());
}

public String getName()
{
    return managedTopic.getName();
}

public boolean isTemporary()
{
    return managedTopic.isTemporary();
}

```

```

}

public String getAddress()
{
    return managedTopic.getAddress();
}

public long getMessageCount()
{
    return getMessageCount(DurabilityType.ALL);
}

public int getDeliveringCount()
{
    List<QueueControl> queues = getQueues(DurabilityType.ALL);
    int count = 0;
    for (QueueControl queue : queues)
    {
        count += queue.getDeliveringCount();
    }
    return count;
}

public long getMessagesAdded()
{
    List<QueueControl> queues = getQueues(DurabilityType.ALL);
    int count = 0;
    for (QueueControl queue : queues)
    {
        count += queue.getMessagesAdded();
    }
    return count;
}

public int getDurableMessageCount()
{
    return getMessageCount(DurabilityType.DURABLE);
}

public int getNonDurableMessageCount()
{
    return getMessageCount(DurabilityType.NON_DURABLE);
}

public int getSubscriptionCount()
{
    return getQueues(DurabilityType.ALL).size();
}

```

```

public int getDurableSubscriptionCount()
{
    return getQueues(DurabilityType.DURABLE).size();
}

public int getNonDurableSubscriptionCount()
{
    return getQueues(DurabilityType.NON_DURABLE).size();
}

public Object[] listAllSubscriptions()
{
    return listSubscribersInfos(DurabilityType.ALL);
}

public String listAllSubscriptionsAsJSON() throws Exception
{
    return listSubscribersInfosAsJSON(DurabilityType.ALL);
}

public Object[] listDurableSubscriptions()
{
    return listSubscribersInfos(DurabilityType.DURABLE);
}

public String listDurableSubscriptionsAsJSON() throws Exception
{
    return listSubscribersInfosAsJSON(DurabilityType.DURABLE);
}

public Object[] listNonDurableSubscriptions()
{
    return listSubscribersInfos(DurabilityType.NON_DURABLE);
}

public String listNonDurableSubscriptionsAsJSON() throws Exception
{
    return listSubscribersInfosAsJSON(DurabilityType.NON_DURABLE);
}

public Map<String, Object>[] listMessagesForSubscription(final String queueName) throws Exception
{
    QueueControl coreQueueControl =
    (QueueControl)managementService.getResource(ResourceNames.CORE_QUEUE + queueName);
    if (coreQueueControl == null)
    {
        throw new IllegalArgumentException("No subscriptions with name " + queueName);
    }
}

```

```

    }

    Map<String, Object>[] coreMessages = coreQueueControl.listMessages(null);

    Map<String, Object>[] jmsMessages = new Map[coreMessages.length];

    int i = 0;

    for (Map<String, Object> coreMessage : coreMessages)
    {
        jmsMessages[i++] = HornetQMessage.coreMaptoJMSMap(coreMessage);
    }
    return jmsMessages;
}

public String listMessagesForSubscriptionAsJSON(final String queueName) throws Exception
{
    return JMSQueueControlImpl.toJSON(listMessagesForSubscription(queueName));
}

public int countMessagesForSubscription(final String clientID, final String subscriptionName, final String filterStr)
throws Exception
{
    String queueName = HornetQDestination.createQueueNameForDurableSubscription(true, clientID,
subscriptionName);
    QueueControl coreQueueControl =
(QueueControl)managementService.getResource(ResourceNames.CORE_QUEUE + queueName);
    if (coreQueueControl == null)
    {
        throw new IllegalArgumentException("No subscriptions with name " + queueName + " for clientID " +
clientID);
    }
    String filter = JMSTopicControlImpl.createFilterFromJMSSelector(filterStr);
    return coreQueueControl.listMessages(filter).length;
}

public int removeMessages(final String filterStr) throws Exception
{
    String filter = JMSTopicControlImpl.createFilterFromJMSSelector(filterStr);
    int count = 0;
    String[] queues = addressControl.getQueueNames();
    for (String queue : queues)
    {
        QueueControl coreQueueControl =
(QueueControl)managementService.getResource(ResourceNames.CORE_QUEUE + queue);
        if (coreQueueControl != null)
        {
            count += coreQueueControl.removeMessages(filter);
        }
    }
}

```

```

    }
}

return count;
}

public void dropDurableSubscription(final String clientID, final String subscriptionName) throws Exception
{
    String queueName = HornetQDestination.createQueueNameForDurableSubscription(true, clientID,
subscriptionName);
    QueueControl coreQueueControl =
(QueueControl)managementService.getResource(ResourceNames.CORE_QUEUE + queueName);
    if (coreQueueControl == null)
    {
        throw new IllegalArgumentException("No subscriptions with name " + queueName + " for clientID " +
clientID);
    }
    HornetQServerControl serverControl =
(HornetQServerControl)managementService.getResource(ResourceNames.CORE_SERVER);
    serverControl.destroyQueue(queueName);
}

public void dropAllSubscriptions() throws Exception
{
    HornetQServerControl serverControl =
(HornetQServerControl)managementService.getResource(ResourceNames.CORE_SERVER);
    String[] queues = addressControl.getQueueNames();
    for (String queue : queues)
    {
        // Drop all subscription shouldn't delete the dummy queue used to identify if the topic exists on the core queues.
        // we will just ignore this queue
        if (!queue.equals(managedTopic.getAddress()))
        {
            serverControl.destroyQueue(queue);
        }
    }
}

// Package protected -----
// Protected -----
// Private -----

private Object[] listSubscribersInfos(final DurabilityType durability)
{
    List<QueueControl> queues = getQueues(durability);
    List<Object[]> subInfos = new ArrayList<Object[]>(queues.size());

```

```

for (QueueControl queue : queues)
{
    String clientID = null;
    String subName = null;

    if (queue.isDurable())
    {
        Pair<String, String> pair =
HornetQDestination.decomposeQueueNameForDurableSubscription(queue.getName()
                                                                .toString());

        clientID = pair.getA();
        subName = pair.getB();
    }

    String filter = queue.getFilter() != null ? queue.getFilter() : null;

    Object[] subscriptionInfo = new Object[6];
    subscriptionInfo[0] = queue.getName();
    subscriptionInfo[1] = clientID;
    subscriptionInfo[2] = subName;
    subscriptionInfo[3] = queue.isDurable();
    subscriptionInfo[4] = queue.getMessageCount();
    subscriptionInfo[5] = filter;
    subInfos.add(subscriptionInfo);
}
return subInfos.toArray(new Object[subInfos.size()]);
}

private String listSubscribersInfosAsJSON(final DurabilityType durability) throws Exception
{
    try
    {
        List<QueueControl> queues = getQueues(durability);
        JSONArray array = new JSONArray();

        for (QueueControl queue : queues)
        {
            String clientID = null;
            String subName = null;

            if (queue.isDurable() && !queue.getName().startsWith(ResourceNames.JMS_TOPIC))
            {
                Pair<String, String> pair =
HornetQDestination.decomposeQueueNameForDurableSubscription(queue.getName()
                                                                .toString());

                clientID = pair.getA();
                subName = pair.getB();
            }
        }
    }
}

```

```

    }
    else if (queue.getName().startsWith(ResourceNames.JMS_TOPIC))
    {
        // in the case of heirarchical topics the queue name will not follow the <part>.<part> pattern of normal
        // durable subscribers so skip decomposing the name for the client ID and subscription name and just
        // hard-code it
        clientID = "HornetQ";
        subName = "HornetQ";
    }

    String filter = queue.getFilter() != null ? queue.getFilter() : null;

    JSONObject info = new JSONObject();

    info.put("queueName", queue.getName());
    info.put("clientID", clientID);
    info.put("selector", filter);
    info.put("name", subName);
    info.put("durable", queue.isDurable());
    info.put("messageCount", queue.getMessageCount());
    info.put("deliveringCount", queue.getDeliveringCount());
    info.put("consumers", new JSONArray(queue.listConsumersAsJSON()));
    array.put(info);
}

return array.toString();
}
catch (Exception e)
{
    e.printStackTrace();
    return e.toString();
}
}

private int getMessageCount(final DurabilityType durability)
{
    List<QueueControl> queues = getQueues(durability);
    int count = 0;
    for (QueueControl queue : queues)
    {
        count += queue.getMessageCount();
    }
    return count;
}

private List<QueueControl> getQueues(final DurabilityType durability)
{
    try

```

```

{
    List<QueueControl> matchingQueues = new ArrayList<QueueControl>();
    String[] queues = addressControl.getQueueNames();
    for (String queue : queues)
    {
        QueueControl coreQueueControl =
(QueueControl)managementService.getResource(ResourceNames.CORE_QUEUE + queue);

        // Ignore the "special" subscription
        if (coreQueueControl != null && !coreQueueControl.getName().equals(addressControl.getAddress()))
        {
            if (durability == DurabilityType.ALL || durability == DurabilityType.DURABLE &&
                coreQueueControl.isDurable() ||
                durability == DurabilityType.NON_DURABLE &&
                !coreQueueControl.isDurable())
            {
                matchingQueues.add(coreQueueControl);
            }
        }
    }
    return matchingQueues;
}
catch (Exception e)
{
    return Collections.emptyList();
}
}

@Override
public MBeanInfo getMBeanInfo()
{
    MBeanInfo info = super.getMBeanInfo();
    return new MBeanInfo(info.getClassName(),
        info.getDescription(),
        info.getAttributes(),
        info.getConstructors(),
        MBeanInfoHelper.getMBeanOperationsInfo(TopicControl.class),
        info.getNotifications());
}

// Inner classes -----
private enum DurabilityType
{
    ALL, DURABLE, NON_DURABLE
}
}

```

```

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 * permissions and limitations under the License.
 */
package org.hornetq.jms.management.impl;

import javax.management.MBeanInfo;
import javax.management.StandardMBean;
import java.util.Map;

import org.hornetq.api.core.FilterConstants;
import org.hornetq.api.core.HornetQException;
import org.hornetq.api.core.management.MessageCounterInfo;
import org.hornetq.api.core.management.Operation;
import org.hornetq.api.core.management.QueueControl;
import org.hornetq.api.jms.management.JMSQueueControl;
import org.hornetq.core.management.impl.MBeanInfoHelper;
import org.hornetq.core.messagecounter.MessageCounter;
import org.hornetq.core.messagecounter.impl.MessageCounterHelper;
import org.hornetq.jms.client.HornetQDestination;
import org.hornetq.jms.client.HornetQMessage;
import org.hornetq.jms.client.SelectorTranslator;
import org.hornetq.jms.server.JMSServerManager;
import org.hornetq.utils.json.JSONArray;
import org.hornetq.utils.json.JSONObject;

/**
 * @author <a href="mailto:jmesnil@redhat.com">Jeff Mesnil</a>
 */
public class JMSQueueControlImpl extends StandardMBean implements JMSQueueControl
{
    private final HornetQDestination managedQueue;

    private final JMSServerManager jmsServerManager;

    private final QueueControl coreQueueControl;

    private final MessageCounter counter;

    // Static -----

```

```

/**
 * Returns null if the string is null or empty
 */
public static String createFilterFromJMSSelector(final String selectorStr) throws HornetQException
{
    return selectorStr == null || selectorStr.trim().length() == 0 ? null
        : SelectorTranslator.convertToHornetQFilterString(selectorStr);
}

private static String createFilterForJMSMessageID(final String jmsMessageID) throws Exception
{
    return FilterConstants.HORNETQ_USERID + " = " + jmsMessageID + "";
}

static String toJSON(final Map<String, Object>[] messages)
{
    JSONArray array = new JSONArray();
    for (Map<String, Object> message : messages)
    {
        array.put(new JSONObject(message));
    }
    return array.toString();
}

// Constructors -----

public JMSQueueControlImpl(final HornetQDestination managedQueue,
                           final QueueControl coreQueueControl,
                           final JMSServerManager jmsServerManager,
                           final MessageCounter counter) throws Exception
{
    super(JMSQueueControl.class);
    this.managedQueue = managedQueue;
    this.jmsServerManager = jmsServerManager;
    this.coreQueueControl = coreQueueControl;
    this.counter = counter;
}

// Public -----

// ManagedJMSQueueMBean implementation -----

public String getName()
{
    return managedQueue.getName();
}

```

```

public String getAddress()
{
    return managedQueue.getAddress();
}

public boolean isTemporary()
{
    return managedQueue.isTemporary();
}

public long getMessageCount()
{
    return coreQueueControl.getMessageCount();
}

public long getMessagesAdded()
{
    return coreQueueControl.getMessagesAdded();
}

public int getConsumerCount()
{
    return coreQueueControl.getConsumerCount();
}

public int getDeliveringCount()
{
    return coreQueueControl.getDeliveringCount();
}

public long getScheduledCount()
{
    return coreQueueControl.getScheduledCount();
}

public boolean isDurable()
{
    return coreQueueControl.isDurable();
}

public String getDeadLetterAddress()
{
    return coreQueueControl.getDeadLetterAddress();
}

public void setDeadLetterAddress(final String deadLetterAddress) throws Exception
{
    coreQueueControl.setDeadLetterAddress(deadLetterAddress);
}

```

```

}

public String getExpiryAddress()
{
    return coreQueueControl.getExpiryAddress();
}

public void setExpiryAddress(final String expiryAddress) throws Exception
{
    coreQueueControl.setExpiryAddress(expiryAddress);
}

@Override
public void addJNDI(String jndi) throws Exception
{
    jmsServerManager.addQueueToJndi(managedQueue.getName(), jndi);
}

public void removeJNDI(String jndi) throws Exception
{
    jmsServerManager.removeQueueFromJNDI(managedQueue.getName(), jndi);
}

public String[] getJNDIBindings()
{
    return jmsServerManager.getJNDIONQueue(managedQueue.getName());
}

public boolean removeMessage(final String messageID) throws Exception
{
    String filter = JMSQueueControlImpl.createFilterForJMSMessageID(messageID);
    int removed = coreQueueControl.removeMessages(filter);
    if (removed != 1)
    {
        throw new IllegalArgumentException("No message found for JMSMessageID: " + messageID);
    }
    return true;
}

public int removeMessages(final String filterStr) throws Exception
{
    String filter = JMSQueueControlImpl.createFilterFromJMSSelector(filterStr);
    return coreQueueControl.removeMessages(filter);
}

public Map<String, Object>[] listMessages(final String filterStr) throws Exception
{
    try

```

```

{
    String filter = JMSQueueControlImpl.createFilterFromJMSSelector(filterStr);
    Map<String, Object>[] coreMessages = coreQueueControl.listMessages(filter);

    Map<String, Object>[] jmsMessages = new Map[coreMessages.length];

    int i = 0;

    for (Map<String, Object> coreMessage : coreMessages)
    {
        Map<String, Object> jmsMessage = HornetQMessage.coreMaptoJMSMap(coreMessage);
        jmsMessages[i++] = jmsMessage;
    }
    return jmsMessages;
}
catch (HornetQException e)
{
    throw new IllegalStateException(e.getMessage());
}
}

public String listMessagesAsJSON(final String filter) throws Exception
{
    return JMSQueueControlImpl.toJSON(listMessages(filter));
}

public long countMessages(final String filterStr) throws Exception
{
    String filter = JMSQueueControlImpl.createFilterFromJMSSelector(filterStr);
    return coreQueueControl.countMessages(filter);
}

public boolean expireMessage(final String messageID) throws Exception
{
    String filter = JMSQueueControlImpl.createFilterForJMSMessageID(messageID);
    int expired = coreQueueControl.expireMessages(filter);
    if (expired != 1)
    {
        throw new IllegalArgumentException("No message found for JMSMessageID: " + messageID);
    }
    return true;
}

public int expireMessages(final String filterStr) throws Exception
{
    String filter = JMSQueueControlImpl.createFilterFromJMSSelector(filterStr);
    return coreQueueControl.expireMessages(filter);
}
}

```

```

public boolean sendMessageToDeadLetterAddress(final String messageID) throws Exception
{
    String filter = JMSQueueControlImpl.createFilterForJMSMessageID(messageID);
    int dead = coreQueueControl.sendMessageToDeadLetterAddress(filter);
    if (dead != 1)
    {
        throw new IllegalArgumentException("No message found for JMSMessageID: " + messageID);
    }
    return true;
}

public int sendMessagesToDeadLetterAddress(final String filterStr) throws Exception
{
    String filter = JMSQueueControlImpl.createFilterFromJMSSelector(filterStr);
    return coreQueueControl.sendMessagesToDeadLetterAddress(filter);
}

public boolean changeMessagePriority(final String messageID, final int newPriority) throws Exception
{
    String filter = JMSQueueControlImpl.createFilterForJMSMessageID(messageID);
    int changed = coreQueueControl.changeMessagesPriority(filter, newPriority);
    if (changed != 1)
    {
        throw new IllegalArgumentException("No message found for JMSMessageID: " + messageID);
    }
    return true;
}

public int changeMessagesPriority(final String filterStr, final int newPriority) throws Exception
{
    String filter = JMSQueueControlImpl.createFilterFromJMSSelector(filterStr);
    return coreQueueControl.changeMessagesPriority(filter, newPriority);
}

public boolean moveMessage(final String messageID, final String otherQueueName) throws Exception
{
    return moveMessage(messageID, otherQueueName, false);
}

public boolean moveMessage(final String messageID, final String otherQueueName, final boolean
rejectDuplicates) throws Exception
{
    String filter = JMSQueueControlImpl.createFilterForJMSMessageID(messageID);
    HornetQDestination otherQueue = HornetQDestination.createQueue(otherQueueName);
    int moved = coreQueueControl.moveMessages(filter, otherQueue.getAddress(), rejectDuplicates);
    if (moved != 1)
    {

```

```

        throw new IllegalArgumentException("No message found for JMSMessageID: " + messageID);
    }

    return true;
}

public int moveMessages(final String filterStr, final String otherQueueName, final boolean rejectDuplicates)
throws Exception
{
    String filter = JMSQueueControlImpl.createFilterFromJMSSelector(filterStr);
    HornetQDestination otherQueue = HornetQDestination.createQueue(otherQueueName);
    return coreQueueControl.moveMessages(filter, otherQueue.getAddress(), rejectDuplicates);
}

public int moveMessages(final String filterStr, final String otherQueueName) throws Exception
{
    return moveMessages(filterStr, otherQueueName, false);
}

@Operation(desc = "List all the existent consumers on the Queue")
public String listConsumersAsJSON() throws Exception
{
    return coreQueueControl.listConsumersAsJSON();
}

public String listMessageCounter()
{
    try
    {
        return MessageCounterInfo.toJson(counter);
    }
    catch (Exception e)
    {
        throw new IllegalStateException(e);
    }
}

public void resetMessageCounter() throws Exception
{
    coreQueueControl.resetMessageCounter();
}

public String listMessageCounterAsHTML()
{
    return MessageCounterHelper.listMessageCounterAsHTML(new MessageCounter[]{counter});
}

```

```

public String listMessageCounterHistory() throws Exception
{
    return MessageCounterHelper.listMessageCounterHistory(counter);
}

public String listMessageCounterHistoryAsHTML()
{
    return MessageCounterHelper.listMessageCounterHistoryAsHTML(new MessageCounter[]{counter});
}

public boolean isPaused() throws Exception
{
    return coreQueueControl.isPaused();
}

public void pause() throws Exception
{
    coreQueueControl.pause();
}

public void resume() throws Exception
{
    coreQueueControl.resume();
}

public String getSelector()
{
    return coreQueueControl.getFilter();
}

@Override
public MBeanInfo getMBeanInfo()
{
    MBeanInfo info = super.getMBeanInfo();
    return new MBeanInfo(info.getClassName(),
        info.getDescription(),
        info.getAttributes(),
        info.getConstructors(),
        MBeanInfoHelper.getMBeanOperationsInfo(JMSQueueControl.class),
        info.getNotifications());
}

// Package protected -----
// Protected -----
// Private -----

```

```

// Inner classes -----
}
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 * permissions and limitations under the License.
 */
package org.hornetq.jms.management.impl;

import javax.management.MBeanInfo;
import javax.management.NotCompliantMBeanException;
import javax.management.StandardMBean;

import org.hornetq.api.core.DiscoveryGroupConfiguration;
import org.hornetq.api.core.TransportConfiguration;
import org.hornetq.api.core.management.Parameter;
import org.hornetq.api.jms.management.ConnectionFactoryControl;
import org.hornetq.core.management.impl.MBeanInfoHelper;
import org.hornetq.jms.client.HornetQConnectionFactory;
import org.hornetq.jms.server.JMSServerManager;
import org.hornetq.jms.server.config.ConnectionFactoryConfiguration;

/**
 * @author <a href="mailto:jmesnil@redhat.com">Jeff Mesnil</a>
 */
public class JMSSConnectionFactoryControlImpl extends StandardMBean implements ConnectionFactoryControl
{
    // Constants -----

    // Attributes -----

    private final ConnectionFactoryConfiguration cfConfig;

    private HornetQConnectionFactory cf;

    private final String name;

    private final JMSServerManager jmsManager;

    // Static -----

```

```

// Constructors -----

public JMSConnectionFactoryControlImpl(final ConnectionFactoryConfiguration cfConfig,
                                       final HornetQConnectionFactory cf,
                                       final JMSServerManager jmsManager,
                                       final String name) throws NotCompliantMBeanException
{
    super(ConnectionFactoryControl.class);
    this.cfConfig = cfConfig;
    this.cf = cf;
    this.name = name;
    this.jmsManager = jmsManager;
}

// Public -----

// ManagedConnectionFactoryMBean implementation -----

public String[] getJNDIBindings()
{
    return jmsManager.getJNDIOnConnectionFactory(name);
}

public boolean isCompressLargeMessages()
{
    return cf.isCompressLargeMessage();
}

public void setCompressLargeMessages(final boolean compress)
{
    cfConfig.setCompressLargeMessages(compress);
    recreateCF();
}

public boolean isHA()
{
    return cfConfig.isHA();
}

public int getFactoryType()
{
    return cfConfig.getFactoryType().intValue();
}

public String getClientID()
{
    return cfConfig.getClientID();
}

```

```

public long getClientFailureCheckPeriod()
{
    return cfConfig.getClientFailureCheckPeriod();
}

public void setClientID(String clientID)
{
    cfConfig.setClientID(clientID);
    recreateCF();
}

public void setDupsOKBatchSize(int dupsOKBatchSize)
{
    cfConfig.setDupsOKBatchSize(dupsOKBatchSize);
    recreateCF();
}

public void setTransactionBatchSize(int transactionBatchSize)
{
    cfConfig.setTransactionBatchSize(transactionBatchSize);
    recreateCF();
}

public void setClientFailureCheckPeriod(long clientFailureCheckPeriod)
{
    cfConfig.setClientFailureCheckPeriod(clientFailureCheckPeriod);
    recreateCF();
}

public void setConnectionTTL(long connectionTTL)
{
    cfConfig.setConnectionTTL(connectionTTL);
    recreateCF();
}

public void setCallTimeout(long callTimeout)
{
    cfConfig.setCallTimeout(callTimeout);
    recreateCF();
}

public void setCallFailoverTimeout(long callTimeout)
{
    cfConfig.setCallFailoverTimeout(callTimeout);
    recreateCF();
}

```

```

public void setConsumerWindowSize(int consumerWindowSize)
{
    cfConfig.setConsumerWindowSize(consumerWindowSize);
    recreateCF();
}

public void setConsumerMaxRate(int consumerMaxRate)
{
    cfConfig.setConsumerMaxRate(consumerMaxRate);
    recreateCF();
}

public void setConfirmationWindowSize(int confirmationWindowSize)
{
    cfConfig.setConfirmationWindowSize(confirmationWindowSize);
    recreateCF();
}

public void setProducerMaxRate(int producerMaxRate)
{
    cfConfig.setProducerMaxRate(producerMaxRate);
    recreateCF();
}

public int getProducerWindowSize()
{
    return cfConfig.getProducerWindowSize();
}

public void setProducerWindowSize(int producerWindowSize)
{
    cfConfig.setProducerWindowSize(producerWindowSize);
    recreateCF();
}

public void setCacheLargeMessagesClient(boolean cacheLargeMessagesClient)
{
    cfConfig.setCacheLargeMessagesClient(cacheLargeMessagesClient);
    recreateCF();
}

public boolean isCacheLargeMessagesClient()
{
    return cfConfig.isCacheLargeMessagesClient();
}

public void setMinLargeMessageSize(int minLargeMessageSize)
{

```

```

    cfConfig.setMinLargeMessageSize(minLargeMessageSize);
    recreateCF();
}

public void setBlockOnNonDurableSend(boolean blockOnNonDurableSend)
{
    cfConfig.setBlockOnNonDurableSend(blockOnNonDurableSend);
    recreateCF();
}

public void setBlockOnAcknowledge(boolean blockOnAcknowledge)
{
    cfConfig.setBlockOnAcknowledge(blockOnAcknowledge);
    recreateCF();
}

public void setBlockOnDurableSend(boolean blockOnDurableSend)
{
    cfConfig.setBlockOnDurableSend(blockOnDurableSend);
    recreateCF();
}

public void setAutoGroup(boolean autoGroup)
{
    cfConfig.setAutoGroup(autoGroup);
    recreateCF();
}

public void setPreAcknowledge(boolean preAcknowledge)
{
    cfConfig.setPreAcknowledge(preAcknowledge);
    recreateCF();
}

public void setMaxRetryInterval(long retryInterval)
{
    cfConfig.setMaxRetryInterval(retryInterval);
    recreateCF();
}

public void setRetryIntervalMultiplier(double retryIntervalMultiplier)
{
    cfConfig.setRetryIntervalMultiplier(retryIntervalMultiplier);
    recreateCF();
}

public void setReconnectAttempts(int reconnectAttempts)
{

```

```

        cfConfig.setReconnectAttempts(reconnectAttempts);
        recreateCF();
    }

    public void setFailoverOnInitialConnection(boolean failover)
    {
        cfConfig.setFailoverOnInitialConnection(failover);
        recreateCF();
    }

    public boolean isUseGlobalPools()
    {
        return cfConfig.isUseGlobalPools();
    }

    public void setScheduledThreadPoolMaxSize(int scheduledThreadPoolMaxSize)
    {
        cfConfig.setScheduledThreadPoolMaxSize(scheduledThreadPoolMaxSize);
        recreateCF();
    }

    public int getThreadPoolMaxSize()
    {
        return cfConfig.getThreadPoolMaxSize();
    }

    public void setThreadPoolMaxSize(int threadPoolMaxSize)
    {
        cfConfig.setThreadPoolMaxSize(threadPoolMaxSize);
        recreateCF();
    }

    public int getInitialMessagePacketSize()
    {
        return cf.getInitialMessagePacketSize();
    }

    public void setGroupID(String groupID)
    {
        cfConfig.setGroupID(groupID);
        recreateCF();
    }

    public String getGroupID()
    {
        return cfConfig.getGroupID();
    }

```

```

public void setUseGlobalPools(boolean useGlobalPools)
{
    cfConfig.setUseGlobalPools(useGlobalPools);
    recreateCF();
}

public int getScheduledThreadPoolMaxSize()
{
    return cfConfig.getScheduledThreadPoolMaxSize();
}

public void setRetryInterval(long retryInterval)
{
    cfConfig.setRetryInterval(retryInterval);
    recreateCF();
}

public long getMaxRetryInterval()
{
    return cfConfig.getMaxRetryInterval();
}

public String getConnectionLoadBalancingPolicyClassName()
{
    return cfConfig.getLoadBalancingPolicyClassName();
}

public void setConnectionLoadBalancingPolicyClassName(String name)
{
    cfConfig.setLoadBalancingPolicyClassName(name);
    recreateCF();
}

public TransportConfiguration[] getStaticConnectors()
{
    return cf.getStaticConnectors();
}

public DiscoveryGroupConfiguration getDiscoveryGroupConfiguration()
{
    return cf.getDiscoveryGroupConfiguration();
}

public void addJNDI(@Parameter(name = "jndiBinding", desc = "the name of the binding for JNDI") String jndi)
throws Exception
{
    jmsManager.addConnectionFactoryToJNDI(name, jndi);
}

```

```

    public void removeJNDI(@Parameter(name = "jndiBinding", desc = "the name of the binding for JNDI") String
jndi) throws Exception
    {
        jmsManager.removeConnectionFactoryFromJNDI(name, jndi);
    }

    public long getCallTimeout()
    {
        return cfConfig.getCallTimeout();
    }

    public long getCallFailoverTimeout()
    {
        return cfConfig.getCallFailoverTimeout();
    }

    public int getConsumerMaxRate()
    {
        return cfConfig.getConsumerMaxRate();
    }

    public int getConsumerWindowSize()
    {
        return cfConfig.getConsumerWindowSize();
    }

    public int getProducerMaxRate()
    {
        return cfConfig.getProducerMaxRate();
    }

    public int getConfirmationWindowSize()
    {
        return cfConfig.getConfirmationWindowSize();
    }

    public int getDupsOKBatchSize()
    {
        return cfConfig.getDupsOKBatchSize();
    }

    public boolean isBlockOnAcknowledge()
    {
        return cfConfig.isBlockOnAcknowledge();
    }

    public boolean isBlockOnNonDurableSend()

```

```

    {
        return cfConfig.isBlockOnNonDurableSend();
    }

    public boolean isBlockOnDurableSend()
    {
        return cfConfig.isBlockOnDurableSend();
    }

    public boolean isPreAcknowledge()
    {
        return cfConfig.isPreAcknowledge();
    }

    public String getName()
    {
        return name;
    }

    public long getConnectionTTL()
    {
        return cfConfig.getConnectionTTL();
    }

    public int getReconnectAttempts()
    {
        return cfConfig.getReconnectAttempts();
    }

    public boolean isFailoverOnInitialConnection()
    {
        return cfConfig.isFailoverOnInitialConnection();
    }

    public int getMinLargeMessageSize()
    {
        return cfConfig.getMinLargeMessageSize();
    }

    public long getRetryInterval()
    {
        return cfConfig.getRetryInterval();
    }

    public double getRetryIntervalMultiplier()
    {
        return cfConfig.getRetryIntervalMultiplier();
    }

```

```

public int getTransactionBatchSize()
{
    return cfConfig.getTransactionBatchSize();
}

public boolean isAutoGroup()
{
    return cfConfig.isAutoGroup();
}

@Override
public MBeanInfo getMBeanInfo()
{
    MBeanInfo info = super.getMBeanInfo();
    return new MBeanInfo(info.getClassName(),
        info.getDescription(),
        info.getAttributes(),
        info.getConstructors(),
        MBeanInfoHelper.getMBeanOperationsInfo(ConnectionFactoryControl.class),
        info.getNotifications());
}

// Package protected -----

// Protected -----

private void recreateCF()
{
    try
    {
        this.cf = jmsManager.recreateCF(this.name, this.cfConfig);
    }
    catch (Exception e)
    {
        throw new RuntimeException(e.getMessage(), e);
    }
}

// Private -----

// Inner classes -----
}
/*
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```

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- */

```
package org.hornetq.jms.management.impl;
```

```
import javax.jms.JMSRuntimeException;
import javax.management.ListenerNotFoundException;
import javax.management.MBeanNotificationInfo;
import javax.management.MBeanOperationInfo;
import javax.management.Notification;
import javax.management.NotificationBroadcasterSupport;
import javax.management.NotificationEmitter;
import javax.management.NotificationFilter;
import javax.management.NotificationListener;

import java.util.ArrayList;
import java.util.HashMap;
import java.util.List;
import java.util.Map;
import java.util.Set;
import java.util.concurrent.atomic.AtomicLong;

import org.hornetq.api.core.client.HornetQClient;
import org.hornetq.api.core.management.Parameter;
import org.hornetq.api.jms.JMSFactoryType;
import org.hornetq.api.jms.management.ConnectionFactoryControl;
import org.hornetq.api.jms.management.DestinationControl;
import org.hornetq.api.jms.management.JMSQueueControl;
import org.hornetq.api.jms.management.JMSServerControl;
import org.hornetq.api.jms.management.TopicControl;
import org.hornetq.core.filter.Filter;
import org.hornetq.core.management.impl.AbstractControl;
import org.hornetq.core.management.impl.MBeanInfoHelper;
import org.hornetq.core.server.ServerConsumer;
import org.hornetq.core.server.ServerSession;
import org.hornetq.jms.client.HornetQDestination;
import org.hornetq.jms.server.HornetQMSServerLogger;
import org.hornetq.jms.server.JMSServerManager;
import org.hornetq.jms.server.config.ConnectionFactoryConfiguration;
import org.hornetq.jms.server.config.impl.ConnectionFactoryConfigurationImpl;
import org.hornetq.jms.server.management.JMSNotificationType;
import org.hornetq.spi.core.protocol.RemotingConnection;
import org.hornetq.utils.TypedProperties;
import org.hornetq.utils.json.JSONArray;
```

```

import org.hornetq.utils.json.JSONObject;

/**
 * @author <a href="mailto:jmesnil@redhat.com">Jeff Mesnil</a>
 * @author <a href="mailto:tim.fox@jboss.com">Tim Fox</a>
 */
public class JMSServerControlImpl extends AbstractControl implements JMSServerControl, NotificationEmitter,
    org.hornetq.core.server.management.NotificationListener
{

    // Constants -----

    // Attributes -----

    private final JMSServerManager server;

    private final NotificationBroadcasterSupport broadcaster;

    private final AtomicLong notifSeq = new AtomicLong(0);

    // Static -----

    private static String[] convert(final Object[] jndiBindings)
    {
        String[] bindings = new String[jndiBindings.length];
        for (int i = 0, jndiBindingsLength = jndiBindings.length; i < jndiBindingsLength; i++)
        {
            bindings[i] = jndiBindings[i].toString().trim();
        }
        return bindings;
    }

    private static String[] toArray(final String commaSeparatedString)
    {
        if (commaSeparatedString == null || commaSeparatedString.trim().length() == 0)
        {
            return new String[0];
        }
        String[] values = commaSeparatedString.split(",");
        String[] trimmed = new String[values.length];
        for (int i = 0; i < values.length; i++)
        {
            trimmed[i] = values[i].trim();
            trimmed[i] = trimmed[i].replace("&comma;", ",");
        }
        return trimmed;
    }
}

```

```

private static String[] determineJMSDestination(String coreAddress)
{
    String[] result = new String[2]; // destination name & type
    if (coreAddress.startsWith(HornetQDestination.JMS_QUEUE_ADDRESS_PREFIX))
    {
        result[0] = coreAddress.substring(HornetQDestination.JMS_QUEUE_ADDRESS_PREFIX.length());
        result[1] = "queue";
    }
    else if (coreAddress.startsWith(HornetQDestination.JMS_TEMP_QUEUE_ADDRESS_PREFIX))
    {
        result[0] = coreAddress.substring(HornetQDestination.JMS_TEMP_QUEUE_ADDRESS_PREFIX.length());
        result[1] = "tempqueue";
    }
    else if (coreAddress.startsWith(HornetQDestination.JMS_TOPIC_ADDRESS_PREFIX))
    {
        result[0] = coreAddress.substring(HornetQDestination.JMS_TOPIC_ADDRESS_PREFIX.length());
        result[1] = "topic";
    }
    else if (coreAddress.startsWith(HornetQDestination.JMS_TEMP_TOPIC_ADDRESS_PREFIX))
    {
        result[0] = coreAddress.substring(HornetQDestination.JMS_TEMP_TOPIC_ADDRESS_PREFIX.length());
        result[1] = "temptopic";
    }
    else
    {
        HornetQMSServerLogger.LOGGER.debug("JMSServerControlImpl.determineJMSDestination()" +
coreAddress);
        // not related to JMS
        return null;
    }
    return result;
}

public static MBeanNotificationInfo[] getNotificationInfos()
{
    JMSNotificationType[] values = JMSNotificationType.values();
    String[] names = new String[values.length];
    for (int i = 0; i < values.length; i++)
    {
        names[i] = values[i].toString();
    }
    return new MBeanNotificationInfo[]{new MBeanNotificationInfo(names,
                                                                    JMSServerControl.class.getName(),
                                                                    "Notifications emitted by a JMS Server")};
}

// Constructors -----

```

```

public JMSServerControlImpl(final JMSServerManager server) throws Exception
{
    super(JMSServerControl.class, server.getHornetQServer().getStorageManager());
    this.server = server;
    broadcaster = new NotificationBroadcasterSupport();
    server.getHornetQServer().getManagementService().addNotificationListener(this);
}

// Public -----

// JMSServerControlMBean implementation -----

/**
 * See the interface definition for the javadoc.
 */
public void createConnectionFactory(String name,
                                   boolean ha,
                                   boolean useDiscovery,
                                   int cfType,
                                   String[] connectorNames,
                                   Object[] bindings) throws Exception
{
    checkStarted();

    clearIO();

    try
    {
        if (useDiscovery)
        {
            if (connectorNames == null || connectorNames.length == 0)
            {
                throw new IllegalArgumentException("no discovery group name supplied");
            }
            server.createConnectionFactory(name,
                                           ha,
                                           JMSFactoryType.valueOf(cfType),
                                           connectorNames[0],
                                           JMSServerControlImpl.convert(bindings));
        }
        else
        {
            List<String> connectorList = new ArrayList<String>(connectorNames.length);

            for (String str : connectorNames)
            {
                connectorList.add(str);
            }
        }
    }
}

```

```

server.createConnectionFactory(name,
    ha,
    JMSFactoryType.valueOf(cfType),
    connectorList,
    JMSServerControlImpl.convert(bindings));
}
}
finally
{
    blockOnIO();
}
}

```

@Override

```

public void createConnectionFactory(String name,
    boolean ha,
    boolean useDiscovery,
    int cfType,
    String connectors,
    String jndiBindings,
    String clientID,
    long clientFailureCheckPeriod,
    long connectionTTL,
    long callTimeout,
    long callFailoverTimeout,
    int minLargeMessageSize,
    boolean compressLargeMessages,
    int consumerWindowSize,
    int consumerMaxRate,
    int confirmationWindowSize,
    int producerWindowSize,
    int producerMaxRate,
    boolean blockOnAcknowledge,
    boolean blockOnDurableSend,
    boolean blockOnNonDurableSend,
    boolean autoGroup,
    boolean preAcknowledge,
    String loadBalancingPolicyClassName,
    int transactionBatchSize,
    int dupsOKBatchSize,
    boolean useGlobalPools,
    int scheduledThreadPoolMaxSize,
    int threadPoolMaxSize,
    long retryInterval,
    double retryIntervalMultiplier,
    long maxRetryInterval,
    int reconnectAttempts,

```

```

        boolean failoverOnInitialConnection,
        String groupId) throws Exception
    {
        createConnectionFactory(name,
            ha,
            useDiscovery,
            cfType,
            toArray(connectors),
            toArray(jndiBindings),
            clientID,
            clientFailureCheckPeriod,
            connectionTTL,
            callTimeout,
            callFailoverTimeout,
            minLargeMessageSize,
            compressLargeMessages,
            consumerWindowSize,
            consumerMaxRate,
            confirmationWindowSize,
            producerWindowSize,
            producerMaxRate,
            blockOnAcknowledge,
            blockOnDurableSend,
            blockOnNonDurableSend,
            autoGroup,
            preAcknowledge,
            loadBalancingPolicyClassName,
            transactionBatchSize,
            dupsOKBatchSize,
            useGlobalPools,
            scheduledThreadPoolMaxSize,
            threadPoolMaxSize,
            retryInterval,
            retryIntervalMultiplier,
            maxRetryInterval,
            reconnectAttempts,
            failoverOnInitialConnection,
            groupId);
    }

```

```

@Override
public void createConnectionFactory(String name,
    boolean ha,
    boolean useDiscovery,
    int cfType,
    String[] connectorNames,
    String[] bindings,
    String clientID,

```

```

        long clientFailureCheckPeriod,
        long connectionTTL,
        long callTimeout,
        long callFailoverTimeout,
        int minLargeMessageSize,
        boolean compressLargeMessages,
        int consumerWindowSize,
        int consumerMaxRate,
        int confirmationWindowSize,
        int producerWindowSize,
        int producerMaxRate,
        boolean blockOnAcknowledge,
        boolean blockOnDurableSend,
        boolean blockOnNonDurableSend,
        boolean autoGroup,
        boolean preAcknowledge,
        String loadBalancingPolicyClassName,
        int transactionBatchSize,
        int dupsOKBatchSize,
        boolean useGlobalPools,
        int scheduledThreadPoolMaxSize,
        int threadPoolMaxSize,
        long retryInterval,
        double retryIntervalMultiplier,
        long maxRetryInterval,
        int reconnectAttempts,
        boolean failoverOnInitialConnection,
        String groupId) throws Exception
    {
        checkStarted();

        clearIO();

        try
        {
            ConnectionFactoryConfiguration configuration = new ConnectionFactoryConfigurationImpl(name, ha,
bindings);

            if (useDiscovery)
            {
                configuration.setDiscoveryGroupName(connectorNames[0]);
            }
            else
            {
                ArrayList<String> connectorNamesList = new ArrayList<String>();
                for (String nameC : connectorNames)
                {
                    connectorNamesList.add(nameC);
                }
            }
        }
    }

```

```

    }
    configuration.setConnectorNames(connectorNamesList);
}

configuration.setFactoryType(JMSFactoryType.valueOf(cfType));
configuration.setClientID(clientID);
configuration.setClientFailureCheckPeriod(clientFailureCheckPeriod);
configuration.setConnectionTTL(connectionTTL);
configuration.setCallTimeout(callTimeout);
configuration.setCallFailoverTimeout(callFailoverTimeout);
configuration.setMinLargeMessageSize(minLargeMessageSize);
configuration.setCompressLargeMessages(compressLargeMessages);
configuration.setConsumerWindowSize(consumerWindowSize);
configuration.setConsumerMaxRate(consumerMaxRate);
configuration.setConfirmationWindowSize(confirmationWindowSize);
configuration.setProducerWindowSize(producerWindowSize);
configuration.setProducerMaxRate(producerMaxRate);
configuration.setBlockOnAcknowledge(blockOnAcknowledge);
configuration.setBlockOnDurableSend(blockOnDurableSend);
configuration.setBlockOnNonDurableSend(blockOnNonDurableSend);
configuration.setAutoGroup(autoGroup);
configuration.setPreAcknowledge(preAcknowledge);

if (loadBalancingPolicyClassName == null || loadBalancingPolicyClassName.trim().equals(""))
{
    loadBalancingPolicyClassName =
HornetQClient.DEFAULT_CONNECTION_LOAD_BALANCING_POLICY_CLASS_NAME;
}

configuration.setLoadBalancingPolicyClassName(loadBalancingPolicyClassName);
configuration.setTransactionBatchSize(transactionBatchSize);
configuration.setDupsOKBatchSize(dupsOKBatchSize);
configuration.setUseGlobalPools(useGlobalPools);
configuration.setScheduledThreadPoolMaxSize(scheduledThreadPoolMaxSize);
configuration.setThreadPoolMaxSize(threadPoolMaxSize);
configuration.setRetryInterval(retryInterval);
configuration.setRetryIntervalMultiplier(retryIntervalMultiplier);
configuration.setMaxRetryInterval(maxRetryInterval);
configuration.setReconnectAttempts(reconnectAttempts);
configuration.setFailoverOnInitialConnection(failoverOnInitialConnection);
configuration.setGroupID(groupId);

server.createConnectionFactory(true, configuration, bindings);
}
finally
{
    blockOnIO();
}

```

```

}

/**
 * Create a JMS ConnectionFactory with the specified name connected to a single live-backup pair of servers.
 * <br>
 * The ConnectionFactory is bound to JNDI for all the specified bindings Strings.
 */
public void createConnectionFactory(String name,
                                   boolean ha,
                                   boolean useDiscovery,
                                   int cfType,
                                   String connectors,
                                   String jndiBindings) throws Exception
{
    createConnectionFactory(name, ha, useDiscovery, cfType, toArray(connectors), toArray(jndiBindings));
}

public boolean createQueue(final String name) throws Exception
{
    return createQueue(name, null, null, true);
}

public boolean createQueue(final String name, final String jndiBindings) throws Exception
{
    return createQueue(name, jndiBindings, null, true);
}

@Override
public boolean createQueue(String name, String jndiBindings, String selector) throws Exception
{
    return createQueue(name, jndiBindings, selector, true);
}

public boolean createQueue(@Parameter(name = "name", desc = "Name of the queue to create") String name,
                           @Parameter(name = "jndiBindings", desc = "comma-separated list of JNDI bindings (use
'&comma;' if u need to use commas in your jndi name)") String jndiBindings,
                           @Parameter(name = "selector", desc = "the jms selector") String selector,
                           @Parameter(name = "durable", desc = "is the queue persistent and resilient to restart") boolean
durable) throws Exception
{
    checkStarted();

    clearIO();

    try
    {
        return server.createQueue(true, name, selector, durable,
                                  JMSServerControlImpl.toArray(jndiBindings));
    }
}

```

```

    }
    finally
    {
        blockOnIO();
    }
}

public boolean destroyQueue(final String name) throws Exception
{
    return destroyQueue(name, false);
}

public boolean destroyQueue(final String name, final boolean removeConsumers) throws Exception
{
    checkStarted();

    clearIO();

    try
    {
        return server.destroyQueue(name, removeConsumers);
    }
    finally
    {
        blockOnIO();
    }
}

public boolean createTopic(String name) throws Exception
{
    return createTopic(name, null);
}

public boolean createTopic(final String topicName, final String jndiBindings) throws Exception
{
    checkStarted();

    clearIO();

    try
    {
        return server.createTopic(true, topicName, JMSServerControlImpl.toArray(jndiBindings));
    }
    finally
    {
        blockOnIO();
    }
}

```

```
public boolean destroyTopic(final String name) throws Exception
{
    return destroyTopic(name, true);
}
```

```
public boolean destroyTopic(final String name, final boolean removeConsumers) throws Exception
{
    checkStarted();

    clearIO();

    try
    {
        return server.destroyTopic(name, removeConsumers);
    }
    finally
    {
        blockOnIO();
    }
}
```

```
public void destroyConnectionFactory(final String name) throws Exception
{
    checkStarted();

    clearIO();

    try
    {
        server.destroyConnectionFactory(name);
    }
    finally
    {
        blockOnIO();
    }
}
```

```
public boolean isStarted()
{
    return server.isStarted();
}
```

```
public String getVersion()
{
    checkStarted();
}
```

```

    return server.getVersion();
}

public String[] getQueueNames()
{
    checkStarted();

    clearIO();

    try
    {
        Object[] queueControls =
server.getHornetQServer().getManagementService().getResources(JMSQueueControl.class);
        String[] names = new String[queueControls.length];
        for (int i = 0; i < queueControls.length; i++)
        {
            JMSQueueControl queueControl = (JMSQueueControl) queueControls[i];
            names[i] = queueControl.getName();
        }
        return names;
    }
    finally
    {
        blockOnIO();
    }
}

public String[] getTopicNames()
{
    checkStarted();

    clearIO();

    try
    {
        Object[] topicControls =
server.getHornetQServer().getManagementService().getResources(TopicControl.class);
        String[] names = new String[topicControls.length];
        for (int i = 0; i < topicControls.length; i++)
        {
            TopicControl topicControl = (TopicControl) topicControls[i];
            names[i] = topicControl.getName();
        }
        return names;
    }
    finally
    {
        blockOnIO();
    }
}

```

```

    }
}

public String[] getConnectionFactoryNames()
{
    checkStarted();

    clearIO();

    try
    {
        Object[] cfControls = server.getHornetQServer()
            .getManagementService()
            .getResources(ConnectionFactoryControl.class);
        String[] names = new String[cfControls.length];
        for (int i = 0; i < cfControls.length; i++)
        {
            ConnectionFactoryControl cfControl = (ConnectionFactoryControl) cfControls[i];
            names[i] = cfControl.getName();
        }
        return names;
    }
    finally
    {
        blockOnIO();
    }
}

// NotificationEmitter implementation -----

public void removeNotificationListener(final NotificationListener listener,
                                     final NotificationFilter filter,
                                     final Object handback) throws ListenerNotFoundException
{
    broadcaster.removeNotificationListener(listener, filter, handback);
}

public void removeNotificationListener(final NotificationListener listener) throws ListenerNotFoundException
{
    broadcaster.removeNotificationListener(listener);
}

public void addNotificationListener(final NotificationListener listener,
                                   final NotificationFilter filter,
                                   final Object handback) throws IllegalArgumentException
{
    broadcaster.addNotificationListener(listener, filter, handback);
}

```

```

public MBeanNotificationInfo[] getNotificationInfo()
{
    return JMSServerControlImpl.getNotificationInfos();
}

public String[] listRemoteAddresses() throws Exception
{
    checkStarted();

    clearIO();

    try
    {
        return server.listRemoteAddresses();
    }
    finally
    {
        blockOnIO();
    }
}

public String[] listRemoteAddresses(final String ipAddress) throws Exception
{
    checkStarted();

    clearIO();

    try
    {
        return server.listRemoteAddresses(ipAddress);
    }
    finally
    {
        blockOnIO();
    }
}

public boolean closeConnectionsForAddress(final String ipAddress) throws Exception
{
    checkStarted();

    clearIO();

    try
    {
        return server.closeConnectionsForAddress(ipAddress);
    }
}

```

```

    finally
    {
        blockOnIO();
    }
}

public boolean closeConsumerConnectionsForAddress(final String address) throws Exception
{
    checkStarted();

    clearIO();

    try
    {
        return server.closeConsumerConnectionsForAddress(address);
    }
    finally
    {
        blockOnIO();
    }
}

public boolean closeConnectionsForUser(final String userName) throws Exception
{
    checkStarted();

    clearIO();

    try
    {
        return server.closeConnectionsForUser(userName);
    }
    finally
    {
        blockOnIO();
    }
}

public String[] listConnectionIDs() throws Exception
{
    checkStarted();

    clearIO();

    try
    {
        return server.listConnectionIDs();
    }
}

```

```

finally
{
    blockOnIO();
}
}

public String listConnectionsAsJSON() throws Exception
{
    checkStarted();

    clearIO();

    try
    {
        JSONArray array = new JSONArray();

        Set<RemotingConnection> connections = server.getHornetQServer().getRemotingService().getConnections();

        Set<ServerSession> sessions = server.getHornetQServer().getSessions();

        Map<Object, ServerSession> jmsSessions = new HashMap<Object, ServerSession>();

        for (ServerSession session : sessions)
        {
            if (session.getMetaData("jms-session") != null)
            {
                jmsSessions.put(session.getConnectionID(), session);
            }
        }

        for (RemotingConnection connection : connections)
        {
            ServerSession session = jmsSessions.get(connection.getID());
            if (session != null)
            {
                JSONObject obj = new JSONObject();
                obj.put("connectionID", connection.getID().toString());
                obj.put("clientAddress", connection.getRemoteAddress());
                obj.put("creationTime", connection.getCreationTime());
                obj.put("clientID", session.getMetaData("jms-client-id"));
                obj.put("principal", session.getUsername());
                array.put(obj);
            }
        }
        return array.toString();
    }
    finally
    {

```

```

        blockOnIO();
    }
}

public String listConsumersAsJSON(String connectionID) throws Exception
{
    checkStarted();

    clearIO();

    try
    {
        JSONArray array = new JSONArray();

        Set<RemotingConnection> connections = server.getHornetQServer().getRemotingService().getConnections();
        for (RemotingConnection connection : connections)
        {
            if (connectionID.equals(connection.getID().toString()))
            {
                List<ServerSession> sessions = server.getHornetQServer().getSessions(connectionID);
                for (ServerSession session : sessions)
                {
                    Set<ServerConsumer> consumers = session.getServerConsumers();
                    for (ServerConsumer consumer : consumers)
                    {
                        JSONObject obj = toJSONObject(consumer);
                        if (obj != null)
                        {
                            array.put(obj);
                        }
                    }
                }
            }
        }
        return array.toString();
    }
    finally
    {
        blockOnIO();
    }
}

public String listAllConsumersAsJSON() throws Exception
{
    checkStarted();

    clearIO();
}

```

```

try
{
    JSONArray array = new JSONArray();

    Set<ServerSession> sessions = server.getHornetQServer().getSessions();
    for (ServerSession session : sessions)
    {
        Set<ServerConsumer> consumers = session.getServerConsumers();
        for (ServerConsumer consumer : consumers)
        {
            JSONObject obj = toJSONObject(consumer);
            if (obj != null)
            {
                array.put(obj);
            }
        }
    }
    return array.toString();
}
finally
{
    blockOnIO();
}
}

```

```

public String[] listSessions(final String connectionID) throws Exception
{
    checkStarted();

    clearIO();

    try
    {
        return server.listSessions(connectionID);
    }
    finally
    {
        blockOnIO();
    }
}

```

```

public String listPreparedTransactionDetailsAsJSON() throws Exception
{
    checkStarted();

    clearIO();

    try

```

```

    {
        return server.listPreparedTransactionDetailsAsJSON();
    }
    finally
    {
        blockOnIO();
    }
}

public String listPreparedTransactionDetailsAsHTML() throws Exception
{
    checkStarted();

    clearIO();

    try
    {
        return server.listPreparedTransactionDetailsAsHTML();
    }
    finally
    {
        blockOnIO();
    }
}

// Package protected -----

// Protected -----
/* (non-Javadoc)
 * @see org.hornetq.core.management.impl.AbstractControl#fillMBeanOperationInfo()
 */
@Override
protected MBeanOperationInfo[] fillMBeanOperationInfo()
{
    return MBeanInfoHelper.getMBeanOperationsInfo(JMSServerControl.class);
}

// Private -----

private void checkStarted()
{
    if (!server.isStarted())
    {
        throw new IllegalStateException("HornetQ JMS Server is not started. it can not be managed yet");
    }
}

// Inner classes -----

```

```

public String[] listTargetDestinations(String sessionID) throws Exception
{
    String[] addresses = server.getHornetQServer().getHornetQServerControl().listTargetAddresses(sessionID);
    Map<String, DestinationControl> allDests = new HashMap<String, DestinationControl>();

    Object[] queueControls =
server.getHornetQServer().getManagementService().getResources(JMSQueueControl.class);
    for (Object queueControl2 : queueControls)
    {
        JMSQueueControl queueControl = (JMSQueueControl) queueControl2;
        allDests.put(queueControl.getAddress(), queueControl);
    }

    Object[] topicControls = server.getHornetQServer().getManagementService().getResources(TopicControl.class);
    for (Object topicControl2 : topicControls)
    {
        TopicControl topicControl = (TopicControl) topicControl2;
        allDests.put(topicControl.getAddress(), topicControl);
    }

    List<String> destinations = new ArrayList<String>();
    for (String adresse : addresses)
    {
        DestinationControl control = allDests.get(adresse);
        if (control != null)
        {
            destinations.add(control.getAddress());
        }
    }
    return destinations.toArray(new String[0]);
}

public String getLastSentMessageID(String sessionID, String address) throws Exception
{
    ServerSession session = server.getHornetQServer().getSessionByID(sessionID);
    if (session != null)
    {
        return session.getLastSentMessageID(address);
    }
    return null;
}

public String getSessionCreationTime(String sessionID) throws Exception
{
    ServerSession session = server.getHornetQServer().getSessionByID(sessionID);
    if (session != null)
    {

```

```

        return String.valueOf(session.getCreationTime());
    }
    return null;
}

public String listSessionsAsJSON(final String connectionID) throws Exception
{
    checkStarted();

    clearIO();

    JSONArray array = new JSONArray();
    try
    {
        List<ServerSession> sessions = server.getHornetQServer().getSessions(connectionID);
        for (ServerSession sess : sessions)
        {
            JSONObject obj = new JSONObject();
            obj.put("sessionID", sess.getName());
            obj.put("creationTime", sess.getCreationTime());
            array.put(obj);
        }
    }
    finally
    {
        blockOnIO();
    }
    return array.toString();
}

public String closeConnectionWithClientID(final String clientID) throws Exception
{
    return server.getHornetQServer().destroyConnectionWithSessionMetadata("jms-client-id", clientID);
}

private JSONObject toJSONObject(ServerConsumer consumer) throws Exception
{
    JSONObject obj = new JSONObject();
    obj.put("consumerID", consumer.getID());
    obj.put("connectionID", consumer.getConnectionID());
    obj.put("sessionID", consumer.getSessionID());
    obj.put("queueName", consumer.getQueue().getName().toString());
    obj.put("browseOnly", consumer.isBrowseOnly());
    obj.put("creationTime", consumer.getCreationTime());
    // JMS consumer with message filter use the queue's filter
    Filter queueFilter = consumer.getQueue().getFilter();
    if (queueFilter != null)
    {

```

```

    obj.put("filter", queueFilter.getFilterString().toString());
}
String[] destinationInfo = determineJMSDestination(consumer.getQueue().getAddress().toString());
if (destinationInfo == null)
{
    return null;
}
obj.put("destinationName", destinationInfo[0]);
obj.put("destinationType", destinationInfo[1]);
if (destinationInfo[1].equals("topic"))
{
    try
    {
HornetQDestination.decomposeQueueNameForDurableSubscription(consumer.getQueue().getName().toString());
        obj.put("durable", true);
    }
    catch (IllegalArgumentException e)
    {
        obj.put("durable", false);
    }
    catch (JMSRuntimeException e)
    {
        obj.put("durable", false);
    }
}
else
{
    obj.put("durable", false);
}

return obj;
}

@Override
public void onNotification(org.hornetq.core.server.management.Notification notification)
{
    if (!(notification.getType() instanceof JMSNotificationType)) return;
    JMSNotificationType type = (JMSNotificationType) notification.getType();
    TypedProperties prop = notification.getProperties();

    this.broadcaster.sendNotification(new Notification(type.toString(), this,
        notifSeq.incrementAndGet(), prop.getSimpleStringProperty(JMSNotificationType.MESSAGE).toString()));
}

}
/*
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```

```

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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. See the License for the specific language governing
* permissions and limitations under the License.
*/
package org.hornetq.jms.bridge.impl;

```

```
import javax.management.StandardMBean;
```

```
import org.hornetq.jms.bridge.JMSBridge;
import org.hornetq.jms.bridge.JMSBridgeControl;
import org.hornetq.jms.bridge.QualityOfServiceMode;
```

```
/**
```

```
 * A JMSBridgeControlImpl
```

```
 *
```

```
 * @author <a href="mailto:jose@voxeo.com">Jose de Castro</a>
```

```
 *
```

```
 */
```

```
public class JMSBridgeControlImpl extends StandardMBean implements JMSBridgeControl
{
```

```
    private final JMSBridge bridge;
```

```
    // Constructors -----
```

```
    public JMSBridgeControlImpl(final JMSBridge bridge) throws Exception
    {
        super(JMSBridgeControl.class);
        this.bridge = bridge;
    }

```

```
    // Public -----
```

```
    public void pause() throws Exception
    {
        bridge.pause();
    }

```

```
    public void resume() throws Exception
    {
        bridge.resume();
    }

```

```

public boolean isStarted()
{
    return bridge.isStarted();
}

public void start() throws Exception
{
    bridge.start();
}

public void stop() throws Exception
{
    bridge.stop();
}

public String getClientID()
{
    return bridge.getClientID();
}

public long getFailureRetryInterval()
{
    return bridge.getFailureRetryInterval();
}

public int getMaxBatchSize()
{
    return bridge.getMaxBatchSize();
}

public long getMaxBatchTime()
{
    return bridge.getMaxBatchTime();
}

public int getMaxRetries()
{
    return bridge.getMaxRetries();
}

public String getQualityOfServiceMode()
{
    QualityOfServiceMode mode = bridge.getQualityOfServiceMode();
    if (mode != null)
    {
        return mode.name();
    }
    else

```

```

    {
        return null;
    }
}

public String getSelector()
{
    return bridge.getSelector();
}

public String getSourcePassword()
{
    return bridge.getSourcePassword();
}

public String getSourceUsername()
{
    return bridge.getSourceUsername();
}

public String getSubscriptionName()
{
    return bridge.getSubscriptionName();
}

public String getTargetPassword()
{
    return bridge.getTargetPassword();
}

public String getTargetUsername()
{
    return bridge.getTargetUsername();
}

public String getTransactionManagerLocatorClass()
{
    return bridge.getTransactionManagerLocatorClass();
}

public String getTransactionManagerLocatorMethod()
{
    return bridge.getTransactionManagerLocatorMethod();
}

public boolean isAddMessageIDInHeader()
{
    return bridge.isAddMessageIDInHeader();
}

```

```

}

public boolean isFailed()
{
    return bridge.isFailed();
}

public boolean isPaused()
{
    return bridge.isPaused();
}

public void setAddMessageIDInHeader(final boolean value)
{
    bridge.setAddMessageIDInHeader(value);
}

public void setClientID(final String clientID)
{
    bridge.setClientID(clientID);
}

public void setFailureRetryInterval(final long interval)
{
    bridge.setFailureRetryInterval(interval);
}

public void setMaxBatchSize(final int size)
{
    bridge.setMaxBatchSize(size);
}

public void setMaxBatchTime(final long time)
{
    bridge.setMaxBatchTime(time);
}

public void setMaxRetries(final int retries)
{
    bridge.setMaxRetries(retries);
}

public void setQualityOfServiceMode(String mode)
{
    if (mode != null)
    {
        bridge.setQualityOfServiceMode(QualityOfServiceMode.valueOf(mode));
    }
}

```

```

else
{
    mode = null;
}
}

public void setSelector(final String selector)
{
    bridge.setSelector(selector);
}

public void setSourcePassword(final String pwd)
{
    bridge.setSourcePassword(pwd);
}

public void setSourceUsername(final String name)
{
    bridge.setSourceUsername(name);
}

public void setSubscriptionName(final String subname)
{
    bridge.setSubscriptionName(subname);
}

public void setTargetPassword(final String pwd)
{
    bridge.setTargetPassword(pwd);
}

public void setTargetUsername(final String name)
{
    bridge.setTargetUsername(name);
}

public void setTransactionManagerLocatorClass(final String transactionManagerLocatorClass)
{
    bridge.setTransactionManagerLocatorClass(transactionManagerLocatorClass);
}

public void setTransactionManagerLocatorMethod(final String transactionManagerLocatorMethod)
{
    bridge.setTransactionManagerLocatorMethod(transactionManagerLocatorMethod);
}

// Constants -----

```

```

// Attributes -----

// Static -----

// Package protected -----

// Protected -----

// Private -----

// Inner classes -----

}
/*
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 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
 * implied.  See the License for the specific language governing
 * permissions and limitations under the License.
 */
package org.hornetq.jms.bridge.impl;

import javax.jms.Connection;
import javax.jms.ConnectionFactory;
import javax.jms.Destination;
import javax.jms.ExceptionListener;
import javax.jms.JMSException;
import javax.jms.Message;
import javax.jms.MessageConsumer;
import javax.jms.MessageProducer;
import javax.jms.Session;
import javax.jms.Topic;
import javax.jms.XAConnection;
import javax.jms.XAConnectionFactory;
import javax.jms.XASession;
import javax.management.MBeanServer;
import javax.management.ObjectName;
import javax.management.StandardMBean;
import javax.transaction.Transaction;
import javax.transaction.TransactionManager;
import javax.transaction.TransactionRolledbackException;
import javax.transaction.xa.XAResource;
import java.lang.reflect.Method;

```

```

import java.security.AccessController;
import java.security.PrivilegedAction;
import java.util.Enumeration;
import java.util.HashMap;
import java.util.Iterator;
import java.util.LinkedList;
import java.util.Map;
import java.util.Map.Entry;
import java.util.concurrent.ExecutorService;
import java.util.concurrent.Executors;
import java.util.concurrent.TimeUnit;

import org.hornetq.api.core.HornetQException;
import org.hornetq.api.core.HornetQInterruptedException;
import org.hornetq.api.core.client.FailoverEventListener;
import org.hornetq.api.core.client.FailoverEventType;
import org.hornetq.api.jms.HornetQJMSConstants;
import org.hornetq.jms.bridge.ConnectionFactoryFactory;
import org.hornetq.jms.bridge.DestinationFactory;
import org.hornetq.jms.bridge.JMSBridge;
import org.hornetq.jms.bridge.JMSBridgeControl;
import org.hornetq.jms.bridge.QualityOfServiceMode;
import org.hornetq.jms.client.HornetQConnection;
import org.hornetq.jms.client.HornetQConnectionFactory;
import org.hornetq.jms.client.HornetQMessage;
import org.hornetq.jms.server.HornetQJMSServerBundle;
import org.hornetq.jms.server.HornetQJMSServerLogger;
import org.hornetq.jms.server.recovery.HornetQRegistryBase;
import org.hornetq.jms.server.recovery.XARecoveryConfig;
import org.hornetq.utils.ClassloadingUtil;
import org.hornetq.utils.DefaultSensitiveStringCodec;
import org.hornetq.utils.PasswordMaskingUtil;
import org.hornetq.utils.SensitiveDataCodec;

/**
 * A JMSBridge
 *
 * @author <a href="mailto:tim.fox@jboss.com">Tim Fox</a>
 * @version <tt>$Revision:4566 $</tt>
 */
public final class JMSBridgeImpl implements JMSBridge
{
    private static final String[] RESOURCE_RECOVERY_CLASS_NAMES = new
String[]{"org.jboss.as.messaging.jms.AS7RecoveryRegistry"};

    private static boolean trace = HornetQJMSServerLogger.LOGGER.isTraceEnabled();

    private static final int TEN_YEARS = 60 * 60 * 24 * 365 * 10; // in ms

```

```
private static final long DEFAULT_FAILOVER_TIMEOUT = 60 * 1000;

private final Object lock = new Object();

private String sourceUsername;

private String sourcePassword;

private String targetUsername;

private String targetPassword;

private TransactionManager tm;

private String selector;

private long failureRetryInterval;

private int maxRetries;

private QualityOfServiceMode qualityOfServiceMode;

private int maxBatchSize;

private long maxBatchTime;

private String subName;

private String clientID;

private volatile boolean addMessageIDInHeader;

private boolean started;

private final Object stoppingGuard = new Object();
private boolean stopping = false;

private final LinkedList<Message> messages;

private ConnectionFactoryFactory sourceCff;

private ConnectionFactoryFactory targetCff;

private DestinationFactory sourceDestinationFactory;

private DestinationFactory targetDestinationFactory;
```

```
private Connection sourceConn;

private Connection targetConn;

private Destination sourceDestination;

private Destination targetDestination;

private Session sourceSession;

private Session targetSession;

private MessageConsumer sourceConsumer;

private MessageProducer targetProducer;

private BatchTimeChecker timeChecker;

private ExecutorService executor;

private long batchExpiryTime;

private boolean paused;

private Transaction tx;

private boolean failed;

private boolean connectedSource = false;

private boolean connectedTarget = false;

private int forwardMode;

private String transactionManagerLocatorClass =
"org.hornetq.integration.jboss.tm.JBoss5TransactionManagerLocator";

private String transactionManagerLocatorMethod = "getTm";

private MBeanServer mbeanServer;

private ObjectName objectName;

private boolean useMaskedPassword = false;

private String passwordCodec;

private long failoverTimeout;
```

```

private static final int FORWARD_MODE_XA = 0;

private static final int FORWARD_MODE_LOCALTX = 1;

private static final int FORWARD_MODE_NONTX = 2;

private HornetQRegistryBase registry;

/*
 * Constructor for MBean
 */
public JMSBridgeImpl()
{
    messages = new LinkedList<Message>();
    executor = createExecutor();
}

public JMSBridgeImpl(final ConnectionFactoryFactory sourceCff,
                    final ConnectionFactoryFactory targetCff,
                    final DestinationFactory sourceDestinationFactory,
                    final DestinationFactory targetDestinationFactory,
                    final String sourceUsername,
                    final String sourcePassword,
                    final String targetUsername,
                    final String targetPassword,
                    final String selector,
                    final long failureRetryInterval,
                    final int maxRetries,
                    final QualityOfServiceMode qosMode,
                    final int maxBatchSize,
                    final long maxBatchTime,
                    final String subName,
                    final String clientID,
                    final boolean addMessageIDInHeader)
{

    this(sourceCff,
        targetCff,
        sourceDestinationFactory,
        targetDestinationFactory,
        sourceUsername,
        sourcePassword,
        targetUsername,
        targetPassword,
        selector,
        failureRetryInterval,
        maxRetries,

```

```

    qosMode,
    maxBatchSize,
    maxBatchTime,
    subName,
    clientID,
    addMessageIDInHeader,
    null,
    null);
}

public JMSBridgeImpl(final ConnectionFactoryFactory sourceCff,
    final ConnectionFactoryFactory targetCff,
    final DestinationFactory sourceDestinationFactory,
    final DestinationFactory targetDestinationFactory,
    final String sourceUsername,
    final String sourcePassword,
    final String targetUsername,
    final String targetPassword,
    final String selector,
    final long failureRetryInterval,
    final int maxRetries,
    final QualityOfServiceMode qosMode,
    final int maxBatchSize,
    final long maxBatchTime,
    final String subName,
    final String clientID,
    final boolean addMessageIDInHeader,
    final MBeanServer mbeanServer,
    final String objectName)
{
    this(sourceCff,
        targetCff,
        sourceDestinationFactory,
        targetDestinationFactory,
        sourceUsername,
        sourcePassword,
        targetUsername,
        targetPassword,
        selector,
        failureRetryInterval,
        maxRetries,
        qosMode,
        maxBatchSize,
        maxBatchTime,
        subName,
        clientID,
        addMessageIDInHeader,
        mbeanServer,

```

```

        objectName,
        DEFAULT_FAILOVER_TIMEOUT);
    }

public JMSBridgeImpl(final ConnectionFactoryFactory sourceCff,
                    final ConnectionFactoryFactory targetCff,
                    final DestinationFactory sourceDestinationFactory,
                    final DestinationFactory targetDestinationFactory,
                    final String sourceUsername,
                    final String sourcePassword,
                    final String targetUsername,
                    final String targetPassword,
                    final String selector,
                    final long failureRetryInterval,
                    final int maxRetries,
                    final QualityOfServiceMode qosMode,
                    final int maxBatchSize,
                    final long maxBatchTime,
                    final String subName,
                    final String clientID,
                    final boolean addMessageIDInHeader,
                    final MBeanServer mbeanServer,
                    final String objectName,
                    final long failoverTimeout)
{
    this();

    this.sourceCff = sourceCff;

    this.targetCff = targetCff;

    this.sourceDestinationFactory = sourceDestinationFactory;

    this.targetDestinationFactory = targetDestinationFactory;

    this.sourceUsername = sourceUsername;

    this.sourcePassword = sourcePassword;

    this.targetUsername = targetUsername;

    this.targetPassword = targetPassword;

    this.selector = selector;

    this.failureRetryInterval = failureRetryInterval;

    this.maxRetries = maxRetries;

```

```

qualityOfServiceMode = qosMode;

this.maxBatchSize = maxBatchSize;

this.maxBatchTime = maxBatchTime;

this.subName = subName;

this.clientID = clientID;

this.addMessageIDInHeader = addMessageIDInHeader;

this.failoverTimeout = failoverTimeout;

checkParams();

if (mbeanServer != null)
{
    if (objectName != null)
    {
        this.mbeanServer = mbeanServer;

        try
        {
            JMSBridgeControlImpl controlBean = new JMSBridgeControlImpl(this);
            this.objectName = ObjectName.getInstance(objectName);
            StandardMBean mbean = new StandardMBean(controlBean, JMSBridgeControl.class);
            mbeanServer.registerMBean(mbean, this.objectName);
            HornetQJMSServerLogger.LOGGER.debug("Registered JMSBridge instance as: " +
this.objectName.getCanonicalName());
        }
        catch (Exception e)
        {
            throw new IllegalStateException("Failed to register JMSBridge MBean", e);
        }
    }
    else
    {
        throw new IllegalArgumentException("objectName is required when specifying an MBeanServer");
    }
}

if (JMSBridgeImpl.trace)
{
    HornetQJMSServerLogger.LOGGER.trace("Created " + this);
}
}

```

```

// HornetQComponent overrides -----

public synchronized void start() throws Exception
{
    synchronized (stoppingGuard)
    {
        stopping = false;
    }

    locateRecoveryRegistry();

    if (started)
    {
        HornetQJMSServerLogger.LOGGER.errorBridgeAlreadyStarted();
        return;
    }

    if (JMSBridgeImpl.trace)
    {
        HornetQJMSServerLogger.LOGGER.trace("Starting " + this);
    }

    // bridge has been stopped and is restarted
    if (executor.isShutdown())
    {
        executor = createExecutor();
    }

    initPasswords();

    checkParams();

    TransactionManager tm = getTm();

    // There may already be a JTA transaction associated to the thread

    boolean ok;

    Transaction toResume = null;
    try
    {
        toResume = tm.suspend();

        ok = setupJMSObjects();
    }
    finally
    {

```

```

    if (toResume != null)
    {
        tm.resume(toResume);
    }
}

if (ok)
{
    connectedSource = true;
    connectedTarget = true;
    startSource();
}
else
{
    HornetQJMSServerLogger.LOGGER.errorStartingBridge();
    handleFailureOnStartup();
}

}

private void startSource() throws JMSEException
{
    // start the source connection

    sourceConn.start();

    started = true;

    if (maxBatchTime != -1)
    {
        if (JMSBridgeImpl.trace)
        {
            HornetQJMSServerLogger.LOGGER.trace("Starting time checker thread");
        }

        timeChecker = new BatchTimeChecker();

        executor.execute(timeChecker);
        batchExpiryTime = System.currentTimeMillis() + maxBatchTime;

        if (JMSBridgeImpl.trace)
        {
            HornetQJMSServerLogger.LOGGER.trace("Started time checker thread");
        }
    }

    executor.execute(new SourceReceiver());
}

```

```

    if (JMSBridgeImpl.trace)
    {
        HornetQJMSServerLogger.LOGGER.trace("Started " + this);
    }
}

private void initPasswords() throws HornetQException
{
    if (useMaskedPassword)
    {
        SensitiveDataCodec<String> codecInstance = new DefaultSensitiveStringCodec();

        if (passwordCodec != null)
        {
            codecInstance = PasswordMaskingUtil.getCodec(passwordCodec);
        }

        try
        {
            if (this.sourcePassword != null)
            {
                sourcePassword = codecInstance.decode(sourcePassword);
            }

            if (this.targetPassword != null)
            {
                targetPassword = codecInstance.decode(targetPassword);
            }
        }
        catch (Exception e)
        {
            throw HornetQJMSServerBundle.BUNDLE.errorDecodingPassword(e);
        }
    }
}

public void stop() throws Exception
{
    synchronized (stoppingGuard)
    {
        if (stopping) return;
        stopping = true;
    }

    synchronized (this)
    {
        if (JMSBridgeImpl.trace)

```

```

{
    HornetQJMSServerLogger.LOGGER.trace("Stopping " + this);
}
if (!connectedSource && sourceConn != null)
{
    sourceConn.close();
}
if (!connectedTarget && targetConn != null)
{
    targetConn.close();
}
synchronized (lock)
{
    started = false;

    executor.shutdownNow();
}

boolean ok = executor.awaitTermination(60, TimeUnit.SECONDS);

if (!ok)
{
    throw new Exception("fail to stop JMS Bridge");
}

if (tx != null)
{
    // Terminate any transaction
    if (JMSBridgeImpl.trace)
    {
        HornetQJMSServerLogger.LOGGER.trace("Rolling back remaining tx");
    }

    try
    {
        tx.rollback();
    }
    catch (Exception ignore)
    {
        if (JMSBridgeImpl.trace)
        {
            HornetQJMSServerLogger.LOGGER.trace("Failed to rollback", ignore);
        }
    }

    if (JMSBridgeImpl.trace)
    {
        HornetQJMSServerLogger.LOGGER.trace("Rolled back remaining tx");
    }
}

```

```

    }
}

try
{
    sourceConn.close();
}
catch (Exception ignore)
{
    if (JMSBridgeImpl.trace)
    {
        HornetQJMSServerLogger.LOGGER.trace("Failed to close source conn", ignore);
    }
}

if (targetConn != null)
{
    try
    {
        targetConn.close();
    }
    catch (Exception ignore)
    {
        if (JMSBridgeImpl.trace)
        {
            HornetQJMSServerLogger.LOGGER.trace("Failed to close target conn", ignore);
        }
    }
}

if (JMSBridgeImpl.trace)
{
    HornetQJMSServerLogger.LOGGER.trace("Stopped " + this);
}
}

public synchronized boolean isStarted()
{
    return started;
}

public void destroy()
{
    if (mbeanServer != null && objectName != null)
    {
        try
        {

```

```

        mbeanServer.unregisterMBean(objectName);
    }
    catch (Exception e)
    {
        HornetQJMSServerLogger.LOGGER.errorUnregisteringBridge(objectName);
    }
}

// JMSBridge implementation -----

public synchronized void pause() throws Exception
{
    if (JMSBridgeImpl.trace)
    {
        HornetQJMSServerLogger.LOGGER.trace("Pausing " + this);
    }

    synchronized (lock)
    {
        paused = true;

        sourceConn.stop();
    }

    if (JMSBridgeImpl.trace)
    {
        HornetQJMSServerLogger.LOGGER.trace("Paused " + this);
    }
}

public synchronized void resume() throws Exception
{
    if (JMSBridgeImpl.trace)
    {
        HornetQJMSServerLogger.LOGGER.trace("Resuming " + this);
    }

    synchronized (lock)
    {
        paused = false;

        sourceConn.start();
    }

    if (JMSBridgeImpl.trace)
    {
        HornetQJMSServerLogger.LOGGER.trace("Resumed " + this);
    }
}

```

```

    }
}

public DestinationFactory getSourceDestinationFactory()
{
    return sourceDestinationFactory;
}

public void setSourceDestinationFactory(final DestinationFactory dest)
{
    checkBridgeNotStarted();
    JMSBridgeImpl.checkNotNull(dest, "TargetDestinationFactory");

    sourceDestinationFactory = dest;
}

public DestinationFactory getTargetDestinationFactory()
{
    return targetDestinationFactory;
}

public void setTargetDestinationFactory(final DestinationFactory dest)
{
    checkBridgeNotStarted();
    JMSBridgeImpl.checkNotNull(dest, "TargetDestinationFactory");

    targetDestinationFactory = dest;
}

public synchronized String getSourceUsername()
{
    return sourceUsername;
}

public synchronized void setSourceUsername(final String name)
{
    checkBridgeNotStarted();

    sourceUsername = name;
}

public synchronized String getSourcePassword()
{
    return sourcePassword;
}

public synchronized void setSourcePassword(final String pwd)
{

```

```

        checkBridgeNotStarted();

        sourcePassword = pwd;
    }

    public synchronized String getTargetUsername()
    {
        return targetUsername;
    }

    public synchronized void setTargetUsername(final String name)
    {
        checkBridgeNotStarted();

        targetUsername = name;
    }

    public synchronized String getTargetPassword()
    {
        return targetPassword;
    }

    public synchronized void setTargetPassword(final String pwd)
    {
        checkBridgeNotStarted();

        targetPassword = pwd;
    }

    public synchronized String getSelector()
    {
        return selector;
    }

    public synchronized void setSelector(final String selector)
    {
        checkBridgeNotStarted();

        this.selector = selector;
    }

    public synchronized long getFailureRetryInterval()
    {
        return failureRetryInterval;
    }

    public synchronized void setFailureRetryInterval(final long interval)
    {

```

```

    checkBridgeNotStarted();
    if (interval < 1)
    {
        throw new IllegalArgumentException("FailureRetryInterval must be >= 1");
    }

    failureRetryInterval = interval;
}

public synchronized int getMaxRetries()
{
    return maxRetries;
}

public synchronized void setMaxRetries(final int retries)
{
    checkBridgeNotStarted();
    JMSBridgeImpl.checkValidValue(retries, "MaxRetries");

    maxRetries = retries;
}

public synchronized QualityOfServiceMode getQualityOfServiceMode()
{
    return qualityOfServiceMode;
}

public synchronized void setQualityOfServiceMode(final QualityOfServiceMode mode)
{
    checkBridgeNotStarted();
    JMSBridgeImpl.checkNotNull(mode, "QualityOfServiceMode");

    qualityOfServiceMode = mode;
}

public synchronized int getMaxBatchSize()
{
    return maxBatchSize;
}

public synchronized void setMaxBatchSize(final int size)
{
    checkBridgeNotStarted();
    JMSBridgeImpl.checkMaxBatchSize(size);

    maxBatchSize = size;
}

```

```

public synchronized long getMaxBatchTime()
{
    return maxBatchTime;
}

public synchronized void setMaxBatchTime(final long time)
{
    checkBridgeNotStarted();
    JMSBridgeImpl.checkValidValue(time, "MaxBatchTime");

    maxBatchTime = time;
}

public synchronized String getSubscriptionName()
{
    return subName;
}

public synchronized void setSubscriptionName(final String subname)
{
    checkBridgeNotStarted();
    subName = subname;
}

public synchronized String getClientID()
{
    return clientID;
}

public synchronized void setClientID(final String clientID)
{
    checkBridgeNotStarted();

    this.clientID = clientID;
}

public String getTransactionManagerLocatorClass()
{
    return transactionManagerLocatorClass;
}

public void setTransactionManagerLocatorClass(final String transactionManagerLocatorClass)
{
    checkBridgeNotStarted();
    this.transactionManagerLocatorClass = transactionManagerLocatorClass;
}

public String getTransactionManagerLocatorMethod()

```

```

{
    return transactionManagerLocatorMethod;
}

public void setTransactionManagerLocatorMethod(final String transactionManagerLocatorMethod)
{
    this.transactionManagerLocatorMethod = transactionManagerLocatorMethod;
}

public boolean isAddMessageIDInHeader()
{
    return addMessageIDInHeader;
}

public void setAddMessageIDInHeader(final boolean value)
{
    addMessageIDInHeader = value;
}

public synchronized boolean isPaused()
{
    return paused;
}

public synchronized boolean isFailed()
{
    return failed;
}

public synchronized void setSourceConnectionFactoryFactory(final ConnectionFactoryFactory cff)
{
    checkBridgeNotStarted();
    JMSBridgeImpl.checkNotNull(cff, "SourceConnectionFactoryFactory");

    sourceCff = cff;
}

public synchronized void setTargetConnectionFactoryFactory(final ConnectionFactoryFactory cff)
{
    checkBridgeNotStarted();
    JMSBridgeImpl.checkNotNull(cff, "TargetConnectionFactoryFactory");

    targetCff = cff;
}

public void setTransactionManager(final TransactionManager tm)
{
    this.tm = tm;
}

```

```

}

// Public -----

// Private -----

private synchronized void checkParams()
{
    checkNotNull(sourceCff, "sourceCff");
    checkNotNull(targetCff, "targetCff");
    checkNotNull(sourceDestinationFactory, "sourceDestinationFactory");
    checkNotNull(targetDestinationFactory, "targetDestinationFactory");
    checkValidValue(failureRetryInterval, "failureRetryInterval");
    checkValidValue(maxRetries, "maxRetries");
    if (failureRetryInterval == -1 && maxRetries > 0)
    {
        throw new IllegalArgumentException("If failureRetryInterval == -1 maxRetries must be set to -1");
    }
    checkMaxBatchSize(maxBatchSize);
    checkValidValue(maxBatchTime, "maxBatchTime");
    checkNotNull(qualityOfServiceMode, "qualityOfServiceMode");
}

/**
 * Check the object is not null
 *
 * @throws IllegalArgumentException if the object is null
 */
private static void checkNotNull(final Object obj, final String name)
{
    if (obj == null)
    {
        throw new IllegalArgumentException(name + " cannot be null");
    }
}

/**
 * Check the bridge is not started
 *
 * @throws IllegalStateException if the bridge is started
 */
private void checkBridgeNotStarted()
{
    if (started)
    {
        throw new IllegalStateException("Cannot set bridge attributes while it is started");
    }
}

```

```

/**
 * Check that value is either equals to -1 or greater than 0
 *
 * @throws IllegalArgumentException if the value is not valid
 */
private static void checkValidValue(final long value, final String name)
{
    if (!(value == -1 || value > 0))
    {
        throw new IllegalArgumentException(name + " must be > 0 or -1");
    }
}

private static void checkMaxBatchSize(final int size)
{
    if (!(size >= 1))
    {
        throw new IllegalArgumentException("maxBatchSize must be >= 1");
    }
}

private void enlistResources(final Transaction tx) throws Exception
{
    if (JMSBridgeImpl.trace)
    {
        HornetQJMSServerLogger.LOGGER.trace("Enlisting resources in tx");
    }

    XAResource resSource = ((XASession) sourceSession).getXAResource();

    tx.enlistResource(resSource);

    XAResource resDest = ((XASession) targetSession).getXAResource();

    tx.enlistResource(resDest);

    if (JMSBridgeImpl.trace)
    {
        HornetQJMSServerLogger.LOGGER.trace("Enlisted resources in tx");
    }
}

private void delistResources(final Transaction tx)
{
    if (JMSBridgeImpl.trace)
    {
        HornetQJMSServerLogger.LOGGER.trace("Delisting resources from tx");
    }
}

```

```

    }

    XAResource resSource = ((XASession) sourceSession).getXAResource();

    try
    {
        tx.delistResource(resSource, XAResource.TMSUCCESS);
    }
    catch (Exception e)
    {
        if (JMSBridgeImpl.trace)
        {
            HornetQJMSServerLogger.LOGGER.trace("Failed to delist source resource", e);
        }
    }

    XAResource resDest = ((XASession) targetSession).getXAResource();

    try
    {
        tx.delistResource(resDest, XAResource.TMSUCCESS);
    }
    catch (Exception e)
    {
        if (JMSBridgeImpl.trace)
        {
            HornetQJMSServerLogger.LOGGER.trace("Failed to delist target resource", e);
        }
    }

    if (JMSBridgeImpl.trace)
    {
        HornetQJMSServerLogger.LOGGER.trace("Delisted resources from tx");
    }
}

private Transaction startTx() throws Exception
{
    if (JMSBridgeImpl.trace)
    {
        HornetQJMSServerLogger.LOGGER.trace("Starting JTA transaction");
    }

    TransactionManager tm = getTm();

    // Set timeout to a large value since we do not want to time out while waiting for messages
    // to arrive - 10 years should be enough
    tm.setTimeout(JMSBridgeImpl.TEN_YEARS);
}

```

```

tm.begin();

Transaction tx = tm.getTransaction();

// Remove the association between current thread - we don't want it
// we will be committing /rolling back directly on the transaction object

tm.suspend();

if (JMSBridgeImpl.trace)
{
    HornetQJMSServerLogger.LOGGER.trace("Started JTA transaction");
}

return tx;
}

private TransactionManager getTm()
{
    if (tm == null)
    {
        try
        {
            Object o = safeInitNewInstance(transactionManagerLocatorClass);
            Method m = o.getClass().getMethod(transactionManagerLocatorMethod);
            tm = (TransactionManager) m.invoke(o);
        }
        catch (Exception e)
        {
            throw new IllegalStateException("unable to create TransactionManager from " +
transactionManagerLocatorClass +
                "." +
                transactionManagerLocatorMethod,
                e);
        }
    }

    if (tm == null)
    {
        throw new IllegalStateException("Cannot locate a transaction manager");
    }
}

return tm;
}

private Connection createConnection(final String username, final String password,
final ConnectionFactoryFactory cff,

```

```

        final String clientID,
        final boolean isXA,
        boolean isSource) throws Exception
    {
        Connection conn;

        Object cf = cff.createConnectionFactory();

        if (cf instanceof HornetQConnectionFactory && registry != null)
        {
            registry.register(XARecoveryConfig.newConfig((HornetQConnectionFactory) cf, username, password));
        }

        if (qualityOfServiceMode == QualityOfServiceMode.ONCE_AND_ONLY_ONCE && !(cf instanceof
XAConnectionFactory))
        {
            throw new IllegalArgumentException("Connection factory must be XAConnectionFactory");
        }

        if (username == null)
        {
            if (isXA)
            {
                if (JMSBridgeImpl.trace)
                {
                    HornetQJMSServerLogger.LOGGER.trace("Creating an XA connection");
                }
                conn = ((XAConnectionFactory) cf).createXAConnection();
            }
            else
            {
                if (JMSBridgeImpl.trace)
                {
                    HornetQJMSServerLogger.LOGGER.trace("Creating a non XA connection");
                }
                conn = ((ConnectionFactory) cf).createConnection();
            }
        }
        else
        {
            if (isXA)
            {
                if (JMSBridgeImpl.trace)
                {
                    HornetQJMSServerLogger.LOGGER.trace("Creating an XA connection");
                }
                conn = ((XAConnectionFactory) cf).createXAConnection(username, password);
            }
        }
    }

```

```

else
{
    if (JMSBridgeImpl.trace)
    {
        HornetQJMSServerLogger.LOGGER.trace("Creating a non XA connection");
    }
    conn = ((ConnectionFactory) cf).createConnection(username, password);
}
}

if (clientID != null)
{
    conn.setClientID(clientID);
}

boolean ha = false;
BridgeFailoverListener failoverListener = null;

if (conn instanceof HornetQConnection)
{
    HornetQConnectionFactory hornetQCF = (HornetQConnectionFactory) cf;
    ha = hornetQCF.isHA();

    if (ha)
    {
        HornetQConnection hornetQConn = (HornetQConnection) conn;
        failoverListener = new BridgeFailoverListener(isSource);
        hornetQConn.setFailoverListener(failoverListener);
    }
}

conn.setExceptionListener(new BridgeExceptionListener(ha, failoverListener, isSource));

return conn;
}

/*
 * Source and target on same server
 * -----
 * If the source and target destinations are on the same server (same resource manager) then,
 * in order to get ONCE_AND_ONLY_ONCE, we simply need to consuming and send in a single
 * local JMS transaction.
 *
 * We actually use a single local transacted session for the other QoS modes too since this
 * is more performant than using DUPS_OK_ACKNOWLEDGE or AUTO_ACKNOWLEDGE session ack
 * modes, so effectively
 * the QoS is upgraded.
 */

```

```

* Source and target on different server
* -----
* If the source and target destinations are on a different servers (different resource managers) then:
*
* If desired QoS is ONCE_AND_ONLY_ONCE, then we start a JTA transaction and enlist the consuming and
sending
* XAResources in that.
*
* If desired QoS is DUPLICATES_OK then, we use CLIENT_ACKNOWLEDGE for the consuming session and
* AUTO_ACKNOWLEDGE (this is ignored) for the sending session if the batchSize == 1, otherwise we
* use a local transacted session for the sending session where batchSize > 1, since this is more performant
* When bridging a batch, we make sure to manually acknowledge the consuming session, if it is
CLIENT_ACKNOWLEDGE
* *after* the batch has been sent
*
* If desired QoS is AT_MOST_ONCE then, if batchSize == 1, we use AUTO_ACKNOWLEDGE for the
consuming session,
* and AUTO_ACKNOWLEDGE for the sending session.
* If batchSize > 1, we use CLIENT_ACKNOWLEDGE for the consuming session and a local transacted
session for the
* sending session.
*
* When bridging a batch, we make sure to manually acknowledge the consuming session, if it is
CLIENT_ACKNOWLEDGE
* *before* the batch has been sent
*
*/
private boolean setupJMSObjects()
{
    try
    {
        if (sourceCff == targetCff)
        {
            // Source and target destinations are on the server - we can get once and only once
            // just using a local transacted session
            // everything becomes once and only once

            forwardMode = JMSBridgeImpl.FORWARD_MODE_LOCALTX;
        }
        else
        {
            // Different servers
            if (qualityOfServiceMode == QualityOfServiceMode.ONCE_AND_ONLY_ONCE)
            {
                // Use XA
                forwardMode = JMSBridgeImpl.FORWARD_MODE_XA;
            }
            else

```

```

    {
        forwardMode = JMSBridgeImpl.FORWARD_MODE_NONTX;
    }
}

// Lookup the destinations
sourceDestination = sourceDestinationFactory.createDestination();

targetDestination = targetDestinationFactory.createDestination();

// bridging on the same server
if (forwardMode == JMSBridgeImpl.FORWARD_MODE_LOCALTX)
{
    // We simply use a single local transacted session for consuming and sending

    sourceConn = createConnection(sourceUsername, sourcePassword, sourceCff, clientID, false, true);
    sourceSession = sourceConn.createSession(true, Session.SESSION_TRANSACTED);
}
else // bridging across different servers
{
    // QoS = ONCE_AND_ONLY_ONCE
    if (forwardMode == JMSBridgeImpl.FORWARD_MODE_XA)
    {
        // Create an XASession for consuming from the source
        if (JMSBridgeImpl.trace)
        {
            HornetQJMSServerLogger.LOGGER.trace("Creating XA source session");
        }

        sourceConn = createConnection(sourceUsername, sourcePassword, sourceCff, clientID, true, true);
        sourceSession = ((XAConnection) sourceConn).createXASession();
    }
    else // QoS = DUPLICATES_OK || AT_MOST_ONCE
    {
        if (JMSBridgeImpl.trace)
        {
            HornetQJMSServerLogger.LOGGER.trace("Creating non XA source session");
        }

        sourceConn = createConnection(sourceUsername, sourcePassword, sourceCff, clientID, false, true);
        if (qualityOfServiceMode == QualityOfServiceMode.AT_MOST_ONCE && maxBatchSize == 1)
        {
            sourceSession = sourceConn.createSession(false, Session.AUTO_ACKNOWLEDGE);
        }
        else
        {
            sourceSession = sourceConn.createSession(false, Session.CLIENT_ACKNOWLEDGE);
        }
    }
}

```

```

    }
}

if (subName == null)
{
    if (selector == null)
    {
        sourceConsumer = sourceSession.createConsumer(sourceDestination);
    }
    else
    {
        sourceConsumer = sourceSession.createConsumer(sourceDestination, selector, false);
    }
}
else
{
    // Durable subscription
    if (selector == null)
    {
        sourceConsumer = sourceSession.createDurableSubscriber((Topic) sourceDestination, subName);
    }
    else
    {
        sourceConsumer = sourceSession.createDurableSubscriber((Topic) sourceDestination, subName, selector,
false);
    }
}

// Now the sending session

// bridging on the same server
if (forwardMode == JMSBridgeImpl.FORWARD_MODE_LOCALTX)
{
    targetConn = sourceConn;
    targetSession = sourceSession;
}
else // bridging across different servers
{
    // QoS = ONCE_AND_ONLY_ONCE
    if (forwardMode == JMSBridgeImpl.FORWARD_MODE_XA)
    {
        if (JMSBridgeImpl.trace)
        {
            HornetQJMSServerLogger.LOGGER.trace("Creating XA dest session");
        }
    }

    // Create an XA session for sending to the destination

```

```

targetConn = createConnection(targetUsername, targetPassword, targetCff, null, true, false);

targetSession = ((XAConnection) targetConn).createXASession();
}
else // QoS = DUPLICATES_OK || AT_MOST_ONCE
{
    if (JMSBridgeImpl.trace)
    {
        HornetQJMSServerLogger.LOGGER.trace("Creating non XA dest session");
    }

    // Create a standard session for sending to the target

    // If batch size > 1 we use a transacted session since is more efficient

    boolean transacted = maxBatchSize > 1;

    targetConn = createConnection(targetUsername, targetPassword, targetCff, null, false, false);

    targetSession = targetConn.createSession(transacted, transacted ? Session.SESSION_TRANSACTED
        : Session.AUTO_ACKNOWLEDGE);
}
}

if (forwardMode == JMSBridgeImpl.FORWARD_MODE_XA)
{
    if (JMSBridgeImpl.trace)
    {
        HornetQJMSServerLogger.LOGGER.trace("Starting JTA transaction");
    }

    tx = startTx();

    enlistResources(tx);
}

targetProducer = targetSession.createProducer(null);

return true;
}
catch (Exception e)
{
    // We shouldn't log this, as it's expected when trying to connect when target/source is not available

    // If this fails we should attempt to cleanup or we might end up in some weird state

    // Adding a log.warn, so the use may see the cause of the failure and take actions
    HornetQJMSServerLogger.LOGGER.bridgeConnectError(e);
}

```

```

        cleanup();

        return false;
    }
}

private void cleanup()
{
    // Stop the source connection
    try
    {
        sourceConn.stop();
    }
    catch (Throwable ignore)
    {
        if (JMSBridgeImpl.trace)
        {
            HornetQJMSServerLogger.LOGGER.trace("Failed to stop source connection", ignore);
        }
    }
}

if (tx != null)
{
    try
    {
        delistResources(tx);
    }
    catch (Throwable ignore)
    {
        if (JMSBridgeImpl.trace)
        {
            HornetQJMSServerLogger.LOGGER.trace("Failed to delist resources", ignore);
        }
    }
    try
    {
        // Terminate the tx
        tx.rollback();
    }
    catch (Throwable ignore)
    {
        if (JMSBridgeImpl.trace)
        {
            HornetQJMSServerLogger.LOGGER.trace("Failed to rollback", ignore);
        }
    }
}
}

```

```

// Close the old objects
try
{
    sourceConn.close();
}
catch (Throwable ignore)
{
    if (JMSBridgeImpl.trace)
    {
        HornetQJMSServerLogger.LOGGER.trace("Failed to close source connection", ignore);
    }
}
try
{
    if (targetConn != null)
    {
        targetConn.close();
    }
}
catch (Throwable ignore)
{
    if (JMSBridgeImpl.trace)
    {
        HornetQJMSServerLogger.LOGGER.trace("Failed to close target connection", ignore);
    }
}
}

```

```

private void pause(final long interval)
{
    long start = System.currentTimeMillis();
    while (System.currentTimeMillis() - start < failureRetryInterval)
    {
        try
        {
            Thread.sleep(failureRetryInterval);
        }
        catch (InterruptedException ex)
        {
        }
    }
}

```

```

private boolean setupJMSObjectsWithRetry()
{
    if (JMSBridgeImpl.trace)
    {

```

```

    HornetQJMSServerLogger.LOGGER.trace("Setting up connections");
}

int count = 0;

while (true && !stopping)
{
    boolean ok = setupJMSObjects();

    if (ok)
    {
        return true;
    }

    count++;

    if (maxRetries != -1 && count == maxRetries)
    {
        break;
    }

    HornetQJMSServerLogger.LOGGER.failedToSetUpBridge(failureRetryInterval);

    pause(failureRetryInterval);
}

// If we get here then we exceeded maxRetries
return false;
}

private void sendBatch()
{
    if (JMSBridgeImpl.trace)
    {
        HornetQJMSServerLogger.LOGGER.trace("Sending batch of " + messages.size() + " messages");
    }

    if (paused)
    {
        // Don't send now
        if (JMSBridgeImpl.trace)
        {
            HornetQJMSServerLogger.LOGGER.trace("Paused, so not sending now");
        }
    }

    return;
}

```

```

if (forwardMode == JMSBridgeImpl.FORWARD_MODE_LOCALTX)
{
    sendBatchLocalTx();
}
else if (forwardMode == JMSBridgeImpl.FORWARD_MODE_XA)
{
    sendBatchXA();
}
else
{
    sendBatchNonTransacted();
}
}

private void sendBatchNonTransacted()
{
    try
    {
        if (qualityOfServiceMode == QualityOfServiceMode.ONCE_AND_ONLY_ONCE ||
            (qualityOfServiceMode == QualityOfServiceMode.AT_MOST_ONCE && maxBatchSize > 1))
        {
            // We client ack before sending

            if (JMSBridgeImpl.trace)
            {
                HornetQJMSServerLogger.LOGGER.trace("Client acking source session");
            }

            messages.getLast().acknowledge();

            if (JMSBridgeImpl.trace)
            {
                HornetQJMSServerLogger.LOGGER.trace("Client acked source session");
            }
        }
    }

    boolean exHappened;

    do
    {
        exHappened = false;
        try
        {
            sendMessages();
        }
        catch (TransactionRolledbackException e)
        {
            HornetQJMSServerLogger.LOGGER.warn(e.getMessage() + ", retrying TX", e);
        }
    }
}

```

```

        exHappened = true;
    }
}
while (exHappened);

if (maxBatchSize > 1)
{
    // The sending session is transacted - we need to commit it

    if (JMSBridgeImpl.trace)
    {
        HornetQJMSServerLogger.LOGGER.trace("Committing target session");
    }

    targetSession.commit();

    if (JMSBridgeImpl.trace)
    {
        HornetQJMSServerLogger.LOGGER.trace("Committed target session");
    }
}

if (qualityOfServiceMode == QualityOfServiceMode.DUPLICATES_OK)
{
    // We client ack after sending

    // Note we could actually use Session.DUPS_OK_ACKNOWLEDGE here
    // For a slightly less strong delivery guarantee

    if (JMSBridgeImpl.trace)
    {
        HornetQJMSServerLogger.LOGGER.trace("Client acking source session");
    }

    messages.getLast().acknowledge();

    if (JMSBridgeImpl.trace)
    {
        HornetQJMSServerLogger.LOGGER.trace("Client acked source session");
    }
}
}
catch (Exception e)
{
    if (!stopping)
    {
        HornetQJMSServerLogger.LOGGER.bridgeAckError(e);
    }
}

```

```

// We don't call failure otherwise failover would be broken with HornetQ
// We let the ExceptionListener to deal with failures

if (connectedSource)
{
    try
    {
        sourceSession.recover();
    }
    catch (Throwable ignored)
    {
    }
}

}
finally
{
    // Clear the messages
    messages.clear();

}
}

private void sendBatchXA()
{
    try
    {
        sendMessages();

        // Commit the JTA transaction and start another
        delistResources(tx);

        if (JMSBridgeImpl.trace)
        {
            HornetQJMSServerLogger.LOGGER.trace("Committing JTA transaction");
        }

        tx.commit();

        if (JMSBridgeImpl.trace)
        {
            HornetQJMSServerLogger.LOGGER.trace("Committed JTA transaction");
        }
    }
    catch (Exception e)
    {
        try

```

```

    {
        // we call this just in case there is a failure other than failover
        tx.rollback();
    }
    catch (Throwable ignored)
    {
    }

    HornetQJMSServerLogger.LOGGER.bridgeAckError(e);

    //we don't do handle failure here because the tx
    //may be rolledback due to failover. All failure handling
    //will be done through exception listener.
    //handleFailureOnSend();
}
finally
{
    try
    {
        tx = startTx();

        enlistResources(tx);

        // Clear the messages
        messages.clear();

    }
    catch (Exception e)
    {
        HornetQJMSServerLogger.LOGGER.bridgeAckError(e);

        handleFailureOnSend();
    }
}

private void sendBatchLocalTx()
{
    try
    {
        sendMessages();

        if (JMSBridgeImpl.trace)
        {
            HornetQJMSServerLogger.LOGGER.trace("Committing source session");
        }

        sourceSession.commit();
    }
}

```

```

    if (JMSBridgeImpl.trace)
    {
        HornetQJMSServerLogger.LOGGER.trace("Committed source session");
    }

}
catch (Exception e)
{
    HornetQJMSServerLogger.LOGGER.bridgeAckError(e);

    try
    {
        sourceSession.rollback();
    }
    catch (Throwable ignored)
    {
    }
    try
    {
        targetSession.rollback();
    }
    catch (Throwable ignored)
    {
    }

    // We don't call failure here, we let the exception listener to deal with it
}
finally
{
    messages.clear();
}
}

private void sendMessages() throws Exception
{
    Iterator<Message> iter = messages.iterator();

    Message msg = null;

    while (iter.hasNext())
    {
        msg = iter.next();

        if (addMessageIDInHeader)
        {
            addMessageIDInHeader(msg);
        }
    }
}

```

```

if (JMSBridgeImpl.trace)
{
    HornetQJMSServerLogger.LOGGER.trace("Sending message " + msg);
}

// Make sure the correct time to live gets propagated

long timeToLive = msg.getJMSExpiration();

if (timeToLive != 0)
{
    timeToLive -= System.currentTimeMillis();

    if (timeToLive <= 0)
    {
        timeToLive = 1; // Should have already expired - set to 1 so it expires when it is consumed or delivered
    }
}

targetProducer.send(targetDestination, msg, msg.getJMSDeliveryMode(), msg.getJMSPriority(), timeToLive);

if (JMSBridgeImpl.trace)
{
    HornetQJMSServerLogger.LOGGER.trace("Sent message " + msg);
}
}

private void handleFailureOnSend()
{
    handleFailure(new FailureHandler());
}

private void handleFailureOnStartup()
{
    handleFailure(new StartupFailureHandler());
}

private void handleFailure(final Runnable failureHandler)
{
    failed = true;

    // Failure must be handled on a separate thread to the calling thread (either onMessage or start).
    // In the case of onMessage we can't close the connection from inside the onMessage method
    // since it will block waiting for onMessage to complete. In the case of start we want to return
    // from the call before the connections are reestablished so that the caller is not blocked unnecessarily.
    executor.execute(failureHandler);
}

```

```

}

private void addMessageIDInHeader(final Message msg) throws Exception
{
    // We concatenate the old message id as a header in the message
    // This allows the target to then use this as the JMSCorrelationID of any response message
    // thus enabling a distributed request-response pattern.
    // Each bridge (if there are more than one) in the chain can concatenate the message id
    // So in the case of multiple bridges having routed the message this can be used in a multi-hop
    // distributed request/response
    if (JMSBridgeImpl.trace)
    {
        HornetQJMSServerLogger.LOGGER.trace("Adding old message id in Message header");
    }

    JMSBridgeImpl.copyProperties(msg);

    String val = null;

    val = msg.getStringProperty(HornetQJMSSConstants.JBOSS_MESSAGING_BRIDGE_MESSAGE_ID_LIST);

    if (val == null)
    {
        val = msg.getJMSMessageID();
    }
    else
    {
        StringBuffer sb = new StringBuffer(val);

        sb.append(",").append(msg.getJMSMessageID());

        val = sb.toString();
    }

    msg.setStringProperty(HornetQJMSSConstants.JBOSS_MESSAGING_BRIDGE_MESSAGE_ID_LIST, val);
}

/*
 * JMS does not let you add a property on received message without first
 * calling clearProperties, so we need to save and re-add all the old properties so we
 * don't lose them!!
 */
private static void copyProperties(final Message msg) throws JMSEException
{
    @SuppressWarnings("unchecked")
    Enumeration<String> en = msg.getPropertyNames();

    Map<String, Object> oldProps = null;

```

```

while (en.hasMoreElements())
{
    String propName = en.nextElement();

    if (oldProps == null)
    {
        oldProps = new HashMap<String, Object>();
    }

    oldProps.put(propName, msg.getObjectProperty(propName));
}

msg.clearProperties();

if (oldProps != null)
{
    Iterator<Entry<String, Object>> oldPropsIter = oldProps.entrySet().iterator();

    while (oldPropsIter.hasNext())
    {
        Entry<String, Object> entry = oldPropsIter.next();

        String propName = entry.getKey();

        Object val = entry.getValue();

        if (val instanceof byte[] == false)
        {
            //Can't set byte[] array props through the JMS API - if we're bridging a HornetQ message it might have
such props
            msg setObjectProperty(propName, entry.getValue());
        }
        else if (msg instanceof HornetQMessage)
        {
            ((HornetQMessage) msg).getCoreMessage().putBytesProperty(propName, (byte[]) val);
        }
    }
}

/**
 * Creates a 3-sized thread pool executor (1 thread for the sourceReceiver, 1 for the timeChecker
 * and 1 for the eventual failureHandler)
 */
private ExecutorService createExecutor()
{
    return Executors.newFixedThreadPool(3);
}

```

```

}

// Inner classes -----

/**
 * We use a Thread which polls the sourceDestination instead of a MessageListener
 * to ensure that message delivery does not happen concurrently with
 * transaction enlistment of the XAResource (see HORNETQ-27)
 */
private final class SourceReceiver extends Thread
{
    SourceReceiver()
    {
        super("jmsbridge-source-receiver-thread");
    }

    @Override
    public void run()
    {
        while (started)
        {
            if (stopping)
            {
                return;
            }
            synchronized (lock)
            {
                if (paused || failed)
                {
                    try
                    {
                        lock.wait(500);
                    }
                    catch (InterruptedException e)
                    {
                        if (stopping)
                        {
                            return;
                        }
                        throw new HornetQInterruptedException(e);
                    }
                }
                continue;
            }

            Message msg = null;
            try
            {
                msg = sourceConsumer.receive(1000);
            }

```

```

if (msg instanceof HornetQMessage)
{
    // We need to check the buffer mainly in the case of LargeMessages
    // As we need to reconstruct the buffer before resending the message
    ((HornetQMessage) msg).checkBuffer();
}
}
catch (JMSException jmse)
{
    if (JMSBridgeImpl.trace)
    {
        HornetQJMSServerLogger.LOGGER.trace(this + " exception while receiving a message", jmse);
    }
}

if (msg == null)
{
    try
    {
        lock.wait(500);
    }
    catch (InterruptedException e)
    {
        if (JMSBridgeImpl.trace)
        {
            HornetQJMSServerLogger.LOGGER.trace(this + " thread was interrupted");
        }
        if (stopping)
        {
            return;
        }
        throw new HornetQInterruptedException(e);
    }
    continue;
}

if (JMSBridgeImpl.trace)
{
    HornetQJMSServerLogger.LOGGER.trace(this + " received message " + msg);
}

messages.add(msg);

batchExpiryTime = System.currentTimeMillis() + maxBatchTime;

if (JMSBridgeImpl.trace)
{

```



```

        failed = false;

        startSourceConnection();
    }
}

protected void failed()
{
    // We haven't managed to recreate connections or maxRetries = 0
    HornetQJMSServerLogger.LOGGER.errorConnectingBridge();

    try
    {
        stop();
    }
    catch (Exception ignore)
    {
    }
}

public void run()
{
    if (JMSBridgeImpl.trace)
    {
        HornetQJMSServerLogger.LOGGER.trace("Failure handler running");
    }

    // Clear the messages
    messages.clear();

    cleanup();

    boolean ok = false;

    if (maxRetries > 0 || maxRetries == -1)
    {
        HornetQJMSServerLogger.LOGGER.bridgeRetry(failureRetryInterval);

        pause(failureRetryInterval);

        // Now we try
        ok = setupJMSObjectsWithRetry();
    }

    if (!ok)
    {
        failed();
    }
}

```

```

else
{
    succeeded();
}
}
}

private class StartupFailureHandler extends FailureHandler
{
    @Override
    protected void failed()
    {
        // Don't call super
        HornetQJMSServerLogger.LOGGER.bridgeNotStarted();
    }

    @Override
    protected void succeeded()
    {
        // Don't call super - a bit ugly in this case but better than taking the lock twice.
        HornetQJMSServerLogger.LOGGER.bridgeConnected();

        synchronized (lock)
        {

            connectedSource = true;
            connectedTarget = true;
            failed = false;
            started = true;

            // Start the source connection - note the source connection must not be started before
            // otherwise messages will be received and ignored

            try
            {
                startSource();
            }
            catch (JMSEException e)
            {
                HornetQJMSServerLogger.LOGGER.jmsBridgeSrcConnectError(e);
            }
        }
    }
}

private class BatchTimeChecker implements Runnable
{
    public void run()

```

```

{
    if (JMSBridgeImpl.trace)
    {
        HornetQJMSServerLogger.LOGGER.trace(this + " running");
    }

    synchronized (lock)
    {
        while (started)
        {
            long toWait = batchExpiryTime - System.currentTimeMillis();

            if (toWait <= 0)
            {
                if (JMSBridgeImpl.trace)
                {
                    HornetQJMSServerLogger.LOGGER.trace(this + " waited enough");
                }

                synchronized (lock)
                {
                    if (!failed && !messages.isEmpty())
                    {
                        if (JMSBridgeImpl.trace)
                        {
                            HornetQJMSServerLogger.LOGGER.trace(this + " got some messages so sending batch");
                        }

                        sendBatch();

                        if (JMSBridgeImpl.trace)
                        {
                            HornetQJMSServerLogger.LOGGER.trace(this + " sent batch");
                        }
                    }
                }

                batchExpiryTime = System.currentTimeMillis() + maxBatchTime;
            }
            else
            {
                try
                {
                    if (JMSBridgeImpl.trace)
                    {
                        HornetQJMSServerLogger.LOGGER.trace(this + " waiting for " + toWait);
                    }
                }
            }
        }
    }
}

```

```

        lock.wait(toWait);

        if (JMSBridgeImpl.trace)
        {
            HornetQJMSServerLogger.LOGGER.trace(this + " woke up");
        }
    }
    catch (InterruptedException e)
    {
        if (JMSBridgeImpl.trace)
        {
            HornetQJMSServerLogger.LOGGER.trace(this + " thread was interrupted");
        }
        if (stopping)
        {
            return;
        }
        throw new HornetQInterruptedException(e);
    }
}
}
}
}

private class BridgeExceptionListener implements ExceptionListener
{
    boolean ha;
    BridgeFailoverListener failoverListener;
    private final boolean isSource;

    public BridgeExceptionListener(boolean ha, BridgeFailoverListener failoverListener, boolean isSource)
    {
        this.ha = ha;
        this.failoverListener = failoverListener;
        this.isSource = isSource;
    }

    public void onException(final JMSEException e)
    {
        if (stopping)
        {
            return;
        }
        HornetQJMSServerLogger.LOGGER.bridgeFailure(e);
        if (isSource)
        {

```

```

        connectedSource = false;
    }
    else
    {
        connectedTarget = false;
    }

    synchronized (lock)
    {
        if (stopping)
        {
            return;
        }
        if (failed)
        {
            // The failure has already been detected and is being handled
            if (JMSBridgeImpl.trace)
            {
                HornetQJMSServerLogger.LOGGER.trace("Failure recovery already in progress");
            }
        }
        else
        {
            boolean shouldHandleFailure = true;
            if (ha)
            {
                //make sure failover happened
                shouldHandleFailure = !failoverListener.waitForFailover();
            }

            if (shouldHandleFailure)
            {
                handleFailure(new FailureHandler());
            }
        }
    }
}

```

```

private void locateRecoveryRegistry()
{
    if (registry == null)
    {
        for (String locatorClass : RESOURCE_RECOVERY_CLASS_NAMES)
        {
            try
            {

```

```

        registry = (HornetQRegistryBase) safeInitNewInstance(locatorClasse);
    }
    catch (Throwable e)
    {
        HornetQJMSServerLogger.LOGGER.debug("unable to load recovery registry " + locatorClasse, e);
    }
    if (registry != null)
    {
        break;
    }
}

if (registry != null)
{
    HornetQJMSServerLogger.LOGGER.debug("Recovery Registry located = " + registry);
}
}
}

/**
 * This seems duplicate code all over the place, but for security reasons we can't let something like this to be open
in a
 * utility class, as it would be a door to load anything you like in a safe VM.
 * For that reason any class trying to do a privileged block should do with the AccessController directly.
 */
private static Object safeInitNewInstance(final String className)
{
    return AccessController.doPrivileged(new PrivilegedAction<Object>()
    {
        public Object run()
        {
            return ClassloadingUtil.newInstanceFromClassLoader(className);
        }
    });
}

public boolean isUseMaskedPassword()
{
    return useMaskedPassword;
}

public void setUseMaskedPassword(boolean maskPassword)
{
    this.useMaskedPassword = maskPassword;
}

public String getPasswordCodec()
{

```

```

    return passwordCodec;
}

public void setPasswordCodec(String passwordCodec)
{
    this.passwordCodec = passwordCodec;
}

private class BridgeFailoverListener implements FailoverEventListener
{
    private final boolean isSource;
    volatile FailoverEventType lastEvent;

    public BridgeFailoverListener(boolean isSource)
    {
        this.isSource = isSource;
    }

    @Override
    public void failoverEvent(FailoverEventType eventType)
    {
        synchronized (this)
        {
            lastEvent = eventType;
            if (eventType == FailoverEventType.FAILURE_DETECTED)
            {
                if (isSource)
                {
                    connectedSource = false;
                }
                else
                {
                    connectedTarget = false;
                }
            }
            this.notify();
        }
    }

    //return true if failover completed successfully
    public boolean waitForFailover()
    {
        long toWait = failoverTimeout;
        long start = 0;
        long waited = 0;
        boolean timedOut = false;
        FailoverEventType result = null;
        synchronized (this)

```

```

{
  while ((lastEvent == null || lastEvent == FailoverEventType.FAILURE_DETECTED))
  {
    try
    {
      if (toWait <= 0)
      {
        timedOut = true;
        break;
      }
      start = System.currentTimeMillis();
      this.wait(toWait);
    }
    catch (InterruptedException e)
    {
    }
    finally
    {
      waited = System.currentTimeMillis() - start;
      toWait = failoverTimeout - waited;
    }
  }
  result = lastEvent;
  lastEvent = null;
}

if (timedOut)
{
  //timeout, presumably failover failed.
  HornetQJMSServerLogger.LOGGER.debug("Timed out waiting for failover completion " + this);
  return false;
}

/*
 * make sure we reset the connected flags
 */
if (result == FailoverEventType.FAILOVER_COMPLETED)
{
  if (isSource)
  {
    connectedSource = true;
  }
  else
  {
    connectedTarget = true;
  }
  return true;
}

```

```

        //failover failed, need retry.
        return false;
    }
}

public long getFailoverTimeout()
{
    return failoverTimeout;
}

public void setFailoverTimeout(long failoverTimeout)
{
    this.failoverTimeout = failoverTimeout;
}

}

```

1.76 hornetq-journal 2.4.5

1.76.1 Available under license :

```

/*
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 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
 * implied. See the License for the specific language governing
 * permissions and limitations under the License.
 */
package org.hornetq.core.asyncio.impl;

import java.nio.ByteBuffer;
import java.nio.channels.FileLock;
import java.util.PriorityQueue;
import java.util.concurrent.Executor;
import java.util.concurrent.Semaphore;
import java.util.concurrent.TimeUnit;
import java.util.concurrent.atomic.AtomicInteger;
import java.util.concurrent.atomic.AtomicLong;
import java.util.concurrent.locks.Lock;
import java.util.concurrent.locks.ReentrantLock;
import java.util.concurrent.locks.ReentrantReadWriteLock;

```

```

import org.hornetq.api.core.HornetQException;
import org.hornetq.api.core.HornetQExceptionType;
import org.hornetq.core.asyncio.AIOCallback;
import org.hornetq.core.asyncio.AsynchronousFile;
import org.hornetq.core.asyncio.BufferCallback;
import org.hornetq.core.asyncio.IOExceptionListener;
import org.hornetq.core.libaio.Native;
import org.hornetq.journal.HornetQJournalLogger;
import org.hornetq.utils.ReusableLatch;

/**
 * AsynchronousFile implementation
 *
 * @author clebert.suconic@jboss.com
 *   Warning: Case you refactor the name or the package of this class
 *   You need to make sure you also rename the C++ native calls
 */
public class AsynchronousFileImpl implements AsynchronousFile
{
    // Static -----

    private static final AtomicInteger totalMaxIO = new AtomicInteger(0);

    private static boolean loaded = false;

    /**
     * This definition needs to match Version.h on the native sources.
     * <p/>
     * Or else the native module won't be loaded because of version mismatches
     */
    private static final int EXPECTED_NATIVE_VERSION = 52;

    /**
     * Used to determine the next writing sequence
     */
    private final AtomicLong nextWritingSequence = new AtomicLong(0);

    /**
     * Used to determine the next writing sequence.
     * This is accessed from a single thread (the Poller Thread)
     */
    private long nextReadSequence = 0;

    /**
     * AIO can't guarantee ordering over callbacks.
     * <p/>
     * We use this { @link PriorityQueue } to hold values until they are in order
     */

```

```

private final PriorityQueue<CallbackHolder> pendingCallbacks = new PriorityQueue<CallbackHolder>();

public static void addMax(final int io)
{
    AsynchronousFileImpl.totalMaxIO.addAndGet(io);
}

/**
 * For test purposes
 */
public static int getTotalMaxIO()
{
    return AsynchronousFileImpl.totalMaxIO.get();
}

public static void resetMaxAIO()
{
    AsynchronousFileImpl.totalMaxIO.set(0);
}

public static int openFile(String fileName)
{
    return Native.openFile(fileName);
}

public static void closeFile(int handle)
{
    Native.closeFile(handle);
}

public static void destroyBuffer(ByteBuffer buffer)
{
    Native.destroyBuffer(buffer);
}

private static boolean loadLibrary(final String name)
{
    try
    {
        HornetQJournalLogger.LOGGER.trace(name + " being loaded");
        System.loadLibrary(name);
        if (Native.getNativeVersion() != AsynchronousFileImpl.EXPECTED_NATIVE_VERSION)
        {
            HornetQJournalLogger.LOGGER.incompatibleNativeLibrary();
            return false;
        }
    }
    else
    {

```

```

        return true;
    }
}
catch (Throwable e)
{
    HornetQJournalLogger.LOGGER.debug(name + " -> error loading the native library", e);
    return false;
}

}

static
{
    String[] libraries = new String[]{"HornetQAIO", "HornetQAIO64", "HornetQAIO32", "HornetQAIO_ia64"};

    for (String library : libraries)
    {
        if (AsynchronousFileImpl.loadLibrary(library))
        {
            AsynchronousFileImpl.loaded = true;
            break;
        }
        else
        {
            HornetQJournalLogger.LOGGER.debug("Library " + library + " not found!");
        }
    }

    if (!AsynchronousFileImpl.loaded)
    {
        HornetQJournalLogger.LOGGER.debug("Couldn't locate LibAIO Wrapper");
    }
}

public static boolean isLoaded()
{
    return AsynchronousFileImpl.loaded;
}

// Attributes -----

private boolean opened = false;

private String fileName;

/**
 * Used while inside the callbackDone and callbackError
 */

```

```

private final Lock callbackLock = new ReentrantLock();

private final ReusableLatch pollerLatch = new ReusableLatch();

private volatile Runnable poller;

private int maxIO;

private final Lock writeLock = new ReentrantReadWriteLock().writeLock();

private final ReusableLatch pendingWrites = new ReusableLatch();

private Semaphore maxIOSemaphore;

private BufferCallback bufferCallback;

/**
 * A callback for IO errors when they happen
 */
private final IOExceptionListener ioExceptionListener;

/**
 * Warning: Beware of the C++ pointer! It will bite you! :-)
 */
private ByteBuffer handler;

// A context switch on AIO would make it to synchronize the disk before
// switching to the new thread, what would cause
// serious performance problems. Because of that we make all the writes on
// AIO using a single thread.
private final Executor writeExecutor;

private final Executor pollerExecutor;

// AsynchronousFile implementation -----

/**
 * @param writeExecutor It needs to be a single Thread executor. If null it will use the user thread to execute write
operations
 * @param pollerExecutor The thread pool that will initialize poller handlers
 */
public AsynchronousFileImpl(final Executor writeExecutor, final Executor pollerExecutor, final
IOExceptionListener ioExceptionListener)
{
    this.writeExecutor = writeExecutor;
    this.pollerExecutor = pollerExecutor;
    this.ioExceptionListener = ioExceptionListener;
}

```

```

public AsynchronousFileImpl(final Executor writeExecutor, final Executor pollerExecutor)
{
    this(writeExecutor, pollerExecutor, null);
}

public void open(final String fileName1, final int maxIOArgument) throws HornetQException
{
    writeLock.lock();

    try
    {
        if (opened)
        {
            throw new IllegalStateException("AsynchronousFile is already opened");
        }

        this.maxIO = maxIOArgument;
        maxIOSemaphore = new Semaphore(this.maxIO);

        this.fileName = fileName1;

        try
        {
            handler = Native.init(AsynchronousFileImpl.class, fileName1, this.maxIO,
HornetQJournalLogger.LOGGER);
        }
        catch (HornetQException e)
        {
            HornetQException ex = null;
            if (e.getType() == HornetQExceptionType.NATIVE_ERROR_CANT_INITIALIZE_AIO)
            {
                ex = new HornetQException(e.getType(),
                    "Can't initialize AIO. Currently AIO in use = " + AsynchronousFileImpl.totalMaxIO.get()
+
                    ", trying to allocate more " +
                    maxIOArgument,
                    e);
            }
            else
            {
                ex = e;
            }
            throw ex;
        }
        opened = true;
        AsynchronousFileImpl.addMax(this.maxIO);
        nextWritingSequence.set(0);
    }
}

```

```

        nextReadSequence = 0;
    }
    finally
    {
        writeLock.unlock();
    }
}

public void close() throws InterruptedException, HornetQException
{
    checkOpened();

    writeLock.lock();

    try
    {

        while (!pendingWrites.await(60000))
        {
            HornetQJournalLogger.LOGGER.couldNotGetLock(fileName);
        }

        while (!maxIOSemaphore.tryAcquire(maxIO, 60, TimeUnit.SECONDS))
        {
            HornetQJournalLogger.LOGGER.couldNotGetLock(fileName);
        }

        maxIOSemaphore = null;
        if (poller != null)
        {
            stopPoller();
        }

        if (handler != null)
        {
            Native.closeInternal(handler);
            AsynchronousFileImpl.addMax(-maxIO);
        }
        opened = false;
        handler = null;
    }
    finally
    {
        writeLock.unlock();
    }
}

```

```

public void writeInternal(long positionToWrite, long size, ByteBuffer bytes) throws HornetQException
{
    try
    {
        Native.writeInternal(handler, positionToWrite, size, bytes);
    }
    catch (HornetQException e)
    {
        fireExceptionListener(e.getType().getCode(), e.getMessage());
        throw e;
    }
    if (bufferCallback != null)
    {
        bufferCallback.bufferDone(bytes);
    }
}

```

```

public void write(final long position,
                 final long size,
                 final ByteBuffer directByteBuffer,
                 final AIOCallback aioCallback)
{
    if (aioCallback == null)
    {
        throw new NullPointerException("Null Callback");
    }

    checkOpened();
    if (poller == null)
    {
        startPoller();
    }

    pendingWrites.countUp();

    if (writeExecutor != null)
    {
        maxIOSemaphore.acquireUninterruptibly();

        writeExecutor.execute(new Runnable()
        {
            public void run()
            {
                long sequence = nextWritingSequence.getAndIncrement();

                try
                {

```

```

        Native.write(AsynchronousFileImpl.this, handler, sequence, position, size, directByteBuffer,
aioCallback);
    }
    catch (HornetQException e)
    {
        callbackError(aioCallback, sequence, directByteBuffer, e.getType().getCode(), e.getMessage());
    }
    catch (RuntimeException e)
    {
        callbackError(aioCallback,
            sequence,
            directByteBuffer,
            HornetQExceptionType.INTERNAL_ERROR.getCode(),
            e.getMessage());
    }
    }
    });
}
else
{
    maxIOSemaphore.acquireUninterruptibly();

    long sequence = nextWritingSequence.getAndIncrement();

    try
    {
        Native.write(this, handler, sequence, position, size, directByteBuffer, aioCallback);
    }
    catch (HornetQException e)
    {
        callbackError(aioCallback, sequence, directByteBuffer, e.getType().getCode(), e.getMessage());
    }
    catch (RuntimeException e)
    {
        callbackError(aioCallback, sequence, directByteBuffer,
HornetQExceptionType.INTERNAL_ERROR.getCode(), e.getMessage());
    }
}

}

public void read(final long position,
                final long size,
                final ByteBuffer directByteBuffer,
                final AIOCallback aioPackage) throws HornetQException
{
    checkOpened();
    if (poller == null)

```

```

    {
        startPoller();
    }
    pendingWrites.countUp();
    maxIOSemaphore.acquireUninterruptibly();
    try
    {
        Native.read(this, handler, position, size, directByteBuffer, aioPackage);
    }
    catch (HornetQException e)
    {
        // Release only if an exception happened
        maxIOSemaphore.release();
        pendingWrites.countDown();
        throw e;
    }
    catch (RuntimeException e)
    {
        // Release only if an exception happened
        maxIOSemaphore.release();
        pendingWrites.countDown();
        throw e;
    }
}

public long size() throws HornetQException
{
    checkOpened();
    return Native.size0(handler);
}

public void fill(final long position, final int blocks, final long size, final byte fillChar) throws HornetQException
{
    checkOpened();
    try
    {
        Native.fill(handler, position, blocks, size, fillChar);
    }
    catch (HornetQException e)
    {
        fireExceptionListener(e.getType().getCode(), e.getMessage());
        throw e;
    }
}

public int getBlockSize()
{
    return 512;
}

```

```

}

/**
 * This needs to be synchronized because of
 * http://bugs.sun.com/view_bug.do?bug_id=6791815
 * http://mail.openjdk.java.net/pipermail/hotspot-runtime-dev/2009-January/000386.html
 */
public static synchronized ByteBuffer newBuffer(final int size)
{
    if (size % 512 != 0)
    {
        throw new RuntimeException("Buffer size needs to be aligned to 512");
    }

    return Native.newNativeBuffer(size);
}

public void setBufferCallback(final BufferCallback callback)
{
    bufferCallback = callback;
}

/**
 * Return the JNI handler used on C++
 */
public ByteBuffer getHandler()
{
    return handler;
}

public static void clearBuffer(final ByteBuffer buffer)
{
    Native.resetBuffer(buffer, buffer.limit());
    buffer.position(0);
}

// Protected -----

@Override
protected void finalize()
{
    if (opened)
    {
        HornetQJournalLogger.LOGGER.fileFinalizedWhileOpen(fileName);
    }
}

// Private -----

```

```

private void callbackDone(final AIOCallback callback, final long sequence, final ByteBuffer buffer)
{
    maxIOSemaphore.release();

    pendingWrites.countDown();

    callbackLock.lock();

    try
    {
        if (sequence == -1)
        {
            callback.done();
        }
        else
        {
            if (sequence == nextReadSequence)
            {
                nextReadSequence++;
                callback.done();
                flushCallbacks();
            }
            else
            {
                pendingCallbacks.add(new CallbackHolder(sequence, callback));
            }
        }

        // The buffer is not sent on callback for read operations
        if (bufferCallback != null && buffer != null)
        {
            bufferCallback.bufferDone(buffer);
        }
    }
    finally
    {
        callbackLock.unlock();
    }
}

private void flushCallbacks()
{
    while (!pendingCallbacks.isEmpty() && pendingCallbacks.peek().sequence == nextReadSequence)
    {
        CallbackHolder holder = pendingCallbacks.poll();
        if (holder.isError())
    }
}

```

```

    {
        errorCallback = (ErrorCallback) holder;
        holder.callback.onError(error.errorCode, error.message);
    }
    else
    {
        holder.callback.done();
    }
    nextReadSequence++;
}
}

// Called by the JNI layer.. just ignore the
// warning
private void callbackError(final AIOCallback callback,
                           final long sequence,
                           final ByteBuffer buffer,
                           final int errorCode,
                           final String errorMessage)
{
    HornetQJournalLogger.LOGGER.callbackError(errorMessage);

    fireExceptionListener(errorCode, errorMessage);

    maxIOSemaphore.release();

    pendingWrites.countDown();

    callbackLock.lock();

    try
    {
        {
            if (sequence == -1)
            {
                callback.onError(errorCode, errorMessage);
            }
            else
            {
                {
                    if (sequence == nextReadSequence)
                    {
                        nextReadSequence++;
                        callback.onError(errorCode, errorMessage);
                        flushCallbacks();
                    }
                    else
                    {
                        pendingCallbacks.add(new ErrorCallback(sequence, callback, errorCode, errorMessage));
                    }
                }
            }
        }
    }
}

```

```

    }
}
finally
{
    callbackLock.unlock();
}

// The buffer is not sent on callback for read operations
if (bufferCallback != null && buffer != null)
{
    bufferCallback.bufferDone(buffer);
}
}

/**
 * This is called by the native layer
 *
 * @param errorCode
 * @param errorMessage
 */
private void fireExceptionListener(final int errorCode, final String errorMessage)
{
    HornetQJournalLogger.LOGGER.ioError(errorCode, errorMessage);
    if (ioExceptionListener != null)
    {
        ioExceptionListener.onIOException(HornetQExceptionType.getType(errorCode).createException(errorMessage), errorMessage);
    }
}

private void pollEvents()
{
    if (!opened)
    {
        return;
    }
    Native.internalPollEvents(handler);
}

private void startPoller()
{
    writeLock.lock();

    try
    {
        if (poller == null)
        {

```

```

    pollerLatch.countUp();
    poller = new PollerRunnable();
    try
    {
        pollerExecutor.execute(poller);
    }
    catch (Exception ex)
    {
        HornetQJournalLogger.LOGGER.errorStartingPoller(ex);
    }
}
finally
{
    writeLock.unlock();
}
}

private void checkOpened()
{
    if (!opened)
    {
        throw new RuntimeException("File is not opened");
    }
}

/**
 * @throws HornetQException
 * @throws InterruptedException
 */
private void stopPoller() throws HornetQException, InterruptedException
{
    Native.stopPoller(handler);
    // We need to make sure we won't call close until Poller is
    // completely done, or we might get beautiful GPFs
    pollerLatch.await();
}

public static FileLock lock(int handle)
{
    if (Native.flock(handle))
    {
        return new HornetQFileLock(handle);
    }
    else
    {
        return null;
    }
}

```

```

}

// Native -----

/**
 * Explicitly adding a compare to clause that returns 0 for at least the same object.
 * <p/>
 * If { @link Comparable#compareTo(Object)} does not return 0 -for at least the same object- some
 * Collection classes methods will fail (example { @link PriorityQueue#remove(Object)}. If it
 * returns 0, then { @link #equals(Object)} must return { @code true} for the exact same cases,
 * otherwise we will get compatibility problems between Java5 and Java6.
 */
private static class CallbackHolder implements Comparable<CallbackHolder>
{
    final long sequence;

    final AIOCallback callback;

    public boolean isError()
    {
        return false;
    }

    public CallbackHolder(final long sequence, final AIOCallback callback)
    {
        this.sequence = sequence;
        this.callback = callback;
    }

    public int compareTo(final CallbackHolder o)
    {
        // It shouldn't be equals in any case
        if (this == o)
            return 0;
        if (sequence <= o.sequence)
        {
            return -1;
        }
        else
        {
            return 1;
        }
    }
}

/**
 * See { @link CallbackHolder}.
 */

```

```

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

/**
 * See { @link CallbackHolder}.
 */
@Override
public boolean equals(Object obj)
{
    return super.equals(obj);
}
}

private static final class errorCallback extends CallbackHolder
{
    final int errorCode;

    final String message;

    @Override
    public boolean isError()
    {
        return true;
    }

    public errorCallback(final long sequence, final AIOCallback callback, final int errorCode, final String message)
    {
        super(sequence, callback);

        this.errorCode = errorCode;

        this.message = message;
    }

    /**
     * See { @link CallbackHolder}.
     */
    @Override
    public int hashCode()
    {
        return super.hashCode();
    }

    /**
     * See { @link CallbackHolder}.

```

```

    */
    @Override
    public boolean equals(Object obj)
    {
        return super.equals(obj);
    }
}

private class PollerRunnable implements Runnable
{
    PollerRunnable()
    {
    }

    public void run()
    {
        try
        {
            pollEvents();
        }
        finally
        {
            // This gives us extra protection in cases of interruption
            // Case the poller thread is interrupted, this will allow us to
            // restart the thread when required
            poller = null;
            pollerLatch.countDown();
        }
    }
}

}
/*
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 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
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 * permissions and limitations under the License.
 */
package org.hornetq.core.journal.impl;

import java.util.concurrent.CountDownLatch;
import java.util.concurrent.TimeUnit;

```

```

import org.hornetq.api.core.HornetQException;
import org.hornetq.api.core.HornetQExceptionType;
import org.hornetq.journal.HornetQJournalLogger;

/**
 * A SimpleWaitIOCallback
 *
 * @author <a href="mailto:clebert.suconic@jboss.org">Clebert Suconic</a>
 *
 */
public final class SimpleWaitIOCallback extends SyncIOCompletion
{
    private final CountdownLatch latch = new CountdownLatch(1);

    private volatile String errorMessage;

    private volatile int errorCode = 0;

    @Override
    public String toString()
    {
        return SimpleWaitIOCallback.class.getName();
    }

    public void done()
    {
        latch.countDown();
    }

    public void onError(final int errorCode1, final String errorMessage1)
    {
        this.errorCode = errorCode1;

        this.errorMessage = errorMessage1;

        HornetQJournalLogger.LOGGER.errorOnIOCallback(errorMessage1);

        latch.countDown();
    }

    @Override
    public void waitCompletion() throws InterruptedException, HornetQException
    {
        while (true)
        {
            if (latch.await(2, TimeUnit.SECONDS))

```

```

        break;
    }

    if (errorMessage != null)
    {
        throw HornetQExceptionType.createException(errorCode, errorMessage);
    }

    return;
}

public boolean waitCompletion(final long timeout) throws InterruptedException, HornetQException
{
    boolean retValue = latch.await(timeout, TimeUnit.MILLISECONDS);

    if (errorMessage != null)
    {
        throw HornetQExceptionType.createException(errorCode, errorMessage);
    }

    return retValue;
}

@Override
public void storeLineUp()
{
}
}
/*
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 * with the License. You may obtain a copy of the License at
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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. See the License for the specific language governing
 * permissions and limitations under the License.
 */
package org.hornetq.core.journal.impl.dataformat;

import org.hornetq.api.core.HornetQBuffer;
import org.hornetq.core.journal.EncodingSupport;
import org.hornetq.core.journal.impl.JournalImpl;

/**
 * <p>

```

* A transaction record (Commit or Prepare), will hold the number of elements the transaction has in
 * the current file.
 * <p>
 * While loading the { @link org.hornetq.core.journal.impl.JournalFile }, the number of operations found is matched
 against this
 * number. If for any reason there are missing operations, the transaction will be ignored.
 * <p>
 * We can't just use a global counter as reclaiming could delete files after the transaction was
 * successfully committed. That also means not having a whole file on journal-reload doesn't mean we
 * have to invalidate the transaction
 * <p>
 * The commit operation itself is not included in this total.
 * @author <mailto:clebert.suconic@jboss.org">Clebert Suconic
 */

```
public class JournalCompleteRecordTX extends JournalInternalRecord
{
    public enum TX_RECORD_TYPE
    {
        COMMIT, PREPARE;
    }
    private final TX_RECORD_TYPE txRecordType;

    private final long txID;

    private final EncodingSupport transactionData;

    private int numberOfRecords;

    public JournalCompleteRecordTX(final TX_RECORD_TYPE isCommit, final long txID, final EncodingSupport
transactionData)
    {
        this.txRecordType = isCommit;

        this.txID = txID;

        this.transactionData = transactionData;
    }

    @Override
    public void encode(final HornetQBuffer buffer)
    {
        if (txRecordType == TX_RECORD_TYPE.COMMIT)
        {
            buffer.writeByte(JournalImpl.COMMIT_RECORD);
        }
        else
        {
            buffer.writeByte(JournalImpl.PREPARE_RECORD);
        }
    }
}
```

```

    }

    buffer.writeInt(fileID);

    buffer.writeByte(compactCount);

    buffer.writeLong(txID);

    buffer.writeInt(numberOfRecords);

    if (transactionData != null)
    {
        buffer.writeInt(transactionData.getEncodeSize());
    }

    if (transactionData != null)
    {
        transactionData.encode(buffer);
    }

    buffer.writeInt(getEncodeSize());
}

@Override
public void setNumberOfRecords(final int records)
{
    numberOfRecords = records;
}

@Override
public int getNumberOfRecords()
{
    return numberOfRecords;
}

@Override
public int getEncodeSize()
{
    if (txRecordType == TX_RECORD_TYPE.COMMIT)
    {
        return JournalImpl.SIZE_COMPLETE_TRANSACTION_RECORD + 1;
    }
    else
    {
        return JournalImpl.SIZE_PREPARE_RECORD + (transactionData != null ? transactionData.getEncodeSize() :
0) + 1;
    }
}
}

```

```

}
/*
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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. See the License for the specific language governing
 * permissions and limitations under the License.
 */
package org.hornetq.core.journal.impl;

import java.util.Map;
import java.util.Map.Entry;
import java.util.concurrent.ConcurrentHashMap;
import java.util.concurrent.atomic.AtomicInteger;

import org.hornetq.core.journal.SequentialFile;

/**
 *
 * A JournalFileImpl
 *
 * @author <a href="mailto:tim.fox@jboss.com">Tim Fox</a>
 * @author <a href="mailto:clebert.suconic@jboss.com">Clebert Suconic</a>
 *
 */
public class JournalFileImpl implements JournalFile
{
    private final SequentialFile file;

    private final long fileID;

    private final int recordID;

    private long offset;

    private final AtomicInteger posCount = new AtomicInteger(0);

    private final AtomicInteger liveBytes = new AtomicInteger(0);

    private boolean canReclaim;

    private final AtomicInteger totalNegativeToOthers = new AtomicInteger(0);

```

```

private final int version;

private final Map<JournalFile, AtomicInteger> negCounts = new ConcurrentHashMap<JournalFile,
AtomicInteger>();

public JournalFileImpl(final SequentialFile file, final long fileID, final int version)
{
    this.file = file;

    this.fileID = fileID;

    this.version = version;

    recordID = (int)(fileID & Integer.MAX_VALUE);
}

public int getPosCount()
{
    return posCount.intValue();
}

@Override
public boolean isCanReclaim()
{
    return canReclaim;
}

@Override
public void setCanReclaim(final boolean canReclaim)
{
    this.canReclaim = canReclaim;
}

public void incNegCount(final JournalFile file)
{
    if (file != this)
    {
        totalNegativeToOthers.incrementAndGet();
    }
    getOrCreateNegCount(file).incrementAndGet();
}

public int getNegCount(final JournalFile file)
{
    AtomicInteger count = negCounts.get(file);

    if (count == null)
    {

```

```

        return 0;
    }
    else
    {
        return count.intValue();
    }
}

public int getJournalVersion()
{
    return version;
}

public void incPosCount()
{
    posCount.incrementAndGet();
}

public void decPosCount()
{
    posCount.decrementAndGet();
}

public long getOffset()
{
    return offset;
}

public long getFileID()
{
    return fileID;
}

public int getRecordID()
{
    return recordID;
}

public void setOffset(final long offset)
{
    this.offset = offset;
}

public SequentialFile getFile()
{
    return file;
}

```

```

@Override
public String toString()
{
    try
    {
        return "JournalFileImpl: (" + file.getFileName() + " id = " + fileID + ", recordID = " + recordID + ")";
    }
    catch (Exception e)
    {
        e.printStackTrace();
        return "Error:" + e.toString();
    }
}

/** Receive debug information about the journal */
public String debug()
{
    StringBuilder builder = new StringBuilder();

    for (Entry<JournalFile, AtomicInteger> entry : negCounts.entrySet())
    {
        builder.append(" file = " + entry.getKey() + " negcount value = " + entry.getValue() + "\n");
    }

    return builder.toString();
}

private synchronized AtomicInteger getOrCreateNegCount(final JournalFile file)
{
    AtomicInteger count = negCounts.get(file);

    if (count == null)
    {
        count = new AtomicInteger();
        negCounts.put(file, count);
    }

    return count;
}

@Override
public void addSize(final int bytes)
{
    liveBytes.addAndGet(bytes);
}

@Override
public void decSize(final int bytes)

```

```

    {
        liveBytes.addAndGet(-bytes);
    }

    @Override
    public int getLiveSize()
    {
        return liveBytes.get();
    }

    public int getTotalNegativeToOthers()
    {
        return totalNegativeToOthers.get();
    }

}
/*
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 */
package org.hornetq.core.journal.impl;

import org.hornetq.core.journal.IOCompletion;

/**
 * Internal class used to manage explicit syncs on the Journal through callbacks.
 *
 * @author <mailto:clebert.suonic@jboss.org>Clebert Suonic</a>
 *
 */
public abstract class SyncIOCompletion implements IOCompletion
{

    // Constants -----

    // Attributes -----

    // Static -----

```

```

// Constructors -----

// Public -----

public abstract void waitCompletion() throws Exception;

// Package protected -----

// Protected -----

// Private -----

// Inner classes -----

}
/*
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 * permissions and limitations under the License.
 */
package org.hornetq.core.journal.impl;

import java.io.Serializable;
import java.nio.ByteBuffer;
import java.util.ArrayList;
import java.util.Collections;
import java.util.Comparator;
import java.util.HashMap;
import java.util.HashSet;
import java.util.Iterator;
import java.util.LinkedHashMap;
import java.util.LinkedList;
import java.util.List;
import java.util.Map;
import java.util.Set;
import java.util.concurrent.ConcurrentHashMap;
import java.util.concurrent.ConcurrentMap;
import java.util.concurrent.CountDownLatch;
import java.util.concurrent.ExecutorService;
import java.util.concurrent.Executors;
import java.util.concurrent.ThreadFactory;

```

```

import java.util.concurrent.TimeUnit;
import java.util.concurrent.atomic.AtomicBoolean;
import java.util.concurrent.atomic.AtomicInteger;
import java.util.concurrent.atomic.AtomicLong;
import java.util.concurrent.locks.ReadWriteLock;
import java.util.concurrent.locks.ReentrantLock;
import java.util.concurrent.locks.ReentrantReadWriteLock;

import org.hornetq.api.core.HornetQBuffer;
import org.hornetq.api.core.HornetQBuffers;
import org.hornetq.api.core.Pair;
import org.hornetq.core.journal.EncodingSupport;
import org.hornetq.core.journal.IOAsyncTask;
import org.hornetq.core.journal.IOCompletion;
import org.hornetq.core.journal.JournalLoadInformation;
import org.hornetq.core.journal.LoaderCallback;
import org.hornetq.core.journal.PreparedTransactionInfo;
import org.hornetq.core.journal.RecordInfo;
import org.hornetq.core.journal.SequentialFile;
import org.hornetq.core.journal.SequentialFileFactory;
import org.hornetq.core.journal.TestableJournal;
import org.hornetq.core.journal.TransactionFailureCallback;
import org.hornetq.core.journal.impl.dataformat.ByteArrayEncoding;
import org.hornetq.core.journal.impl.dataformat.JournalAddRecord;
import org.hornetq.core.journal.impl.dataformat.JournalAddRecordTX;
import org.hornetq.core.journal.impl.dataformat.JournalCompleteRecordTX;
import org.hornetq.core.journal.impl.dataformat.JournalCompleteRecordTX.TX_RECORD_TYPE;
import org.hornetq.core.journal.impl.dataformat.JournalDeleteRecord;
import org.hornetq.core.journal.impl.dataformat.JournalDeleteRecordTX;
import org.hornetq.core.journal.impl.dataformat.JournalInternalRecord;
import org.hornetq.core.journal.impl.dataformat.JournalRollbackRecordTX;
import org.hornetq.journal.HornetQJournalBundle;
import org.hornetq.journal.HornetQJournalLogger;
import org.hornetq.utils.ConcurrentHashSet;
import org.hornetq.utils.DataConstants;

/**
 * <p>A circular log implementation.</p>
 * <p/>
 * <p>Look at { @link JournalImpl#load(LoaderCallback)} for the file layout
 *
 * @author <a href="mailto:tim.fox@jboss.com">Tim Fox</a>
 * @author <a href="mailto:clebert.suconic@jboss.com">Clebert Suconic</a>
 */
public class JournalImpl extends JournalBase implements TestableJournal, JournalRecordProvider
{

    // Constants -----

```

```

public static final int FORMAT_VERSION = 2;

private static final int[] COMPATIBLE_VERSIONS = new int[]{1};

// Static -----
private static final boolean trace = HornetQJournalLogger.LOGGER.isTraceEnabled();

// This is useful at debug time...
// if you set it to true, all the appends, deletes, rollbacks, commits, etc.. are sent to System.out
private static final boolean TRACE_RECORDS = trace;

// This method exists just to make debug easier.
// I could replace log.trace by log.info temporarily while I was debugging
// Journal
private static void trace(final String message)
{
    HornetQJournalLogger.LOGGER.trace(message);
}

private static void traceRecord(final String message)
{
    HornetQJournalLogger.LOGGER.trace(message);
}

// The sizes of primitive types

public static final int MIN_FILE_SIZE = 1024;

// FileID(Long) + JournalVersion + UserVersion
public static final int SIZE_HEADER = DataConstants.SIZE_LONG + DataConstants.SIZE_INT +
DataConstants.SIZE_INT;

private static final int BASIC_SIZE = DataConstants.SIZE_BYTE + DataConstants.SIZE_INT +
DataConstants.SIZE_INT;

public static final int SIZE_ADD_RECORD = JournalImpl.BASIC_SIZE + DataConstants.SIZE_LONG +
    DataConstants.SIZE_BYTE +
    DataConstants.SIZE_INT /* + record.length */;

// Record markers - they must be all unique

public static final byte ADD_RECORD = 11;

public static final byte UPDATE_RECORD = 12;

public static final int SIZE_ADD_RECORD_TX = JournalImpl.BASIC_SIZE + DataConstants.SIZE_LONG +
    DataConstants.SIZE_BYTE +

```

```

DataConstants.SIZE_LONG +
DataConstants.SIZE_INT /* + record.length */;

public static final byte ADD_RECORD_TX = 13;

public static final byte UPDATE_RECORD_TX = 14;

public static final int SIZE_DELETE_RECORD_TX = JournalImpl.BASIC_SIZE + DataConstants.SIZE_LONG
+
DataConstants.SIZE_LONG +
DataConstants.SIZE_INT /* + record.length */;

public static final byte DELETE_RECORD_TX = 15;

public static final int SIZE_DELETE_RECORD = JournalImpl.BASIC_SIZE + DataConstants.SIZE_LONG;

public static final byte DELETE_RECORD = 16;

public static final int SIZE_COMPLETE_TRANSACTION_RECORD = JournalImpl.BASIC_SIZE +
DataConstants.SIZE_LONG +
DataConstants.SIZE_INT;

public static final int SIZE_PREPARE_RECORD = JournalImpl.SIZE_COMPLETE_TRANSACTION_RECORD
+ DataConstants.SIZE_INT;

public static final byte PREPARE_RECORD = 17;

public static final int SIZE_COMMIT_RECORD = JournalImpl.SIZE_COMPLETE_TRANSACTION_RECORD;

public static final byte COMMIT_RECORD = 18;

public static final int SIZE_ROLLBACK_RECORD = JournalImpl.BASIC_SIZE + DataConstants.SIZE_LONG;

public static final byte ROLLBACK_RECORD = 19;

protected static final byte FILL_CHARACTER = (byte) 'J';

// Attributes -----

private volatile boolean autoReclaim = true;

private final int userVersion;

private final int minFiles;

private final float compactPercentage;

private final int compactMinFiles;

```

```

private final SequentialFileFactory fileFactory;

private final JournalFilesRepository filesRepository;

// Compacting may replace this structure
private final ConcurrentMap<Long, JournalRecord> records = new ConcurrentHashMap<Long, JournalRecord>();

// Compacting may replace this structure
private final ConcurrentMap<Long, JournalTransaction> transactions = new ConcurrentHashMap<Long,
JournalTransaction>();

// This will be set only while the JournalCompactor is being executed
private volatile JournalCompactor compactor;

private final AtomicBoolean compactorRunning = new AtomicBoolean();

private ExecutorService filesExecutor = null;

private ExecutorService compactorExecutor = null;

private ConcurrentHashSet<CountDownLatch> latches = new ConcurrentHashSet<CountDownLatch>();

// Lock used during the append of records
// This lock doesn't represent a global lock.
// After a record is appended, the usedFile can't be changed until the positives and negatives are updated
private final ReentrantLock lockAppend = new ReentrantLock();

/**
 * We don't lock the journal during the whole compacting operation. During compacting we only
 * lock it (i) when gathering the initial structure, and (ii) when replicating the structures
 * after finished compacting.
 * <p/>
 * However we need to lock it while taking and updating snapshots
 */
private final ReadWriteLock journalLock = new ReentrantReadWriteLock();
private final ReadWriteLock compactorLock = new ReentrantReadWriteLock();

private volatile JournalFile currentFile;

private volatile JournalState state = JournalState.STOPPED;

private final Reclaimer reclaimer = new Reclaimer();

// Constructors -----

public JournalImpl(final int fileSize,
                  final int minFiles,

```

```

        final int compactMinFiles,
        final int compactPercentage,
        final SequentialFileFactory fileFactory,
        final String filePrefix,
        final String fileExtension,
        final int maxAIO)
    {
        this(fileSize, minFiles, compactMinFiles, compactPercentage, fileFactory, filePrefix, fileExtension, maxAIO, 0);
    }

public JournalImpl(final int fileSize,
        final int minFiles,
        final int compactMinFiles,
        final int compactPercentage,
        final SequentialFileFactory fileFactory,
        final String filePrefix,
        final String fileExtension,
        final int maxAIO, final int userVersion)
    {
        super(fileFactory.isSupportsCallbacks(), fileSize);
        if (fileSize % fileFactory.getAlignment() != 0)
        {
            throw new IllegalArgumentException("Invalid journal-file-size " + fileSize + ", It should be multiple of " +
                fileFactory.getAlignment());
        }
        if (minFiles < 2)
        {
            throw new IllegalArgumentException("minFiles cannot be less than 2");
        }
        if (compactPercentage < 0 || compactPercentage > 100)
        {
            throw new IllegalArgumentException("Compact Percentage out of range");
        }

        if (compactPercentage == 0)
        {
            this.compactPercentage = 0;
        }
        else
        {
            this.compactPercentage = compactPercentage / 100f;
        }

        this.compactMinFiles = compactMinFiles;
        this.minFiles = minFiles;

        this.fileFactory = fileFactory;
    }

```

```

filesRepository = new JournalFilesRepository(fileFactory,
        this,
        filePrefix,
        fileExtension,
        userVersion,
        maxAIO,
        fileSize,
        minFiles);

this.userVersion = userVersion;
}

@Override
public String toString()
{
    return "JournalImpl(state=" + state + ", currentFile=[" + currentFile + "], hash=" + super.toString() + ")";
}

public void runDirectJournalBlast() throws Exception
{
    final int numIts = 100000000;

    HornetQJournalLogger.LOGGER.runningJournalBlast(numIts);

    final CountdownLatch latch = new CountdownLatch(numIts * 2);

    class MyIOAsyncTask implements IOCompletion
    {
        public void done()
        {
            latch.countDown();
        }

        public void onError(final int errorCode, final String errorMessage)
        {
        }

        public void storeLineUp()
        {
        }
    }

    final MyIOAsyncTask task = new MyIOAsyncTask();

    final int recordSize = 1024;

```

```

final byte[] bytes = new byte[recordSize];

class MyRecord implements EncodingSupport
{

    public void decode(final HornetQBuffer buffer)
    {
    }

    public void encode(final HornetQBuffer buffer)
    {
        buffer.writeBytes(bytes);
    }

    public int getEncodeSize()
    {
        return recordSize;
    }

}

MyRecord record = new MyRecord();

for (int i = 0; i < numIts; i++)
{
    appendAddRecord(i, (byte) 1, record, true, task);
    appendDeleteRecord(i, true, task);
}

latch.await();
}

public Map<Long, JournalRecord> getRecords()
{
    return records;
}

public JournalFile getCurrentFile()
{
    return currentFile;
}

public JournalCompactor getCompactor()
{
    return compactor;
}

/**

```

```

* this method is used internally only however tools may use it to maintenance.
* It won't be part of the interface as the tools should be specific to the implementation
*/
public List<JournalFile> orderFiles() throws Exception
{
    List<String> fileNames = fileFactory.listFiles(filesRepository.getFileExtension());

    List<JournalFile> orderedFiles = new ArrayList<JournalFile>(fileNames.size());

    for (String fileName : fileNames)
    {
        SequentialFile file = fileFactory.createSequentialFile(fileName, filesRepository.getMaxAIO());

        file.open(1, false);

        try
        {

            JournalFileImpl jrnFile = readFileHeader(file);

            orderedFiles.add(jrnFile);
        }
        finally
        {
            file.close();
        }
    }

    // Now order them by ordering id - we can't use the file name for ordering
    // since we can re-use dataFiles

    Collections.sort(orderedFiles, new JournalFileComparator());

    return orderedFiles;
}

/**
* this method is used internally only however tools may use it to maintenance.
*/
public static int readJournalFile(final SequentialFileFactory fileFactory,
                                final JournalFile file,
                                final JournalReaderCallback reader) throws Exception
{
    file.getFile().open(1, false);
    ByteBuffer wholeFileBuffer = null;
    try
    {
        final int filesize = (int) file.getFile().size();

```

```

wholeFileBuffer = fileFactory.newBuffer(filesize);

final int journalFileSize = file.getFile().read(wholeFileBuffer);

if (journalFileSize != filesize)
{
    throw new RuntimeException("Invalid read! The system couldn't read the entire file into memory");
}

// First long is the ordering timestamp, we just jump its position
wholeFileBuffer.position(JournalImpl.SIZE_HEADER);

int lastDataPos = JournalImpl.SIZE_HEADER;

while (wholeFileBuffer.hasRemaining())
{
    final int pos = wholeFileBuffer.position();

    byte recordType = wholeFileBuffer.get();

    if (recordType < JournalImpl.ADD_RECORD || recordType > JournalImpl.ROLLBACK_RECORD)
    {
        // I - We scan for any valid record on the file. If a hole
        // happened on the middle of the file we keep looking until all
        // the possibilities are gone
        continue;
    }

    if (JournalImpl.isInvalidSize(journalFileSize, wholeFileBuffer.position(), DataConstants.SIZE_INT))
    {
        reader.markAsDataFile(file);

        wholeFileBuffer.position(pos + 1);
        // II - Ignore this record, let's keep looking
        continue;
    }

    // III - Every record has the file-id.
    // This is what supports us from not re-filling the whole file
    int readFileId = wholeFileBuffer.getInt();

    // This record is from a previous file-usage. The file was
    // reused and we need to ignore this record
    if (readFileId != file.getRecordID())
    {
        wholeFileBuffer.position(pos + 1);
        continue;
    }
}

```

```

}

short compactCount = 0;

if (file.getJournalVersion() >= 2)
{
    if (JournalImpl.isInvalidSize(journalFileSize, wholeFileBuffer.position(), DataConstants.SIZE_BYTE))
    {
        reader.markAsDataFile(file);

        wholeFileBuffer.position(pos + 1);
        continue;
    }

    compactCount = wholeFileBuffer.get();
}

long transactionID = 0;

if (JournalImpl.isTransaction(recordType))
{
    if (JournalImpl.isInvalidSize(journalFileSize, wholeFileBuffer.position(), DataConstants.SIZE_LONG))
    {
        wholeFileBuffer.position(pos + 1);
        reader.markAsDataFile(file);
        continue;
    }

    transactionID = wholeFileBuffer.getLong();
}

long recordID = 0;

// If prepare or commit
if (!JournalImpl.isCompleteTransaction(recordType))
{
    if (JournalImpl.isInvalidSize(journalFileSize, wholeFileBuffer.position(), DataConstants.SIZE_LONG))
    {
        wholeFileBuffer.position(pos + 1);
        reader.markAsDataFile(file);
        continue;
    }

    recordID = wholeFileBuffer.getLong();
}

// We use the size of the record to validate the health of the
// record.

```

```

// (V) We verify the size of the record

// The variable record portion used on Updates and Appends
int variableSize = 0;

// Used to hold extra data on transaction prepares
int preparedTransactionExtraDataSize = 0;

byte userRecordType = 0;

byte[] record = null;

if (JournalImpl.isContainsBody(recordType))
{
    if (JournalImpl.isInvalidSize(journalFileSize, wholeFileBuffer.position(), DataConstants.SIZE_INT))
    {
        wholeFileBuffer.position(pos + 1);
        reader.markAsDataFile(file);
        continue;
    }

    variableSize = wholeFileBuffer.getInt();

    if (recordType != JournalImpl.DELETE_RECORD_TX)
    {
        if (JournalImpl.isInvalidSize(journalFileSize, wholeFileBuffer.position(), 1))
        {
            wholeFileBuffer.position(pos + 1);
            continue;
        }

        userRecordType = wholeFileBuffer.get();
    }

    if (JournalImpl.isInvalidSize(journalFileSize, wholeFileBuffer.position(), variableSize))
    {
        wholeFileBuffer.position(pos + 1);
        continue;
    }

    record = new byte[variableSize];

    wholeFileBuffer.get(record);
}

// Case this is a transaction, this will contain the number of pendingTransactions on a transaction, at the
// currentFile
int transactionCheckNumberOfRecords = 0;

```

```

if (recordType == JournalImpl.PREPARE_RECORD || recordType == JournalImpl.COMMIT_RECORD)
{
    if (JournalImpl.isInvalidSize(journalFileSize, wholeFileBuffer.position(), DataConstants.SIZE_INT))
    {
        wholeFileBuffer.position(pos + 1);
        continue;
    }

    transactionCheckNumberOfRecords = wholeFileBuffer.getInt();

    if (recordType == JournalImpl.PREPARE_RECORD)
    {
        if (JournalImpl.isInvalidSize(journalFileSize, wholeFileBuffer.position(), DataConstants.SIZE_INT))
        {
            wholeFileBuffer.position(pos + 1);
            continue;
        }
        // Add the variable size required for preparedTransactions
        preparedTransactionExtraDataSize = wholeFileBuffer.getInt();
    }
    variableSize = 0;
}

int recordSize = JournalImpl.getRecordSize(recordType, file.getJournalVersion());

// VI - this is completing V, We will validate the size at the end
// of the record,
// But we avoid buffer overflows by damaged data
if (JournalImpl.isInvalidSize(journalFileSize, pos, recordSize + variableSize +
    preparedTransactionExtraDataSize))
{
    // Avoid a buffer overflow caused by damaged data... continue
    // scanning for more pendingTransactions...
    JournalImpl.trace("Record at position " + pos +
        " recordType = " +
        recordType +
        " file:" +
        file.getFile().getFileName() +
        " recordSize: " +
        recordSize +
        " variableSize: " +
        variableSize +
        " preparedTransactionExtraDataSize: " +
        preparedTransactionExtraDataSize +
        " is corrupted and it is being ignored (II)");
    // If a file has damaged pendingTransactions, we make it a dataFile, and the
    // next reclaiming will fix it

```

```

    reader.markAsDataFile(file);
    wholeFileBuffer.position(pos + 1);

    continue;
}

int oldPos = wholeFileBuffer.position();

wholeFileBuffer.position(pos + variableSize +
    recordSize +
    preparedTransactionExtraDataSize -
    DataConstants.SIZE_INT);

int checkSize = wholeFileBuffer.getInt();

// VII - The checkSize at the end has to match with the size
// informed at the beginning.
// This is like testing a hash for the record. (We could replace the
// checkSize by some sort of calculated hash)
if (checkSize != variableSize + recordSize + preparedTransactionExtraDataSize)
{
    JournalImpl.trace("Record at position " + pos +
        " recordType = " +
        recordType +
        " possible transactionID = " +
        transactionID +
        " possible recordID = " +
        recordID +
        " file:" +
        file.getFile().getFileName() +
        " is corrupted and it is being ignored (III)");

    // If a file has damaged pendingTransactions, we make it a dataFile, and the
    // next reclaiming will fix it
    reader.markAsDataFile(file);

    wholeFileBuffer.position(pos + DataConstants.SIZE_BYTE);

    continue;
}

wholeFileBuffer.position(oldPos);

// At this point everything is checked. So we relax and just load
// the data now.

switch (recordType)
{

```

```

case ADD_RECORD:
{
    reader.onReadAddRecord(new RecordInfo(recordID, userRecordType, record, false, compactCount));
    break;
}

case UPDATE_RECORD:
{
    reader.onReadUpdateRecord(new RecordInfo(recordID, userRecordType, record, true, compactCount));
    break;
}

case DELETE_RECORD:
{
    reader.onReadDeleteRecord(recordID);
    break;
}

case ADD_RECORD_TX:
{
    reader.onReadAddRecordTX(transactionID, new RecordInfo(recordID,
        userRecordType,
        record,
        false,
        compactCount));

    break;
}

case UPDATE_RECORD_TX:
{
    reader.onReadUpdateRecordTX(transactionID, new RecordInfo(recordID,
        userRecordType,
        record,
        true,
        compactCount));

    break;
}

case DELETE_RECORD_TX:
{
    reader.onReadDeleteRecordTX(transactionID, new RecordInfo(recordID,
        (byte) 0,
        record,
        true,
        compactCount));

    break;
}

```

```

case PREPARE_RECORD:
{

    byte[] extraData = new byte[preparedTransactionExtraDataSize];

    wholeFileBuffer.get(extraData);

    reader.onReadPrepareRecord(transactionID, extraData, transactionCheckNumberOfRecords);

    break;
}
case COMMIT_RECORD:
{

    reader.onReadCommitRecord(transactionID, transactionCheckNumberOfRecords);
    break;
}
case ROLLBACK_RECORD:
{
    reader.onReadRollbackRecord(transactionID);
    break;
}
default:
{
    throw new IllegalStateException("Journal " + file.getFile().getFileName() +
        " is corrupt, invalid record type " +
        recordType);
}
}

checkSize = wholeFileBuffer.getInt();

// This is a sanity check about the loading code itself.
// If this checkSize doesn't match, it means the reading method is
// not doing what it was supposed to do
if (checkSize != variableSize + recordSize + preparedTransactionExtraDataSize)
{
    throw new IllegalStateException("Internal error on loading file. Position doesn't match with checkSize, file
= " + file.getFile() +
        ", pos = " +
        pos);
}

lastDataPos = wholeFileBuffer.position();

}

return lastDataPos;

```

```

    }
    catch (Throwable e)
    {
        HornetQJournalLogger.LOGGER.errorReadingFile(e);
        throw new Exception(e.getMessage(), e);
    }
    finally
    {
        if (wholeFileBuffer != null)
        {
            fileFactory.releaseBuffer(wholeFileBuffer);
        }

        try
        {
            file.getFile().close();
        }
        catch (Throwable ignored)
        {
        }
    }
}

// Journal implementation
// -----

@Override
public void appendAddRecord(final long id,
                            final byte recordType,
                            final EncodingSupport record,
                            final boolean sync,
                            final IOCompletion callback) throws Exception
{
    checkJournalIsLoaded();

    journalLock.readLock().lock();

    try
    {
        {
            JournalInternalRecord addRecord = new JournalAddRecord(true, id, recordType, record);

            if (callback != null)
            {
                {
                    callback.storeLineUp();
                }
            }

            lockAppend.lock();
            try

```

```

{
    JournalFile usedFile = appendRecord(addRecord, false, sync, null, callback);

    if (JournalImpl.TRACE_RECORDS)
    {
        JournalImpl.traceRecord("appendAddRecord:id=" + id +
            ", userRecordType=" +
            recordType +
            ", usedFile = " +
            usedFile);
    }

    records.put(id, new JournalRecord(usedFile, addRecord.getEncodeSize()));
}
finally
{
    lockAppend.unlock();
}
}
finally
{
    journalLock.readLock().unlock();
}
}

```

@Override

```

public void appendUpdateRecord(final long id,
    final byte recordType,
    final EncodingSupport record,
    final boolean sync,
    final IOCompletion callback) throws Exception
{
    checkJournalIsLoaded();

    journalLock.readLock().lock();

    try
    {
        JournalRecord jrnRecord = records.get(id);

        if (jrnRecord == null)
        {
            if (!(compactor != null && compactor.lookupRecord(id)))
            {
                throw new IllegalStateException("Cannot find add info " + id);
            }
        }
    }
}

```

```

JournalInternalRecord updateRecord = new JournalAddRecord(false, id, recordType, record);

if (callback != null)
{
    callback.storeLineUp();
}

lockAppend.lock();
try
{
    JournalFile usedFile = appendRecord(updateRecord, false, sync, null, callback);

    if (JournalImpl.TRACE_RECORDS)
    {
        JournalImpl.traceRecord("appendUpdateRecord::id=" + id +
            ", userRecordType=" +
            recordType +
            ", usedFile = " +
            usedFile);
    }

    // record== null here could only mean there is a compactor, and computing the delete should be done after
    // compacting is done
    if (jrnRecord == null)
    {
        compactor.addCommandUpdate(id, usedFile, updateRecord.getEncodeSize());
    }
    else
    {
        jrnRecord.addUpdateFile(usedFile, updateRecord.getEncodeSize());
    }
}
finally
{
    lockAppend.unlock();
}
}
finally
{
    journalLock.readLock().unlock();
}
}

```

```

@Override
public void appendDeleteRecord(final long id, final boolean sync, final IOCompletion callback) throws Exception
{
    checkJournalIsLoaded();
}

```

```

journalLock.readLock().lock();
try
{

    JournalRecord record = null;

    if (compactor == null)
    {
        record = records.remove(id);

        if (record == null)
        {
            throw new IllegalStateException("Cannot find add info " + id);
        }
    }
    else
    {
        if (!records.containsKey(id) && !compactor.lookupRecord(id))
        {
            throw new IllegalStateException("Cannot find add info " + id + " on compactor or current records");
        }
    }

    JournalInternalRecord deleteRecord = new JournalDeleteRecord(id);

    if (callback != null)
    {
        callback.storeLineUp();
    }

    lockAppend.lock();
    try
    {
        JournalFile usedFile = appendRecord(deleteRecord, false, sync, null, callback);

        if (JournalImpl.TRACE_RECORDS)
        {
            JournalImpl.traceRecord("appendDeleteRecord::id=" + id + ", usedFile = " + usedFile);
        }

        // record== null here could only mean there is a compactor, and computing the delete should be done after
        // compacting is done
        if (record == null)
        {
            compactor.addCommandDelete(id, usedFile);
        }
    }
    else

```

```

        {
            record.delete(usedFile);
        }

    }
    finally
    {
        lockAppend.unlock();
    }
}
finally
{
    journalLock.readLock().unlock();
}
}

@Override
public void appendAddRecordTransactional(final long txID,
                                       final long id,
                                       final byte recordType,
                                       final EncodingSupport record) throws Exception
{
    checkJournalIsLoaded();

    journalLock.readLock().lock();

    try
    {
        JournalInternalRecord addRecord = new JournalAddRecordTX(true, txID, id, recordType, record);

        JournalTransaction tx = getTransactionInfo(txID);

        lockAppend.lock();
        try
        {
            JournalFile usedFile = appendRecord(addRecord, false, false, tx, null);

            if (JournalImpl.TRACE_RECORDS)
            {
                JournalImpl.traceRecord("appendAddRecordTransactional:txID=" + txID +
                                       ",id=" +
                                       id +
                                       ", userRecordType=" +
                                       recordType +
                                       ", usedFile = " +
                                       usedFile);
            }
        }
    }
}

```

```

        tx.addPositive(usedFile, id, addRecord.getEncodeSize());
    }
    finally
    {
        lockAppend.unlock();
    }
}
finally
{
    journalLock.readLock().unlock();
}
}

private void checkJournalIsLoaded()
{
    if (state != JournalState.LOADED && state != JournalState.SYNCING)
    {
        throw new IllegalStateException("Journal must be in state=" + JournalState.LOADED + ", was [" + state +
"]);");
    }
}

private void setJournalState(JournalState newState)
{
    state = newState;
}

@Override
public void appendUpdateRecordTransactional(final long txID,
                                           final long id,
                                           final byte recordType,
                                           final EncodingSupport record) throws Exception
{
    checkJournalIsLoaded();

    journalLock.readLock().lock();

    try
    {
        JournalInternalRecord updateRecordTX = new JournalAddRecordTX(false, txID, id, recordType, record);

        JournalTransaction tx = getTransactionInfo(txID);

        lockAppend.lock();
        try
        {
            JournalFile usedFile = appendRecord(updateRecordTX, false, false, tx, null);

```

```

if (JournalImpl.TRACE_RECORDS)
{
    JournalImpl.traceRecord("appendUpdateRecordTransactional::txID=" + txID +
        ",id=" +
        id +
        ", userRecordType=" +
        recordType +
        ", usedFile = " +
        usedFile);
}

tx.addPositive(usedFile, id, updateRecordTX.getEncodeSize());
}
finally
{
    lockAppend.unlock();
}
}
finally
{
    journalLock.readLock().unlock();
}
}

```

@Override

public void appendDeleteRecordTransactional(final long txID, final long id, final EncodingSupport record) throws Exception

```

{
    checkJournalsLoaded();

    journalLock.readLock().lock();

    try
    {
        JournalInternalRecord deleteRecordTX = new JournalDeleteRecordTX(txID, id, record);

        JournalTransaction tx = getTransactionInfo(txID);

        lockAppend.lock();
        try
        {
            JournalFile usedFile = appendRecord(deleteRecordTX, false, false, tx, null);

            if (JournalImpl.TRACE_RECORDS)
            {
                JournalImpl.traceRecord("appendDeleteRecordTransactional::txID=" + txID +
                    ", id=" +

```

```

        id +
        ", usedFile = " +
        usedFile);
    }

    tx.addNegative(usedFile, id);
}
finally
{
    lockAppend.unlock();
}
}
finally
{
    journalLock.readLock().unlock();
}
}

/**
 * <p>If the system crashed after a prepare was called, it should store information that is required to bring the
transaction
 * back to a state it could be committed. </p>
 * <p/>
 * <p> transactionData allows you to store any other supporting user-data related to the transaction</p>
 * <p/>
 * <p> This method also uses the same logic applied on { @link JournalImpl#appendCommitRecord(long,
boolean)}
 *
 * @param txID
 * @param transactionData extra user data for the prepare
 * @throws Exception
 */
@Override
public void appendPrepareRecord(final long txID,
                               final EncodingSupport transactionData,
                               final boolean sync,
                               final IOCompletion callback) throws Exception
{

    checkJournalIsLoaded();

    journalLock.readLock().lock();

    try
    {
        JournalTransaction tx = getTransactionInfo(txID);

        JournalInternalRecord prepareRecord =

```

```

        new JournalCompleteRecordTX(TX_RECORD_TYPE.PREPARE, txID, transactionData);

    if (callback != null)
    {
        callback.storeLineUp();
    }

    lockAppend.lock();
    try
    {
        JournalFile usedFile = appendRecord(prepareRecord, true, sync, tx, callback);

        if (JournalImpl.TRACE_RECORDS)
        {
            JournalImpl.traceRecord("appendPrepareRecord::txID=" + txID + ", usedFile = " + usedFile);
        }

        tx.prepare(usedFile);
    }
    finally
    {
        lockAppend.unlock();
    }

}
finally
{
    journalLock.readLock().unlock();
}
}

@Override
public void lineUpContext(IOCompletion callback)
{
    callback.storeLineUp();
}

/**
 * Regarding the number of operations in a given file see {@link JournalCompleteRecordTX}.
 */
@Override
public void appendCommitRecord(final long txID, final boolean sync, final IOCompletion callback, boolean
lineUpContext) throws Exception
{
    checkJournalIsLoaded();

    journalLock.readLock().lock();

```

```

try
{
    JournalTransaction tx = transactions.remove(txID);

    if (tx == null)
    {
        throw new IllegalStateException("Cannot find tx with id " + txID);
    }

    JournalInternalRecord commitRecord = new JournalCompleteRecordTX(TX_RECORD_TYPE.COMMIT,
txID, null);

    if (callback != null && lineUpContext)
    {
        callback.storeLineUp();
    }

    lockAppend.lock();
    try
    {
        JournalFile usedFile = appendRecord(commitRecord, true, sync, tx, callback);

        if (JournalImpl.TRACE_RECORDS)
        {
            JournalImpl.traceRecord("appendCommitRecord::txID=" + txID + ", usedFile = " + usedFile);
        }

        tx.commit(usedFile);
    }
    finally
    {
        lockAppend.unlock();
    }

}
finally
{
    journalLock.readLock().unlock();
}
}

@Override
public void appendRollbackRecord(final long txID, final boolean sync, final IOCompletion callback) throws
Exception
{
    checkJournalIsLoaded();
}

```

```

journalLock.readLock().lock();

JournalTransaction tx = null;

try
{
    tx = transactions.remove(txID);

    if (tx == null)
    {
        throw new IllegalStateException("Cannot find tx with id " + txID);
    }

    JournalInternalRecord rollbackRecord = new JournalRollbackRecordTX(txID);

    if (callback != null)
    {
        callback.storeLineUp();
    }

    lockAppend.lock();
    try
    {
        JournalFile usedFile = appendRecord(rollbackRecord, false, sync, tx, callback);

        tx.rollback(usedFile);
    }
    finally
    {
        lockAppend.unlock();
    }
}
finally
{
    journalLock.readLock().unlock();
}

// XXX make it protected?
public int getAlignment() throws Exception
{
    return fileFactory.getAlignment();
}

private static final class DummyLoader implements LoaderCallback
{
    static final LoaderCallback INSTANCE = new DummyLoader();
}

```

```

public void failedTransaction(final long transactionID, final List<RecordInfo> records,
                             final List<RecordInfo> recordsToDelete)
{
}

public void updateRecord(final RecordInfo info)
{
}

public void deleteRecord(final long id)
{
}

public void addRecord(final RecordInfo info)
{
}

public void addPreparedTransaction(final PreparedTransactionInfo preparedTransaction)
{
}

public synchronized JournalLoadInformation loadInternalOnly() throws Exception
{
    return load(DummyLoader.INSTANCE, true, null);
}

public synchronized JournalLoadInformation loadSyncOnly(JournalState syncState) throws Exception
{
    assert syncState == JournalState.SYNCING || syncState == JournalState.SYNCING_UP_TO_DATE;
    return load(DummyLoader.INSTANCE, true, syncState);
}

public JournalLoadInformation load(final List<RecordInfo> committedRecords,
                                   final List<PreparedTransactionInfo> preparedTransactions,
                                   final TransactionFailureCallback failureCallback) throws Exception
{
    return load(committedRecords, preparedTransactions, failureCallback, true);
}

/**
 * @see JournalImpl#load(LoaderCallback)
 */
public synchronized JournalLoadInformation load(final List<RecordInfo> committedRecords,
                                                final List<PreparedTransactionInfo> preparedTransactions,
                                                final TransactionFailureCallback failureCallback,
                                                final boolean fixBadTX) throws Exception

```

```

{
    final Set<Long> recordsToDelete = new HashSet<Long>();
    // ArrayList was taking too long to delete elements on checkDeleteSize
    final List<RecordInfo> records = new LinkedList<RecordInfo>();

    final int DELETE_FLUSH = 20000;

    JournalLoadInformation info = load(new LoaderCallback()
    {
        Runtime runtime = Runtime.getRuntime();

        private void checkDeleteSize()
        {
            // HORNETQ-482 - Flush deletes only if memory is critical
            if (recordsToDelete.size() > DELETE_FLUSH && runtime.freeMemory() < runtime.maxMemory() * 0.2)
            {
                HornetQJournalLogger.LOGGER.debug("Flushing deletes during loading, deleteCount = " +
recordsToDelete.size());
                // Clean up when the list is too large, or it won't be possible to load large sets of files
                // Done as part of JBMESSAGING-1678
                Iterator<RecordInfo> iter = records.iterator();
                while (iter.hasNext())
                {
                    RecordInfo record = iter.next();

                    if (recordsToDelete.contains(record.id))
                    {
                        iter.remove();
                    }
                }

                recordsToDelete.clear();

                HornetQJournalLogger.LOGGER.debug("flush delete done");
            }
        }

        public void addPreparedTransaction(final PreparedTransactionInfo preparedTransaction)
        {
            preparedTransactions.add(preparedTransaction);
            checkDeleteSize();
        }

        public void addRecord(final RecordInfo info)
        {
            records.add(info);
            checkDeleteSize();
        }
    }
}

```

```

public void updateRecord(final RecordInfo info)
{
    records.add(info);
    checkDeleteSize();
}

public void deleteRecord(final long id)
{
    recordsToDelete.add(id);
    checkDeleteSize();
}

public void failedTransaction(final long transactionID,
                             final List<RecordInfo> records,
                             final List<RecordInfo> recordsToDelete)
{
    if (failureCallback != null)
    {
        failureCallback.failedTransaction(transactionID, records, recordsToDelete);
    }
}
}, fixBadTX, null);

for (RecordInfo record : records)
{
    if (!recordsToDelete.contains(record.id))
    {
        committedRecords.add(record);
    }
}

return info;
}

public void scheduleCompactAndBlock(int timeout) throws Exception
{
    final AtomicInteger errors = new AtomicInteger(0);

    final CountdownLatch latch = new Latch(1);

    compactorRunning.set(true);

    // We can't use the executor for the compacting... or we would dead lock because of file open and creation
    // operations (that will use the executor)
    compactorExecutor.execute(new Runnable()
    {

```

```

public void run()
{

    try
    {
        JournalImpl.this.compact();
    }
    catch (Throwable e)
    {
        errors.incrementAndGet();
        HornetQJournalLogger.LOGGER.errorCompacting(e);
        e.printStackTrace();
    }
    finally
    {
        latch.countDown();
    }
}
));

try
{

    awaitLatch(latch, timeout);

    if (errors.get() > 0)
    {
        throw new RuntimeException("Error during compact, look at the logs");
    }
}
finally
{
    compactorRunning.set(false);
}
}

/**
 * Note: This method can't be called from the main executor, as it will invoke other methods
 * depending on it.
 * <p/>
 * Note: only synchronized methods on journal are methods responsible for the life-cycle such as
 * stop, start records will still come as this is being executed
 */
protected synchronized void compact() throws Exception
{
    if (compactor != null)
    {
        throw new IllegalStateException("There is pending compacting operation");
    }
}

```

```

    }

    compactorLock.writeLock().lock();
    try
    {
        ArrayList<JournalFile> dataFilesToProcess = new
ArrayList<JournalFile>(filesRepository.getDataFilesCount());

        boolean previousReclaimValue = isAutoReclaim();

        try
        {
            HornetQJournalLogger.LOGGER.debug("Starting compacting operation on journal");

            onCompactStart();

            // We need to guarantee that the journal is frozen for this short time
            // We don't freeze the journal as we compact, only for the short time where we replace records
            journalLock.writeLock().lock();
            try
            {
                if (state != JournalState.LOADED)
                {
                    return;
                }

                onCompactLockingTheJournal();

                setAutoReclaim(false);

                // We need to move to the next file, as we need a clear start for negatives and positives counts
                moveNextFile(false);

                // Take the snapshots and replace the structures

                dataFilesToProcess.addAll(filesRepository.getDataFiles());

                filesRepository.clearDataFiles();

                if (dataFilesToProcess.size() == 0)
                {
                    trace("Finishing compacting, nothing to process");
                    return;
                }

                compactor = new JournalCompactor(fileFactory,
                    this,
                    filesRepository,

```

```

        records.keySet(),
        dataFilesToProcess.get(0).getFileID());

    for (Map.Entry<Long, JournalTransaction> entry : transactions.entrySet())
    {
        compactor.addPendingTransaction(entry.getKey(), entry.getValue().getPositiveArray());
        entry.getValue().setCompacting();
    }

    // We will calculate the new records during compacting, what will take the position the records will take
    // after compacting
    records.clear();
}
finally
{
    journalLock.writeLock().unlock();
}

Collections.sort(dataFilesToProcess, new JournalFileComparator());

// This is where most of the work is done, taking most of the time of the compacting routine.
// Notice there are no locks while this is being done.

// Read the files, and use the JournalCompactor class to create the new outputFiles, and the new collections as
// well
for (final JournalFile file : dataFilesToProcess)
{
    try
    {
        JournalImpl.readJournalFile(fileFactory, file, compactor);
    }
    catch (Throwable e)
    {
        HornetQJournalLogger.LOGGER.compactReadError(file);
        throw new Exception("Error on reading compacting for " + file, e);
    }
}

compactor.flush();

// pointcut for tests
// We need to test concurrent updates on the journal, as the compacting is being performed.
// Usually tests will use this to hold the compacting while other structures are being updated.
onCompactDone();

List<JournalFile> newDatafiles = null;

JournalCompactor localCompactor = compactor;

```

```

SequentialFile controlFile = createControlFile(dataFilesToProcess, compactor.getNewDataFiles(), null);

journalLock.writeLock().lock();
try
{
    // Need to clear the compactor here, or the replay commands will send commands back (infinite loop)
    compactor = null;

    onCompactLockingTheJournal();

    newDatafiles = localCompactor.getNewDataFiles();

    // Restore newRecords created during compacting
    for (Map.Entry<Long, JournalRecord> newRecordEntry : localCompactor.getNewRecords().entrySet())
    {
        records.put(newRecordEntry.getKey(), newRecordEntry.getValue());
    }

    // Restore compacted dataFiles
    for (int i = newDatafiles.size() - 1; i >= 0; i--)
    {
        JournalFile fileToAdd = newDatafiles.get(i);
        if (JournalImpl.trace)
        {
            JournalImpl.trace("Adding file " + fileToAdd + " back as datafile");
        }
        filesRepository.addDataFileOnTop(fileToAdd);
    }

    if (JournalImpl.trace)
    {
        JournalImpl.trace("There are " + filesRepository.getDataFilesCount() + " datafiles Now");
    }

    // Replay pending commands (including updates, deletes and commits)

    for (JournalTransaction newTransaction : localCompactor.getNewTransactions().values())
    {
        newTransaction.replaceRecordProvider(this);
    }

    localCompactor.replayPendingCommands();

    // Merge transactions back after compacting.
    // This has to be done after the replay pending commands, as we need to delete commits
    // that happened during the compacting

```

```

for (JournalTransaction newTransaction : localCompactor.getNewTransactions().values())
{
    if (JournalImpl.trace)
    {
        JournalImpl.trace("Merging pending transaction " + newTransaction + " after compacting the journal");
    }
    JournalTransaction liveTransaction = transactions.get(newTransaction.getId());
    if (liveTransaction != null)
    {
        liveTransaction.merge(newTransaction);
    }
    else
    {
        HornetQJournalLogger.LOGGER.compactMergeError(newTransaction.getId());
    }
}
}
finally
{
    journalLock.writeLock().unlock();
}

// At this point the journal is unlocked. We keep renaming files while the journal is already operational
renameFiles(dataFilesToProcess, newDatafiles);
deleteControlFile(controlFile);

HornetQJournalLogger.LOGGER.debug("Finished compacting on journal");

}
finally
{
    // An Exception was probably thrown, and the compactor was not cleared
    if (compactor != null)
    {
        try
        {
            compactor.flush();
        }
        catch (Throwable ignored)
        {
        }

        compactor = null;
    }
    setAutoReclaim(previousReclaimValue);
}
}
finally

```

```

    {
        compactorLock.writeLock().unlock();
    }
}

/**
 * <p>Load data accordingly to the record layouts</p>
 * <p/>
 * <p>Basic record layout:</p>
 * <table border=1>
 * <tr><td><b>Field Name</b></td><td><b>Size</b></td></tr>
 * <tr><td>RecordType</td><td>Byte (1)</td></tr>
 * <tr><td>FileID</td><td>Integer (4 bytes)</td></tr>
 * <tr><td>Compactor Counter</td><td>1 byte</td></tr>
 * <tr><td>TransactionID <i>(if record is transactional)</i></td><td>Long (8 bytes)</td></tr>
 * <tr><td>RecordID</td><td>Long (8 bytes)</td></tr>
 * <tr><td>BodySize(Add, update and delete)</td><td>Integer (4 bytes)</td></tr>
 * <tr><td>UserDefinedRecordType (If add/update only)</td><td>Byte (1)</td></tr>
 * <tr><td>RecordBody</td><td>Byte Array (size=BodySize)</td></tr>
 * <tr><td>Check Size</td><td>Integer (4 bytes)</td></tr>
 * </table>
 * <p/>
 * <p> The check-size is used to validate if the record is valid and complete </p>
 * <p/>
 * <p>Commit/Prepare record layout:</p>
 * <table border=1>
 * <tr><td><b>Field Name</b></td><td><b>Size</b></td></tr>
 * <tr><td>RecordType</td><td>Byte (1)</td></tr>
 * <tr><td>FileID</td><td>Integer (4 bytes)</td></tr>
 * <tr><td>Compactor Counter</td><td>1 byte</td></tr>
 * <tr><td>TransactionID <i>(if record is transactional)</i></td><td>Long (8 bytes)</td></tr>
 * <tr><td>ExtraDataLength (Prepares only)</td><td>Integer (4 bytes)</td></tr>
 * <tr><td>Number Of Files (N)</td><td>Integer (4 bytes)</td></tr>
 * <tr><td>ExtraDataBytes</td><td>Bytes (sized by ExtraDataLength)</td></tr>
 * <tr><td>* FileID(n)</td><td>Integer (4 bytes)</td></tr>
 * <tr><td>* NumberOfElements(n)</td><td>Integer (4 bytes)</td></tr>
 * <tr><td>CheckSize</td><td>Integer (4 bytes)</td></tr>
 * </table>
 * <p/>
 * <p> * FileID and NumberOfElements are the transaction summary, and they will be repeated (N)umberOfFiles
times </p>
 */
public JournalLoadInformation load(final LoaderCallback loadManager) throws Exception
{
    return load(loadManager, true, null);
}

```

```

/**
 * @param loadManager
 * @param changeData
 * @param replicationSync {@code true} will place
 * @return
 * @throws Exception
 */
private synchronized JournalLoadInformation load(final LoaderCallback loadManager, final boolean changeData,
        final JournalState replicationSync) throws Exception
{
    if (state == JournalState.STOPPED || state == JournalState.LOADED)
    {
        throw new IllegalStateException("Journal " + this + " must be in " + JournalState.STARTED + " state, was " +
            state);
    }
    if (state == replicationSync)
    {
        throw new IllegalStateException("Journal cannot be in state " + JournalState.STARTED);
    }

    checkControlFile();

    records.clear();

    filesRepository.clear();

    transactions.clear();
    currentFile = null;

    final Map<Long, TransactionHolder> loadTransactions = new LinkedHashMap<Long, TransactionHolder>();

    final List<JournalFile> orderedFiles = orderFiles();

    filesRepository.calculateNextfileID(orderedFiles);

    int lastDataPos = JournalImpl.SIZE_HEADER;

    // AtomicLong is used only as a reference, not as an Atomic value
    final AtomicLong maxID = new AtomicLong(-1);

    for (final JournalFile file : orderedFiles)
    {
        JournalImpl.trace("Loading file " + file.getFile().getFileName());

        final AtomicBoolean hasData = new AtomicBoolean(false);

        int resultLastPost = JournalImpl.readJournalFile(fileFactory, file, new JournalReaderCallback()
        {

```

```

private void checkID(final long id)
{
    if (id > maxID.longValue())
    {
        maxID.set(id);
    }
}

public void onReadAddRecord(final RecordInfo info) throws Exception
{
    checkID(info.id);

    hasData.set(true);

    loadManager.addRecord(info);

    records.put(info.id, new JournalRecord(file, info.data.length + JournalImpl.SIZE_ADD_RECORD + 1));
}

public void onReadUpdateRecord(final RecordInfo info) throws Exception
{
    checkID(info.id);

    hasData.set(true);

    loadManager.updateRecord(info);

    JournalRecord posFiles = records.get(info.id);

    if (posFiles != null)
    {
        // It's legal for this to be null. The file(s) with the may
        // have been deleted
        // just leaving some updates in this file

        posFiles.addUpdateFile(file, info.data.length + JournalImpl.SIZE_ADD_RECORD + 1); // +1 = compact
        // count
    }
}

public void onReadDeleteRecord(final long recordID) throws Exception
{
    hasData.set(true);

    loadManager.deleteRecord(recordID);

    JournalRecord posFiles = records.remove(recordID);
}

```

```

    if (posFiles != null)
    {
        posFiles.delete(file);
    }
}

public void onReadUpdateRecordTX(final long transactionID, final RecordInfo info) throws Exception
{
    onReadAddRecordTX(transactionID, info);
}

public void onReadAddRecordTX(final long transactionID, final RecordInfo info) throws Exception
{

    checkID(info.id);

    hasData.set(true);

    TransactionHolder tx = loadTransactions.get(transactionID);

    if (tx == null)
    {
        tx = new TransactionHolder(transactionID);

        loadTransactions.put(transactionID, tx);
    }

    tx.recordInfos.add(info);

    JournalTransaction tnp = transactions.get(transactionID);

    if (tnp == null)
    {
        tnp = new JournalTransaction(transactionID, JournalImpl.this);

        transactions.put(transactionID, tnp);
    }

    tnp.addPositive(file, info.id, info.data.length + JournalImpl.SIZE_ADD_RECORD_TX + 1); // +1 =
compact
    // count
}

public void onReadDeleteRecordTX(final long transactionID, final RecordInfo info) throws Exception
{
    hasData.set(true);
}

```

```

TransactionHolder tx = loadTransactions.get(transactionID);

if (tx == null)
{
    tx = new TransactionHolder(transactionID);

    loadTransactions.put(transactionID, tx);
}

tx.recordsToDelete.add(info);

JournalTransaction tnp = transactions.get(transactionID);

if (tnp == null)
{
    tnp = new JournalTransaction(transactionID, JournalImpl.this);

    transactions.put(transactionID, tnp);
}

tnp.addNegative(file, info.id);
}

public void onReadPrepareRecord(final long transactionID, final byte[] extraData, final int
numberOfRecords) throws Exception
{
    hasData.set(true);

    TransactionHolder tx = loadTransactions.get(transactionID);

    if (tx == null)
    {
        // The user could choose to prepare empty transactions
        tx = new TransactionHolder(transactionID);

        loadTransactions.put(transactionID, tx);
    }

    tx.prepared = true;

    tx.extraData = extraData;

    JournalTransaction journalTransaction = transactions.get(transactionID);

    if (journalTransaction == null)
    {
        journalTransaction = new JournalTransaction(transactionID, JournalImpl.this);

```

```

        transactions.put(transactionID, journalTransaction);
    }

    boolean healthy = checkTransactionHealth(file, journalTransaction, orderedFiles, numberOfRecords);

    if (healthy)
    {
        journalTransaction.prepare(file);
    }
    else
    {
        HornetQJournalLogger.LOGGER.preparedTXIncomplete(transactionID);
        tx.invalid = true;
    }
}

public void onReadCommitRecord(final long transactionID, final int numberOfRecords) throws Exception
{
    TransactionHolder tx = loadTransactions.remove(transactionID);

    // The commit could be alone on its own journal-file and the
    // whole transaction body was reclaimed but not the
    // commit-record
    // So it is completely legal to not find a transaction at this
    // point
    // If we can't find it, we assume the TX was reclaimed and we
    // ignore this
    if (tx != null)
    {
        JournalTransaction journalTransaction = transactions.remove(transactionID);

        if (journalTransaction == null)
        {
            throw new IllegalStateException("Cannot find tx " + transactionID);
        }

        boolean healthy = checkTransactionHealth(file, journalTransaction, orderedFiles, numberOfRecords);

        if (healthy)
        {
            for (RecordInfo txRecord : tx.recordInfos)
            {
                if (txRecord.isUpdate)
                {
                    loadManager.updateRecord(txRecord);
                }
            }
            else

```

```

        {
            loadManager.addRecord(txRecord);
        }
    }

    for (RecordInfo deleteValue : tx.recordsToDelete)
    {
        loadManager.deleteRecord(deleteValue.id);
    }

    journalTransaction.commit(file);
}
else
{
    HornetQJournalLogger.LOGGER.txMissingElements(transactionID);

    journalTransaction.forget();
}

hasData.set(true);
}

}

public void onReadRollbackRecord(final long transactionID) throws Exception
{
    TransactionHolder tx = loadTransactions.remove(transactionID);

    // The rollback could be alone on its own journal-file and the
    // whole transaction body was reclaimed but the commit-record
    // So it is completely legal to not find a transaction at this
    // point
    if (tx != null)
    {
        JournalTransaction tnp = transactions.remove(transactionID);

        if (tnp == null)
        {
            throw new IllegalStateException("Cannot find tx " + transactionID);
        }

        // There is no need to validate summaries/holes on
        // Rollbacks.. We will ignore the data anyway.
        tnp.rollback(file);

        hasData.set(true);
    }
}
}

```

```

    public void markAsDataFile(final JournalFile file)
    {
        hasData.set(true);
    }

});

if (hasData.get())
{
    lastDataPos = resultLastPost;
    filesRepository.addDataFileOnBottom(file);
}
else
{
    if (changeData)
    {
        // Empty dataFiles with no data
        filesRepository.addFreeFile(file, false, false);
    }
}
}

if (replicationSync == JournalState.SYNCING)
{
    assert filesRepository.getDataFiles().isEmpty();
    setJournalState(JournalState.SYNCING);
    return new JournalLoadInformation(0, -1);
}

setCurrentFile(lastDataPos);

setJournalState(JournalState.LOADED);

for (TransactionHolder transaction : loadTransactions.values())
{
    if (!(transaction.prepared || transaction.invalid) && replicationSync !=
JournalState.SYNCING_UP_TO_DATE)
    {
        HornetQJournalLogger.LOGGER.uncommittedTxFound(transaction.transactionID);

        if (changeData)
        {
            // I append a rollback record here, because otherwise compacting will be throwing messages because of
unknown transactions
            this.appendRollbackRecord(transaction.transactionID, false);
        }
    }
}

```

```

        loadManager.failedTransaction(transaction.transactionID,
                                    transaction.recordInfos,
                                    transaction.recordsToDelete);
    }
    else
    {
        for (RecordInfo info : transaction.recordInfos)
        {
            if (info.id > maxID.get())
            {
                maxID.set(info.id);
            }
        }

        PreparedTransactionInfo info = new PreparedTransactionInfo(transaction.transactionID,
                                                                    transaction.extraData);

        info.records.addAll(transaction.recordInfos);

        info.recordsToDelete.addAll(transaction.recordsToDelete);

        loadManager.addPreparedTransaction(info);
    }
}

checkReclaimStatus();

return new JournalLoadInformation(records.size(), maxID.longValue());
}

/**
 * @return true if cleanup was called
 */
public final boolean checkReclaimStatus() throws Exception
{
    if (compactorRunning.get())
    {
        return false;
    }

    // We can't start reclaim while compacting is working
    while (true)
    {
        if (state != JournalImpl.JournalState.LOADED)
            return false;
        if (!isAutoReclaim())
            return false;
    }
}

```

```

    if (journalLock.readLock().tryLock(250, TimeUnit.MILLISECONDS))
        break;
    }
    try
    {
        reclaimer.scan(getDataFiles());

        for (JournalFile file : filesRepository.getDataFiles())
        {
            if (file.isCanReclaim())
            {
                // File can be reclaimed or deleted
                if (JournalImpl.trace)
                {
                    JournalImpl.trace("Reclaiming file " + file);
                }

                filesRepository.removeDataFile(file);

                filesRepository.addFreeFile(file, false);
            }
        }
    }
    finally
    {
        journalLock.readLock().unlock();
    }

    return false;
}

private boolean needsCompact() throws Exception
{
    JournalFile[] dataFiles = getDataFiles();

    long totalLiveSize = 0;

    for (JournalFile file : dataFiles)
    {
        totalLiveSize += file.getLiveSize();
    }

    long totalBytes = dataFiles.length * (long) fileSize;

    long compactMargin = (long) (totalBytes * compactPercentage);

    boolean needCompact = totalLiveSize < compactMargin && dataFiles.length > compactMinFiles;
}

```

```

return needCompact;

}

private void checkCompact() throws Exception
{
    if (compactMinFiles == 0)
    {
        // compacting is disabled
        return;
    }

    if (state != JournalState.LOADED)
    {
        return;
    }

    if (!compactorRunning.get() && needsCompact())
    {
        scheduleCompact();
    }
}

private void scheduleCompact()
{
    if (!compactorRunning.compareAndSet(false, true))
    {
        return;
    }

    // We can't use the executor for the compacting... or we would dead lock because of file open and creation
    // operations (that will use the executor)
    compactorExecutor.execute(new Runnable()
    {
        public void run()
        {
            try
            {
                JournalImpl.this.compact();
            }
            catch (Throwable e)
            {
                HornetQJournalLogger.LOGGER.errorCompacting(e);
            }
            finally
            {
                compactorRunning.set(false);
            }
        }
    });
}

```

```

    }
  }
});
}

// TestableJournal implementation
// -----

public final void setAutoReclaim(final boolean autoReclaim)
{
    this.autoReclaim = autoReclaim;
}

public final boolean isAutoReclaim()
{
    return autoReclaim;
}

/* Only meant to be used in tests. */
@Override
public String debug() throws Exception
{
    reclaimer.scan(getDataFiles());

    StringBuilder builder = new StringBuilder();

    for (JournalFile file : filesRepository.getDataFiles())
    {
        builder.append("DataFile:" + file +
            " posCounter = " +
            file.getPosCount() +
            " reclaimStatus = " +
            file.isCanReclaim() +
            " live size = " +
            file.getLiveSize() +
            "\n");
        if (file instanceof JournalFileImpl)
        {
            builder.append(((JournalFileImpl) file).debug());
        }
    }
}

for (JournalFile file : filesRepository.getFreeFiles())
{
    builder.append("FreeFile:" + file + "\n");
}

```

```

if (currentFile != null)
{
    builder.append("CurrentFile:" + currentFile + " posCounter = " + currentFile.getPosCount() + "\n");

    if (currentFile instanceof JournalFileImpl)
    {
        builder.append(((JournalFileImpl) currentFile).debug());
    }
}
else
{
    builder.append("CurrentFile: No current file at this point!");
}

return builder.toString();
}

/**
 * Method for use on testcases.
 * It will call waitComplete on every transaction, so any assertions on the file system will be correct after this
 */
public void debugWait() throws InterruptedException
{
    fileFactory.flush();

    for (JournalTransaction tx : transactions.values())
    {
        tx.waitCallbacks();
    }

    if (filesExecutor != null && !filesExecutor.isShutdown())
    {
        // Send something to the closingExecutor, just to make sure we went
        // until its end
        final CountdownLatch latch = newLatch(1);

        filesExecutor.execute(new Runnable()
        {
            public void run()
            {
                latch.countDown();
            }
        });

        awaitLatch(latch, -1);
    }
}

```

```

public int getDataFilesCount()
{
    return filesRepository.getDataFilesCount();
}

public JournalFile[] getDataFiles()
{
    return filesRepository.getDataFilesArray();
}

public int getFreeFilesCount()
{
    return filesRepository.getFreeFilesCount();
}

public int getOpenedFilesCount()
{
    return filesRepository.getOpenedFilesCount();
}

public int getIDMapSize()
{
    return records.size();
}

@Override
public int getFileSize()
{
    return fileSize;
}

public int getMinFiles()
{
    return minFiles;
}

public String getFilePrefix()
{
    return filesRepository.getFilePrefix();
}

public String getFileExtension()
{
    return filesRepository.getFileExtension();
}

public int getMaxAIO()

```

```

    {
        return filesRepository.getMaxAIO();
    }

    public int getUserVersion()
    {
        return userVersion;
    }

    // In some tests we need to force the journal to move to a next file
    public void forceMoveNextFile() throws Exception
    {
        journalLock.readLock().lock();
        try
        {
            lockAppend.lock();
            try
            {
                moveNextFile(false);
                debugWait();
            }
            finally
            {
                lockAppend.unlock();
            }
        }
        finally
        {
            journalLock.readLock().unlock();
        }
    }

    public void perfBlast(final int pages)
    {
        new PerfBlast(pages).start();
    }

    // HornetQComponent implementation
    // -----

    public synchronized boolean isStarted()
    {
        return state != JournalState.STOPPED;
    }

    public synchronized void start()
    {
        if (state != JournalState.STOPPED)

```

```

    {
        throw new IllegalStateException("Journal " + this + " is not stopped, state is " + state);
    }

filesExecutor = Executors.newSingleThreadExecutor(new ThreadFactory()
{
    public Thread newThread(final Runnable r)
    {
        return new Thread(r, "JournalImpl::FilesExecutor");
    }
});

compactorExecutor = Executors.newSingleThreadExecutor(new ThreadFactory()
{
    public Thread newThread(final Runnable r)
    {
        return new Thread(r, "JournalImpl::CompactorExecutor");
    }
});

filesRepository.setExecutor(filesExecutor);

fileFactory.start();

setJournalState(JournalState.STARTED);
}

public synchronized void stop() throws Exception
{
    if (state == JournalState.STOPPED)
    {
        throw new IllegalStateException("Journal is already stopped");
    }

    journalLock.writeLock().lock();
    try
    {
        lockAppend.lock();

        try
        {
            setJournalState(JournalState.STOPPED);

            compactorExecutor.shutdown();

```

```

if (!compactorExecutor.awaitTermination(120, TimeUnit.SECONDS))
{
    HornetQJournalLogger.LOGGER.couldNotStopCompactor();
}

filesExecutor.shutdown();

filesRepository.setExecutor(null);

if (!filesExecutor.awaitTermination(60, TimeUnit.SECONDS))
{
    HornetQJournalLogger.LOGGER.couldNotStopJournalExecutor();
}

try
{
    for (CountDownLatch latch : latches)
    {
        latch.countDown();
    }
}
catch (Throwable e)
{
    HornetQJournalLogger.LOGGER.warn(e.getMessage(), e);
}

fileFactory.deactivateBuffer();

if (currentFile != null && currentFile.getFile().isOpen())
{
    currentFile.getFile().close();
}

filesRepository.clear();

fileFactory.stop();

currentFile = null;
}
finally
{
    lockAppend.unlock();
}
}
finally
{
    journalLock.writeLock().unlock();
}

```

```

    }
}

public int getNumberOfRecords()
{
    return records.size();
}

protected SequentialFile createControlFile(final List<JournalFile> files,
                                           final List<JournalFile> newFiles,
                                           final Pair<String, String> cleanupRename) throws Exception
{
    ArrayList<Pair<String, String>> cleanupList;
    if (cleanupRename == null)
    {
        cleanupList = null;
    }
    else
    {
        cleanupList = new ArrayList<Pair<String, String>>();
        cleanupList.add(cleanupRename);
    }
    return AbstractJournalUpdateTask.writeControlFile(fileFactory, files, newFiles, cleanupList);
}

protected void deleteControlFile(final SequentialFile controlFile) throws Exception
{
    controlFile.delete();
}

/**
 * being protected as testcases can override this method
 */
protected void renameFiles(final List<JournalFile> oldFiles, final List<JournalFile> newFiles) throws Exception
{
    // addFreeFiles has to be called through filesExecutor, or the fileID on the orderedFiles may end up in a wrong
    // order
    // These files are already freed, and are described on the compactor file control.
    // In case of crash they will be cleared anyways

    final CountdownLatch done = newLatch(1);

    filesExecutor.execute(new Runnable()
    {
        public void run()
        {

```

```

try
{
    for (JournalFile file : oldFiles)
    {
        try
        {
            filesRepository.addFreeFile(file, false);
        }
        catch (Throwable e)
        {
            HornetQJournalLogger.LOGGER.errorReinitializingFile(e, file);
        }
    }
}
finally
{
    done.countDown();
}
});

// need to wait all old files to be freed
// to avoid a race where the CTR file is deleted before the init for these files is already done
// what could cause a duplicate in case of a crash after the CTR is deleted and before the file is initialized
awaitLatch(done, -1);

for (JournalFile file : newFiles)
{
    String newName = JournalImpl.renameExtensionFile(file.getFile().getFileName(), ".cmp");
    file.getFile().renameTo(newName);
}

}

/**
 * @param name
 * @return
 */
protected static String renameExtensionFile(String name, final String extension)
{
    name = name.substring(0, name.lastIndexOf(extension));
    return name;
}

/**
 * This is an interception point for testcases, when the compacted files are written, before replacing the data
 structures
 */

```

```

protected void onCompactStart() throws Exception
{
}

/**
 * This is an interception point for testcases, when the compacted files are written, to be called
 * as soon as the compactor gets a writeLock
 */
protected void onCompactLockingTheJournal() throws Exception
{
}

/**
 * This is an interception point for testcases, when the compacted files are written, before replacing the data
structures
 */
protected void onCompactDone()
{
}

// Private
// -----

/**
 * <p>
 * Checks for holes on the transaction (a commit written but with an incomplete transaction).
 * <p>
 * This method will validate if the transaction (PREPARE/COMMIT) is complete as stated on the
 * COMMIT-RECORD.
 * <p>
 * For details see { @link JournalCompleteRecordTX } about how the transaction-summary is recorded.
 *
 * @param journalTransaction
 * @param orderedFiles
 * @param numberOfRecords
 * @return
 */
private boolean checkTransactionHealth(final JournalFile currentFile,
                                     final JournalTransaction journalTransaction,
                                     final List<JournalFile> orderedFiles,
                                     final int numberOfRecords)
{
    return journalTransaction.getCounter(currentFile) == numberOfRecords;
}

private static boolean isTransaction(final byte recordType)
{
    return recordType == JournalImpl.ADD_RECORD_TX || recordType == JournalImpl.UPDATE_RECORD_TX

```

```

||
    recordType == JournalImpl.DELETE_RECORD_TX ||
    JournalImpl.isCompleteTransaction(recordType);
}

private static boolean isCompleteTransaction(final byte recordType)
{
    return recordType == JournalImpl.COMMIT_RECORD || recordType == JournalImpl.PREPARE_RECORD ||
        recordType == JournalImpl.ROLLBACK_RECORD;
}

private static boolean isContainsBody(final byte recordType)
{
    return recordType >= JournalImpl.ADD_RECORD && recordType <= JournalImpl.DELETE_RECORD_TX;
}

private static int getRecordSize(final byte recordType, final int journalVersion)
{
    // The record size (without the variable portion)
    int recordSize = 0;
    switch (recordType)
    {
        case ADD_RECORD:
            recordSize = JournalImpl.SIZE_ADD_RECORD;
            break;
        case UPDATE_RECORD:
            recordSize = JournalImpl.SIZE_ADD_RECORD;
            break;
        case ADD_RECORD_TX:
            recordSize = JournalImpl.SIZE_ADD_RECORD_TX;
            break;
        case UPDATE_RECORD_TX:
            recordSize = JournalImpl.SIZE_ADD_RECORD_TX;
            break;
        case DELETE_RECORD:
            recordSize = JournalImpl.SIZE_DELETE_RECORD;
            break;
        case DELETE_RECORD_TX:
            recordSize = JournalImpl.SIZE_DELETE_RECORD_TX;
            break;
        case PREPARE_RECORD:
            recordSize = JournalImpl.SIZE_PREPARE_RECORD;
            break;
        case COMMIT_RECORD:
            recordSize = JournalImpl.SIZE_COMMIT_RECORD;
            break;
        case ROLLBACK_RECORD:
            recordSize = JournalImpl.SIZE_ROLLBACK_RECORD;
    }
}

```

```

        break;
    default:
        // Sanity check, this was previously tested, nothing different
        // should be on this switch
        throw new IllegalStateException("Record other than expected");
    }
    if (journalVersion >= 2)
    {
        return recordSize + 1;
    }
    else
    {
        return recordSize;
    }
}

/**
 * @param file
 * @return
 * @throws Exception
 */
private JournalFileImpl readFileHeader(final SequentialFile file) throws Exception
{
    ByteBuffer bb = fileFactory.newBuffer(JournalImpl.SIZE_HEADER);

    file.read(bb);

    int journalVersion = bb.getInt();

    if (journalVersion != JournalImpl.FORMAT_VERSION)
    {
        boolean isCompatible = false;

        for (int v : JournalImpl.COMPATIBLE_VERSIONS)
        {
            if (v == journalVersion)
            {
                isCompatible = true;
            }
        }

        if (!isCompatible)
        {
            throw HornetQJournalBundle.BUNDLE.journalFileMismatch();
        }
    }
}

```

```

int readUserVersion = bb.getInt();

if (readUserVersion != userVersion)
{
    throw HornetQJournalBundle.BUNDLE.journalDifferentVersion();
}

long fileID = bb.getLong();

fileFactory.releaseBuffer(bb);

bb = null;

return new JournalFileImpl(file, fileID, journalVersion);
}

/**
 * @param fileID
 * @param sequentialFile
 * @throws Exception
 */
public static int initFileHeader(final SequentialFileFactory fileFactory,
                                final SequentialFile sequentialFile,
                                final int userVersion,
                                final long fileID) throws Exception
{
    // We don't need to release buffers while writing.
    ByteBuffer bb = fileFactory.newBuffer(JournalImpl.SIZE_HEADER);

    HornetQBuffer buffer = HornetQBuffers.wrappedBuffer(bb);

    try
    {
        JournalImpl.writeHeader(buffer, userVersion, fileID);

        bb.rewind();

        int bufferSize = bb.limit();

        sequentialFile.position(0);

        sequentialFile.writeDirect(bb, true);
        return bufferSize;
    }
    finally
    {
        // release it by first unwrap the unreleasable buffer and then release it.
        buffer.byteBuf().unwrap().release();
    }
}

```

```

    }
}

/**
 * @param buffer
 * @param userVersion
 * @param fileID
 */
public static void writeHeader(final HornetQBuffer buffer, final int userVersion, final long fileID)
{
    buffer.writeInt(JournalImpl.FORMAT_VERSION);

    buffer.writeInt(userVersion);

    buffer.writeLong(fileID);
}

/**
 * @param completeTransaction If the appendRecord is for a prepare or commit, where we should
 * update the number of pendingTransactions on the current file
 * @throws Exception
 */
private JournalFile appendRecord(final JournalInternalRecord encoder,
                                final boolean completeTransaction,
                                final boolean sync,
                                final JournalTransaction tx,
                                final IOAsyncTask parameterCallback) throws Exception
{
    checkJournalIsLoaded();

    final IOAsyncTask callback;

    final int size = encoder.getEncodeSize();

    switchFileIfNecessary(size);

    if (tx != null)
    {
        // The callback of a transaction has to be taken inside the lock,
        // when we guarantee the currentFile will not be changed,
        // since we individualize the callback per file
        if (fileFactory.isSupportsCallbacks())
        {
            // Set the delegated callback as a parameter
            TransactionCallback txcallback = tx.getCallback(currentFile);
            if (parameterCallback != null)
            {
                txcallback.setDelegateCompletion(parameterCallback);
            }
        }
    }
}

```

```

    }
    callback = txcallback;
}
else
{
    callback = null;
}

// We need to add the number of records on currentFile if prepare or commit
if (completeTransaction)
{
    // Filling the number of pendingTransactions at the current file
    tx.fillNumberOfRecords(currentFile, encoder);
}
}
else
{
    callback = parameterCallback;
}

// Adding fileID
encoder.setFileID(currentFile.getRecordID());

if (callback != null)
{
    currentFile.getFile().write(encoder, sync, callback);
}
else
{
    currentFile.getFile().write(encoder, sync);
}

return currentFile;
}

@Override
void scheduleReclaim()
{
    if (state != JournalState.LOADED)
    {
        return;
    }

    if (isAutoReclaim() && !compactorRunning.get())
    {
        compactorExecutor.execute(new Runnable()
        {
            public void run()

```

```

    {
        try
        {
            if (!checkReclaimStatus())
            {
                checkCompact();
            }
        }
        catch (Exception e)
        {
            HornetQJournalLogger.LOGGER.errorSchedulingCompacting(e);
        }
    }
});
}
}

```

```
private JournalTransaction getTransactionInfo(final long txID)
```

```

{
    JournalTransaction tx = transactions.get(txID);

    if (tx == null)
    {
        tx = new JournalTransaction(txID, this);

        JournalTransaction trans = transactions.putIfAbsent(txID, tx);

        if (trans != null)
        {
            tx = trans;
        }
    }

    return tx;
}

```

```
/**
```

```
 * @throws Exception
```

```
 */
```

```
private void checkControlFile() throws Exception
```

```

{
    ArrayList<String> dataFiles = new ArrayList<String>();
    ArrayList<String> newFiles = new ArrayList<String>();
    ArrayList<Pair<String, String>> renames = new ArrayList<Pair<String, String>>();

    SequentialFile controlFile = JournalCompactor.readControlFile(fileFactory, dataFiles, newFiles, renames);
    if (controlFile != null)
    {

```

```

for (String dataFile : dataFiles)
{
    SequentialFile file = fileFactory.createSequentialFile(dataFile, 1);
    if (file.exists())
    {
        file.delete();
    }
}

for (String newFile : newFiles)
{
    SequentialFile file = fileFactory.createSequentialFile(newFile, 1);
    if (file.exists())
    {
        final String originalName = file.getFileName();
        final String newName = originalName.substring(0, originalName.lastIndexOf(".cmp"));
        file.renameTo(newName);
    }
}

for (Pair<String, String> rename : renames)
{
    SequentialFile fileTmp = fileFactory.createSequentialFile(rename.getA(), 1);
    SequentialFile fileTo = fileFactory.createSequentialFile(rename.getB(), 1);
    // We should do the rename only if the tmp file still exist, or else we could
    // delete a valid file depending on where the crash occurred during the control file delete
    if (fileTmp.exists())
    {
        fileTo.delete();
        fileTmp.renameTo(rename.getB());
    }
}

controlFile.delete();
}

cleanupTmpFiles(".cmp");

cleanupTmpFiles(".tmp");

return;
}

/**
 * @throws Exception
 */
private void cleanupTmpFiles(final String extension) throws Exception
{

```

```

List<String> leftFiles = fileFactory.listFiles(getFileExtension() + extension);

if (leftFiles.size() > 0)
{
    HornetQJournalLogger.LOGGER.tempFilesLeftOpen();

    for (String fileToDelete : leftFiles)
    {
        HornetQJournalLogger.LOGGER.deletingOrphanedFile(fileToDelete);
        SequentialFile file = fileFactory.createSequentialFile(fileToDelete, 1);
        file.delete();
    }
}

private static boolean isValidSize(final int fileSize, final int bufferPos, final int size)
{
    if (size < 0)
    {
        return true;
    }
    else
    {
        final int position = bufferPos + size;

        return position > fileSize || position < 0;
    }
}

// Inner classes
// -----

// Used on Load
private static final class TransactionHolder
{
    public TransactionHolder(final long id)
    {
        transactionID = id;
    }

    public final long transactionID;

    public final List<RecordInfo> recordInfos = new ArrayList<RecordInfo>();

    public final List<RecordInfo> recordsToDelete = new ArrayList<RecordInfo>();

    public boolean prepared;

```

```

public boolean invalid;

public byte[] extraData;

}

private static final class JournalFileComparator implements Comparator<JournalFile>, Serializable
{
    private static final long serialVersionUID = -6264728973604070321L;

    public int compare(final JournalFile f1, final JournalFile f2)
    {
        long id1 = f1.getFileID();
        long id2 = f2.getFileID();

        return id1 < id2 ? -1 : id1 == id2 ? 0 : 1;
    }
}

private final class PerfBlast extends Thread
{
    private final int pages;

    private PerfBlast(final int pages)
    {
        super("hornetq-perfbblast-thread");

        this.pages = pages;
    }

    @Override
    public void run()
    {
        lockAppend.lock();
        try
        {

            final ByteArrayEncoding byteEncoder = new ByteArrayEncoding(new byte[128 * 1024]);

            JournalInternalRecord blastRecord = new JournalInternalRecord()
            {

                @Override
                public int getEncodeSize()
                {
                    return byteEncoder.getEncodeSize();
                }
            }

```

```

    public void encode(final HornetQBuffer buffer)
    {
        byteEncoder.encode(buffer);
    }
};

for (int i = 0; i < pages; i++)
{
    appendRecord(blastRecord, false, false, null, null);
}
}
catch (Exception e)
{
    HornetQJournalLogger.LOGGER.failedToPerfBlast(e);
}
finally
{
    lockAppend.unlock();
}
}
}

public final void synchronizationLock()
{
    compactorLock.writeLock().lock();
    journalLock.writeLock().lock();
}

public final void synchronizationUnlock()
{
    try
    {
        compactorLock.writeLock().unlock();
    }
    finally
    {
        journalLock.writeLock().unlock();
    }
}

/**
 * Returns Map with a { @link JournalFile } for all existing files.
 * <p/>
 * These are the files needed to be sent to a backup in order to synchronize it.
 *
 * @param fileIds
 * @return map with the IDs and corresponding { @link JournalFile}s

```

```

* @throws Exception
*/
@Override
public synchronized Map<Long, JournalFile> createFilesForBackupSync(long[] fileIds) throws Exception
{
    synchronizationLock();
    try
    {
        Map<Long, JournalFile> map = new HashMap<Long, JournalFile>();
        long maxID = -1;
        for (long id : fileIds)
        {
            maxID = Math.max(maxID, id);
            map.put(Long.valueOf(id), filesRepository.createRemoteBackupSyncFile(id));
        }
        filesRepository.setNextFileID(maxID);
        return map;
    }
    finally
    {
        synchronizationUnlock();
    }
}

@Override
public SequentialFileFactory getFileFactory()
{
    return fileFactory;
}

/**
 * @param lastDataPos
 * @return
 * @throws Exception
 */
protected JournalFile setUpCurrentFile(int lastDataPos) throws Exception
{
    // Create any more files we need

    filesRepository.ensureMinFiles();

    // The current file is the last one that has data

    currentFile = filesRepository.pollLastDataFile();
    if (currentFile != null)
    {
        if (!currentFile.getFile().isOpen())
            currentFile.getFile().open();
    }
}

```

```

        currentFile.getFile().position(currentFile.getFile().calculateBlockStart(lastDataPos));
    }
    else
    {
        currentFile = filesRepository.getFreeFile();
        filesRepository.openFile(currentFile, true);
    }

    fileFactory.activateBuffer(currentFile.getFile());

    filesRepository.pushOpenedFile();
    return currentFile;
}

/**
 * @param size
 * @return
 * @throws Exception
 */
protected JournalFile switchFileIfNecessary(int size) throws Exception
{
    // We take into account the fileID used on the Header
    if (size > fileSize - currentFile.getFile().calculateBlockStart(JournalImpl.SIZE_HEADER))
    {
        throw new IllegalArgumentException("Record is too large to store " + size);
    }

    if (!currentFile.getFile().fits(size))
    {
        moveNextFile(true);

        // The same check needs to be done at the new file also
        if (!currentFile.getFile().fits(size))
        {
            // Sanity check, this should never happen
            throw new IllegalStateException("Invalid logic on buffer allocation");
        }
    }
    return currentFile;
}

private CountdownLatch newLatch(int countDown)
{
    if (state == JournalState.STOPPED)
    {
        throw new RuntimeException("Server is not started");
    }
    CountdownLatch latch = new CountdownLatch(countDown);

```

```

    latches.add(latch);
    return latch;
}

private void awaitLatch(CountDownLatch latch, int timeout) throws InterruptedException
{
    try
    {
        if (timeout < 0)
        {
            latch.await();
        }
        else
        {
            latch.await(timeout, TimeUnit.SECONDS);
        }

        // in case of an interrupted server, we need to make sure we don't proceed on anything
        if (state == JournalState.STOPPED)
        {
            throw new RuntimeException("Server is not started");
        }
    }
    finally
    {
        latches.remove(latch);
    }
}

/**
 * You need to guarantee lock.acquire() before calling this method!
 */
private void moveNextFile(final boolean scheduleReclaim) throws Exception
{
    filesRepository.closeFile(currentFile);

    currentFile = filesRepository.openFile();

    if (scheduleReclaim)
    {
        scheduleReclaim();
    }

    if (trace)
    {
        HornetQJournalLogger.LOGGER.trace("Moving next file " + currentFile);
    }
}

```

```

        fileFactory.activateBuffer(currentFile.getFile());
    }

    @Override
    public void replicationSyncPreserveOldFiles()
    {
        setAutoReclaim(false);
    }

    @Override
    public void replicationSyncFinished()
    {
        setAutoReclaim(true);
    }

    @Override
    public void testCompact()
    {
        try
        {
            scheduleCompactAndBlock(60);
        }
        catch (Exception e)
        {
            throw new RuntimeException(e);
        }
    }
}
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 */
package org.hornetq.core.journal;

/**
 * A IOCompletion
 *
 * @author <mailto:clebert.suonic@jboss.org>Clebert Suonic</a>
 */

```

```
*/  
public interface IOCompletion extends IOAsyncTask  
{  
    void storeLineUp();  
}
```

1.77 hornetq-server 2.4.5

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1.78 hornetq-server/lgpl-portions 2.4.5

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1.81 htmlparser_script 1.6

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1.87 jackson-core-asl 1.9.2

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/* Jackson JSON-processor.

*

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1.93 jasper-compiler 5.5.23

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1.96 jasypt-spring3 1.9.0

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1.98 Java Uuid Generator (JUG) 2.0.0 :29-Oct-2005

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<http://www1.ics.uci.edu/~ejw/authoring/uuid-guid/draft-leach-uuids-guids-01.txt>
[draft id being '<draft-leach-uuids-guids-01.txt>']

Alternatively you can also read newer IETF draft that described URN name space for UUIDs, as it contains UUID definition:

<http://www.ietf.org/internet-drafts/draft-mealling-uuid-urn-00.txt>

JUG can be used as a command-line tool (via class `org.doomdark.uuid.Jug`), or as a pluggable component; see file `USAGE` for details.

JUG was created by Tatu Saloranta (<tatu.saloranta@iki.fi>).

Code portions related to native access of Ethernet interfaces

(code under `jug-native` and `com/ccg`) were written by

Paul Blankenbaker (Windows, Linux, Solaris) and DJ Hagberg (Mac OS X).

In addition, many other individuals have helped fix bugs and implement new features: please see `CREDITS` for the complete list.

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1.104 javax.xml.namespace 1.0.1

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/**
 * Default implementation of the Attributes interface.
 *
 * <blockquote>
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 * Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>
 * See <a href='http://www.saxproject.org'>http://www.saxproject.org</a>
 * for further information.
 * </blockquote>
 *
 * <p>This class provides a default implementation of the SAX2
 * { @link org.xml.sax.Attributes Attributes } interface, with the
 * addition of manipulators so that the list can be modified or
 * reused.</p>
 *
 * <p>There are two typical uses of this class:</p>
 *
 * <ol>
 * <li>to take a persistent snapshot of an Attributes object
 * in a { @link org.xml.sax.ContentHandler#startElement startElement } event; or</li>
 * <li>to construct or modify an Attributes object in a SAX2 driver or filter.</li>
 * </ol>
 *
 * <p>This class replaces the now-deprecated SAX1 { @link
 * org.xml.sax.helpers.AttributeListImpl AttributeListImpl }
 * class; in addition to supporting the updated Attributes
 * interface rather than the deprecated { @link org.xml.sax.AttributeList
 * AttributeList } interface, it also includes a much more efficient
 * implementation using a single array rather than a set of Vectors.</p>
 *
 * @since JAXB1.0
 * @since SAX 2.0
 * @author David Megginson
 * @version 2.0.1 (sax2r2)
 */
// NamespaceSupport.java - generic Namespace support for SAX.
// http://www.saxproject.org
// Written by David Megginson
// This class is in the Public Domain. NO WARRANTY!
# RELAX NG Schema for WSDL 1.1 HTTP Binding
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1.111 jaxrpc-api 1.1 :0

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Summary: jaxrpc-api

Name: jaxrpc-api

Version: 1.1

Release: 0

License: CDDL 1.0

Group: Libraries/Java

Source: /users/sahuero/sandbox/SOURCES/jboss-jaxrpc-api_1.1_spec-1.0.1.Final-sources.jar

URL: <https://svn.java.net/svn/jax-rpc-svn>

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1.112 jboss-common-core 2.2.10

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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

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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 modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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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.

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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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(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.

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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.

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1.118 JCS 1.3

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1.119 JDOM 1.0

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/*--

\$Id: Comment.java,v 1.32 2004/02/11 21:12:43 jhunter Exp \$

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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

* @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() {
        return text;
    }

    /**
     * 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 IllegalArgumentException 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 String representation of the
 * Comment, suitable for debugging. If the XML
 * representation of the Comment is desired,
 * { @link org.jdom.output.XMLOutputter#outputString(Comment)}
 * should be used.
 *
 * @return String - information about the
 *         Attribute
 */
public String toString() {
    return new StringBuffer()
        .append("[Comment: ")
        .append(new org.jdom.output.XMLOutputter().outputString(this))
        .append("]")
        .toString();
}
}
}

```

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*/

1.121 jep 2.23

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/******

JEP - Java Expression Parser

JEP is a Java package for parsing and evaluating mathematical expressions. It currently supports user defined variables, constant, and functions. A number of common mathematical functions and constants are included.

Author: Nathan Funk

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1.130 jets3t 0.6.1

1.130.1 Available under license :

```
/**
 * Permission.java
 *
 * This file was auto-generated from WSDL
 * by the Apache Axis 1.4 Apr 22, 2006 (06:55:48 PDT) WSDL2Java emitter.
 */

package org.jets3t.service.impl.soap.axis._2006_03_01;

public class Permission implements java.io.Serializable {
    private java.lang.String _value_;
    private static java.util.HashMap _table_ = new java.util.HashMap();

    // Constructor
    protected Permission(java.lang.String value) {
        _value_ = value;
        _table_.put(_value_,this);
    }

    public static final java.lang.String _READ = "READ";
    public static final java.lang.String _WRITE = "WRITE";
    public static final java.lang.String _READ_ACP = "READ_ACP";
    public static final java.lang.String _WRITE_ACP = "WRITE_ACP";
    public static final java.lang.String _FULL_CONTROL = "FULL_CONTROL";
    public static final Permission READ = new Permission(_READ);
    public static final Permission WRITE = new Permission(_WRITE);
    public static final Permission READ_ACP = new Permission(_READ_ACP);
    public static final Permission WRITE_ACP = new Permission(_WRITE_ACP);
    public static final Permission FULL_CONTROL = new Permission(_FULL_CONTROL);
```

```

public java.lang.String getValue() { return _value_;}
public static Permission fromValue(java.lang.String value)
    throws java.lang.IllegalArgumentException {
    Permission enumeration = (Permission)
        _table_.get(value);
    if (enumeration==null) throw new java.lang.IllegalArgumentException();
    return enumeration;
}
public static Permission fromString(java.lang.String value)
    throws java.lang.IllegalArgumentException {
    return fromValue(value);
}
public boolean equals(java.lang.Object obj) {return (obj == this);}
public int hashCode() { return toString().hashCode();}
public java.lang.String toString() { return _value_;}
public java.lang.Object readResolve() throws java.io.ObjectStreamException { return fromValue(_value_);}
public static org.apache.axis.encoding.Serializer getSerializer(
    java.lang.String mechType,
    java.lang.Class _javaType,
    javax.xml.namespace.QName _xmlType) {
    return
        new org.apache.axis.encoding.ser.EnumSerializer(
            _javaType, _xmlType);
}
public static org.apache.axis.encoding.Deserializer getDeserializer(
    java.lang.String mechType,
    java.lang.Class _javaType,
    javax.xml.namespace.QName _xmlType) {
    return
        new org.apache.axis.encoding.ser.EnumDeserializer(
            _javaType, _xmlType);
}
// Type metadata
private static org.apache.axis.description.TypeDesc typeDesc =
    new org.apache.axis.description.TypeDesc(Permission.class);

static {
    typeDesc.setXmlType(new javax.xml.namespace.QName("http://s3.amazonaws.com/doc/2006-03-01/",
"Permission"));
}
/**
 * Return type metadata object
 */
public static org.apache.axis.description.TypeDesc getTypeDesc() {
    return typeDesc;
}
}

```

```

/*
 * jets3t : Java Extra-Tasty S3 Toolkit (for Amazon S3 online storage service)
 * This is a java.net project, see https://jets3t.dev.java.net/
 *
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 * limitations under the License.
 */
package org.jets3t.service.acl;

/**
 * Represents an access permission, as granted to grantees in an {@link AccessControlList}.
 * Only a limited set of permissions are available, each one is available as a public static
 * variable in this class of the form PERMISSION_XYZ.
 *
 * @author James Murty
 */
public class Permission {
    public static final Permission PERMISSION_FULL_CONTROL = new Permission("FULL_CONTROL");
    public static final Permission PERMISSION_READ = new Permission("READ");
    public static final Permission PERMISSION_WRITE = new Permission("WRITE");
    public static final Permission PERMISSION_READ_ACP = new Permission("READ_ACP");
    public static final Permission PERMISSION_WRITE_ACP = new Permission("WRITE_ACP");

    private String permissionString = "";

    private Permission(String permissionString) {
        this.permissionString = permissionString;
    }

    /**
     * @param str
     * a string representation of a permission, eg <code>FULL_CONTROL</code>
     * @return
     * the Permission object represented by the given permission string
     */
    public static Permission parsePermission(String str) {
        Permission permission = null;

```

```

if (str == null) {
    // Do nothing
} else if (str.equals(PERMISSION_FULL_CONTROL.toString())) {
    permission = PERMISSION_FULL_CONTROL;
} else if (str.equals(PERMISSION_READ.toString())) {
    permission = PERMISSION_READ;
} else if (str.equals(PERMISSION_WRITE.toString())) {
    permission = PERMISSION_WRITE;
} else if (str.equals(PERMISSION_READ_ACP.toString())) {
    permission = PERMISSION_READ_ACP;
} else if (str.equals(PERMISSION_WRITE_ACP.toString())) {
    permission = PERMISSION_WRITE_ACP;
} else {
    permission = null;
}
return permission;
}

/**
 * @return
 * the string representation of a permission object, eg <tt>FULL_CONTROL</tt>
 */
public String toString() {
    return permissionString;
}

public int hashCode() {
    return permissionString.hashCode();
}

public boolean equals(Object obj) {
    return (obj instanceof Permission) && toString().equals(obj.toString());
}

}

/*
 * jets3t : Java Extra-Tasty S3 Toolkit (for Amazon S3 online storage service)
 * This is a java.net project, see https://jets3t.dev.java.net/
 *
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* See the License for the specific language governing permissions and  
* limitations under the License.  
*/
```

```
package org.jets3t.samples;
```

```
import java.io.IOException;  
import java.io.InputStream;  
import java.util.Properties;
```

```
import org.jets3t.service.security.AWSCredentials;
```

```
/**
```

```
* Utilities used by all Sample code, collected in one place for convenience.
```

```
*
```

```
* @author James Murty
```

```
*/
```

```
public class SamplesUtils {
```

```
    public static final String SAMPLES_PROPERTIES_NAME = "samples.properties";  
    public static final String AWS_ACCESS_KEY_PROPERTY_NAME = "awsAccessKey";  
    public static final String AWS_SECRET_KEY_PROPERTY_NAME = "awsSecretKey";
```

```
/**
```

```
* Loads AWS Credentials from the file <tt>samples.properties</tt>
```

```
* ({ @link #SAMPLES_PROPERTIES_NAME }) that must be available in the
```

```
* classpath, and must contain settings <tt>awsAccessKey</tt> and
```

```
* <tt>awsSecretKey</tt>.
```

```
*
```

```
* @return
```

```
* the AWS credentials loaded from the samples properties file.
```

```
*/
```

```
public static AWSCredentials loadAWSCredentials() throws IOException {
```

```
    InputStream propertiesIS =
```

```
        ClassLoader.getSystemResourceAsStream(SAMPLES_PROPERTIES_NAME);
```

```
    if (propertiesIS == null) {
```

```
        throw new RuntimeException("Unable to load test properties file from classpath: "  
            + SAMPLES_PROPERTIES_NAME);
```

```
    }
```

```
    Properties testProperties = new Properties();
```

```
    testProperties.load(propertiesIS);
```

```
    if (!testProperties.containsKey(AWS_ACCESS_KEY_PROPERTY_NAME)) {
```

```
        throw new RuntimeException(
```

```
            "Properties file 'test.properties' does not contain required property: " +
```

```

AWS_ACCESS_KEY_PROPERTY_NAME);
    }
    if (!testProperties.containsKey(AWS_SECRET_KEY_PROPERTY_NAME)) {
        throw new RuntimeException(
            "Properties file 'test.properties' does not contain required property: " +
AWS_SECRET_KEY_PROPERTY_NAME);
    }

    AWSCredentials awsCredentials = new AWSCredentials(
        testProperties.getProperty(AWS_ACCESS_KEY_PROPERTY_NAME),
        testProperties.getProperty(AWS_SECRET_KEY_PROPERTY_NAME));

    return awsCredentials;
}

}
/*
 * jets3t : Java Extra-Tasty S3 Toolkit (for Amazon S3 online storage service)
 * This is a java.net project, see https://jets3t.dev.java.net/
 *
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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.jets3t.samples;

import java.io.BufferedReader;
import java.io.ByteArrayInputStream;
import java.io.File;
import java.io.InputStreamReader;
import java.io.StringReader;
import java.util.Calendar;
import java.util.Date;

import org.jets3t.service.Constants;
import org.jets3t.service.S3Service;
import org.jets3t.service.S3ServiceException;
import org.jets3t.service.acl.AccessControlList;

```

```

import org.jets3t.service.acl.CanonicalGrantee;
import org.jets3t.service.acl.EmailAddressGrantee;
import org.jets3t.service.acl.GroupGrantee;
import org.jets3t.service.acl.Permission;
import org.jets3t.service.impl.rest.httpclient.RestS3Service;
import org.jets3t.service.model.S3Bucket;
import org.jets3t.service.model.S3Object;
import org.jets3t.service.multithread.DownloadPackage;
import org.jets3t.service.multithread.S3ServiceSimpleMulti;
import org.jets3t.service.security.AWSCredentials;
import org.jets3t.service.utils.ServiceUtils;

/**
 * This class includes all the code samples as listed in the JetS3t
 * <a href="http://jets3t.s3.amazonaws.com/toolkit/guide.html">Programmer Guide</a>.
 * <p>
 * This code is provided as a convenience for those who are reading through the guide and don't want
 * to type out the examples themselves.
 * </p>
 *
 * @author James Murty
 */
public class CodeSamples {

    public static void main(String[] args) throws Exception {
        /* *****
        * Code Samples
        * *****
        */

        /*
        * Connecting to S3
        */

        // Your Amazon Web Services (AWS) login credentials are required to manage S3 accounts.
        // These credentials are stored in an AWSCredentials object:

        AWSCredentials awsCredentials = SamplesUtils.loadAWSCredentials();

        // To communicate with S3, create a class that implements an S3Service.
        // We will use the REST/HTTP implementation based on HttpClient, as this is the most
        // robust implementation provided with jets3t.

        S3Service s3Service = new RestS3Service(awsCredentials);

        // A good test to see if your S3Service can connect to S3 is to list all the buckets you own.
        // If a bucket listing produces no exceptions, all is well.

```

```

S3Bucket[] myBuckets = s3Service.listAllBuckets();
System.out.println("How many buckets to I have in S3? " + myBuckets.length);

/*
 * Create a bucket
 */

// To store data in S3 you must first create a bucket, a container for objects.

S3Bucket testBucket = s3Service.createBucket("test-bucket");
System.out.println("Created test bucket: " + testBucket.getName());

// If you try using a common name, you will probably not be able to create the
// bucket as someone else will already have a bucket of that name.

// To create a bucket in an S3 data center located somewhere other than
// the United States, you can specify a location for your bucket as a
// second parameter to the createBucket() method. Currently, the only
// alternative S3 location is Europe (EU).

S3Bucket euBucket = s3Service.createBucket("eu-bucket", S3Bucket.LOCATION_EUROPE);

/*
 * Uploading data objects
 */

// We use S3Object classes to represent data objects in S3. To store some information in our
// new test bucket, we must first create an object with a key/name then tell our
// S3Service to upload it to S3.

// In the example below, we print out information about the S3Object before and after
// uploading it to S3. These print-outs demonstrate that the S3Object returned by the
// putObject method contains extra information provided by S3, such as the date the
// object was last modified on an S3 server.

// Create an empty object with a key/name, and print the object's details.
S3Object object = new S3Object("object");
System.out.println("S3Object before upload: " + object);

// Upload the object to our test bucket in S3.
object = s3Service.putObject(testBucket, object);

// Print the details about the uploaded object, which contains more information.
System.out.println("S3Object after upload: " + object);

// The example above will create an empty object in S3, which isn't very useful.
// To include data in the object you must provide some data for the object.

```

```
// If you know the Content/Mime type of the data (e.g. text/plain) you should set this too.
```

```
// S3Object's can contain any data available from an input stream, but JetS3t provides two  
// convenient object types to hold File or String data. These convenient constructors  
// automatically set the Content-Type and Content-Length of the object.
```

```
// Create an S3Object based on a string, with Content-Length set automatically and  
// Content-Type set to "text/plain"  
String stringData = "Hello World!";  
S3Object stringObject = new S3Object(testBucket, "HelloWorld.txt", stringData);
```

```
// Create an S3Object based on a file, with Content-Length set automatically and  
// Content-Type set based on the file's extension (using the Mimetype utility class)  
File fileData = new File("src/org/jets3t/samples/CodeSamples.java");  
S3Object fileObject = new S3Object(testBucket, fileData);
```

```
// If your data isn't a File or String you can use any input stream as a data source,  
// but you must manually set the Content-Length.
```

```
// Create an object containing a greeting string as input stream data.  
String greeting = "Hello World!";  
S3Object helloWorldObject = new S3Object("HelloWorld2.txt");  
ByteArrayInputStream greetingIS = new ByteArrayInputStream(  
    greeting.getBytes(Constants.DEFAULT_ENCODING));  
helloWorldObject.setDataInputStream(greetingIS);  
helloWorldObject.setContentLength(greetingIS.available());  
helloWorldObject.setContentType("text/plain");
```

```
// Upload the data objects.  
s3Service.putObject(testBucket, stringObject);  
s3Service.putObject(testBucket, fileObject);  
s3Service.putObject(testBucket, helloWorldObject);
```

```
// Print details about the uploaded object.  
System.out.println("S3Object with data: " + helloWorldObject);
```

```
/*  
 * Verifying Uploads  
 */
```

```
// To be 100% sure that data you have uploaded to S3 has not been  
// corrupted in transit, you can verify that the hash value of the data  
// S3 received matches the hash value of your original data.
```

```
// The easiest way to do this is to specify your data's hash value  
// in the Content-MD5 header before you upload the object. JetS3t will  
// do this for you automatically when you use the File- or String-based  
// S3Object constructors:
```

```

S3Object objectWithHash = new S3Object(testBucket, "HelloWorld.txt", stringData);
System.out.println("Hash value: " + objectWithHash.getMd5HashAsHex());

// If you do not use these constructors, you should *always* set the
// Content-MD5 header value yourself before you upload an object.
// JetS3t provides the ServiceUtils#computeMD5Hash method to calculate
// the hash value of an input stream or byte array.

ByteArrayInputStream dataIS = new ByteArrayInputStream(
    "Here is my data".getBytes(Constants.DEFAULT_ENCODING));
byte[] md5Hash = ServiceUtils.computeMD5Hash(dataIS);
dataIS.reset();

stringObject = new S3Object("MyData");
stringObject.setDataInputStream(dataIS);
stringObject.setMd5Hash(md5Hash);

/*
 * Downloading data objects
 */

// To download data from S3 you retrieve an S3Object through the S3Service.
// You may retrieve an object in one of two ways, with the data contents or without.

// If you just want to know some details about an object and you don't need its contents,
// it's faster to use the getObjectDetails method. This returns only the object's details,
// also known as its 'HEAD'. Head information includes the object's size, date, and other
// metadata associated with it such as the Content Type.

// Retrieve the HEAD of the data object we created previously.
S3Object objectDetailsOnly = s3Service.getObjectDetails(testBucket, "helloWorld.txt");
System.out.println("S3Object, details only: " + objectDetailsOnly);

// If you need the data contents of the object, the getObject method will return all the
// object's details and will also set the object's DataInputStream variable from which
// the object's data can be read.

// Retrieve the whole data object we created previously
S3Object objectComplete = s3Service.getObject(testBucket, "helloWorld.txt");
System.out.println("S3Object, complete: " + objectComplete);

// Read the data from the object's DataInputStream using a loop, and print it out.
System.out.println("Greeting:");
BufferedReader reader = new BufferedReader(
    new InputStreamReader(objectComplete.getDataInputStream()));
String data = null;
while ((data = reader.readLine()) != null) {

```

```

        System.out.println(data);
    }

    /*
     * Verifying Downloads
     */

    // To be 100% sure that data you have downloaded from S3 has not been
    // corrupted in transit, you can verify the data by calculating its hash
    // value and comparing this against the hash value returned by S3.

    // JetS3t provides convenient methods for verifying data that has been
    // downloaded to a File, byte array or InputStream.

    S3Object downloadedObject = s3Service.getObject(testBucket, "helloWorld.txt");
    String testData = ServiceUtils.readInputStreamToString(
        downloadedObject.getDataInputStream(), "UTF-8");
    boolean valid = downloadedObject.verifyData(testData.getBytes("UTF-8"));
    System.out.println("Object verified? " + valid);

    /*
     * List your buckets and objects
     */

    // Now that you have a bucket and some objects, it's worth listing them. Note that when
    // you list objects, the objects returned will not include much information compared to
    // what you get from the getObject and getObjectDetails methods. However, they will
    // include the size of each object

    // List all your buckets.
    S3Bucket[] buckets = s3Service.listAllBuckets();

    // List the object contents of each bucket.
    for (int b = 0; b < buckets.length; b++) {
        System.out.println("Bucket " + buckets[b].getName() + " contains:");

        // List the objects in this bucket.
        S3Object[] objects = s3Service.listObjects(buckets[b]);

        // Print out each object's key and size.
        for (int o = 0; o < objects.length; o++) {
            System.out.println(" " + objects[o].getKey() + " (" + objects[o].getContentLength() + " bytes)");
        }
    }

    // When listing the objects in a bucket you can filter which objects to return based on
    // the names of those objects. This is useful when you are only interested in some
    // specific objects in a bucket and you don't need to list all the bucket's contents.

```

```

// List only objects whose keys match a prefix.
String prefix = "Reports";
String delimiter = null; // Refer to the S3 guide for more information on delimiters
S3Object[] filteredObjects = s3Service.listObjects(testBucket, prefix, delimiter);

/*
 * Copying objects
 */

// Objects can be copied within the same bucket and between buckets.

// Create a target S3Object
S3Object targetObject = new S3Object("targetObjectWithSourcesMetadata");

// Copy an existing source object to the target S3Object
// This will copy the source's object data and metadata to the target object.
boolean replaceMetadata = false;
s3Service.copyObject("test-bucket", "HelloWorld.txt", "destination-bucket", targetObject, replaceMetadata);

// You can also copy an object and update its metadata at the same time. Perform a
// copy-in-place (with the same bucket and object names for source and destination)
// to update an object's metadata while leaving the object's data unchanged.
targetObject = new S3Object("HelloWorld.txt");
targetObject.addMetadata(S3Object.METADATA_HEADER_CONTENT_TYPE, "text/html");
replaceMetadata = true;
s3Service.copyObject("test-bucket", "HelloWorld.txt", "test-bucket", targetObject, replaceMetadata);

/*
 * Moving and Renaming objects
 */

// Objects can be moved within a bucket (to a different name) or to another S3
// bucket in the same region (eg US or EU).
// A move operation is composed of a copy then a delete operation behind the scenes.
// If the initial copy operation fails, the object is not deleted. If the final delete
// operation fails, the object will exist in both the source and destination locations.

// Here is a command that moves an object from one bucket to another.
s3Service.moveObject("test-bucket", "HelloWorld.txt", "destination-bucket", targetObject, false);

// You can move an object to a new name in the same bucket. This is essentially a rename operation.
s3Service.moveObject("test-bucket", "HelloWorld.txt", "test-bucket", new S3Object("NewName.txt"), false);

// To make renaming easier, JetS3t has a shortcut method especially for this purpose.
s3Service.renameObject("test-bucket", "HelloWorld.txt", targetObject);

/*

```

```

* Deleting objects and buckets
*/

// Objects can be easily deleted. When they are gone they are gone for good so be careful.

// Buckets may only be deleted when they are empty.

// If you try to delete your bucket before it is empty, it will fail.
try {
    // This will fail if the bucket isn't empty.
    s3Service.deleteBucket(testBucket.getName());
} catch (S3ServiceException e) {
    e.printStackTrace();
}

// Delete all the objects in the bucket
s3Service.deleteObject(testBucket, object.getKey());
s3Service.deleteObject(testBucket, helloWorldObject.getKey());

// Now that the bucket is empty, you can delete it.
s3Service.deleteBucket(testBucket.getName());
System.out.println("Deleted bucket " + testBucket.getName());

/* *****
* Multi-threaded Examples
* *****
*/

// The jets3t Toolkit includes utility services, S3ServiceMulti and S3ServiceSimpleMulti, that
// can perform an S3 operation on many objects at a time. These services allow you to use more
// of your available bandwidth and perform S3 operations much faster. They work with any
// thread-safe S3Service implementation, such as the HTTP/REST and SOAP implementations
// provided with jets3t.

// The S3ServiceMulti service is intended for advanced developers. It is designed for use in
// graphical applications and uses an event-notification approach to communicate its results
// rather than standard method calls. This means the service can provide progress reports to
// an application during long-running operations. However, this approach makes the service
// complicated to use. See the code for the Cockpit application to see how this service is used
// to display progress updates.

// The S3ServiceSimpleMulti is a service that wraps around S3ServiceMulti and provides a
// simplified interface, so developers can take advantage of multi-threading without any extra work.

// The examples below demonstrate how to use some of the multi-threaded operations provided by
// S3ServiceSimpleMulti.

```

```

/*
 * Construct an S3ServiceSimpleMulti service
 */

// To use the S3ServiceSimpleMulti service you construct it by providing an existing
// S3Service object.

// Create a simple multi-threading service based on our existing S3Service
S3ServiceSimpleMulti simpleMulti = new S3ServiceSimpleMulti(s3Service);

/*
 * Upload multiple objects at once
 */

// To demonstrate multiple uploads, let's create some small text-data objects and a bucket to put them in.

// First, create a bucket.
S3Bucket bucket = new S3Bucket(awsCredentials.getAccessKey() + ".TestMulti");
bucket = s3Service.createBucket(bucket);

// Create an array of data objects to upload.
S3Object[] objects = new S3Object[5];
objects[0] = new S3Object(bucket, "object1.txt", "Hello from object 1");
objects[1] = new S3Object(bucket, "object2.txt", "Hello from object 2");
objects[2] = new S3Object(bucket, "object3.txt", "Hello from object 3");
objects[3] = new S3Object(bucket, "object4.txt", "Hello from object 4");
objects[4] = new S3Object(bucket, "object5.txt", "Hello from object 5");

// Now we have some sample objects, we can upload them.

// Upload multiple objects.
S3Object[] createdObjects = simpleMulti.putObjects(bucket, objects);
System.out.println("Uploaded " + createdObjects.length + " objects");

/*
 * Retrieve the HEAD information of multiple objects
 */

// Perform a Details/HEAD query for multiple objects.
S3Object[] objectsWithHeadDetails = simpleMulti.getObjectsHeads(bucket, objects);

// Print out details about all the objects.
System.out.println("Objects with HEAD Details...");
for (int i = 0; i < objectsWithHeadDetails.length; i++) {
    System.out.println(objectsWithHeadDetails[i]);
}

/*

```

```

* Download objects to local files
*/

// The multi-threading services provide a method to download multiple objects at a time, but
// to use this you must first prepare somewhere to put the data associated with each object.
// The most obvious place to put this data is into a file, so let's go through an example of
// downloading object data into files.

// To download our objects into files we first must create a DownloadPackage class for
// each object. This class is a simple container which merely associates an object with a
// file, to which the object's data will be written.

// Create a DownloadPackage for each object, to associate the object with an output file.
DownloadPackage[] downloadPackages = new DownloadPackage[5];
downloadPackages[0] = new DownloadPackage(objects[0],
    new File(objects[0].getKey()));
downloadPackages[1] = new DownloadPackage(objects[1],
    new File(objects[1].getKey()));
downloadPackages[2] = new DownloadPackage(objects[2],
    new File(objects[2].getKey()));
downloadPackages[3] = new DownloadPackage(objects[3],
    new File(objects[3].getKey()));
downloadPackages[4] = new DownloadPackage(objects[4],
    new File(objects[4].getKey()));

// Download the objects.
simpleMulti.downloadObjects(bucket, downloadPackages);
System.out.println("Downloaded objects to current working directory");

/*
* Delete multiple objects
*/

// It's time to clean up, so let's get rid of our multiple objects and test bucket.

// Delete multiple objects, then the bucket too.
simpleMulti.deleteObjects(bucket, objects);
s3Service.deleteBucket(bucket);
System.out.println("Deleted bucket: " + bucket);

/* *****
* Advanced Examples
* *****
*/

/*
* Managing Metadata
*/

```

```

// S3Objects can contain metadata stored as name/value pairs. This metadata is stored in
// S3 and can be accessed when an object is retrieved from S3 using getObject
// or getObjectDetails methods. To store metadata with an object, add your metadata to
// the object prior to uploading it to S3.

// Note that metadata cannot be updated in S3 without replacing the existing object,
// and that metadata names must be strings without spaces.

S3Object objectWithMetadata = new S3Object("metadataObject");
objectWithMetadata.addMetadata("favourite-colour", "blue");
objectWithMetadata.addMetadata("document-version", "0.3");

/*
 * Save and load encrypted AWS Credentials
 */

// AWS credentials are your means to login to and manage your S3 account, and should be
// kept secure. The jets3t toolkit stores these credentials in AWSCredentials objects.
// The AWSCredentials class provides utility methods to allow credentials to be saved to
// an encrypted file and loaded from a previously saved file with the right password.

// Save credentials to an encrypted file protected with a password.
File credFile = new File("awscredentials.enc");
awsCredentials.save("password", credFile);

// Load encrypted credentials from a file.
AWSCredentials loadedCredentials = AWSCredentials.load("password", credFile);
System.out.println("AWS Key loaded from file: " + loadedCredentials.getAccessKey());

// You won't get far if you use the wrong password...
try {
    loadedCredentials = AWSCredentials.load("wrongPassword", credFile);
} catch (S3ServiceException e) {
    System.err.println("Cannot load credentials from file with the wrong password!");
}

/*
 * Manage Access Control Lists
 */

// S3 uses Access Control Lists to control who has access to buckets and objects in S3.
// By default, any bucket or object you create will belong to you and will not be accessible
// to anyone else. You can use jets3t's support for access control lists to make buckets or
// objects publicly accessible, or to allow other S3 members to access or manage your objects.

// The ACL capabilities of S3 are quite involved, so to understand this subject fully please

```

```

// consult Amazon's documentation. The code examples below show how to put your understanding
// of the S3 ACL mechanism into practice.

// ACL settings may be provided with a bucket or object when it is created, or the ACL of
// existing items may be updated. Let's start by creating a bucket with default (i.e. private)
// access settings, then making it public.

// Create a bucket in S3.
S3Bucket publicBucket = new S3Bucket(awsCredentials.getAccessKey() + ".publicBucket");
s3Service.createBucket(publicBucket);

// Retrieve the bucket's ACL and modify it to grant public access,
// ie READ access to the ALL_USERS group.
AccessControlList bucketAcl = s3Service.getBucketAcl(publicBucket);
bucketAcl.grantPermission(GroupGrantee.ALL_USERS, Permission.PERMISSION_READ);

// Update the bucket's ACL. Now anyone can view the list of objects in this bucket.
publicBucket.setAcl(bucketAcl);
s3Service.putBucketAcl(publicBucket);
System.out.println("View bucket's object listing here: http://s3.amazonaws.com/"
    + publicBucket.getName());

// Now let's create an object that is public from scratch. Note that we will use the bucket's
// public ACL object created above, this works fine. Although it is possible to create an
// AccessControlList object from scratch, this is more involved as you need to set the
// ACL's Owner information which is only readily available from an existing ACL.

// Create a public object in S3. Anyone can download this object.
S3Object publicObject = new S3Object(
    publicBucket, "publicObject.txt", "This object is public");
publicObject.setAcl(bucketAcl);
s3Service.putObject(publicBucket, publicObject);
System.out.println("View public object contents here: http://s3.amazonaws.com/"
    + publicBucket.getName() + "/" + publicObject.getKey());

// The ALL_USERS Group is particularly useful, but there are also other grantee types
// that can be used with AccessControlList. Please see Amazon's S3 technical documentation
// for a fuller discussion of these settings.

AccessControlList acl = new AccessControlList();

// Grant access by email address. Note that this only works email address of AWS S3 members.
acl.grantPermission(new EmailAddressGrantee("someone@somewhere.com"),
    Permission.PERMISSION_FULL_CONTROL);

// Grant control of ACL settings to a known AWS S3 member.
acl.grantPermission(new CanonicalGrantee("AWS member's ID"),
    Permission.PERMISSION_READ_ACP);

```

```

acl.grantPermission(new CanonicalGrantee("AWS member's ID"),
    Permission.PERMISSION_WRITE_ACP);

/*
 * Temporarily make an Object available to anyone
 */

// A private object stored in S3 can be made publicly available for a limited time using a
// signed URL. The signed URL can be used by anyone to download the object, yet it includes
// a date and time after which the URL will no longer work.

// Create a private object in S3.
S3Bucket privateBucket = new S3Bucket(awsCredentials.getAccessKey() + ".privateBucket");
S3Object privateObject = new S3Object(
    privateBucket, "privateObject.txt", "This object is private");
s3Service.createBucket(privateBucket);
s3Service.putObject(privateBucket, privateObject);

// Determine what the time will be in 5 minutes.
Calendar cal = Calendar.getInstance();
cal.add(Calendar.MINUTE, 5);
Date expiryDate = cal.getTime();

// Create a signed HTTP GET URL valid for 5 minutes.
// If you use the generated URL in a web browser within 5 minutes, you will be able to view
// the object's contents. After 5 minutes, the URL will no longer work and you will only
// see an Access Denied message.
String signedUrl = S3Service.createSignedGetUrl(privateBucket.getName(), privateObject.getKey(),
    awsCredentials, expiryDate, false);
System.out.println("Signed URL: " + signedUrl);

/*
 * Create an S3 POST form
 */

// When you create an S3 POST form, anyone who accesses that form in
// a web browser will be able to upload files to S3 directly from the
// browser, without needing S3-compatible client software.
// Refer to the S3 documentation for more information:
// http://docs.amazonwebservices.com/AmazonS3/2006-03-01/UsingHTTPPOST.html

// We will start by creating a POST form with no policy document,
// meaning that the form will have no expiration date or usage
// conditions. This form will only work if the target bucket has
// public write access enabled.

```

```

String unrestrictedForm =
    S3Service.buildPostForm("public-bucket", "${filename}");

// To use this form, save it in a UTF-8 encoded HTML page (ie with
// the meta tag
// <meta http-equiv="Content-Type" content="text/html; charset=UTF-8" />)
// and load the page in a web browser.

// We will now create a POST form with a range of policy conditions,
// that will allow users to upload image files to a protected bucket.
String bucketName = "test-bucket";
String key = "uploads/images/pic.jpg";

// Specify input fields to set the access permissions and content type
// of the object created by the form. We will also redirect the user to
// another web site after they have successfully uploaded a file.
String[] inputFields = new String[] {
    "<input type=\"hidden\" name=\"acl\" value=\"public-read\">",
    "<input type=\"hidden\" name=\"Content-Type\" value=\"image/jpeg\">",
    "<input type=\"hidden\" name=\"success_action_redirect\" value=\"http://localhost/post_upload\">"
};

// We then specify policy conditions for at least the mandatory
// 'bucket' and 'key' fields that will be included in the POST request.
// In addition to the mandatory fields, we will add a condition to
// control the size of the file the user can upload.
// Note that our list of conditions must include a condition
// corresponding to each of the additional input fields we specified above.
String[] conditions = {
    S3Service.generatePostPolicyCondition_Equality("bucket", bucketName),
    S3Service.generatePostPolicyCondition_Equality("key", key),
    S3Service.generatePostPolicyCondition_Range(10240, 204800),
    // Conditions to allow the additional fields specified above
    S3Service.generatePostPolicyCondition_Equality("acl", "public-read"),
    S3Service.generatePostPolicyCondition_Equality("Content-Type", "image/jpeg"),
    S3Service.generatePostPolicyCondition_Equality("success_action_redirect", "http://localhost/post_upload")
};

// Form will expire in 24 hours
cal = Calendar.getInstance();
cal.add(Calendar.HOUR, 24);
Date expiration = cal.getTime();

// Generate the form.
String restrictedForm = S3Service.buildPostForm(
    bucketName, key, awsCredentials, expiration, conditions,
    inputFields, null, true);

```

```

    }

}
/*
 * jets3t : Java Extra-Tasty S3 Toolkit (for Amazon S3 online storage service)
 * This is a java.net project, see https://jets3t.dev.java.net/
 *
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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.jets3t.samples;

import java.io.BufferedReader;
import java.io.InputStreamReader;
import java.util.Calendar;
import java.util.Date;

import org.jets3t.service.S3Service;
import org.jets3t.service.impl.rest.httpclient.RestS3Service;
import org.jets3t.service.model.S3Bucket;
import org.jets3t.service.model.S3Object;
import org.jets3t.service.security.AWSCredentials;
import org.jets3t.service.utils.signedurl.SignedUrlHandler;

/**
 * Demonstrates how to create and use Signed URLs.
 */
public class UrlSigningExample {

    /**
     * Change the name of this bucket to a bucket of your own.
     */
    private static final String myBucketName = "Test";

    public static void main(String[] args) throws Exception {
        // Initialise a SignedUrlHandler, which is an interface implemented by classes able to
        // perform operations in S3 using signed URLs (no AWS Credentials required).

```

```

// The RestS3Service provides an implementation of this interface in JetS3t.
SignedUrlHandler signedUrlHandler = new RestS3Service(null);

// Create a bucket to test reading and writing to
S3Bucket bucket = new S3Bucket(myBucketName);

// Create an object to use for testing.
S3Object object = new S3Object(bucket, "urlSigningTestObject.txt", "Hello World!");

// Determine what the time will be in 5 minutes - our signed URLs will be valid for 5 minutes only.
Calendar cal = Calendar.getInstance();
cal.add(Calendar.MINUTE, 5);
Date expiryDate = cal.getTime();

/*
 * Generate the signed URL strings for PUT, GET, HEAD and DELETE operations, using the
 * AWS Credentials in the samples.properties file.
 */
AWSCredentials awsCredentials = SamplesUtils.loadAWSCredentials();

// Create a signed HTTP PUT URL valid for 5 minutes.
String putUrl = S3Service.createSignedPutUrl(bucket.getName(), object.getKey(),
    object.getMetadataMap(), awsCredentials, expiryDate, false);

// Create a signed HTTP GET URL valid for 5 minutes.
String getUrl = S3Service.createSignedGetUrl(bucket.getName(), object.getKey(),
    awsCredentials, expiryDate, false);

// Create a signed HTTP HEAD URL valid for 5 minutes.
String headUrl = S3Service.createSignedHeadUrl(bucket.getName(), object.getKey(),
    awsCredentials, expiryDate, false);

// Create a signed HTTP DELETE URL valid for 5 minutes.
String deleteUrl = S3Service.createSignedDeleteUrl(bucket.getName(), object.getKey(),
    awsCredentials, expiryDate, false);

System.out.println("Signed PUT URL: " + putUrl);
System.out.println("Signed GET URL: " + getUrl);
System.out.println("Signed HEAD URL: " + headUrl);
System.out.println("Signed DELETE URL: " + deleteUrl);

System.out.println("Performing PUT with signed URL");
S3Object putObject = signedUrlHandler.putObjectWithSignedUrl(putUrl, object);
System.out.println(" Object has been uploaded to S3: " + putObject.getKey());

System.out.println("Performing HEAD with signed URL");
S3Object headObject = signedUrlHandler.getObjectDetailsWithSignedUrl(headUrl);
System.out.println(" Size of object in S3: " + headObject.getContentLength());

```

```

        System.out.println("Performing GET with signed URL");
        S3Object getObject = signedUrlHandler.getObjectWithSignedUrl(getUrl);
        String contentData = (new BufferedReader(
            new InputStreamReader(getObject.getDataInputStream()))).readLine();
        System.out.println(" Content of object in S3: " + contentData);

        System.out.println("Performing DELETE with signed URL");
        signedUrlHandler.deleteObjectWithSignedUrl(deleteUrl);
        System.out.println(" Object deleted - the example is finished");
    }

}

/*
 * jets3t : Java Extra-Tasty S3 Toolkit (for Amazon S3 online storage service)
 * This is a java.net project, see https://jets3t.dev.java.net/
 *
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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.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */
package org.jets3t.service.acl;

/**
 * Simple container object to combine a grantee object with a permission object.
 *
 * @author James Murty
 */
public class GrantAndPermission {
    private GranteeInterface grantee = null;
    private Permission permission = null;

    public GrantAndPermission(GranteeInterface grantee, Permission permission) {
        this.grantee = grantee;
        this.permission = permission;
    }

    public GranteeInterface getGrantee() {

```

```

return grantee;
}

public Permission getPermission() {
return permission;
}

public int hashCode() {
return (grantee + ":" + permission.toString()).hashCode();
}

public boolean equals(Object obj) {
return (obj instanceof GrantAndPermission
&& this.getGrantee().getIdentifier().equals(((GrantAndPermission)obj).getGrantee().getIdentifier())
&& this.getPermission().equals(((GrantAndPermission)obj).getPermission())
);
}

}
/*
* jets3t : Java Extra-Tasty S3 Toolkit (for Amazon S3 online storage service)
* This is a java.net project, see https://jets3t.dev.java.net/
*
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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.
* See the License for the specific language governing permissions and
* limitations under the License.
*/
package org.jets3t.service.multithread;

import java.io.File;
import java.io.IOException;
import java.util.ArrayList;
import java.util.Arrays;
import java.util.List;
import java.util.Map;

import org.jets3t.service.S3Service;
import org.jets3t.service.S3ServiceException;

```

```

import org.jets3t.service.model.S3Bucket;
import org.jets3t.service.model.S3Object;

/**
 * S3 service wrapper that performs multiple S3 requests at a time using multi-threading and an
 * underlying thread-safe {@link S3Service} implementation.
 * <p>
 * This class provides a simplified interface to the {@link S3ServiceMulti} service. It will block while
 * doing its work, return the results of an operation when it is finished, and throw an exception if
 * anything goes wrong.
 * <p>
 * For a non-blocking multi-threading service that is more powerful, but also more complicated,
 * see {@link S3ServiceMulti}.
 *
 * @author James Murty
 */
public class S3ServiceSimpleMulti {
    private S3Service s3Service = null;

    /**
     * Construct a multi-threaded service based on an S3Service.
     *
     * @param s3Service
     *    an S3Service implementation that will be used to perform S3 requests. This implementation
     *    <b>must</b> be thread-safe.
     */
    public S3ServiceSimpleMulti(S3Service s3Service) {
        this.s3Service = s3Service;
    }

    /**
     * Utility method to check an {@link S3ServiceEventAdaptor} for the occurrence of an error, and if
     * one is present to throw it.
     *
     * @param adaptor
     * @throws S3ServiceException
     */
    protected void throwError(S3ServiceEventAdaptor adaptor) throws S3ServiceException {
        if (adaptor.wasErrorThrown()) {
            Throwable thrown = adaptor.getErrorThrown();
            if (thrown instanceof S3ServiceException) {
                throw (S3ServiceException) thrown;
            } else {
                throw new S3ServiceException(thrown);
            }
        }
    }
}

```

```

/**
 * Creates multiple buckets.
 *
 * @param buckets
 * the buckets to create.
 * @return
 * the created buckets.
 * @throws S3ServiceException
 */
public S3Bucket[] createBuckets(final S3Bucket[] buckets) throws S3ServiceException {
    final List bucketList = new ArrayList();
    S3ServiceEventAdaptor adaptor = new S3ServiceEventAdaptor() {
        public void s3ServiceEventPerformed(CreateBucketsEvent event) {
            super.s3ServiceEventPerformed(event);
            if (ServiceEvent.EVENT_IN_PROGRESS == event.getEventCode()) {
                bucketList.addAll(Arrays.asList(event.getCreatedBuckets()));
            }
        }
    };
    (new S3ServiceMulti(s3Service, adaptor)).createBuckets(buckets);
    throwError(adaptor);
    return (S3Bucket[]) bucketList.toArray(new S3Bucket[bucketList.size()]);
}

/**
 * Creates/uploads multiple objects.
 *
 * @param bucket
 * the bucket to create the objects in.
 * @param objects
 * the objects to create/upload.
 * @return
 * the created/uploaded objects.
 * @throws S3ServiceException
 */
public S3Object[] putObjects(final S3Bucket bucket, final S3Object[] objects) throws S3ServiceException {
    final List objectList = new ArrayList();
    S3ServiceEventAdaptor adaptor = new S3ServiceEventAdaptor() {
        public void s3ServiceEventPerformed(CreateObjectsEvent event) {
            super.s3ServiceEventPerformed(event);
            if (ServiceEvent.EVENT_IN_PROGRESS == event.getEventCode()) {
                objectList.addAll(Arrays.asList(event.getCreatedObjects()));
            }
        }
    };
    (new S3ServiceMulti(s3Service, adaptor)).putObjects(bucket, objects);
    throwError(adaptor);
    return (S3Object[]) objectList.toArray(new S3Object[objectList.size()]);
}

```

```

}

/**
 * Copies multiple objects within or between buckets.
 *
 * @param sourceBucketName
 * the name of the bucket containing the objects that will be copied.
 * @param destinationBucketName
 * the name of the bucket to which the objects will be copied. The destination
 * bucket may be the same as the source bucket.
 * @param sourceObjectKeys
 * the key names of the objects that will be copied.
 * @param destinationObjects
 * objects that will be created by the copy operation. The AccessControlList
 * setting of each object will determine the access permissions of the
 * resultant object, and if the replaceMetadata flag is true the metadata
 * items in each object will also be applied to the resultant object.
 * @param replaceMetadata
 * if true, the metadata items in the destination objects will be stored
 * in S3 by using the REPLACE metadata copying option. If false, the metadata
 * items will be copied unchanged from the original objects using the COPY
 * metadata copying option.s
 */

public Map[] copyObjects(final String sourceBucketName, final String destinationBucketName,
    final String[] sourceObjectKeys, final S3Object[] destinationObjects, boolean replaceMetadata)
    throws S3ServiceException
{
    final List resultsList = new ArrayList();
    S3ServiceEventAdaptor adaptor = new S3ServiceEventAdaptor() {
        public void s3ServiceEventPerformed(CopyObjectsEvent event) {
            super.s3ServiceEventPerformed(event);
            if (ServiceEvent.EVENT_IN_PROGRESS == event.getEventCode()) {
                resultsList.addAll(Arrays.asList(event.getCopyResults()));
            }
        }
    };
    (new S3ServiceMulti(s3Service, adaptor)).copyObjects(sourceBucketName, destinationBucketName,
        sourceObjectKeys, destinationObjects, replaceMetadata);
    throwError(adaptor);
    return (Map[]) resultsList.toArray(new Map[resultsList.size()]);
}

/**
 * Deletes multiple objects
 *
 * @param bucket
 * the bucket containing the objects to delete.

```

```

* @param objects
* the objects to delete.
* @throws S3ServiceException
*/
public void deleteObjects(final S3Bucket bucket, final S3Object[] objects) throws S3ServiceException {
    final List objectList = new ArrayList();
    S3ServiceEventAdaptor adaptor = new S3ServiceEventAdaptor() {
        public void s3ServiceEventPerformed(DeleteObjectsEvent event) {
            super.s3ServiceEventPerformed(event);
            if (ServiceEvent.EVENT_IN_PROGRESS == event.getEventCode()) {
                objectList.addAll(Arrays.asList(event.getDeletedObjects()));
            }
        }
    };
    (new S3ServiceMulti(s3Service, adaptor)).deleteObjects(bucket, objects);
    throwError(adaptor);
}

```

```

/**
* Retrieves multiple objects (including details and data).
* The objects' data will be stored in temporary files, and can be retrieved using
* {@link S3Object#getDataInputStream()}.
*
* @param bucket
* the bucket containing the objects.
* @param objects
* the objects to retrieve.
* @return
* the retrieved objects.
* @throws S3ServiceException
*/
public S3Object[] getObjects(S3Bucket bucket, S3Object[] objects) throws S3ServiceException {
    DownloadPackage[] downloadPackages = new DownloadPackage[objects.length];
    try {
        for (int i = 0; i < downloadPackages.length; i++) {
            // Create a temporary file for data, file will auto-delete on JVM exit.
            File tempFile = File.createTempFile("jets3t-", ".tmp");
            tempFile.deleteOnExit();

            downloadPackages[i] = new DownloadPackage(objects[i], tempFile);
        }
    } catch (IOException e) {
        throw new S3ServiceException("Unable to create temporary file to store object data", e);
    }

    final List objectList = new ArrayList();
    S3ServiceEventAdaptor adaptor = new S3ServiceEventAdaptor() {
        public void s3ServiceEventPerformed(DownloadObjectsEvent event) {

```

```

        super.s3ServiceEventPerformed(event);
        if (ServiceEvent.EVENT_IN_PROGRESS == event.getEventCode()) {
            objectList.addAll(Arrays.asList(event.getDownloadedObjects()));
        }
    };
};

(new S3ServiceMulti(s3Service, adaptor)).downloadObjects(bucket, downloadPackages);
throwError(adaptor);
return (S3Object[]) objectList.toArray(new S3Object[objectList.size()]);
}

/**
 * Retrieves multiple objects (including details and data).
 * The objects' data will be stored in temporary files, and can be retrieved using
 * {@link S3Object#getDataInputStream()}.
 *
 * @param bucket
 * the bucket containing the objects.
 * @param objectKeys
 * the key names of the objects to retrieve.
 * @return
 * the retrieved objects.
 *
 * @throws S3ServiceException
 */
public S3Object[] getObjects(final S3Bucket bucket, final String[] objectKeys) throws S3ServiceException {
    S3Object[] objects = new S3Object[objectKeys.length];
    for (int i = 0; i < objectKeys.length; i++) {
        objects[i] = new S3Object(objectKeys[i]);
    }
    return getObjects(bucket, objects);
}

/**
 * Retrieves details of multiple objects (details only, no data)
 *
 * @param bucket
 * the bucket containing the objects.
 * @param objects
 * the objects to retrieve.
 * @return
 * objects populated with the details retrieved.
 * @throws S3ServiceException
 */
public S3Object[] getObjectsHeads(S3Bucket bucket, S3Object[] objects) throws S3ServiceException {
    String[] objectKeys = new String[objects.length];
    for (int i = 0; i < objects.length; i++) {

```

```

        objectKeys[i] = objects[i].getKey();
    }
    return getObjectHeads(bucket, objectKeys);
}

/**
 * Retrieves details of multiple objects (details only, no data)
 *
 * @param bucket
 * the bucket containing the objects.
 * @param objectKeys
 * the key names of the objects to retrieve.
 * @return
 * objects populated with the details retrieved.
 * @throws S3ServiceException
 */
public S3Object[] getObjectHeads(final S3Bucket bucket, final String[] objectKeys) throws S3ServiceException
{
    final List objectList = new ArrayList();
    S3ServiceEventAdaptor adaptor = new S3ServiceEventAdaptor() {
        public void s3ServiceEventPerformed(GetObjectHeadsEvent event) {
            super.s3ServiceEventPerformed(event);
            if (ServiceEvent.EVENT_IN_PROGRESS == event.getEventCode()) {
                objectList.addAll(Arrays.asList(event.getCompletedObjects()));
            }
        }
    };
    (new S3ServiceMulti(s3Service, adaptor)).getObjectHeads(bucket, objectKeys);
    throwError(adaptor);
    return (S3Object[]) objectList.toArray(new S3Object[objectList.size()]);
}

/**
 * Retrieves Access Control List (ACL) settings for multiple objects.
 *
 * @param bucket
 * the bucket containing the objects.
 * @param objects
 * the objects whose ACLs will be retrieved.
 * @return
 * objects including the ACL information retrieved.
 * @throws S3ServiceException
 */
public S3Object[] getObjectACLs(final S3Bucket bucket, final S3Object[] objects) throws S3ServiceException {
    final List objectList = new ArrayList();
    S3ServiceEventAdaptor adaptor = new S3ServiceEventAdaptor() {
        public void s3ServiceEventPerformed(LookupACLEvent event) {
            super.s3ServiceEventPerformed(event);

```

```

        if (ServiceEvent.EVENT_IN_PROGRESS == event.getEventCode()) {
            objectList.addAll(Arrays.asList(event.getObjectsWithACL()));
        }
    };
    (new S3ServiceMulti(s3Service, adaptor)).getObjectACLs(bucket, objects);
    throwError(adaptor);
    return (S3Object[]) objectList.toArray(new S3Object[objectList.size()]);
}

/**
 * Updates/sets Access Control List (ACL) settings for multiple objects.
 *
 * @param bucket
 * the bucket containing the objects.
 * @param objects
 * objects containing ACL settings that will be updated/set.
 * @return
 * objects whose ACL settings were updated/set.
 * @throws S3ServiceException
 */
public S3Object[] putACLs(final S3Bucket bucket, final S3Object[] objects) throws S3ServiceException {
    final List objectList = new ArrayList();
    S3ServiceEventAdaptor adaptor = new S3ServiceEventAdaptor() {
        public void s3ServiceEventPerformed(UpdateACLEvent event) {
            super.s3ServiceEventPerformed(event);
            if (ServiceEvent.EVENT_IN_PROGRESS == event.getEventCode()) {
                objectList.addAll(Arrays.asList(event.getObjectsWithUpdatedACL()));
            }
        }
    };
    (new S3ServiceMulti(s3Service, adaptor)).putACLs(bucket, objects);
    throwError(adaptor);
    return (S3Object[]) objectList.toArray(new S3Object[objectList.size()]);
}

/**
 * A convenience method to download multiple objects from S3 to pre-existing output streams, which
 * is particularly useful for downloading objects to files.
 *
 * @param bucket
 * the bucket containing the objects
 * @param downloadPackages
 * an array of download package objects that manage the output of data for an S3Object.
 *
 * @throws S3ServiceException
 */
public void downloadObjects(final S3Bucket bucket, final DownloadPackage[] downloadPackages) throws

```

```

S3ServiceException {
    S3ServiceEventAdaptor adaptor = new S3ServiceEventAdaptor();
    (new S3ServiceMulti(s3Service, adaptor)).downloadObjects(bucket, downloadPackages);
    throwError(adaptor);
}

}

```

1.131 Jetty 6.1.26

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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 and installation of the library.

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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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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.

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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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1.137 JRuby complete 1.6.5

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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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1.138 json-lib 2.4

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1.139 json-rpc 1.0 :1.0

1.139.1 Available under license :

```
/*
 * JSON-RPC-Java - a JSON-RPC to Java Bridge with dynamic invocation
 *
 * $Id: PrimitiveSerializer.java,v 1.4.2.2 2006/03/06 12:39:21 mclark Exp $
 *
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 */
```

```
package com.metaparadigm.jsonrpc;
```

```
public class PrimitiveSerializer extends AbstractSerializer
```

```

{
    private final static long serialVersionUID = 1;

    private static Class[] _serializableClasses = new Class[]
    { int.class, byte.class, short.class, long.class,
      float.class, double.class };

    private static Class[] _JSONClasses = new Class[]
    { Integer.class, Byte.class, Short.class, Long.class,
      Float.class, Double.class, String.class };

    public Class[] getSerializableClasses() { return _serializableClasses; }
    public Class[] getJSONClasses() { return _JSONClasses; }

    public ObjectMatch tryUnmarshall(SerializerState state,
        Class clazz, Object jso)
    throws UnmarshallException
    {
        try {
            toPrimitive(clazz, jso);
        } catch (NumberFormatException e) {
            throw new UnmarshallException("not a primitive");
        }
        return ObjectMatch.OKAY;
    }

    public Object toPrimitive(Class clazz, Object jso)
    throws NumberFormatException {
        if (int.class.equals(clazz)) {
            if (jso instanceof String)
                return new Integer((String)jso);
            else
                return new Integer(((Number) jso).intValue());
        } else if (long.class.equals(clazz)) {
            if (jso instanceof String)
                return new Long((String)jso);
            else
                return new Long(((Number) jso).longValue());
        } else if (short.class.equals(clazz)) {
            if (jso instanceof String)
                return new Short((String)jso);
            else
                return new Short(((Number) jso).shortValue());
        } else if (byte.class.equals(clazz)) {
            if (jso instanceof String)
                return new Byte((String)jso);
            else
                return new Byte(((Number) jso).byteValue());
        }
    }
}

```

```

    } else if (float.class.equals(clazz)) {
        if (jso instanceof String)
            return new Float((String)jso);
        else
            return new Float(((Number) jso).floatValue());
    } else if (double.class.equals(clazz)) {
        if (jso instanceof String)
            return new Double((String)jso);
        else
            return new Double(((Number) jso).doubleValue());
    }
    return null;
}

```

```

public Object unmarshall(SerializerState state, Class clazz, Object jso)
throws UnmarshallException {
    try {
        return toPrimitive(clazz, jso);
    } catch (NumberFormatException nfe) {
        throw new UnmarshallException("cannot convert object "+jso+" to type "+clazz.getName());
    }
}

```

```

public Object marshall(SerializerState state, Object o)
throws MarshallException
{
    return o;
}
}

```

1.140 jsp-api 2.0

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1.141 jsr305-1.3.9 1.3.9

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AppleJavaExtensions

v 1.2

<http://developer.apple.com/samplecode/AppleJavaExtensions/AppleJavaExtensions.html>

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 platforms other than Mac OS X. These stubs are not intended for the 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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1.142 jsr311-api 1.1.1

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1.152 Quartz 1.6.6

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1.165 spring-jdbc 3.0.7.RELEASE

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1.166 spring-modules-validation 0.8a

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1.168 spring-oxm 3.0.7.RELEASE

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1.169 spring-security-core 3.0.7.RELEASE

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 */
```

```
package org.springframework.security.util;
```

```
import org.aopalliance.intercept.MethodInvocation;
```

```
import java.lang.reflect.AccessibleObject;
```

```
import java.lang.reflect.Method;
```

```
/**
 * Represents the AOP Alliance MethodInvocation.
 *
```

```
* @author Ben Alex
 */
```

```
public class SimpleMethodInvocation implements MethodInvocation {
```

```
    //~ Instance fields
```

```
=====
```

```
private Method method;
private Object[] arguments;
private Object targetObject;
```

```
    //~ Constructors
```

```
=====
```

```
public SimpleMethodInvocation(Object targetObject, Method method, Object... arguments) {
    this.targetObject = targetObject;
```

```

        this.method = method;
        this.arguments = arguments == null ? new Object[0] : arguments;
    }

    public SimpleMethodInvocation() {}

    //~ Methods
    =====
    =====

    public Object[] getArguments() {
        return arguments;
    }

    public Method getMethod() {
        return method;
    }

    public AccessibleObject getStaticPart() {
        throw new UnsupportedOperationException("mock method not implemented");
    }

    public Object getThis() {
        return targetObject;
    }

    public Object proceed() throws Throwable {
        throw new UnsupportedOperationException("mock method not implemented");
    }
}
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 */

package org.springframework.security.authentication.rcp;

import java.util.Collection;

```

```

import org.springframework.beans.factory.InitializingBean;
import org.springframework.security.authentication.AuthenticationManager;
import org.springframework.security.authentication.UsernamePasswordAuthenticationToken;
import org.springframework.security.core.AuthenticationException;
import org.springframework.security.core.GrantedAuthority;
import org.springframework.util.Assert;

/**
 * Server-side processor of a remote authentication request.
 * <p>
 * This bean requires no security interceptor to protect it. Instead, the bean uses the configured
 * <code>AuthenticationManager</code> to resolve an authentication request.
 *
 * @author Ben Alex
 */
public class RemoteAuthenticationManagerImpl implements RemoteAuthenticationManager, InitializingBean {
    //~ Instance fields
    =====
    =====

    private AuthenticationManager authenticationManager;

    //~ Methods
    =====
    =====

    public void afterPropertiesSet() throws Exception {
        Assert.notNull(this.authenticationManager, "authenticationManager is required");
    }

    public Collection<GrantedAuthority> attemptAuthentication(String username, String password)
        throws RemoteAuthenticationException {
        UsernamePasswordAuthenticationToken request = new UsernamePasswordAuthenticationToken(username,
password);

        try {
            Collection<GrantedAuthority> authorities = authenticationManager.authenticate(request).getAuthorities();

            return authorities;
        } catch (AuthenticationException authEx) {
            throw new RemoteAuthenticationException(authEx.getMessage());
        }
    }

    public AuthenticationManager getAuthenticationManager() {
        return authenticationManager;
    }
}

```

```

    }

    public void setAuthenticationManager(AuthenticationManager authenticationManager) {
        this.authenticationManager = authenticationManager;
    }
}
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 */

package org.springframework.security.authentication;

import org.springframework.security.core.Authentication;

/**
 * Basic implementation of {@link AuthenticationTrustResolver}.
 * <p>
 * Makes trust decisions based on whether the passed <code>Authentication</code> is an instance of a defined class.
 * <p>
 * If {@link #anonymousClass} or {@link #rememberMeClass} is <code>>null</code>, the corresponding method
 * will
 * always return <code>>false</code>.
 *
 * @author Ben Alex
 */
public class AuthenticationTrustResolverImpl implements AuthenticationTrustResolver {
    //~ Instance fields

    =====

    private Class<? extends Authentication> anonymousClass = AnonymousAuthenticationToken.class;
    private Class<? extends Authentication> rememberMeClass = RememberMeAuthenticationToken.class;

    //~ Methods

    =====

```

```

Class<? extends Authentication> getAnonymousClass() {
    return anonymousClass;
}

Class<? extends Authentication> getRememberMeClass() {
    return rememberMeClass;
}

public boolean isAnonymous(Authentication authentication) {
    if ((anonymousClass == null) || (authentication == null)) {
        return false;
    }

    return anonymousClass.isAssignableFrom(authentication.getClass());
}

public boolean isRememberMe(Authentication authentication) {
    if ((rememberMeClass == null) || (authentication == null)) {
        return false;
    }

    return rememberMeClass.isAssignableFrom(authentication.getClass());
}

public void setAnonymousClass(Class<? extends Authentication> anonymousClass) {
    this.anonymousClass = anonymousClass;
}

public void setRememberMeClass(Class<? extends Authentication> rememberMeClass) {
    this.rememberMeClass = rememberMeClass;
}
}
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 */

```

```

package org.springframework.security.core.authority;

import java.io.Serializable;

import org.springframework.security.core.Authentication;
import org.springframework.security.core.GrantedAuthority;
import org.springframework.util.Assert;

/**
 * Basic concrete implementation of a {@link GrantedAuthority}.
 *
 * <p>
 * Stores a <code>String</code> representation of an authority granted to the {@link Authentication} object.
 * <p>
 * If compared to a custom authority which returns null from {@link #getAuthority}, the <code>compareTo</code>
 * method will return -1, so the custom authority will take precedence.
 *
 * @author Ben Alex
 */
public class GrantedAuthorityImpl implements GrantedAuthority, Serializable {
    //~ Instance fields

    =====

    private static final long serialVersionUID = 1L;
    private String role;

    //~ Constructors

    =====

    public GrantedAuthorityImpl(String role) {
        Assert.hasText(role, "A granted authority textual representation is required");
        this.role = role;
    }

    //~ Methods

    =====

    public boolean equals(Object obj) {
        if (obj instanceof String) {
            return obj.equals(this.role);
        }

        if (obj instanceof GrantedAuthority) {
            GrantedAuthority attr = (GrantedAuthority) obj;

```

```

        return this.role.equals(attr.getAuthority());
    }

    return false;
}

public String getAuthority() {
    return this.role;
}

public int hashCode() {
    return this.role.hashCode();
}

public String toString() {
    return this.role;
}
}
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 */

package org.springframework.security.core.context;

import org.springframework.security.core.Authentication;

/**
 * Base implementation of {@link SecurityContext}.
 * <p>
 * Used by default by {@link SecurityContextHolder} strategies.
 *
 * @author Ben Alex
 */
public class SecurityContextImpl implements SecurityContext {
    //~ Instance fields

```

```

=====
=====

private Authentication authentication;

//~ Methods
=====
=====

public boolean equals(Object obj) {
    if (obj instanceof SecurityContextImpl) {
        SecurityContextImpl test = (SecurityContextImpl) obj;

        if ((this.getAuthentication() == null) && (test.getAuthentication() == null)) {
            return true;
        }

        if ((this.getAuthentication() != null) && (test.getAuthentication() != null)
            && this.getAuthentication().equals(test.getAuthentication())) {
            return true;
        }
    }

    return false;
}

public Authentication getAuthentication() {
    return authentication;
}

public int hashCode() {
    if (this.authentication == null) {
        return -1;
    } else {
        return this.authentication.hashCode();
    }
}

public void setAuthentication(Authentication authentication) {
    this.authentication = authentication;
}

public String toString() {
    StringBuilder sb = new StringBuilder();
    sb.append(super.toString());

    if (this.authentication == null) {
        sb.append(": Null authentication");
    }
}

```

```

    } else {
        sb.append(": Authentication: ").append(this.authentication);
    }

    return sb.toString();
}
}
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 */

package org.springframework.security.core.userdetails.jdbc;

import java.sql.ResultSet;
import java.sql.SQLException;
import java.util.ArrayList;
import java.util.HashSet;
import java.util.List;
import java.util.Set;

import org.springframework.context.ApplicationContextException;
import org.springframework.context.support.MessageSourceAccessor;
import org.springframework.dao.DataAccessException;
import org.springframework.jdbc.core.RowMapper;
import org.springframework.jdbc.core.support.JdbcDaoSupport;
import org.springframework.security.core.GrantedAuthority;
import org.springframework.security.core.SpringSecurityMessageSource;
import org.springframework.security.core.authority.AuthorityUtils;
import org.springframework.security.core.authority.GrantedAuthorityImpl;
import org.springframework.security.core.userdetails.User;
import org.springframework.security.core.userdetails.UserDetails;
import org.springframework.security.core.userdetails.UserDetailsService;
import org.springframework.security.core.userdetails.UsernameNotFoundException;
import org.springframework.util.Assert;

/**

```

* `<tt>UserDetailsServiceRetrieves</tt>` implementation which retrieves the user details
* (username, password, enabled flag, and authorities) from a database using JDBC queries.

* `<h3>Default Schema</h3>`

* A default database schema is assumed, with two tables "users" and "authorities".

* `<h4>The Users table</h4>`

* This table contains the login name, password and enabled status of the user.

```
* <table>  
* <tr><th>Column</th></tr>  
* <tr><td>username</td></tr>  
* <tr><td>password</td></tr>  
* <tr><td>enabled</td></tr>  
* </table>
```

* `<h4>The Authorities Table</h4>`

```
* <table>  
* <tr><th>Column</th></tr>  
* <tr><td>username</td></tr>  
* <tr><td>authority</td></tr>  
* </table>
```

* If you are using an existing schema you will have to set the queries `<tt>usersByUsernameQuery</tt>` and
* `<tt>authoritiesByUsernameQuery</tt>` to match your database setup
* (see { @link #DEF_USERS_BY_USERNAME_QUERY } and { @link
* #DEF_AUTHORITIES_BY_USERNAME_QUERY }).

* `<p>`
* In order to minimise backward compatibility issues, this implementation doesn't recognise the expiration of user
* accounts or the expiration of user credentials. However, it does recognise and honour the user enabled/disabled
* column. This should map to a `<tt>boolean</tt>` type in the result set (the SQL type will depend on the
* database you are using). All the other columns map to `<tt>String</tt>`s.

* `<h3>Group Support</h3>`

* Support for group-based authorities can be enabled by setting the `<tt>enableGroups</tt>` property to `<tt>>true</tt>`
* (you may also then wish to set `<tt>enableAuthorities</tt>` to `<tt>>false</tt>` to disable loading of authorities
* directly). With this approach, authorities are allocated to groups and a user's authorities are determined based
* on the groups they are a member of. The net result is the same (a `UserDetails` containing a set of
* `<tt>GrantedAuthority</tt>`s is loaded), but the different persistence strategy may be more suitable for the
* administration of some applications.

* `<p>`
* When groups are being used, the tables "groups", "group_members" and "group_authorities" are used. See
* { @link #DEF_GROUP_AUTHORITIES_BY_USERNAME_QUERY } for the default query which is used to load
* the group authorities.

* Again you can customize this by setting the `<tt>groupAuthoritiesByUsernameQuery</tt>` property, but the format

```

of
* the rows returned should match the default.
*
* @author Ben Alex
* @author colin sampaleanu
* @author Luke Taylor
*/
public class JdbcDaoImpl extends JdbcDaoSupport implements UserDetailsService {
    //~ Static fields/initializers
    =====
    ===

    public static final String DEF_USERS_BY_USERNAME_QUERY =
        "select username,password,enabled " +
        "from users " +
        "where username = ?";
    public static final String DEF_AUTHORITIES_BY_USERNAME_QUERY =
        "select username,authority " +
        "from authorities " +
        "where username = ?";
    public static final String DEF_GROUP_AUTHORITIES_BY_USERNAME_QUERY =
        "select g.id, g.group_name, ga.authority " +
        "from groups g, group_members gm, group_authorities ga " +
        "where gm.username = ? " +
        "and g.id = ga.group_id " +
        "and g.id = gm.group_id";

    //~ Instance fields
    =====
    =====

    protected MessageSourceAccessor messages = SpringSecurityMessageSource.getAccessor();

    private String authoritiesByUsernameQuery;
    private String groupAuthoritiesByUsernameQuery;
    private String usersByUsernameQuery;
    private String rolePrefix = "";
    private boolean usernameBasedPrimaryKey = true;
    private boolean enableAuthorities = true;
    private boolean enableGroups;

    //~ Constructors
    =====
    =====

    public JdbcDaoImpl() {
        usersByUsernameQuery = DEF_USERS_BY_USERNAME_QUERY;
        authoritiesByUsernameQuery = DEF_AUTHORITIES_BY_USERNAME_QUERY;
    }
}

```

```

    groupAuthoritiesByUsernameQuery = DEF_GROUP_AUTHORITIES_BY_USERNAME_QUERY;
}

//~ Methods
=====
=====

/**
 * Allows subclasses to add their own granted authorities to the list to be returned in the <tt>UserDetails</tt>.
 *
 * @param username the username, for use by finder methods
 * @param authorities the current granted authorities, as populated from the
<code>authoritiesByUsername</code>
 *     mapping
 */
protected void addCustomAuthorities(String username, List<GrantedAuthority> authorities) {}

public String getUsersByUsernameQuery() {
    return usersByUsernameQuery;
}

protected void initDao() throws ApplicationContextException {
    Assert.isTrue(enableAuthorities || enableGroups, "Use of either authorities or groups must be enabled");
}

public UserDetails loadUserByUsername(String username) throws UsernameNotFoundException,
DataAccessException {
    List<UserDetails> users = loadUsersByUsername(username);

    if (users.size() == 0) {
        logger.debug("Query returned no results for user '" + username + "'");

        throw new UsernameNotFoundException(
            messages.getMessage("JdbcDaoImpl.notFound", new Object[]{username}, "Username {0} not found"),
            username);
    }

    UserDetails user = users.get(0); // contains no GrantedAuthority[]

    Set<GrantedAuthority> dbAuthsSet = new HashSet<GrantedAuthority>();

    if (enableAuthorities) {
        dbAuthsSet.addAll(loadUserAuthorities(user.getUsername()));
    }

    if (enableGroups) {
        dbAuthsSet.addAll(loadGroupAuthorities(user.getUsername()));
    }
}

```

```

List<GrantedAuthority> dbAuths = new ArrayList<GrantedAuthority>(dbAuthsSet);

addCustomAuthorities(user.getUsername(), dbAuths);

if (dbAuths.size() == 0) {
    logger.debug("User " + username + " has no authorities and will be treated as 'not found'");

    throw new UsernameNotFoundException(
        messages.getMessage("JdbcDaoImpl.noAuthority",
            new Object[] {username}, "User {0} has no GrantedAuthority", username);
    }

    return createUserDetails(username, user, dbAuths);
}

/**
 * Executes the SQL <tt>usersByUsernameQuery</tt> and returns a list of UserDetails objects.
 * There should normally only be one matching user.
 */
protected List<UserDetails> loadUsersByUsername(String username) {
    return getJdbcTemplate().query(usersByUsernameQuery, new String[] {username}, new
RowMapper<UserDetails>() {
        public UserDetails mapRow(ResultSet rs, int rowNum) throws SQLException {
            String username = rs.getString(1);
            String password = rs.getString(2);
            boolean enabled = rs.getBoolean(3);
            return new User(username, password, enabled, true, true, true, AuthorityUtils.NO_AUTHORITIES);
        }
    });
}

/**
 * Loads authorities by executing the SQL from <tt>authoritiesByUsernameQuery</tt>.
 *
 * @return a list of GrantedAuthority objects for the user
 */
protected List<GrantedAuthority> loadUserAuthorities(String username) {
    return getJdbcTemplate().query(authoritiesByUsernameQuery, new String[] {username}, new
RowMapper<GrantedAuthority>() {
        public GrantedAuthority mapRow(ResultSet rs, int rowNum) throws SQLException {
            String roleName = rolePrefix + rs.getString(2);
            GrantedAuthorityImpl authority = new GrantedAuthorityImpl(roleName);

            return authority;
        }
    });
}

```

```

}

/**
 * Loads authorities by executing the SQL from <tt>groupAuthoritiesByUsernameQuery</tt>.
 *
 * @return a list of GrantedAuthority objects for the user
 */
protected List<GrantedAuthority> loadGroupAuthorities(String username) {
    return getJdbcTemplate().query(groupAuthoritiesByUsernameQuery, new String[] {username}, new
RowMapper<GrantedAuthority>() {
        public GrantedAuthority mapRow(ResultSet rs, int rowNum) throws SQLException {
            String roleName = getRolePrefix() + rs.getString(3);
            GrantedAuthorityImpl authority = new GrantedAuthorityImpl(roleName);

            return authority;
        }
    });
}

/**
 * Can be overridden to customize the creation of the final UserDetailsObject which is
 * returned by the <tt>loadUserByUsername</tt> method.
 *
 * @param username the name originally passed to loadUserByUsername
 * @param userFromUserQuery the object returned from the execution of the
 * @param combinedAuthorities the combined array of authorities from all the authority loading queries.
 * @return the final UserDetails which should be used in the system.
 */
protected UserDetails createUserDetails(String username, UserDetails userFromUserQuery,
    List<GrantedAuthority> combinedAuthorities) {
    String returnUsername = userFromUserQuery.getUsername();

    if (!usernameBasedPrimaryKey) {
        returnUsername = username;
    }

    return new User(returnUsername, userFromUserQuery.getPassword(), userFromUserQuery.isEnabled(),
        true, true, true, combinedAuthorities);
}

/**
 * Allows the default query string used to retrieve authorities based on username to be overridden, if
 * default table or column names need to be changed. The default query is { @link
 * #DEF_AUTHORITIES_BY_USERNAME_QUERY}; when modifying this query, ensure that all returned
columns are mapped
 * back to the same column names as in the default query.
 *
 * @param queryString The SQL query string to set

```

```

*/
public void setAuthoritiesByUsernameQuery(String queryString) {
    authoritiesByUsernameQuery = queryString;
}

protected String getAuthoritiesByUsernameQuery() {
    return authoritiesByUsernameQuery;
}

/**
 * Allows the default query string used to retrieve group authorities based on username to be overridden, if
 * default table or column names need to be changed. The default query is { @link
 * #DEF_GROUP_AUTHORITIES_BY_USERNAME_QUERY }; when modifying this query, ensure that all
returned columns are mapped
 * back to the same column names as in the default query.
 *
 * @param queryString The SQL query string to set
 */
public void setGroupAuthoritiesByUsernameQuery(String queryString) {
    groupAuthoritiesByUsernameQuery = queryString;
}

/**
 * Allows a default role prefix to be specified. If this is set to a non-empty value, then it is
 * automatically prepended to any roles read in from the db. This may for example be used to add the
 * <tt>ROLE_</tt> prefix expected to exist in role names (by default) by some other Spring Security
 * classes, in the case that the prefix is not already present in the db.
 *
 * @param rolePrefix the new prefix
 */
public void setRolePrefix(String rolePrefix) {
    this.rolePrefix = rolePrefix;
}

protected String getRolePrefix() {
    return rolePrefix;
}

/**
 * If <code>>true</code> (the default), indicates the { @link #getUsersByUsernameQuery()} returns a username
 * in response to a query. If <code>>false</code>, indicates that a primary key is used instead. If set to
 * <code>>true</code>, the class will use the database-derived username in the returned
<code>UserDetails</code>.
 * If <code>>false</code>, the class will use the { @link #loadUserByUsername(String)} derived username in the
 * returned <code>UserDetails</code>.
 *
 * @param usernameBasedPrimaryKey <code>>true</code> if the mapping queries return the username
<code>String</code>,

```

```

*   or false if the mapping returns a database primary key.
*/
public void setUsernameBasedPrimaryKey(boolean usernameBasedPrimaryKey) {
    this.usernameBasedPrimaryKey = usernameBasedPrimaryKey;
}

protected boolean isUsernameBasedPrimaryKey() {
    return usernameBasedPrimaryKey;
}

/**
 * Allows the default query string used to retrieve users based on username to be overridden, if default
 * table or column names need to be changed. The default query is { @link
#DEF_USERS_BY_USERNAME_QUERY}; when
 * modifying this query, ensure that all returned columns are mapped back to the same column names as in the
 * default query. If the 'enabled' column does not exist in the source database, a permanent true value for this
 * column may be returned by using a query similar to
 * <pre>
 * "select username,password,'true' as enabled from users where username = ?"
 * </pre>
 *
 * @param usersByUsernameQueryString The query string to set
 */
public void setUsersByUsernameQuery(String usersByUsernameQueryString) {
    this.usersByUsernameQuery = usersByUsernameQueryString;
}

protected boolean getEnableAuthorities() {
    return enableAuthorities;
}

/**
 * Enables loading of authorities (roles) from the authorities table. Defaults to true
 */
public void setEnableAuthorities(boolean enableAuthorities) {
    this.enableAuthorities = enableAuthorities;
}

protected boolean getEnableGroups() {
    return enableGroups;
}

/**
 * Enables support for group authorities. Defaults to false
 * @param enableGroups
 */
public void setEnableGroups(boolean enableGroups) {
    this.enableGroups = enableGroups;
}

```

```

    }
}
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 */

```

```
package org.springframework.security.core.userdetails.memory;
```

```
import org.springframework.security.core.userdetails.UserDetails;
import org.springframework.security.core.userdetails.UserDetailsService;
import org.springframework.security.core.userdetails.UsernameNotFoundException;
```

```
import org.springframework.beans.factory.InitializingBean;
```

```
import org.springframework.dao.DataAccessException;
```

```
import org.springframework.util.Assert;
```

```
import java.util.Properties;
```

```
/**
 * Retrieves user details from an in-memory list created in the application context.
 * <p>
 * Username lookups are case-insensitive.
 *
 * @author Ben Alex
 * @author Luke Taylor
 */

```

```
@SuppressWarnings("deprecation")
public class InMemoryDaoImpl implements UserDetailsService, InitializingBean {
    //~ Instance fields

```

```
=====
=====
```

```
private UserMap userMap;
```

//~ Methods

```
=====
=====

public void afterPropertiesSet() throws Exception {
    Assert.notNull(this.userMap,
        "A list of users, passwords, enabled/disabled status and their granted authorities must be set");
}

public UserMap getUserMap() {
    return userMap;
}

public UserDetails loadUserByUsername(String username) throws UsernameNotFoundException,
DataAccessException {
    return userMap.getUser(username);
}

public void setUserMap(UserMap userMap) {
    this.userMap = userMap;
}

/**
 * Modifies the internal <code>UserMap</code> to reflect the <code>Properties</code> instance passed. This
 * helps externalise user information to another file etc.
 *
 * @param props the account information in a <code>Properties</code> object format
 */
public void setUserProperties(Properties props) {
    UserMap userMap = new UserMap();
    this.userMap = UserMapEditor.addUsersFromProperties(userMap, props);
}
}
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 * limitations under the License.
 */
```

```

package org.springframework.security.core.session;

import java.util.ArrayList;
import java.util.Arrays;
import java.util.Collections;
import java.util.Date;
import java.util.HashMap;
import java.util.HashSet;
import java.util.List;
import java.util.Map;
import java.util.Set;

import org.apache.commons.logging.Log;
import org.apache.commons.logging.LogFactory;
import org.springframework.context.ApplicationListener;
import org.springframework.util.Assert;

/**
 * Default implementation of {@link org.springframework.security.core.session.SessionRegistry SessionRegistry}
 * which listens for {@link org.springframework.security.core.session.SessionDestroyedEvent
SessionDestroyedEvent}s
 * published in the Spring application context.
 * <p>
 * For this class to function correctly in a web application, it is important that you register an
 * {@link org.springframework.security.web.session.HttpSessionEventPublisher HttpSessionEventPublisher}
 * in the <tt>web.xml</tt> file so that this class is notified of sessions that expire.
 *
 * @author Ben Alex
 * @author Luke Taylor
 */
public class SessionRegistryImpl implements SessionRegistry, ApplicationListener<SessionDestroyedEvent> {

    //~ Instance fields
    =====
    =====

    protected final Log logger = LogFactory.getLog(SessionRegistryImpl.class);

    /** <principal:Object,SessionIdSet> */
    private final Map<Object,Set<String>> principals = Collections.synchronizedMap(new
HashMap<Object,Set<String>>());
    /** <sessionId:Object,SessionInformation> */
    private final Map<String, SessionInformation> sessionIds = Collections.synchronizedMap(new HashMap<String,
SessionInformation>());

    //~ Methods
    =====
    =====

```

```

public List<Object> getAllPrincipals() {
    return Arrays.asList(principals.keySet().toArray());
}

public List<SessionInformation> getAllSessions(Object principal, boolean includeExpiredSessions) {
    final Set<String> sessionsUsedByPrincipal = principals.get(principal);

    if (sessionsUsedByPrincipal == null) {
        return Collections.emptyList();
    }

    List<SessionInformation> list = new ArrayList<SessionInformation>(sessionsUsedByPrincipal.size());

    synchronized (sessionsUsedByPrincipal) {
        for (String sessionId : sessionsUsedByPrincipal) {
            SessionInformation sessionInformation = getSessionInformation(sessionId);

            if (sessionInformation == null) {
                continue;
            }

            if (includeExpiredSessions || !sessionInformation.isExpired()) {
                list.add(sessionInformation);
            }
        }
    }

    return list;
}

public SessionInformation getSessionInformation(String sessionId) {
    Assert.hasText(sessionId, "SessionId required as per interface contract");

    return (SessionInformation) sessionIds.get(sessionId);
}

public void onApplicationEvent(SessionDestroyedEvent event) {
    String sessionId = event.getId();
    removeSessionInformation(sessionId);
}

public void refreshLastRequest(String sessionId) {
    Assert.hasText(sessionId, "SessionId required as per interface contract");

    SessionInformation info = getSessionInformation(sessionId);

    if (info != null) {

```

```

        info.refreshLastRequest();
    }
}

public synchronized void registerNewSession(String sessionId, Object principal) {
    Assert.hasText(sessionId, "SessionId required as per interface contract");
    Assert.notNull(principal, "Principal required as per interface contract");

    if (logger.isDebugEnabled()) {
        logger.debug("Registering session " + sessionId + ", for principal " + principal);
    }

    if (getSessionInformation(sessionId) != null) {
        removeSessionInformation(sessionId);
    }

    sessionIds.put(sessionId, new SessionInformation(principal, sessionId, new Date()));

    Set<String> sessionsUsedByPrincipal = principals.get(principal);

    if (sessionsUsedByPrincipal == null) {
        sessionsUsedByPrincipal = Collections.synchronizedSet(new HashSet<String>(4));
        principals.put(principal, sessionsUsedByPrincipal);
    }

    sessionsUsedByPrincipal.add(sessionId);

    if (logger.isTraceEnabled()) {
        logger.trace("Sessions used by " + principal + " : " + sessionsUsedByPrincipal);
    }
}

public void removeSessionInformation(String sessionId) {
    Assert.hasText(sessionId, "SessionId required as per interface contract");

    SessionInformation info = getSessionInformation(sessionId);

    if (info == null) {
        return;
    }

    if (logger.isTraceEnabled()) {
        logger.debug("Removing session " + sessionId + " from set of registered sessions");
    }

    sessionIds.remove(sessionId);

    Set<String> sessionsUsedByPrincipal = principals.get(info.getPrincipal());
}

```

```

if (sessionsUsedByPrincipal == null) {
    return;
}

if (logger.isDebugEnabled()) {
    logger.debug("Removing session " + sessionId + " from principal's set of registered sessions");
}

synchronized (sessionsUsedByPrincipal) {
    sessionsUsedByPrincipal.remove(sessionId);

    if (sessionsUsedByPrincipal.size() == 0) {
        // No need to keep object in principals Map anymore
        if (logger.isDebugEnabled()) {
            logger.debug("Removing principal " + info.getPrincipal() + " from registry");
        }
        principals.remove(info.getPrincipal());
    }
}

if (logger.isTraceEnabled()) {
    logger.trace("Sessions used by " + info.getPrincipal() + " : " + sessionsUsedByPrincipal);
}
}
}
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 * limitations under the License.
 */

package org.springframework.security.access.hierarchicalroles;

import java.util.ArrayList;
import java.util.Collection;
import java.util.HashMap;
import java.util.HashSet;
import java.util.Iterator;

```

```

import java.util.List;
import java.util.Map;
import java.util.Set;
import java.util.regex.Matcher;
import java.util.regex.Pattern;

import org.apache.commons.logging.Log;
import org.apache.commons.logging.LogFactory;
import org.springframework.security.core.GrantedAuthority;
import org.springframework.security.core.authority.AuthorityUtils;
import org.springframework.security.core.authority.GrantedAuthorityImpl;

/**
 * <p>
 * This class defines a role hierarchy for use with the UserDetailsServiceWrapper.
 * </p>
 * <p>
 * Here is an example configuration of a role hierarchy (hint: read the "&gt;" sign as "includes"):
 * <pre>
 *     &lt;property name="hierarchy"&gt;
 *         &lt;value&gt;
 *             ROLE_A &gt; ROLE_B
 *             ROLE_B &gt; ROLE_AUTHENTICATED
 *             ROLE_AUTHENTICATED &gt; ROLE_UNAUTHENTICATED
 *         &lt;/value&gt;
 *     &lt;/property&gt;
 * </pre>
 * </p>
 * <p>
 * Explanation of the above:<br>
 * In effect every user with ROLE_A also has ROLE_B, ROLE_AUTHENTICATED and
 * ROLE_UNAUTHENTICATED;<br>
 * every user with ROLE_B also has ROLE_AUTHENTICATED and ROLE_UNAUTHENTICATED;<br>
 * every user with ROLE_AUTHENTICATED also has ROLE_UNAUTHENTICATED.
 * </p>
 * <p>
 * Hierarchical Roles will dramatically shorten your access rules (and also make the access rules much more
 * elegant).
 * </p>
 * <p>
 * Consider this access rule for Spring Security's RoleVoter (background: every user that is authenticated should be
 * able to log out):<br>
 * /logout.html=ROLE_A,ROLE_B,ROLE_AUTHENTICATED<br>
 * With hierarchical roles this can now be shortened to:<br>
 * /logout.html=ROLE_AUTHENTICATED<br>
 * In addition to shorter rules this will also make your access rules more readable and your intentions clearer.
 * </p>
 *

```

```

* @author Michael Mayr
*
*/
public class RoleHierarchyImpl implements RoleHierarchy {

    private static final Log logger = LoggerFactory.getLog(RoleHierarchyImpl.class);

    private String roleHierarchyStringRepresentation = null;

    /**
     * rolesReachableInOneStepMap is a Map that under the key of a specific role name contains a set of all roles
     * reachable from this role in 1 step
     */
    private Map<GrantedAuthority, Set<GrantedAuthority>> rolesReachableInOneStepMap = null;

    /**
     * rolesReachableInOneOrMoreStepsMap is a Map that under the key of a specific role name contains a set of all
     * roles reachable from this role in 1 or more steps
     */
    private Map<GrantedAuthority, Set<GrantedAuthority>> rolesReachableInOneOrMoreStepsMap = null;

    /**
     * Set the role hierarchy and pre-calculate for every role the set of all reachable roles, i.e. all roles lower in
     * the hierarchy of every given role. Pre-calculation is done for performance reasons (reachable roles can then be
     * calculated in O(1) time).
     * During pre-calculation, cycles in role hierarchy are detected and will cause a
     * <tt>CycleInRoleHierarchyException</tt> to be thrown.
     *
     * @param roleHierarchyStringRepresentation - String definition of the role hierarchy.
     */
    public void setHierarchy(String roleHierarchyStringRepresentation) {
        this.roleHierarchyStringRepresentation = roleHierarchyStringRepresentation;

        logger.debug("setHierarchy() - The following role hierarchy was set: " + roleHierarchyStringRepresentation);

        buildRolesReachableInOneStepMap();
        buildRolesReachableInOneOrMoreStepsMap();
    }

    public Collection<GrantedAuthority> getReachableGrantedAuthorities(Collection<GrantedAuthority>
authorities) {
        if (authorities == null || authorities.isEmpty()) {
            return AuthorityUtils.NO_AUTHORITIES;
        }

        Set<GrantedAuthority> reachableRoles = new HashSet<GrantedAuthority>();

        for (GrantedAuthority authority : authorities) {

```

```

    addReachableRoles(reachableRoles, authority);
    Set<GrantedAuthority> additionalReachableRoles = getRolesReachableInOneOrMoreSteps(authority);
    if (additionalReachableRoles != null) {
        reachableRoles.addAll(additionalReachableRoles);
    }
}

if (logger.isDebugEnabled()) {
    logger.debug("getReachableGrantedAuthorities() - From the roles " + authorities
        + " one can reach " + reachableRoles + " in zero or more steps.");
}

List<GrantedAuthority> reachableRoleList = new ArrayList<GrantedAuthority>(reachableRoles.size());
reachableRoleList.addAll(reachableRoles);

return reachableRoleList;
}

// SEC-863
private void addReachableRoles(Set<GrantedAuthority> reachableRoles,
    GrantedAuthority authority) {

    Iterator<GrantedAuthority> iterator = reachableRoles.iterator();
    while (iterator.hasNext()) {
        GrantedAuthority testAuthority = iterator.next();
        String testKey = testAuthority.getAuthority();
        if ((testKey != null) && (testKey.equals(authority.getAuthority()))) {
            return;
        }
    }
    reachableRoles.add(authority);
}

// SEC-863
private Set<GrantedAuthority> getRolesReachableInOneOrMoreSteps(
    GrantedAuthority authority) {

    if (authority.getAuthority() == null) {
        return null;
    }

    Iterator<GrantedAuthority> iterator = rolesReachableInOneOrMoreStepsMap.keySet().iterator();
    while (iterator.hasNext()) {
        GrantedAuthority testAuthority = iterator.next();
        String testKey = testAuthority.getAuthority();
        if ((testKey != null) && (testKey.equals(authority.getAuthority()))) {
            return rolesReachableInOneOrMoreStepsMap.get(testAuthority);
        }
    }
}

```

```

    }

    return null;
}

/**
 * Parse input and build the map for the roles reachable in one step: the higher role will become a key that
 * references a set of the reachable lower roles.
 */
private void buildRolesReachableInOneStepMap() {
    Pattern pattern = Pattern.compile("(\\s*([^\s>]+)\\s*>\\s*([^\s>]+))");

    Matcher roleHierarchyMatcher = pattern.matcher(roleHierarchyStringRepresentation);
    rolesReachableInOneStepMap = new HashMap<GrantedAuthority, Set<GrantedAuthority>>();

    while (roleHierarchyMatcher.find()) {
        GrantedAuthority higherRole = new GrantedAuthorityImpl(roleHierarchyMatcher.group(2));
        GrantedAuthority lowerRole = new GrantedAuthorityImpl(roleHierarchyMatcher.group(3));
        Set<GrantedAuthority> rolesReachableInOneStepSet = null;

        if (!rolesReachableInOneStepMap.containsKey(higherRole)) {
            rolesReachableInOneStepSet = new HashSet<GrantedAuthority>();
            rolesReachableInOneStepMap.put(higherRole, rolesReachableInOneStepSet);
        } else {
            rolesReachableInOneStepSet = rolesReachableInOneStepMap.get(higherRole);
        }
        addReachableRoles(rolesReachableInOneStepSet, lowerRole);

        logger.debug("buildRolesReachableInOneStepMap() - From role "
            + higherRole + " one can reach role " + lowerRole + " in one step.");
    }
}

/**
 * For every higher role from rolesReachableInOneStepMap store all roles that are reachable from it in the map of
 * roles reachable in one or more steps. (Or throw a CycleInRoleHierarchyException if a cycle in the role
 * hierarchy definition is detected)
 */
private void buildRolesReachableInOneOrMoreStepsMap() {
    rolesReachableInOneOrMoreStepsMap = new HashMap<GrantedAuthority, Set<GrantedAuthority>>();
    // iterate over all higher roles from rolesReachableInOneStepMap

    for(GrantedAuthority role : rolesReachableInOneStepMap.keySet()) {
        Set<GrantedAuthority> rolesToVisitSet = new HashSet<GrantedAuthority>();

        if (rolesReachableInOneStepMap.containsKey(role)) {
            rolesToVisitSet.addAll(rolesReachableInOneStepMap.get(role));
        }
    }
}

```

```

Set<GrantedAuthority> visitedRolesSet = new HashSet<GrantedAuthority>();

while (!rolesToVisitSet.isEmpty()) {
    // take a role from the rolesToVisit set
    GrantedAuthority aRole = (GrantedAuthority) rolesToVisitSet.iterator().next();
    rolesToVisitSet.remove(aRole);
    addReachableRoles(visitedRolesSet, aRole);
    if (rolesReachableInOneStepMap.containsKey(aRole)) {
        Set<GrantedAuthority> newReachableRoles = rolesReachableInOneStepMap.get(aRole);

        // definition of a cycle: you can reach the role you are starting from
        if (rolesToVisitSet.contains(aRole) || visitedRolesSet.contains(aRole)) {
            throw new CycleInRoleHierarchyException();
        } else {
            // no cycle
            rolesToVisitSet.addAll(newReachableRoles);
        }
    }
}
rolesReachableInOneOrMoreStepsMap.put(role, visitedRolesSet);

logger.debug("buildRolesReachableInOneOrMoreStepsMap() - From role "
    + role + " one can reach " + visitedRolesSet + " in one or more steps.");
}

}

}

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 * limitations under the License.
 */

package org.springframework.security.access.intercept;

import org.springframework.security.authentication.AuthenticationProvider;

```

```

import org.springframework.security.authentication.BadCredentialsException;
import org.springframework.security.core.Authentication;
import org.springframework.security.core.AuthenticationException;
import org.springframework.security.core.SpringSecurityMessageSource;

import org.springframework.beans.factory.InitializingBean;

import org.springframework.context.MessageSource;
import org.springframework.context.MessageSourceAware;
import org.springframework.context.support.MessageSourceAccessor;

import org.springframework.util.Assert;

/**
 * An {@link AuthenticationProvider} implementation that can authenticate a {@link
 * RunAsUserToken}.<P>Configured in
 * the bean context with a key that should match the key used by adapters to generate the
 * <code>RunAsUserToken</code>.
 * It treats as valid any <code>RunAsUserToken</code> instance presenting a hash code that matches the
 * <code>RunAsImplAuthenticationProvider</code>-configured key.</p>
 * <P>If the key does not match, a <code>BadCredentialsException</code> is thrown.</p>
 */
public class RunAsImplAuthenticationProvider implements InitializingBean, AuthenticationProvider,
MessageSourceAware {
    //~ Instance fields
    =====
    =====

    protected MessageSourceAccessor messages = SpringSecurityMessageSource.getAccessor();
    private String key;

    //~ Methods
    =====
    =====

    public void afterPropertiesSet() throws Exception {
        Assert.notNull(key, "A Key is required and should match that configured for the RunAsManagerImpl");
    }

    public Authentication authenticate(Authentication authentication)
        throws AuthenticationException {
        RunAsUserToken token = (RunAsUserToken) authentication;

        if (token.getKeyHash() == key.hashCode()) {
            return authentication;
        } else {
            throw new

```

```

BadCredentialsException(messages.getMessage("RunAsImplAuthenticationProvider.incorrectKey",
    "The presented RunAsUserToken does not contain the expected key"));
    }
}

public String getKey() {
    return key;
}

public void setKey(String key) {
    this.key = key;
}

public void setMessageSource(MessageSource messageSource) {
    this.messages = new MessageSourceAccessor(messageSource);
}

public boolean supports(Class<? extends Object> authentication) {
    if (RunAsUserToken.class.isAssignableFrom(authentication)) {
        return true;
    } else {
        return false;
    }
}
}
}
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 */

package org.springframework.security.access.intercept;

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

import org.springframework.beans.factory.InitializingBean;
import org.springframework.security.access.ConfigAttribute;

```

```
import org.springframework.security.core.Authentication;
import org.springframework.security.core.GrantedAuthority;
import org.springframework.security.core.authority.GrantedAuthorityImpl;
import org.springframework.util.Assert;
```

```
/**
```

```
* Basic concrete implementation of a {@link RunAsManager}.
```

```
* <p>
```

```
* Is activated if any {@link ConfigAttribute#getAttribute()} is prefixed with <Code>RUN_AS_</code>.
```

```
* If found, it generates a new {@link RunAsUserToken} containing the same principal, credentials and granted
```

```
* authorities as the original {@link Authentication} object, along with {@link GrantedAuthorityImpl}s for each
* <code>RUN_AS_</code> indicated. The created <code>GrantedAuthorityImpl</code>s will be prefixed with a
special
```

```
* prefix indicating that it is a role (default prefix value is <code>ROLE_</code>), and then the remainder of the
```

```
* <code>RUN_AS_</code> keyword. For example, <code>RUN_AS_FOO</code> will result in the creation of a
granted
```

```
* authority of <code>ROLE_RUN_AS_FOO</code>.
```

```
* <p>
```

```
* The role prefix may be overridden from the default, to match that used elsewhere, for example when using an
```

```
* existing role database with another prefix. An empty role prefix may also be specified. Note however that there are
```

```
* potential issues with using an empty role prefix since different categories of {@link ConfigAttribute} can not be
```

```
* properly discerned based on the prefix, with possible consequences when performing voting and other actions.
```

```
* However, this option may be of some use when using pre-existing role names without a prefix, and no ability
exists to
```

```
* prefix them with a role prefix on reading them in, such as provided for example in
```

```
* {@link org.springframework.security.core.userdetails.jdbc.JdbcDaoImpl}.
```

```
*
```

```
* @author Ben Alex
```

```
* @author colin sampaleanu
```

```
*/
```

```
public class RunAsManagerImpl implements RunAsManager, InitializingBean {
```

```
    //~ Instance fields
```

```
=====
=====
```

```
    private String key;
```

```
    private String rolePrefix = "ROLE_";
```

```
    //~ Methods
```

```
=====
=====
```

```
    public void afterPropertiesSet() throws Exception {
```

```
        Assert.notNull(key, "A Key is required and should match that configured for the
RunAsImplAuthenticationProvider");
```

```
    }
```

```

public Authentication buildRunAs(Authentication authentication, Object object, Collection<ConfigAttribute>
attributes) {
    List<GrantedAuthority> newAuthorities = new ArrayList<GrantedAuthority>();

    for (ConfigAttribute attribute : attributes) {
        if (this.supports(attribute)) {
            GrantedAuthority extraAuthority = new GrantedAuthorityImpl(getRolePrefix() + attribute.getAttribute());
            newAuthorities.add(extraAuthority);
        }
    }

    if (newAuthorities.size() == 0) {
        return null;
    }

    // Add existing authorities
    newAuthorities.addAll(authentication.getAuthorities());

    return new RunAsUserToken(this.key, authentication.getPrincipal(), authentication.getCredentials(),
        newAuthorities, authentication.getClass());
}

public String getKey() {
    return key;
}

public String getRolePrefix() {
    return rolePrefix;
}

public void setKey(String key) {
    this.key = key;
}

/**
 * Allows the default role prefix of <code>ROLE_</code> to be overridden. May be set to an empty value,
 * although this is usually not desirable.
 *
 * @param rolePrefix the new prefix
 */
public void setRolePrefix(String rolePrefix) {
    this.rolePrefix = rolePrefix;
}

public boolean supports(ConfigAttribute attribute) {
    return attribute.getAttribute() != null && attribute.getAttribute().startsWith("RUN_AS_");
}

```

```

/**
 * This implementation supports any type of class, because it does not query the presented secure object.
 *
 * @param clazz the secure object
 *
 * @return always <code>true</code>
 */
public boolean supports(Class<?> clazz) {
    return true;
}
}
package org.springframework.security.access;

import java.io.Serializable;

import org.springframework.aop.framework.AopInfrastructureBean;
import org.springframework.security.core.Authentication;

/**
 * Strategy used in expression evaluation to determine whether a user has a permission or permissions
 * for a given domain object.
 *
 * @author Luke Taylor
 * @since 3.0
 */
public interface PermissionEvaluator extends AopInfrastructureBean {
    /**
     *
     * @param authentication represents the user in question. Should not be null.
     * @param targetDomainObject the domain object for which permissions should be checked. May be null
     *    in which case implementations should return false, as the null condition can be checked explicitly
     *    in the expression.
     * @param permission a representation of the permission object as supplied by the expression system. Not null.
     * @return true if the permission is granted, false otherwise
     */
    boolean hasPermission(Authentication authentication, Object targetDomainObject, Object permission);

    /**
     * Alternative method for evaluating a permission where only the identifier of the target object
     * is available, rather than the target instance itself.
     *
     * @param authentication represents the user in question. Should not be null.
     * @param targetId the identifier for the object instance (usually a Long)
     * @param targetType a String representing the target's type (usually a Java classname). Not null.
     * @param permission a representation of the permission object as supplied by the expression system. Not null.
     * @return true if the permission is granted, false otherwise
     */
}

```

```

    boolean hasPermission(Authentication authentication, Serializable targetId, String targetType, Object permission);
}
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 */

package org.springframework.security.access.event;

/**
 * Event that is generated whenever a public secure object is invoked.<p>A public secure object is a secure object
 * that has no <code>ConfigAttribute</code>s defined. A public secure object will not cause the
 * <code>SecurityContextHolder</code> to be inspected or authenticated, and no authorization will take place.</p>
 * <p>Published just before the secure object attempts to proceed.</p>
 *
 * @author Ben Alex
 */
public class PublicInvocationEvent extends AbstractAuthorizationEvent {
    //~ Constructors
    =====
    =====

    /**
     * Construct the event, passing in the public secure object.
     *
     * @param secureObject the public secure object
     */
    public PublicInvocationEvent(Object secureObject) {
        super(secureObject);
    }
}
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```

```

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*/

```

```
package org.springframework.security.remoting.httpinvoker;
```

```
import java.io.IOException;
import java.net.HttpURLConnection;
```

```
import org.apache.commons.logging.Log;
import org.apache.commons.logging.LogFactory;
import org.springframework.remoting.httpinvoker.SimpleHttpInvokerRequestExecutor;
import org.springframework.security.core.Authentication;
import org.springframework.security.core.codec.Base64;
import org.springframework.security.core.context.SecurityContextHolder;
```

```
/**
 * Adds BASIC authentication support to <code>SimpleHttpInvokerRequestExecutor</code>.
 *
 * @author Ben Alex
 */
```

```
public class AuthenticationSimpleHttpInvokerRequestExecutor extends SimpleHttpInvokerRequestExecutor {
    //~ Static fields/initializers
```

```
=====
===
```

```
    private static final Log logger = LogFactory.getLog(AuthenticationSimpleHttpInvokerRequestExecutor.class);
```

```
    //~ Methods
```

```
=====
=====
```

```
/**
 * Provided so subclasses can perform additional configuration if required (eg set additional request
 * headers for non-security related information etc).
 *
 * @param con the HTTP connection to prepare
 * @param contentLength the length of the content to send
 *
 * @throws IOException if thrown by HttpURLConnection methods
 */
```

```
protected void doPrepareConnection(HttpURLConnection con, int contentLength)
    throws IOException { }
```

```

/**
 * Called every time a HTTP invocation is made.<p>Simply allows the parent to setup the connection, and
 * then adds an <code>Authorization</code> HTTP header property that will be used for BASIC
authentication.</p>
 * <p>The <code>SecurityContextHolder</code> is used to obtain the relevant principal and credentials.</p>
 *
 * @param con the HTTP connection to prepare
 * @param contentLength the length of the content to send
 *
 * @throws IOException if thrown by HttpURLConnection methods
 */
protected void prepareConnection(HttpURLConnection con, int contentLength) throws IOException {
    super.prepareConnection(con, contentLength);

    Authentication auth = SecurityContextHolder.getContext().getAuthentication();

    if ((auth != null) && (auth.getName() != null) && (auth.getCredentials() != null)) {
        String base64 = auth.getName() + ":" + auth.getCredentials().toString();
        con.setRequestProperty("Authorization", "Basic " + new String(Base64.encode(base64.getBytes())));

        if (logger.isDebugEnabled()) {
            logger.debug("HttpInvocation now presenting via BASIC authentication SecurityContextHolder-derived: "
                + auth.toString());
        }
    } else {
        if (logger.isDebugEnabled()) {
            logger.debug("Unable to set BASIC authentication header as SecurityContext did not provide "
                + "valid Authentication: " + auth);
        }
    }

    doPrepareConnection(con, contentLength);
}
}

```

1.170 spring-test 3.0.5.RELEASE

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1.171 spring-tx 3.0.7.RELEASE

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*/

1.172 spring-xml 2.0.2.RELEASE

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```

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*/

package org.springframework.xml.namespace;

import java.util.Collections;
import java.util.HashSet;
import java.util.Iterator;
import java.util.LinkedHashMap;
import java.util.LinkedHashSet;
import java.util.Map;
import java.util.Set;
import javax.xml.XMLConstants;
import javax.xml.namespace.NamespaceContext;

import org.springframework.util.Assert;

/**
 * Simple javax.xml.namespace.NamespaceContext implementation. Follows the standard
 * NamespaceContext contract, and is loadable via a java.util.Map or
 * java.util.Properties object
 *
 * @author Arjen Poutsma
 * @since 1.0.0
 */
public class SimpleNamespaceContext implements NamespaceContext {

    private Map<String, String> prefixToNamespaceUri = new LinkedHashMap<String, String>();

    private Map<String, Set<String>> namespaceUriToPrefixes = new LinkedHashMap<String, Set<String>>();

    public String getNamespaceURI(String prefix) {
        Assert.notNull(prefix, "prefix is null");
        if (XMLConstants.XML_NS_PREFIX.equals(prefix)) {
            return XMLConstants.XML_NS_URI;
        }
        else if (XMLConstants.XMLNS_ATTRIBUTE.equals(prefix)) {
            return XMLConstants.XMLNS_ATTRIBUTE_NS_URI;
        }
        else if (prefixToNamespaceUri.containsKey(prefix)) {
            return prefixToNamespaceUri.get(prefix);
        }
        return XMLConstants.NULL_NS_URI;
    }

    public String getPrefix(String namespaceUri) {
        Iterator<String> iterator = getPrefixes(namespaceUri);
        return iterator.hasNext() ? iterator.next() : null;
    }

```

```

}

public Iterator<String> getPrefixes(String namespaceUri) {
    Set<String> prefixes = getPrefixesInternal(namespaceUri);
    prefixes = Collections.unmodifiableSet(prefixes);
    return prefixes.iterator();
}

/**
 * Sets the bindings for this namespace context. The supplied map must consist of string key value pairs.
 *
 * @param bindings the bindings
 */
public void setBindings(Map<String, String> bindings) {
    for (Map.Entry<String, String> entry : bindings.entrySet()) {
        bindNamespaceUri(entry.getKey(), entry.getValue());
    }
}

/**
 * Binds the given namespace as default namespace.
 *
 * @param namespaceUri the namespace uri
 */
public void bindDefaultNamespaceUri(String namespaceUri) {
    bindNamespaceUri(XMLConstants.DEFAULT_NS_PREFIX, namespaceUri);
}

/**
 * Binds the given prefix to the given namespace.
 *
 * @param prefix the namespace prefix
 * @param namespaceUri the namespace uri
 */
public void bindNamespaceUri(String prefix, String namespaceUri) {
    Assert.notNull(prefix, "No prefix given");
    Assert.notNull(namespaceUri, "No namespaceUri given");
    if (XMLConstants.XML_NS_PREFIX.equals(prefix)) {
        Assert.isTrue(XMLConstants.XML_NS_URI.equals(namespaceUri), "Prefix '\" + prefix +
            "\" bound to namespace '\" + namespaceUri + "\" (should be '\" + XMLConstants.XML_NS_URI +
            "\")");
    } else if (XMLConstants.XMLNS_ATTRIBUTE.equals(prefix)) {
        Assert.isTrue(XMLConstants.XMLNS_ATTRIBUTE_NS_URI.equals(namespaceUri), "Prefix '\" + prefix +
            "\" bound to namespace '\" + namespaceUri + "\" (should be '\" +
            XMLConstants.XMLNS_ATTRIBUTE_NS_URI + "\")");
    }
    else {
        prefixToNamespaceUri.put(prefix, namespaceUri);
    }
}

```

```

        getPrefixesInternal(namespaceUri).add(prefix);
    }
}

/** Removes all declared prefixes. */
public void clear() {
    prefixToNamespaceUri.clear();
    namespaceUriToPrefixes.clear();
}

/**
 * Returns all declared prefixes.
 *
 * @return the declared prefixes
 */
public Iterator<String> getBoundPrefixes() {
    Set<String> prefixes = new HashSet<String>(prefixToNamespaceUri.keySet());
    prefixes.remove(XMLConstants.DEFAULT_NS_PREFIX);
    prefixes = Collections.unmodifiableSet(prefixes);
    return prefixes.iterator();
}

private Set<String> getPrefixesInternal(String namespaceUri) {
    if (XMLConstants.XML_NS_URI.equals(namespaceUri)) {
        return Collections.singleton(XMLConstants.XML_NS_PREFIX);
    }
    else if (XMLConstants.XMLNS_ATTRIBUTE_NS_URI.equals(namespaceUri)) {
        return Collections.singleton(XMLConstants.XMLNS_ATTRIBUTE);
    }
    else {
        Set<String> set = namespaceUriToPrefixes.get(namespaceUri);
        if (set == null) {
            set = new LinkedHashSet<String>();
            namespaceUriToPrefixes.put(namespaceUri, set);
        }
        return set;
    }
}

/**
 * Removes the given prefix from this context.
 *
 * @param prefix the prefix to be removed
 */
public void removeBinding(String prefix) {
    String namespaceUri = prefixToNamespaceUri.get(prefix);
    Set<String> prefixes = getPrefixesInternal(namespaceUri);
    prefixes.remove(prefix);
}

```

```

    }

    public boolean hasBinding(String prefix) {
        return prefixToNamespaceUri.containsKey(prefix);
    }
}
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 */

package org.springframework.xml.xsd;

import java.io.IOException;
import javax.xml.namespace.QName;
import javax.xml.parsers.DocumentBuilder;
import javax.xml.parsers.DocumentBuilderFactory;
import javax.xml.parsers.ParserConfigurationException;
import javax.xml.transform.Source;
import javax.xml.transform.dom.DOMSource;

import org.springframework.beans.factory.InitializingBean;
import org.springframework.core.io.Resource;
import org.springframework.util.Assert;
import org.springframework.xml.namespace.QNameUtils;
import org.springframework.xml.sax.SaxUtils;
import org.springframework.xml.validation.XmlValidator;
import org.springframework.xml.validation.XmlValidatorFactory;

import org.w3c.dom.Document;
import org.w3c.dom.Element;
import org.xml.sax.SAXException;

/**
 * The default {@link XsdSchema} implementation.
 * <p/>
 * Allows a XSD to be set by the {@link #setXsd(Resource)}, or directly in the {@link

```

```

#SimpleXsdSchema(Resource)
* constructor}.
*
* @author Mark LaFond
* @author Arjen Poutsma
* @since 1.5.0
*/
public class SimpleXsdSchema implements XsdSchema, InitializingBean {

    private static DocumentBuilderFactory documentBuilderFactory = DocumentBuilderFactory.newInstance();

    private static final String SCHEMA_NAMESPACE = "http://www.w3.org/2001/XMLSchema";

    private static final QName SCHEMA_NAME = QNameUtils.createQName(SCHEMA_NAMESPACE, "schema",
"xsd");

    private Resource xsdResource;

    private Element schemaElement;

    static {
        documentBuilderFactory.setNamespaceAware(true);
    }

    /**
     * Create a new instance of the { @link SimpleXsdSchema } class.
     * <p/>
     * A subsequent call to the { @link #setXsd(Resource) } method is required.
     */
    public SimpleXsdSchema() {
    }

    /**
     * Create a new instance of the { @link SimpleXsdSchema } class with the specified resource.
     *
     * @param xsdResource the XSD resource; must not be <code>null</code>
     * @throws IllegalArgumentException if the supplied <code>xsdResource</code> is <code>null</code>
     */
    public SimpleXsdSchema(Resource xsdResource) {
        Assert.notNull(xsdResource, "xsdResource must not be null");
        this.xsdResource = xsdResource;
    }

    /**
     * Set the XSD resource to be exposed by calls to this instances' { @link #getSource() } method.
     *
     * @param xsdResource the XSD resource
     */

```

```

public void setXsd(Resource xsdResource) {
    this.xsdResource = xsdResource;
}

public String getTargetNamespace() {
    return schemaElement.getAttribute("targetNamespace");
}

public Source getSource() {
    return new DOMSource(schemaElement);
}

public XmlValidator createValidator() throws IOException {
    return XmlValidatorFactory.createValidator(xsdResource, XmlValidatorFactory.SCHEMA_W3C_XML);
}

public void afterPropertiesSet() throws ParserConfigurationException, IOException, SAXException {
    Assert.notNull(xsdResource, "'xsd' is required");
    Assert.isTrue(this.xsdResource.exists(), "xsd '" + this.xsdResource + "' does not exist");
    DocumentBuilder documentBuilder = documentBuilderFactory.newDocumentBuilder();
    loadSchema(documentBuilder);
}

private void loadSchema(DocumentBuilder documentBuilder) throws SAXException, IOException {
    Document schemaDocument = documentBuilder.parse(SaxUtils.createInputSource(xsdResource));
    schemaElement = schemaDocument.getDocumentElement();
    Assert.isTrue(SCHEMA_NAME.getLocalPart().equals(schemaElement.getLocalName()),
        xsdResource + " has invalid root element : [" + schemaElement.getLocalName() + "] instead of
[schema]");
    Assert.isTrue(SCHEMA_NAME.getNamespaceURI().equals(schemaElement.getNamespaceURI()),
xsdResource +
        " has invalid root element: [" + schemaElement.getNamespaceURI() + "] instead of [" +
        SCHEMA_NAME.getNamespaceURI() + "]);
    Assert.hasText(getTargetNamespace(), xsdResource + " has no targetNamespace");
}

public String toString() {
    StringBuilder builder = new StringBuilder("SimpleXsdSchema");
    builder.append('{');
    builder.append(getTargetNamespace());
    builder.append('}');
    return builder.toString();
}

}
/*
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*

```

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* limitations under the License.
*/

```
package org.springframework.xml.xpath;
```

```
import java.io.InputStream;  
import java.io.Reader;  
import java.util.ArrayList;  
import java.util.List;  
import javax.xml.namespace.QName;  
import javax.xml.stream.XMLStreamReader;  
import javax.xml.stream.XMLStreamException;  
import javax.xml.stream.XMLStreamReader;  
import javax.xml.transform.Source;  
import javax.xml.transform.TransformerException;  
import javax.xml.transform.dom.DOMResult;  
import javax.xml.xpath.XPath;  
import javax.xml.xpath.XPathConstants;  
import javax.xml.xpath.XPathExpressionException;  
import javax.xml.xpath.XPathFactory;  
import javax.xml.xpath.XPathFactoryConfigurationException;  
  
import org.springframework.xml.namespace.SimpleNamespaceContext;  
import org.springframework.xml.transform.StaxSource;  
import org.springframework.xml.transform.TransformerHelper;  
import org.springframework.xml.transform.TraxUtils;  
  
import org.w3c.dom.DOMException;  
import org.w3c.dom.Document;  
import org.w3c.dom.Element;  
import org.w3c.dom.Node;  
import org.w3c.dom.NodeList;  
import org.xml.sax.InputSource;  
import org.xml.sax.XMLReader;
```

```
/**
```

```
* Implementation of { @link XPathOperations } that uses JAXP 1.3. JAXP 1.3 is part of Java SE since 1.5.
```

```
* <p/>
```

```

* Namespaces can be set using the { @code namespaces } property.
*
* @author Arjen Poutsma
* @see #setNamespaces(java.util.Map)
* @since 1.0.0
*/
public class Jaxp13XPathTemplate extends AbstractXPathTemplate {

    private XPathFactory xpathFactory;

    public Jaxp13XPathTemplate() {
        this(XPathFactory.DEFAULT_OBJECT_MODEL_URI);
    }

    public Jaxp13XPathTemplate(String xpathFactoryUri) {
        try {
            xpathFactory = XPathFactory.newInstance(xpathFactoryUri);
        }
        catch (XPathFactoryConfigurationException ex) {
            throw new XPathException("Could not create XPathFactory", ex);
        }
    }

    public boolean evaluateAsBoolean(String expression, Source context) throws XPathException {
        Boolean result = (Boolean) evaluate(expression, context, XPathConstants.BOOLEAN);
        return result != null && result;
    }

    public Node evaluateAsNode(String expression, Source context) throws XPathException {
        return (Node) evaluate(expression, context, XPathConstants.NODE);
    }

    public List<Node> evaluateAsNodeList(String expression, Source context) throws XPathException {
        NodeList result = (NodeList) evaluate(expression, context, XPathConstants.NODESET);
        List<Node> nodes = new ArrayList<Node>(result.getLength());
        for (int i = 0; i < result.getLength(); i++) {
            nodes.add(result.item(i));
        }
        return nodes;
    }

    public double evaluateAsDouble(String expression, Source context) throws XPathException {
        Double result = (Double) evaluate(expression, context, XPathConstants.NUMBER);
        return result != null ? result : Double.NaN;
    }

    public String evaluateAsString(String expression, Source context) throws XPathException {
        return (String) evaluate(expression, context, XPathConstants.STRING);
    }
}

```

```
}
```

```
public <T> T evaluateAsObject(String expression, Source context, NodeMapper<T> nodeMapper) throws  
XPathException {  
    Node node = evaluateAsNode(expression, context);  
    if (node != null) {  
        try {  
            return nodeMapper.mapNode(node, 0);  
        }  
        catch (DOMException ex) {  
            throw new XPathException("Mapping resulted in DOMException", ex);  
        }  
    }  
    else {  
        return null;  
    }  
}
```

```
public <T> List<T> evaluate(String expression, Source context, NodeMapper<T> nodeMapper) throws  
XPathException {  
    NodeList nodes = (NodeList) evaluate(expression, context, XPathConstants.NODESET);  
    List<T> results = new ArrayList<T>(nodes.getLength());  
    for (int i = 0; i < nodes.getLength(); i++) {  
        try {  
            results.add(nodeMapper.mapNode(nodes.item(i), i));  
        }  
        catch (DOMException ex) {  
            throw new XPathException("Mapping resulted in DOMException", ex);  
        }  
    }  
    return results;  
}
```

```
private Object evaluate(String expression, Source context, QName returnType) throws XPathException {  
    XPath xpath = createXPath();  
    if (getNamespaces() != null && !getNamespaces().isEmpty()) {  
        SimpleNamespaceContext namespaceContext = new SimpleNamespaceContext();  
        namespaceContext.setBindings(getNamespaces());  
        xpath.setNamespaceContext(namespaceContext);  
    }  
    try {  
        EvaluationCallback callback = new EvaluationCallback(xpath, expression, returnType);  
        TraxUtils.doWithSource(context, callback);  
        return callback.result;  
    }  
    catch (javax.xml.xpath.XPathException ex) {  
        throw new XPathException("Could not evaluate XPath expression [" + expression + "]", ex);  
    }  
}
```

```

catch (TransformerException ex) {
    throw new XPathException("Could not transform context to DOM Node", ex);
}
catch (Exception ex) {
    throw new XPathException(ex.getMessage(), ex);
}
}

private synchronized XPath createXPath() {
    return xpathFactory.newXPath();
}

private static class EvaluationCallback implements TraxUtils.SourceCallback {

    private final XPath xpath;

    private final String expression;

    private final QName returnType;

    private final TransformerHelper transformerHelper = new TransformerHelper();

    private Object result;

    private EvaluationCallback(XPath xpath, String expression, QName returnType) {
        this.xpath = xpath;
        this.expression = expression;
        this.returnType = returnType;
    }

    public void domSource(Node node) throws XPathExpressionException {
        result = xpath.evaluate(expression, node, returnType);
    }

    public void saxSource(XMLReader reader, InputSource inputSource) throws XPathExpressionException {
        inputSource(inputSource);
    }

    public void staxSource(XMLEventReader eventReader)
        throws XPathExpressionException, XMLStreamException, TransformerException {
        Element element = getRootElement(new StaxSource(eventReader));
        domSource(element);
    }

    public void staxSource(XMLStreamReader streamReader) throws TransformerException,
XPathExpressionException {
        Element element = getRootElement(new StaxSource(streamReader));
        domSource(element);
    }
}

```

```

    }

    public void streamSource(InputStream inputStream) throws XPathExpressionException {
        inputSource(new InputSource(inputStream));
    }

    public void streamSource(Reader reader) throws XPathExpressionException {
        inputSource(new InputSource(reader));
    }

    public void source(String systemId) throws XPathExpressionException {
        inputSource(new InputSource(systemId));
    }

    private void inputSource(InputSource inputSource) throws XPathExpressionException {
        result = xpath.evaluate(expression, inputSource, returnType);
    }

    private Element getRootElement(Source source) throws TransformerException {
        DOMResult domResult = new DOMResult();
        transformerHelper.transform(source, domResult);
        Document document = (Document) domResult.getNode();
        return document.getDocumentElement();
    }

}

}

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 */

package org.springframework.xml.xpath;

```

```

import java.util.ArrayList;
import java.util.List;
import javax.xml.transform.Source;
import javax.xml.transform.TransformerException;

import org.jaxen.JaxenException;
import org.jaxen.SimpleNamespaceContext;
import org.jaxen.XPath;
import org.jaxen.dom.DOMXPath;
import org.w3c.dom.DOMException;
import org.w3c.dom.Element;
import org.w3c.dom.Node;

/**
 * Implementation of { @link XPathOperations } that uses Jaxen.
 * <p/>
 * Namespaces can be set using the <code>namespaces</code> property.
 *
 * @author Arjen Poutsma
 * @see <a href="http://www.jaxen.org/">Jaxen</a>
 * @since 1.0.0
 */
public class JaxenXPathTemplate extends AbstractXPathTemplate {

    public boolean evaluateAsBoolean(String expression, Source context) throws XPathException {
        try {
            XPath xpath = createXPath(expression);
            Element element = getRootElement(context);
            return xpath.booleanValueOf(element);
        }
        catch (JaxenException ex) {
            throw new XPathException("Could not evaluate XPath expression [" + expression + "]", ex);
        }
        catch (TransformerException ex) {
            throw new XPathException("Could not transform context to DOM Node", ex);
        }
    }

    public Node evaluateAsNode(String expression, Source context) throws XPathException {
        try {
            XPath xpath = createXPath(expression);
            Element element = getRootElement(context);
            return (Node) xpath.selectSingleNode(element);
        }
        catch (JaxenException ex) {
            throw new XPathException("Could not evaluate XPath expression [" + expression + "]", ex);
        }
        catch (TransformerException ex) {

```

```

        throw new XPathException("Could not transform context to DOM Node", ex);
    }
}

@SuppressWarnings("unchecked")
public List<Node> evaluateAsNodeList(String expression, Source context) throws XPathException {
    try {
        XPath xpath = createXPath(expression);
        Element element = getRootElement(context);
        return xpath.selectNodes(element);
    }
    catch (JaxenException ex) {
        throw new XPathException("Could not evaluate XPath expression [" + expression + "]", ex);
    }
    catch (TransformerException ex) {
        throw new XPathException("Could not transform context to DOM Node", ex);
    }
}

public double evaluateAsDouble(String expression, Source context) throws XPathException {
    try {
        XPath xpath = createXPath(expression);
        Element element = getRootElement(context);
        return xpath.numberValueOf(element).doubleValue();
    }
    catch (JaxenException ex) {
        throw new XPathException("Could not evaluate XPath expression [" + expression + "]", ex);
    }
    catch (TransformerException ex) {
        throw new XPathException("Could not transform context to DOM Node", ex);
    }
}

public String evaluateAsString(String expression, Source context) throws XPathException {
    try {
        XPath xpath = createXPath(expression);
        Element element = getRootElement(context);
        return xpath.stringValueOf(element);
    }
    catch (JaxenException ex) {
        throw new XPathException("Could not evaluate XPath expression [" + expression + "]", ex);
    }
    catch (TransformerException ex) {
        throw new XPathException("Could not transform context to DOM Node", ex);
    }
}

public <T> T evaluateAsObject(String expression, Source context, NodeMapper<T> nodeMapper) throws

```

```

XPathException {
    try {
        XPath xpath = createXPath(expression);
        Element element = getRootElement(context);
        Node node = (Node) xpath.selectSingleNode(element);
        if (node != null) {
            try {
                return nodeMapper.mapNode(node, 0);
            }
            catch (DOMException ex) {
                throw new XPathException("Mapping resulted in DOMException", ex);
            }
        }
        else {
            return null;
        }
    }
    catch (JaxenException ex) {
        throw new XPathException("Could not evaluate XPath expression [" + expression + "]", ex);
    }
    catch (TransformerException ex) {
        throw new XPathException("Could not transform context to DOM Node", ex);
    }
}

public <T> List<T> evaluate(String expression, Source context, NodeMapper<T> nodeMapper) throws
XPathException {
    try {
        XPath xpath = createXPath(expression);
        Element element = getRootElement(context);
        List<?> nodes = xpath.selectNodes(element);
        List<T> results = new ArrayList<T>(nodes.size());
        for (int i = 0; i < nodes.size(); i++) {
            Node node = (Node) nodes.get(i);
            try {
                results.add(nodeMapper.mapNode(node, i));
            }
            catch (DOMException ex) {
                throw new XPathException("Mapping resulted in DOMException", ex);
            }
        }
        return results;
    }
    catch (JaxenException ex) {
        throw new XPathException("Could not evaluate XPath expression [" + expression + "]", ex);
    }
    catch (TransformerException ex) {

```

```

        throw new XPathException("Could not transform context to DOM Node", ex);
    }
}

private XPath createXPath(String expression) throws JaxenException {
    XPath xpath = new DOMXPath(expression);
    if (getNamespaces() != null && !getNamespaces().isEmpty()) {
        xpath.setNamespaceContext(new SimpleNamespaceContext(getNamespaces()));
    }
    return xpath;
}
}
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 */

package org.springframework.xml.xpath;

import java.util.Map;
import javax.xml.transform.Source;
import javax.xml.transform.TransformerException;
import javax.xml.transform.dom.DOMResult;

import org.springframework.xml.transform.TransformerObjectSupport;

import org.w3c.dom.DOMException;
import org.w3c.dom.Document;
import org.w3c.dom.Element;
import org.w3c.dom.Node;

/**
 * Abstract base class for implementations of { @link XPathOperations }. Contains a namespaces property.
 *
 * @author Arjen Poutsma
 * @since 1.0.0
 */

```

```

public abstract class AbstractXPathTemplate extends TransformerObjectSupport implements XPathOperations {

    private Map<String, String> namespaces;

    /** Returns namespaces used in the XPath expression. */
    public Map<String, String> getNamespaces() {
        return namespaces;
    }

    /** Sets namespaces used in the XPath expression. Maps prefixes to namespaces. */
    public void setNamespaces(Map<String, String> namespaces) {
        this.namespaces = namespaces;
    }

    public final void evaluate(String expression, Source context, NodeCallbackHandler callbackHandler)
        throws XPathException {
        evaluate(expression, context, new NodeCallbackHandlerNodeMapper(callbackHandler));
    }

    /** Static inner class that adapts a {@link NodeCallbackHandler} to the interface of {@link NodeMapper}. */
    private static class NodeCallbackHandlerNodeMapper implements NodeMapper<Object> {

        private final NodeCallbackHandler callbackHandler;

        public NodeCallbackHandlerNodeMapper(NodeCallbackHandler callbackHandler) {
            this.callbackHandler = callbackHandler;
        }

        public Object mapNode(Node node, int nodeNum) throws DOMException {
            callbackHandler.processNode(node);
            return null;
        }
    }

    /**
     * Returns the root element of the given source.
     *
     * @param source the source to get the root element from
     * @return the root element
     */
    protected Element getRootElement(Source source) throws TransformerException {
        DOMResult domResult = new DOMResult();
        transform(source, domResult);
        Document document = (Document) domResult.getNode();
        return document.getDocumentElement();
    }
}

```

1.173 standard 1.2.8

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1.177 StAX_ASLv1.1 1.2.0

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1.178 StAX_IUELSLv1.1.1 1.2.0

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1.181 velocity 1.7

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1.186 wstx-asl 3.2.1

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1.191 XmlSchema 1.3.2

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*/
```

```
package org.apache.ws.commons.schema;
```

```
import javax.xml.namespace.QName;
```

```
/**  
* Class for the restriction of simpleType elements. Represents the World  
* Wide Web Consortium (W3C) restriction element for simple types.  
*/
```

```
public class XmlSchemaSimpleTypeRestriction extends XmlSchemaSimpleTypeContent {
```

```
    /**  
     * Creates new XmlSchemaSimpleTypeRestriction  
     */  
    public XmlSchemaSimpleTypeRestriction() {  
        facets = new XmlSchemaObjectCollection();  
    }
```

```

XmlSchemaSimpleType baseType;

public XmlSchemaSimpleType getBaseType() {
    return this.baseType;
}

public void setBaseType(XmlSchemaSimpleType baseType) {
    this.baseType = baseType;
}

QName baseTypeName;

public QName getBaseTypeName() {
    return this.baseTypeName;
}

public void setBaseTypeName(QName baseTypeName) {
    this.baseTypeName = baseTypeName;
}

XmlSchemaObjectCollection facets;// = new XmlSchemaObjectCollection();

public XmlSchemaObjectCollection getFacets() {
    return this.facets;
}

public String toString(String prefix, int tab) {
    String xml = new String();

    if (!prefix.equals("") && prefix.indexOf(":") == -1)
        prefix += ":";

    for (int i = 0; i < tab; i++)
        xml += "\t";

    xml += "<" + prefix + "restriction ";

    if (baseTypeName != null) {
        xml += "base=\"" + baseTypeName + "\">\n";
    } else {
        xml += ">\n";
        // inline def
        xml += baseType.toString(prefix, (tab + 1));
    }

    xml += facets.toString(prefix, (tab + 1));
    for (int i = 0; i < tab; i++)

```

```

        xml += "\t";
        xml += "</" + prefix + "restriction>\n";

        return xml;

    }

}

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 */

package org.apache.ws.commons.schema;

import javax.xml.namespace.QName;

/**
 * Class for the union of simpleType elements. Defines a simpleType element
 * as a list of values of a specified data type. Represents the World
 * Wide Web Consortium (W3C) union element.
 */

public class XmlSchemaSimpleTypeUnion extends XmlSchemaSimpleTypeContent {

    XmlSchemaObjectCollection baseTypes;
    String memberTypesSource;
    QName[] memberTypesQNames;

    public XmlSchemaSimpleTypeUnion() {
        baseTypes = new XmlSchemaObjectCollection();
    }
}

```

```

public XmlSchemaObjectCollection getBaseTypes() {
    return this.baseTypes;
}

public void setMemberTypesSource(String memberTypesSources) {
    this.memberTypesSource = memberTypesSources;
}

public String getMemberTypesSource() {
    return this.memberTypesSource;
}

public QName[] getMemberTypesQNames() {
    return this.memberTypesQNames;
}

}
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*/

package org.apache.ws.commons.schema;

import javax.xml.namespace.QName;

/**
* Class for complex types with a complex content model that are derived
* by restriction. Restricts the contents of the complex type to a subset
* of the inherited complex type. Represents the World Wide Web Consortium
* (W3C) restriction element for complex content.
*/

```

```

public class XmlSchemaComplexContentRestriction extends XmlSchemaContent {

    /**
     * Creates new XmlSchemaComplexContentRestriction
     */
    public XmlSchemaComplexContentRestriction() {
        attributes = new XmlSchemaObjectCollection();
    }

    /** Allows an XmlSchemaAnyAttribute to be used for the attribute value.*/
    XmlSchemaAnyAttribute anyAttribute;

    public void setAnyAttribute(XmlSchemaAnyAttribute anyAttribute) {
        this.anyAttribute = anyAttribute;
    }

    public XmlSchemaAnyAttribute getAnyAttribute() {
        return this.anyAttribute;
    }

    /** Contains XmlSchemaAttribute and XmlSchemaAttributeGroupRef.
     * Collection of attributes for the simple type.
     */
    XmlSchemaObjectCollection attributes;

    public XmlSchemaObjectCollection getAttributes() {
        return this.attributes;
    }

    /** Name of the built-in data type, simple type, or complex type.*/
    QName baseTypeName;

    public void setBaseTypeName(QName baseTypeName) {
        this.baseTypeName = baseTypeName;
    }

    public QName getBaseTypeName() {
        return this.baseTypeName;
    }

    /**One of the XmlSchemaGroupRef, XmlSchemaChoice, XmlSchemaAll,
     * or XmlSchemaSequence classes.
     */
    XmlSchemaParticle particle;

    public XmlSchemaParticle getParticle() {
        return this.particle;
    }

```

```

}

public void setParticle(XmlSchemaParticle particle) {
    this.particle = particle;
}

public String toString(String prefix, int tab) {
    String xml = new String();
    for (int i = 0; i < tab; i++)
        xml += "\t";
    if (!prefix.equals("") && prefix.indexOf(":") == -1)
        prefix += ":";

    xml += "<" + prefix + "restriction>\n";

    if (particle != null)
        xml += particle.toString(prefix, (tab + 1));

    for (int i = 0; i < tab; i++)
        xml += "\t";

    xml += "</" + prefix + "restriction>\n";
    return xml;
}
}
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*/

package org.apache.ws.commons.schema;

import org.apache.ws.commons.schema.constants.Constants;

```

```

/**
 * Class for complex types. Defines a complex type that determines the
 * set of attributes and content of an element. Represents the World Wide
 * Web Consortium (W3C) complexType element.
 */

public class XmlSchemaComplexType extends XmlSchemaType {
    XmlSchemaAnyAttribute anyAttribute, attributeWildcard;
    XmlSchemaObjectCollection attributes;
    XmlSchemaObjectTable attributeUses;
    XmlSchemaDerivationMethod block, blockResolved;
    XmlSchemaContentModel contentModel;
    XmlSchemaContentType contentType;
    XmlSchemaParticle particleType, particle;
    boolean isAbstract, isMixed;

    /**
     * Creates new XmlSchemaComplexType
     */
    public XmlSchemaComplexType(XmlSchema schema) {
        super(schema);
        attributes = new XmlSchemaObjectCollection();
        block = new XmlSchemaDerivationMethod(Constants.BlockConstants.NONE);
        isAbstract = false;
        isMixed = false;
    }

    public XmlSchemaAnyAttribute getAnyAttribute() {
        return anyAttribute;
    }

    public void setAnyAttribute(XmlSchemaAnyAttribute anyAttribute) {
        this.anyAttribute = anyAttribute;
    }

    public XmlSchemaObjectCollection getAttributes() {
        return attributes;
    }

    public XmlSchemaObjectTable getAttributeUses() {
        return attributeUses;
    }

    public XmlSchemaAnyAttribute getAttributeWildcard() {
        return attributeWildcard;
    }

    public XmlSchemaDerivationMethod getBlock() {

```

```

    return block;
}

public void setBlock(XmlSchemaDerivationMethod block) {
    this.block = block;
}

public XmlSchemaDerivationMethod getBlockResolved() {
    return blockResolved;
}

public XmlSchemaContentModel getContentModel() {
    return contentModel;
}

public void setContentModel(XmlSchemaContentModel contentModel) {
    this.contentModel = contentModel;
}

public XmlSchemaContentType getContentType() {
    return contentType;
}

public void setContentType(XmlSchemaContentType contentType) {
    this.contentType = contentType;
}

public XmlSchemaParticle getContentTypeParticle() {
    return particleType;
}

public boolean isAbstract() {
    return isAbstract;
}

public void setAbstract(boolean b) {
    isAbstract = b;
}

public boolean isMixed() {
    return isMixed;
}

public void setMixed(boolean b) {
    isMixed = b;
}

public XmlSchemaParticle getParticle() {

```

```

    return particle;
}

public void setParticle(XmlSchemaParticle particle) {
    this.particle = particle;
}

public String toString(String prefix, int tab) {
    String xml = new String();

    for (int i = 0; i < tab; i++)
        xml += "\t";

    if (!prefix.equals("") && prefix.indexOf(":") == -1)
        prefix += ":";

    String typeName = name != null ? name : "";

    xml += "<" + prefix + "complexType name=\"" + typeName + "\">\n";

    if (particle != null)
        xml += particle.toString(prefix, (tab + 1));

    if (contentModel != null)
        xml += contentModel.toString(prefix, (tab + 1));

    for (int i = 0; i < attributes.getCount(); i++) {
        xml += attributes.getItem(i).toString(prefix, (tab + 1));
    }

    for (int i = 0; i < tab; i++)
        xml += "\t";

    xml += "</" + prefix + "complexType>\n";
    return xml;
}
}
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*/
```

```
package org.apache.ws.commons.schema;
```

```
import javax.xml.namespace.QName;
```

```
/**
```

```
* Class for complex types with a complex content model derived by extension.  
* Extends the complex type by adding attributes or elements. Represents the  
* World Wide Web Consortium (W3C) extension element for complex content.  
*/
```

```
public class XmlSchemaComplexContentExtension extends XmlSchemaContent {
```

```
/**
```

```
* Creates new XmlSchemaComplexContentExtension  
*/
```

```
public XmlSchemaComplexContentExtension() {  
    attributes = new XmlSchemaObjectCollection();  
  
}
```

```
/* Allows an XmlSchemaAnyAttribute to be used for the attribute value.*/  
XmlSchemaAnyAttribute anyAttribute;
```

```
public void setAnyAttribute(XmlSchemaAnyAttribute anyAttribute) {  
    this.anyAttribute = anyAttribute;  
}
```

```
public XmlSchemaAnyAttribute getAnyAttribute() {  
    return this.anyAttribute;  
}
```

```
/* Contains XmlSchemaAttribute and XmlSchemaAttributeGroupRef. Collection of attributes for the simple  
type.*/
```

```
XmlSchemaObjectCollection attributes;
```

```
public XmlSchemaObjectCollection getAttributes() {  
    return this.attributes;  
}
```

```

/* Name of the built-in data type, simple type, or complex type.*/
QName baseTypeName;

public void setBaseTypeName(QName baseTypeName) {
    this.baseTypeName = baseTypeName;
}

public QName getBaseTypeName() {
    return this.baseTypeName;
}

/*One of the XmlSchemaGroupRef, XmlSchemaChoice, XmlSchemaAll, or XmlSchemaSequence classes.*/
XmlSchemaParticle particle;

public XmlSchemaParticle getParticle() {
    return this.particle;
}

public void setParticle(XmlSchemaParticle particle) {
    this.particle = particle;
}

public String toString(String prefix, int tab) {
    String xml = new String();
    for (int i = 0; i < tab; i++)
        xml += "\t";
    if (!prefix.equals("") && prefix.indexOf(":") == -1)
        prefix += ":";

    xml += "<" + prefix + "extension>\n";

    if (particle != null)
        xml += particle.toString(prefix, (tab + 1));

    for (int i = 0; i < tab; i++)
        xml += "\t";

    xml += "</" + prefix + "extension>\n";
    return xml;
}
}
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```

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*/

```

```
package org.apache.ws.commons.schema;
```

```
/**
```

```

* Class that represents the complex content model for complex types.
* Contains extensions or restrictions on a complex type that has mixed
* content or elements only. Represents the World Wide Web Consortium (W3C)
* complexContent element.
*/

```

```
// Vidyanand - 16th Oct - initial implementation
```

```
public class XmlSchemaComplexContent extends XmlSchemaContentModel {
```

```
/**
```

```

* Creates new XmlSchemaComplexContent
*/

```

```
public XmlSchemaComplexContent() {
}
```

```

/* One of either the XmlSchemaComplexContentRestriction or
* XmlSchemaComplexContentExtension classes.
*/

```

```
*/
```

```
XmlSchemaContent content;
```

```
public XmlSchemaContent getContent() {
    return this.content;
}
```

```
public void setContent(XmlSchemaContent content) {
    this.content = content;
}
```

```

/* Indicates that this type has a mixed content model. Character data
* is allowed to appear between the child elements of the complex type.
*/

```

```
*/
```

```
public boolean mixed;
```

```

public boolean isMixed() {
    return this.mixed;
}

public void setMixed(boolean mixed) {
    this.mixed = mixed;
}

public String toString(String prefix, int tab) {
    String xml = new String();
    for (int i = 0; i < tab; i++)
        xml += "\t";

    if (!prefix.equals("") && prefix.indexOf(":") == -1)
        prefix += ":";

    xml += "<" + prefix + "complexContent>\n";

    xml += content.toString(prefix, (tab + 1));

    for (int i = 0; i < tab; i++)
        xml += "\t";
    xml += "<" + prefix + "complexContent>\n";
    return xml;
}
}
}
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*/

package org.apache.ws.commons.schema;

```

```

/**
 * Class defines a simple type that determines the information and
 * constraints for the values of attributes or elements with text-only
 * content. Represents the World Wide Web Consortium (W3C) simpleType element.
 */

```

```

public class XmlSchemaSimpleType extends XmlSchemaType {

```

```

    XmlSchemaSimpleTypeContent content;

```

```

/**

```

```

 * Creates new XmlSchemaSimpleType

```

```

 */

```

```

public XmlSchemaSimpleType(XmlSchema schema) {
    super(schema);
}

```

```

public XmlSchemaSimpleTypeContent getContent() {
    return content;
}

```

```

public void setContent(XmlSchemaSimpleTypeContent content) {
    this.content = content;
}

```

```

public String toString(String prefix, int tab) {
    String xml = new String();

```

```

    for (int i = 0; i < tab; i++)
        xml += "\t";

```

```

    if (!prefix.equals("") && prefix.indexOf(":") == -1)
        prefix += ":";

```

```

    xml += "<" + prefix + "simpleType>\n";

```

```

    if (content != null)
        xml += content.toString(prefix, (tab + 1));

```

```

    for (int i = 0; i < tab; i++)
        xml += "\t";

```

```

    xml += "</" + prefix + "simpleType>\n";
    return xml;
}

```

```

}

```

```

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 */

package org.apache.ws.commons.schema;

import javax.xml.namespace.QName;

/**
 * Class for the list of simpleType elements. Defines a simpleType element
 * as a list of values of a specified data type. Represents the World Wide
 * Web Consortium (W3C) list element.
 */
public class XmlSchemaSimpleTypeList extends XmlSchemaSimpleTypeContent {

    /**
     * Creates new XmlSchemaSimpleTypeList
     */
    public XmlSchemaSimpleTypeList() {

        XmlSchemaSimpleType itemType;

        public XmlSchemaSimpleType getItemType() {
            return this.itemType;
        }

        public void setItemType(XmlSchemaSimpleType itemType) {
            this.itemType = itemType;
        }

        QName itemTypeName;

```

```

public QName getItemTypeName() {
    return this.itemTypeName;
}

public void setItemTypeName(QName itemTypeName) {
    this.itemTypeName = itemTypeName;
}

}
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 */

package org.apache.ws.commons.schema;

import javax.xml.namespace.QName;

/**
 * Class for simple types that are derived by restriction. Restricts the
 * range of values for the element to a subset of the inherited simple types.
 * Represents the World Wide Web Consortium (W3C) restriction element for simple content.
 */

public class XmlSchemaSimpleContentRestriction extends XmlSchemaContent {

    /**
     * Creates new XmlSchemaSimpleContentRestriction
     */
    public XmlSchemaSimpleContentRestriction() {
        facets = new XmlSchemaObjectCollection();
        attributes = new XmlSchemaObjectCollection();
    }
}

```

```

}

/* Allows an XmlSchemaAnyAttribute to be used for the attribute value.*/
XmlSchemaAnyAttribute anyAttribute;

public void setAnyAttribute(XmlSchemaAnyAttribute anyAttribute) {
    this.anyAttribute = anyAttribute;
}

public XmlSchemaAnyAttribute getAnyAttribute() {
    return this.anyAttribute;
}

/* Contains XmlSchemaAttribute and XmlSchemaAttributeGroupRef. Collection of attributes for the simple
type.*/
XmlSchemaObjectCollection attributes;

public XmlSchemaObjectCollection getAttributes() {
    return this.attributes;
}

/*Derived from the type specified by the base value.*/
XmlSchemaSimpleType baseType;

public void setBaseType(XmlSchemaSimpleType baseType) {
    this.baseType = baseType;
}

public XmlSchemaSimpleType getBaseType() {
    return this.baseType;
}

/* Name of the built-in data type, simple type, or complex type.*/
QName baseTypeName;

public void setBaseTypeName(QName baseTypeName) {
    this.baseTypeName = baseTypeName;
}

public QName getBaseTypeName() {
    return this.baseTypeName;
}

/* One or more of the facet classes: */
XmlSchemaObjectCollection facets;

public XmlSchemaObjectCollection getFacets() {
    return this.facets;
}

```

```

    }

}
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 */

package org.apache.ws.commons.schema;

import javax.xml.namespace.QName;

/**
 * Class for simple types that are derived by extension. Extends the simple
 * type content of the element by adding attributes. Represents the World Wide
 * Web Consortium (W3C) extension element for simple content.
 */

public class XmlSchemaSimpleContentExtension extends XmlSchemaContent {

    /**
     * Creates new XmlSchemaSimpleContentExtension
     */
    public XmlSchemaSimpleContentExtension() {
        attributes = new XmlSchemaObjectCollection();
    }

    /** Allows an XmlSchemaAnyAttribute to be used for the attribute value.*/
    XmlSchemaAnyAttribute anyAttribute;

    public void setAnyAttribute(XmlSchemaAnyAttribute anyAttribute) {
        this.anyAttribute = anyAttribute;
    }
}

```

```

}

public XmlSchemaAnyAttribute getAnyAttribute() {
    return this.anyAttribute;
}

/* Contains XmlSchemaAttribute and XmlSchemaAttributeGroupRef. Collection of attributes for the simple
type.*/
XmlSchemaObjectCollection attributes;

public XmlSchemaObjectCollection getAttributes() {
    return this.attributes;
}

/* Name of the built-in data type, simple type, or complex type.*/
QName baseTypeName;

public void setBaseTypeName(QName baseTypeName) {
    this.baseTypeName = baseTypeName;
}

public QName getBaseTypeName() {
    return this.baseTypeName;
}

}
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*/

package org.apache.ws.commons.schema;

/**

```

```

* Abstract class for simple type content classes.
*/

public abstract class XmlSchemaSimpleTypeContent extends XmlSchemaAnnotated {

    /**
     * Creates new XmlSchemaSimpleTypeContent
     */
    protected XmlSchemaSimpleTypeContent() {
    }

}

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package org.apache.ws.commons.schema;

/**
 * Class for simple types and complex types with a simple content model.
 * Represents the World Wide Web Consortium (W3C) simpleContent element.
 */

public class XmlSchemaSimpleContent extends XmlSchemaContentModel {

    /**
     * Creates new XmlSchemaSimpleContent
     */
    public XmlSchemaSimpleContent() {
    }

    /* One of XmlSchemaSimpleContentRestriction or XmlSchemaSimpleContentExtension. */
    XmlSchemaContent content;
}

```

```

public XmlSchemaContent getContent() {
    return this.content;
}

public void setContent(XmlSchemaContent content) {
    this.content = content;
}

public String toString(String prefix, int tab) {
    String xml = new String();

    if (!prefix.equals("") && prefix.indexOf(":") == -1) {
        prefix += ":";
    }
    return xml;
}
}

```

1.192 xmlsec 1.4.0

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1.193 xom 1.1

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