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Office Open XML schemas (ooxml-schemas-1.1.jar)

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[1] <http://www.ecma-international.org/publications/standards/Ecma-376.htm>

[2] <http://www.ecma-international.org/memento/Ecmabylaws.htm>

[3] <http://www.microsoft.com/openspecifications/en/us/programs/osp/default.aspx>

[4] <http://www.ecma-international.org/publications/files/ECMA-ST/Ecma%20PATENT/Patent%20statements%20ok/ECMA-376%20Edition%202%20Microsoft%20Patent%20Declaration.pdf>

[5] <http://www.ecma-international.org/publications/files/ECMA-ST/Ecma%20PATENT/Patent%20statements%20ok/ECMA-376%20Adobe%20Patent%20Declaration.pdf>

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1.9 avalon-framework-api 4.3.1

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1.17 Batik bridge classes 1.7

1.18 batik-anim 1.7 :2.8

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1.20 batik-dom 1.7

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1.21 batik-ext 1.7

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*/

package org.apache.batik.ext.awt.image.codec.util;

import java.awt.Point;
import java.awt.Rectangle;


```

import java.awt.image.ColorModel;
import java.awt.image.Raster;
import java.awt.image.RenderedImage;
import java.awt.image.SampleModel;
import java.awt.image.WritableRaster;

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

/**
 * A simple class implemented the RenderedImage
 * interface. Only the getTile() method needs to be
 * implemented by subclasses. The instance variables must also be
 * filled in properly.
 *
 * 

Normally in JAI PlanarImage is used for this
 * purpose, but in the interest of modularity the
 * use of PlanarImage has been avoided.


 *
 * @version $Id: SimpleRenderedImage.java 498747 2007-01-22 18:56:19Z dvholten $
 */
public abstract class SimpleRenderedImage implements RenderedImage {

    /** The X coordinate of the image's upper-left pixel. */
    protected int minX;

    /** The Y coordinate of the image's upper-left pixel. */
    protected int minY;

    /** The image's width in pixels. */
    protected int width;

    /** The image's height in pixels. */
    protected int height;

    /** The width of a tile. */
    protected int tileWidth;

    /** The height of a tile. */
    protected int tileHeight;

    /** The X coordinate of the upper-left pixel of tile (0, 0). */
    protected int tileGridXOffset = 0;

    /** The Y coordinate of the upper-left pixel of tile (0, 0). */

```

```

protected int tileGridYOffset = 0;

/** The image's SampleModel. */
protected SampleModel sampleModel = null;

/** The image's ColorModel. */
protected ColorModel colorModel = null;

/** The image's sources, stored in a Vector. */
protected List sources = new ArrayList();

/** A Hashtable containing the image properties. */
protected Map properties = new HashMap();

public SimpleRenderedImage() {}

/** Returns the X coordinate of the leftmost column of the image. */
public int getMinX() {
    return minX;
}

/**
 * Returns the X coordinate of the column immediately to the
 * right of the rightmost column of the image. getMaxX() is
 * implemented in terms of getMinX() and getWidth() and so does
 * not need to be implemented by subclasses.
 */
public final int getMaxX() {
    return getMinX() + getWidth();
}

/** Returns the Y coordinate of the uppermost row of the image. */
public int getMinY() {
    return minY;
}

/**
 * Returns the Y coordinate of the row immediately below the
 * bottom row of the image. getMaxY() is implemented in terms of
 * getMinY() and getHeight() and so does not need to be
 * implemented by subclasses.
 */
public final int getMaxY() {
    return getMinY() + getHeight();
}

/** Returns the width of the image. */
public int getWidth() {

```

```

    return width;
}

/** Returns the height of the image. */
public int getHeight() {
    return height;
}

/** Returns a Rectangle indicating the image bounds. */
public Rectangle getBounds() {
    return new Rectangle(getMinX(), getMinY(),
        getWidth(), getHeight());
}

/** Returns the width of a tile. */
public int getTileWidth() {
    return tileWidth;
}

/** Returns the height of a tile. */
public int getTileHeight() {
    return tileHeight;
}

/**
 * Returns the X coordinate of the upper-left pixel of tile (0, 0).
 */
public int getTileGridXOffset() {
    return tileGridXOffset;
}

/**
 * Returns the Y coordinate of the upper-left pixel of tile (0, 0).
 */
public int getTileGridYOffset() {
    return tileGridYOffset;
}

/**
 * Returns the horizontal index of the leftmost column of tiles.
 * getMinTileX() is implemented in terms of getMinX()
 * and so does not need to be implemented by subclasses.
 */
public int getMinTileX() {
    return XToTileX(getMinX());
}

/**

```

```

* Returns the horizontal index of the rightmost column of tiles.
* getMaxTileX() is implemented in terms of getMaxX()
* and so does not need to be implemented by subclasses.
*/
public int getMaxTileX() {
    return XToTileX(getMaxX() - 1);
}

/**
* Returns the number of tiles along the tile grid in the
* horizontal direction. getNumXTiles() is implemented in terms
* of getMinTileX() and getMaxTileX() and so does not need to be
* implemented by subclasses.
*/
public int getNumXTiles() {
    return getMaxTileX() - getMinTileX() + 1;
}

/**
* Returns the vertical index of the uppermost row of tiles. getMinTileY()
* is implemented in terms of getMinY() and so does not need to be
* implemented by subclasses.
*/
public int getMinTileY() {
    return YToTileY(getMinY());
}

/**
* Returns the vertical index of the bottom row of tiles. getMaxTileY()
* is implemented in terms of getMaxY() and so does not need to
* be implemented by subclasses.
*/
public int getMaxTileY() {
    return YToTileY(getMaxY() - 1);
}

/**
* Returns the number of tiles along the tile grid in the vertical
* direction. getNumYTiles() is implemented in terms
* of getMinTileY() and getMaxTileY() and so does not need to be
* implemented by subclasses.
*/
public int getNumYTiles() {
    return getMaxTileY() - getMinTileY() + 1;
}

/** Returns the SampleModel of the image. */
public SampleModel getSampleModel() {

```

```

    return sampleModel;
}

/** Returns the ColorModel of the image. */
public ColorModel getColorModel() {
    return colorModel;
}

/**
 * Gets a property from the property set of this image. If the
 * property name is not recognized, <code>null</code> will be returned.
 *
 * @param name the name of the property to get, as a
 * <code>String</code>.
 * @return a reference to the property
 * <code>Object</code>, or the value <code>null</code>
 */
public Object getProperty(String name) {
    name = name.toLowerCase();
    return properties.get(name);
}

/**
 * Returns a list of the properties recognized by this image. If
 * no properties are available, an empty String[] will be returned.
 *
 * @return an array of <code>String</code>s representing valid
 * property names.
 */
public String[] getPropertyNames() {
    String[] names = new String[properties.size()];
    // int index = 0;
    //
    // Enumeration e = properties.keys();
    // while (e.hasMoreElements()) {
    //     String name = (String)e.nextElement();
    //     names[index++] = name;
    // }
    properties.keySet().toArray( names );
    return names;
}

/**
 * Returns an array of <code>String</code>s recognized as names by
 * this property source that begin with the supplied prefix. If
 * no property names match, <code>null</code> will be returned.
 * The comparison is done in a case-independent manner.
 */

```

```

* <p> The default implementation calls
* <code>getPropertyNames()</code> and searches the list of names
* for matches.
*
* @return an array of <code>String</code>s giving the valid
* property names (can be null).
*/
public String[] getPropertyNames(String prefix) {
    String[] propertyNames = getPropertyNames();
    if (propertyNames == null) {
        return null;
    }

    prefix = prefix.toLowerCase();

    List names = new ArrayList();
    for (int i = 0; i < propertyNames.length; i++) {
        if (propertyNames[i].startsWith(prefix)) {
            names.add(propertyNames[i]);
        }
    }

    if (names.size() == 0) {
        return null;
    }

    // Copy the strings from the Vector over to a String array.
    String[] prefixNames = new String[names.size()];

    //   int count = 0;
    //   for (Iterator it = names.iterator(); it.hasNext(); ) { // todo xx.toArray()
    //       prefixNames[count++] = (String)it.next();
    //   }
    names.toArray( prefixNames );

    return prefixNames;
}

// Utility methods.

/**
* Converts a pixel's X coordinate into a horizontal tile index
* relative to a given tile grid layout specified by its X offset
* and tile width.
*/
public static int XToTileX(int x, int tileGridXOffset, int tileWidth) {
    x -= tileGridXOffset;
    if (x < 0) {

```

```

        x += 1 - tileWidth; // Force round to -infinity
    }
    return x/tileWidth;
}

/**
 * Converts a pixel's Y coordinate into a vertical tile index
 * relative to a given tile grid layout specified by its Y offset
 * and tile height.
 */
public static int YToTileY(int y, int tileGridYOffset, int tileHeight) {
    y -= tileGridYOffset;
    if (y < 0) {
        y += 1 - tileHeight; // Force round to -infinity
    }
    return y/tileHeight;
}

/**
 * Converts a pixel's X coordinate into a horizontal tile index.
 * This is a convenience method. No attempt is made to detect
 * out-of-range coordinates.
 *
 * @param x the X coordinate of a pixel.
 * @return the X index of the tile containing the pixel.
 */
public int XToTileX(int x) {
    return XToTileX(x, getTileGridXOffset(), getTileWidth());
}

/**
 * Converts a pixel's Y coordinate into a vertical tile index.
 * This is a convenience method. No attempt is made to detect
 * out-of-range coordinates.
 *
 * @param y the Y coordinate of a pixel.
 * @return the Y index of the tile containing the pixel.
 */
public int YToTileY(int y) {
    return YToTileY(y, getTileGridYOffset(), getTileHeight());
}

/**
 * Converts a horizontal tile index into the X coordinate of its
 * upper left pixel relative to a given tile grid layout specified
 * by its X offset and tile width.
 */
public static int tileXToX(int tx, int tileGridXOffset, int tileWidth) {

```

```

    return tx*tileWidth + tileGridXOffset;
}

/**
 * Converts a vertical tile index into the Y coordinate of
 * its upper left pixel relative to a given tile grid layout
 * specified by its Y offset and tile height.
 */
public static int tileYToY(int ty, int tileGridYOffset, int tileHeight) {
    return ty*tileHeight + tileGridYOffset;
}

/**
 * Converts a horizontal tile index into the X coordinate of its
 * upper left pixel. This is a convenience method. No attempt is made
 * to detect out-of-range indices.
 *
 * @param tx the horizontal index of a tile.
 * @return the X coordinate of the tile's upper left pixel.
 */
public int tileXToX(int tx) {
    return tx*tileWidth + tileGridXOffset;
}

/**
 * Converts a vertical tile index into the Y coordinate of its
 * upper left pixel. This is a convenience method. No attempt is made
 * to detect out-of-range indices.
 *
 * @param ty the vertical index of a tile.
 * @return the Y coordinate of the tile's upper left pixel.
 */
public int tileYToY(int ty) {
    return ty*tileHeight + tileGridYOffset;
}

public Vector getSources() {
    return null;
}

/**
 * Returns the entire image in a single Raster. For images with
 * multiple tiles this will require making a copy.
 *
 * <p>The returned Raster is semantically a copy. This means
 * that updates to the source image will not be reflected in the
 * returned Raster. For non-writable (immutable) source images,
 * the returned value may be a reference to the image's internal

```



```

* data. The returned Raster should be considered non-writable;
* any attempt to alter its pixel data (such as by casting it to
* WritableRaster or obtaining and modifying its DataBuffer) may
* result in undefined behavior. The copyData method should be
* used if the returned Raster is to be modified.
*
* @return a Raster containing a copy of this image's data.
*/
public Raster getData() {
    Rectangle rect = new Rectangle(getMinX(), getMinY(),
        getWidth(), getHeight());
    return getData(rect);
}

/**
* Returns an arbitrary rectangular region of the RenderedImage
* in a Raster. The rectangle of interest will be clipped against
* the image bounds.
*
* <p>The returned Raster is semantically a copy. This means
* that updates to the source image will not be reflected in the
* returned Raster. For non-writable (immutable) source images,
* the returned value may be a reference to the image's internal
* data. The returned Raster should be considered non-writable;
* any attempt to alter its pixel data (such as by casting it to
* WritableRaster or obtaining and modifying its DataBuffer) may
* result in undefined behavior. The copyData method should be
* used if the returned Raster is to be modified.
*
* @param bounds the region of the RenderedImage to be returned.
*/
public Raster getData(Rectangle bounds) {
    int startX = XToTileX(bounds.x);
    int startY = YToTileY(bounds.y);
    int endX = XToTileX(bounds.x + bounds.width - 1);
    int endY = YToTileY(bounds.y + bounds.height - 1);
    Raster tile;

    if ((startX == endX) && (startY == endY)) {
        tile = getTile(startX, startY);
        return tile.createChild(bounds.x, bounds.y,
            bounds.width, bounds.height,
            bounds.x, bounds.y, null);
    } else {
        // Create a WritableRaster of the desired size
        SampleModel sm =
            sampleModel.createCompatibleSampleModel(bounds.width,
                bounds.height);

```

```

// Translate it
WritableRaster dest =
    Raster.createWritableRaster(sm, bounds.getLocation());

for (int j = startY; j <= endY; j++) {
    for (int i = startX; i <= endX; i++) {
        tile = getTile(i, j);
        Rectangle intersectRect =
            bounds.intersection(tile.getBounds());
        Raster liveRaster = tile.createChild(intersectRect.x,
            intersectRect.y,
            intersectRect.width,
            intersectRect.height,
            intersectRect.x,
            intersectRect.y,
            null);
        dest.setDataElements(0, 0, liveRaster);
    }
}
return dest;
}
}

/**
 * Copies an arbitrary rectangular region of the RenderedImage
 * into a caller-supplied WritableRaster. The region to be
 * computed is determined by clipping the bounds of the supplied
 * WritableRaster against the bounds of the image. The supplied
 * WritableRaster must have a SampleModel that is compatible with
 * that of the image.
 *
 * <p> If the raster argument is null, the entire image will
 * be copied into a newly-created WritableRaster with a SampleModel
 * that is compatible with that of the image.
 *
 * @param dest a WritableRaster to hold the returned portion of
 * the image.
 * @return a reference to the supplied WritableRaster, or to a
 * new WritableRaster if the supplied one was null.
 */
public WritableRaster copyData(WritableRaster dest) {
    Rectangle bounds;
    Raster tile;

    if (dest == null) {
        bounds = getBounds();
        Point p = new Point(minX, minY);
    }
}

```

```

    /* A SampleModel to hold the entire image. */
    SampleModel sm = sampleModel.createCompatibleSampleModel(
        width, height);
    dest = Raster.createWritableRaster(sm, p);
} else {
    bounds = dest.getBounds();
}

int startX = XToTileX(bounds.x);
int startY = YToTileY(bounds.y);
int endX = XToTileX(bounds.x + bounds.width - 1);
int endY = YToTileY(bounds.y + bounds.height - 1);

for (int j = startY; j <= endY; j++) {
    for (int i = startX; i <= endX; i++) {
        tile = getTile(i, j);
        Rectangle intersectRect =
            bounds.intersection(tile.getBounds());
        Raster liveRaster = tile.createChild(intersectRect.x,
            intersectRect.y,
            intersectRect.width,
            intersectRect.height,
            intersectRect.x,
            intersectRect.y,
            null);

        /*
         * WritableRaster.setDataElements takes into account of
         * inRaster's minX and minY and add these to x and y. Since
         * liveRaster has the origin at the correct location, the
         * following call should not again give these coordinates in
         * places of x and y.
         */
        dest.setDataElements(0, 0, liveRaster);
    }
}
return dest;
}
}
/*

```

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*/

```
package org.apache.batik.ext.awt.image.codec.util;
```

```
import java.awt.image.ColorModel;
```

```
import java.awt.image.Raster;
```

```
import java.awt.image.RenderedImage;
```

```
import java.io.IOException;
```

```
import java.io.OutputStream;
```

```
/**
```

```
 * A partial implementation of the ImageEncoder interface useful for  
 * subclassing.
```

```
 *
```

```
 * <p><b> This class is not a committed part of the JAI API. It may  
 * be removed or changed in future releases of JAI.</b>
```

```
 *
```

```
 * @version $Id: ImageEncoderImpl.java 498740 2007-01-22 18:35:57Z dvholten $
```

```
 */
```

```
public abstract class ImageEncoderImpl implements ImageEncoder {
```

```
    /** The OutputStream associated with this ImageEncoder. */
```

```
    protected OutputStream output;
```

```
    /** The ImageEncodeParam object associated with this ImageEncoder. */
```

```
    protected ImageEncodeParam param;
```

```
    /**
```

```
     * Constructs an ImageEncoderImpl with a given OutputStream
```

```
     * and ImageEncoderParam instance.
```

```
     */
```

```
    public ImageEncoderImpl(OutputStream output,
```

```
                            ImageEncodeParam param) {
```

```
        this.output = output;
```

```
        this.param = param;
```

```
    }
```

```
    /**
```

```
     * Returns the current parameters as an instance of the
```

```
     * ImageEncodeParam interface. Concrete implementations of this
```

```

* interface will return corresponding concrete implementations of
* the ImageEncodeParam interface. For example, a JPEGImageEncoder
* will return an instance of JPEGEncodeParam.
*/
public ImageEncodeParam getParam() {
    return param;
}

/**
 * Sets the current parameters to an instance of the
 * ImageEncodeParam interface. Concrete implementations
 * of ImageEncoder may throw a RuntimeException if the
 * params argument is not an instance of the appropriate
 * subclass or subinterface. For example, a JPEGImageEncoder
 * will expect param to be an instance of JPEGEncodeParam.
 */
public void setParam(ImageEncodeParam param) {
    this.param = param;
}

/** Returns the OutputStream associated with this ImageEncoder. */
public OutputStream getOutputStream() {
    return output;
}

/**
 * Encodes a Raster with a given ColorModel and writes the output
 * to the OutputStream associated with this ImageEncoder.
 */
public void encode(Raster ras, ColorModel cm) throws IOException {
    RenderedImage im = new SingleTileRenderedImage(ras, cm);
    encode(im);
}

/**
 * Encodes a RenderedImage and writes the output to the
 * OutputStream associated with this ImageEncoder.
 */
public abstract void encode(RenderedImage im) throws IOException;
}
/*

```

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```
*/
package org.apache.batik.ext.awt.image.codec.util;

import java.awt.image.Raster;
import java.awt.image.RenderedImage;
import java.io.IOException;
import java.io.InputStream;

/**
 * A partial implementation of the ImageDecoder interface
 * useful for subclassing.
 *
 * @version $Id: ImageDecoderImpl.java 498740 2007-01-22 18:35:57Z dvholten $
 */
public abstract class ImageDecoderImpl implements ImageDecoder {

    /**
     * The SeekableStream associated with this
     * ImageEncoder.
     */
    protected SeekableStream input;

    /**
     * The ImageDecodeParam object associated with this
     * ImageEncoder.
     */
    protected ImageDecodeParam param;

    /**
     * Constructs an ImageDecoderImpl with a given
     * SeekableStream and ImageDecodeParam
     * instance.
     */
    public ImageDecoderImpl(SeekableStream input,
                           ImageDecodeParam param) {
        this.input = input;
        this.param = param;
    }
}
```

```

/**
 * Constructs an ImageDecoderImpl with a given
 * InputStream and ImageDecodeParam
 * instance. The input parameter will be used to
 * construct a ForwardSeekableStream; if the ability
 * to seek backwards is required, the caller should construct
 * an instance of SeekableStream and
 * make use of the other constructor.
 */
public ImageDecoderImpl(InputStream input,
                        ImageDecodeParam param) {
    this.input = new ForwardSeekableStream(input);
    this.param = param;
}

/**
 * Returns the current parameters as an instance of the
 * ImageDecodeParam interface. Concrete
 * implementations of this interface will return corresponding
 * concrete implementations of the ImageDecodeParam
 * interface. For example, a JPEGImageDecoder will
 * return an instance of JPEGDecodeParam.
 */
public ImageDecodeParam getParam() {
    return param;
}

/**
 * Sets the current parameters to an instance of the
 * ImageDecodeParam interface. Concrete
 * implementations of ImageDecoder may throw a
 * RuntimeException if the param
 * argument is not an instance of the appropriate subclass or
 * subinterface. For example, a JPEGImageDecoder
 * will expect param to be an instance of
 * JPEGDecodeParam.
 */
public void setParam(ImageDecodeParam param) {
    this.param = param;
}

/**
 * Returns the SeekableStream associated with
 * this ImageDecoder.
 */
public SeekableStream getInputStream() {
    return input;
}

```

```

/**
 * Returns the number of pages present in the current stream.
 * By default, the return value is 1. Subclasses that deal with
 * multi-page formats should override this method.
 */
public int getNumPages() throws IOException {
    return 1;
}

/**
 * Returns a Raster that contains the decoded
 * contents of the SeekableStream associated
 * with this ImageDecoder. Only
 * the first page of a multi-page image is decoded.
 */
public Raster decodeAsRaster() throws IOException {
    return decodeAsRaster(0);
}

/**
 * Returns a Raster that contains the decoded
 * contents of the SeekableStream associated
 * with this ImageDecoder.
 * The given page of a multi-page image is decoded. If
 * the page does not exist, an IOException will be thrown.
 * Page numbering begins at zero.
 *
 * @param page The page to be decoded.
 */
public Raster decodeAsRaster(int page) throws IOException {
    RenderedImage im = decodeAsRenderedImage(page);
    return im.getData();
}

/**
 * Returns a RenderedImage that contains the decoded
 * contents of the SeekableStream associated
 * with this ImageDecoder. Only
 * the first page of a multi-page image is decoded.
 */
public RenderedImage decodeAsRenderedImage() throws IOException {
    return decodeAsRenderedImage(0);
}

/**
 * Returns a RenderedImage that contains the decoded
 * contents of the SeekableStream associated

```



```

* with this <code>ImageDecoder</code>.
* The given page of a multi-page image is decoded. If
* the page does not exist, an IOException will be thrown.
* Page numbering begins at zero.
*
* @param page The page to be decoded.
*/
public abstract RenderedImage decodeAsRenderedImage(int page)
    throws IOException;
}

```

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(last updated \$Date: 2002-12-10 03:15:21 +1100 (Tue, 10 Dec 2002) \$)
This distribution includes a binary distribution of Mozilla Rhino 1.6 release 5 plus one patch.

You can get the unpatched 1.6R5 release of Rhino from the following URL:

ftp://ftp.mozilla.org/pub/mozilla.org/js/rhino1_6R5.zip

To obtain the source code for the 1.6R5 release of Rhino, issue the following commands:

```
cvs -d :pserver:anonymous@cvs-mirror.mozilla.org:/cvsroot \  
co -D2006-11-20 mozilla/js/rhino
```

The patch is available here:

<https://bugzilla.mozilla.org/attachment.cgi?id=288467>

which is attached to this bug:

https://bugzilla.mozilla.org/show_bug.cgi?id=367627

Rhino is licensed under both the MPL (Mozilla Public License) 1.1 and the GPL (GNU General Public License) 2.0, which are duplicated below.

The Rhino jar also includes four classes:

```
org.mozilla.javascript.tools.debugger.downloaded.AbstractCellEditor.java  
org.mozilla.javascript.tools.debugger.downloaded.JTreeTable.java  
org.mozilla.javascript.tools.debugger.downloaded.TreeTableModel.java  
org.mozilla.javascript.tools.debugger.downloaded.TreeTableModelAdapter.java
```

Which come from:

<http://java.sun.com/products/jfc/tsc/articles/treetable2>

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 * $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/AutoCloseInputStream.java,v 1.9 2004/04/18 23:51:34
jsdever Exp $
 * $Revision: 291181 $
 * $Date: 2005-09-23 14:13:25 -0400 (Fri, 23 Sep 2005) $
 *
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 *
 */
```

```
package org.apache.commons.httpclient;
```

```
import java.io.FilterInputStream;
import java.io.IOException;
import java.io.InputStream;
```

```
/**
```

```

* Closes an underlying stream as soon as the end of the stream is reached, and
* notifies a client when it has done so.
*
* @author Ortwin Glueck
* @author Eric Johnson
* @author <a href="mailto:mbowler@GargoyleSoftware.com">Mike Bowler</a>
*
* @since 2.0
*/
class AutoCloseInputStream extends FilterInputStream {

    /**
     * True if this stream is open. Assume that the underlying stream
     * is open until we get an EOF indication.
     */
    private boolean streamOpen = true;

    /** True if the stream closed itself. */
    private boolean selfClosed = false;

    /**
     * The watcher is notified when the contents of the stream have
     * been exhausted
     */
    private ResponseConsumedWatcher watcher = null;

    /**
     * Create a new auto closing stream for the provided connection
     *
     * @param in the input stream to read from
     * @param watcher To be notified when the contents of the stream have been
     * consumed.
     */
    public AutoCloseInputStream(
        final InputStream in, final ResponseConsumedWatcher watcher) {
        super(in);
        this.watcher = watcher;
    }

    /**
     * Reads the next byte of data from the input stream.
     *
     * @throws IOException when there is an error reading
     * @return the character read, or -1 for EOF
     */
    public int read() throws IOException {
        int l = -1;

```

```

    if (isReadAllowed()) {
        // underlying stream not closed, go ahead and read.
        l = super.read();
        checkClose(l);
    }

    return l;
}

/**
 * Reads up to <code>len</code> bytes of data from the stream.
 *
 * @param b a <code>byte</code> array to read data into
 * @param off an offset within the array to store data
 * @param len the maximum number of bytes to read
 * @return the number of bytes read or -1 for EOF
 * @throws IOException if there are errors reading
 */
public int read(byte[] b, int off, int len) throws IOException {
    int l = -1;

    if (isReadAllowed()) {
        l = super.read(b, off, len);
        checkClose(l);
    }

    return l;
}

/**
 * Reads some number of bytes from the input stream and stores them into the
 * buffer array b.
 *
 * @param b a <code>byte</code> array to read data into
 * @return the number of bytes read or -1 for EOF
 * @throws IOException if there are errors reading
 */
public int read(byte[] b) throws IOException {
    int l = -1;

    if (isReadAllowed()) {
        l = super.read(b);
        checkClose(l);
    }

    return l;
}

/**

```



```

* Close the stream, and also close the underlying stream if it is not
* already closed.
* @throws IOException If an IO problem occurs.
*/
public void close() throws IOException {
    if (!selfClosed) {
        selfClosed = true;
        notifyWatcher();
    }
}

/**
* Close the underlying stream should the end of the stream arrive.
*
* @param readResult The result of the read operation to check.
* @throws IOException If an IO problem occurs.
*/
private void checkClose(int readResult) throws IOException {
    if (readResult == -1) {
        notifyWatcher();
    }
}

/**
* See whether a read of the underlying stream should be allowed, and if
* not, check to see whether our stream has already been closed!
*
* @return <code>true</code> if it is still OK to read from the stream.
* @throws IOException If an IO problem occurs.
*/
private boolean isReadAllowed() throws IOException {
    if (!streamOpen && selfClosed) {
        throw new IOException("Attempted read on closed stream.");
    }
    return streamOpen;
}

/**
* Notify the watcher that the contents have been consumed.
* @throws IOException If an IO problem occurs.
*/
private void notifyWatcher() throws IOException {
    if (streamOpen) {
        super.close();
        streamOpen = false;

        if (watcher != null) {
            watcher.responseConsumed();
        }
    }
}

```

```
}  
}  
}  
}
```

1.46 commons-io 2.2

1.46.1 Available under license :

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Version 2.0, January 2004

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1.47 commons-lang3 3.3.2

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1.56 evo-inflector 1.2

1.57 FindBugs-jsr305 3.0.0

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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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1.70 Jackson-core 2.4.2

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Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
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1.75 jandex 1.1.0.Final

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1.2.0.Beta1

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1.91 jcl-over-slf4j 1.7.7

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1.92 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 IllegalArgumentException(text, "comment", reason);
    }

    this.text = text;
    return this;
}

/**
* This returns a <code>String</code> representation of the

```

```

* <code>Comment</code>, suitable for debugging. If the XML
* representation of the <code>Comment</code> is desired,
* {@link org.jdom.output.XMLOutputter#outputString(Comment)}
* should be used.
*
* @return <code>String</code> - information about the
*     <code>Attribute</code>
*/
public String toString() {
    return new StringBuffer()
        .append("[Comment: ")
        .append(new org.jdom.output.XMLOutputter().outputString(this))
        .append("]")
        .toString();
}
}

```

1.93 jettison-1.1.jar 1.1

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1.94 jmockit 1.13

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1.95 jsch 0.1.51

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1.96 json-patch 1.6

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1.101 mbassador 1.1.10

1.102 mchange-commons-java 0.2.3.4

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Jon Stevens <jon@collab.net> helped prepare the first release of jakarta-oro and is a constant help in keeping the project consistent with the Jakarta project as a whole.

Takashi Okamoto <tokamoto@rd.nttdata.co.jp> has contributed a unicode character class fix and an initial posix character class implementation.

Mark Murphy <markm at tyrell.com> has contributed performance improvements to Perl5Substitution as well as adding support for \UuLIE and escaping of \$.

Michael Davey <michael.davey at coderage.org> fixed some documentation and added a missing int substitute(...) method to Perl5Util.

Harald Kuhn <harald at ontopia.net> updated MatchActionProcessor.processMatches() to accommodate character encodings.

1.110 poi-scratchpad 3.8

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 */

package org.springframework.aop.config;

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

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

    private String aspectBeanName;

    private BeanFactory beanFactory;

    /**
     * Set the name of the aspect bean. This is the bean that is returned when calling

```



```

* {@link #getAspectInstance()}.
*/
public void setAspectBeanName(String aspectBeanName) {
    this.aspectBeanName = aspectBeanName;
}

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

/**
 * Look up the aspect bean from the {@link BeanFactory} and returns it.
 * @see #setAspectBeanName
 */
@Override
public Object getAspectInstance() {
    return this.beanFactory.getBean(this.aspectBeanName);
}

@Override
public ClassLoader getAspectClassLoader() {
    if (this.beanFactory instanceof ConfigurableBeanFactory) {
        return ((ConfigurableBeanFactory) this.beanFactory).getBeanClassLoader();
    }
    else {
        return ClassUtils.getDefaultClassLoader();
    }
}

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

}
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```

```
package org.springframework.aop.target;
```

```
/**
```

```

* Simple {@link org.springframework.aop.TargetSource} implementation,
* freshly obtaining the specified target bean from its containing
* Spring {@link org.springframework.beans.factory.BeanFactory}.
*

```

```

* <p>Can obtain any kind of target bean: singleton, scoped, or prototype.
* Typically used for scoped beans.
*

```

```
* @author Juergen Hoeller
```

```
* @since 2.0.3
```

```
*/
```

```
@SuppressWarnings("serial")
```

```
public class SimpleBeanTargetSource extends AbstractBeanFactoryBasedTargetSource {
```

```
    @Override
```

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

```

```
}
```

```
/*
```

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```

*/

package org.springframework.aop.aspectj;

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

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

    private final Class<?> aspectClass;

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

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

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

```

```

}

@Override
public ClassLoader getAspectClassLoader() {
    return this.aspectClass.getClassLoader();
}

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

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

}

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 */

```

```

package org.springframework.aop.aspectj.annotation;

import org.springframework.aop.aspectj.SimpleAspectInstanceFactory;
import org.springframework.core.Ordered;
import org.springframework.core.annotation.OrderUtils;

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

    private final AspectMetadata metadata;

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

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

    @Override
    protected int getOrderForAspectClass(Class<?> aspectClass) {
        return OrderUtils.getOrder(aspectClass, Ordered.LOWEST_PRECEDENCE);
    }

}

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package org.springframework.aop.aspectj.annotation;

import java.lang.reflect.Method;

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

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

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

    private final AspectJExpressionPointcut declaredPointcut;

    private Pointcut pointcut;

    private final MetadataAwareAspectInstanceFactory aspectInstanceFactory;

    private final Method method;

    private final boolean lazy;

    private final AspectJAdvisorFactory atAspectJAdvisorFactory;

```

```

private Advice instantiatedAdvice;

private int declarationOrder;

private String aspectName;

private Boolean isBeforeAdvice;

private Boolean isAfterAdvice;

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

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

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

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

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

```

```

}

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

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

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

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

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

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

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

```



```

}

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

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

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

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

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

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

/**
 * Duplicates some logic from getAdvice, but importantly does not force
 * creation of the advice.
 */
private void determineAdviceType() {
    AspectJAnnotation<?> aspectJAnnotation =
        AbstractAspectJAdvisorFactory.findAspectJAnnotationOnMethod(this.method);
    if (aspectJAnnotation == null) {
        this.isBeforeAdvice = false;
        this.isAfterAdvice = false;
    }
}

```

```

else {
switch (aspectJAnnotation.getAnnotationType()) {
case AtAfter:
case AtAfterReturning:
case AtAfterThrowing:
this.isAfterAdvice = true;
this.isBeforeAdvice = false;
break;
case AtAround:
case AtPointcut:
this.isAfterAdvice = false;
this.isBeforeAdvice = false;
break;
case AtBefore:
this.isAfterAdvice = false;
this.isBeforeAdvice = true;
}
}
}

```

@Override

```

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

```

/**

```

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

```

```

private class PerTargetInstantiationModelPointcut extends DynamicMethodMatcherPointcut {

```

```

private final AspectJExpressionPointcut declaredPointcut;

```

```

private final Pointcut preInstantiationPointcut;

```

```

private LazySingletonAspectInstanceFactoryDecorator aspectInstanceFactory;

```

```

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

```

```

    this.aspectInstanceFactory = (LazySingletonAspectInstanceFactoryDecorator) aspectInstanceFactory;
}
}

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

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

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

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 */

package org.springframework.aop.interceptor;

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

/**
 * Simple AOP Alliance {@code MethodInvocation} that can be introduced
 * in a chain to display verbose trace information about intercepted method
 * invocations, with method entry and method exit info.

```

```

*
* <p>Consider using { @code CustomizableTraceInterceptor } for more
* advanced needs.
*
* @author Dmitriy Kopylenko
* @author Juergen Hoeller
* @since 1.2
* @see CustomizableTraceInterceptor
*/
@SuppressWarnings("serial")
public class SimpleTraceInterceptor extends AbstractTraceInterceptor {

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

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

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

    /**
     * Return a description for the given method invocation.
     * @param invocation the invocation to describe
     * @return the description

```

```

*/
protected String getInvocationDescription(MethodInvocation invocation) {
    return "method '" + invocation.getMethod().getName() + "' of class [" +
        invocation.getThis().getClass().getName() + "];
}
}
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*/

package org.springframework.aop.interceptor;

import java.lang.reflect.Method;

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

/**
 * A default {@link AsyncUncaughtExceptionHandler} that simply logs the exception.
 *
 * @author Stephane Nicoll
 * @since 4.1
 */
public class SimpleAsyncUncaughtExceptionHandler implements AsyncUncaughtExceptionHandler {

    private final Log logger = LogFactory.getLog(SimpleAsyncUncaughtExceptionHandler.class);

    @Override
    public void handleUncaughtException(Throwable ex, Method method, Object... params) {
        if (logger.isDebugEnabled()) {
            logger.error(String.format("Unexpected error occurred invoking async " +
                "method '%s'.", method), ex);
        }
    }
}

```

}

1.124 spring-batch-core 2.2.0.RELEASE

1.125 spring-batch-infrastructure 2.2.0.RELEASE

1.126 spring-batch-test 2.2.0.RELEASE

1.127 spring-beans 4.1.1.RELEASE

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1.128 spring-binding 2.4.0.RELEASE

1.129 spring-boot-starter-test 1.1.8.RELEASE

1.130 spring-boot-starter-tomcat

1.1.8.RELEASE

1.131 spring-context 4.1.1.RELEASE

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 */
```

```
package org.springframework.cache.support;
```

```
import java.util.Collection;
```

```
import org.springframework.cache.Cache;
```

```
/**
 * Simple cache manager working against a given collection of caches.
 * Useful for testing or simple caching declarations.
 *
 * @author Costin Leau
 * @since 3.1
 */
```

```
public class SimpleCacheManager extends AbstractCacheManager {
```

```
    private Collection<? extends Cache> caches;
```

```
/**
 * Specify the collection of Cache instances to use for this CacheManager.
 */
```

```

public void setCaches(Collection<? extends Cache> caches) {
    this.caches = caches;
}

@Override
protected Collection<? extends Cache> loadCaches() {
    return this.caches;
}

}
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 */

package org.springframework.cache.support;

import org.springframework.cache.Cache.ValueWrapper;

/**
 * Straightforward implementation of {@link org.springframework.cache.Cache.ValueWrapper},
 * simply holding the value as given at construction and returning it from {@link #get()}.
 *
 * @author Costin Leau
 * @since 3.1
 */
public class SimpleValueWrapper implements ValueWrapper {

    private final Object value;

    /**
     * Create a new SimpleValueWrapper instance for exposing the given value.
     * @param value the value to expose (may be {@code null})
     */
    public SimpleValueWrapper(Object value) {
        this.value = value;
    }

```

```

}

/**
 * Simply returns the value as given at construction time.
 */
@Override
public Object get() {
    return this.value;
}

}
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 */

package org.springframework.cache.interceptor;

import java.util.Collection;

import org.springframework.cache.Cache;
import org.springframework.cache.CacheManager;

/**
 * A simple {@link CacheResolver} that resolves the {@link Cache} instance(s)
 * based on a configurable {@link CacheManager} and the name of the
 * cache(s) as provided by {@link BasicOperation#getCacheNames() getCacheNames()}
 *
 * @author Stephane Nicoll
 * @since 4.1
 * @see BasicOperation#getCacheNames()
 */
public class SimpleCacheResolver extends AbstractCacheResolver {

    public SimpleCacheResolver() {
    }
}

```

```

public SimpleCacheResolver(CacheManager cacheManager) {
    super(cacheManager);
}

@Override
protected Collection<String> getCacheNames(CacheOperationInvocationContext<?> context) {
    return context.getOperation().getCacheNames();
}

}
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 */

package org.springframework.cache.interceptor;

import java.lang.reflect.Method;

/**
 * Simple key generator. Returns the parameter itself if a single non-null value
 * is given, otherwise returns a {@link SimpleKey} of the parameters.
 *
 * <p>Unlike {@link DefaultKeyGenerator}, no collisions will occur with the keys
 * generated by this class. The returned {@link SimpleKey} object can be safely
 * used with a {@link org.springframework.cache.concurrent.ConcurrentMapCache},
 * however, might not be suitable for all {@link org.springframework.cache.Cache}
 * implementations.
 *
 * @author Phillip Webb
 * @author Juergen Hoeller
 * @since 4.0
 * @see SimpleKey
 * @see DefaultKeyGenerator
 * @see org.springframework.cache.annotation.CachingConfigurer
 */

```

```

public class SimpleKeyGenerator implements KeyGenerator {

    @Override
    public Object generate(Object target, Method method, Object... params) {
        return generateKey(params);
    }

    /**
     * Generate a key based on the specified parameters.
     */
    public static Object generateKey(Object... params) {
        if (params.length == 0) {
            return SimpleKey.EMPTY;
        }
        if (params.length == 1) {
            Object param = params[0];
            if (param != null && !param.getClass().isArray()) {
                return param;
            }
        }
        return new SimpleKey(params);
    }

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     */

    package org.springframework.cache.interceptor;

    import java.io.Serializable;
    import java.util.Arrays;

    import org.springframework.util.Assert;
    import org.springframework.util.StringUtils;

```

```

/**
 * A simple key as returned from the {@link SimpleKeyGenerator}.
 *
 * @author Phillip Webb
 * @since 4.0
 * @see SimpleKeyGenerator
 */
@SuppressWarnings("serial")
public class SimpleKey implements Serializable {

    public static final SimpleKey EMPTY = new SimpleKey();

    private final Object[] params;
    private final int hashCode;

    /**
     * Create a new {@link SimpleKey} instance.
     * @param elements the elements of the key
     */
    public SimpleKey(Object... elements) {
        Assert.notNull(elements, "Elements must not be null");
        this.params = new Object[elements.length];
        System.arraycopy(elements, 0, this.params, 0, elements.length);
        this.hashCode = Arrays.deepHashCode(this.params);
    }

    @Override
    public boolean equals(Object obj) {
        return (this == obj || (obj instanceof SimpleKey
            && Arrays.deepEquals(this.params, ((SimpleKey) obj).params)));
    }

    @Override
    public final int hashCode() {
        return hashCode;
    }

    @Override
    public String toString() {
        return getClass().getSimpleName() + " [" + StringUtils.arrayToCommaDelimitedString(this.params) + "];"
    }

}

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```



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*/
```

```
package org.springframework.cache.interceptor;
```

```
import org.springframework.cache.Cache;
```

```
/**
```

```
* A simple { @link CacheErrorHandler } that does not handle the
* exception at all, simply throwing it back at the client.
```

```
*
```

```
* @author Stephane Nicoll
```

```
* @since 4.1
```

```
*/
```

```
public class SimpleCacheErrorHandler implements CacheErrorHandler {
```

```
    @Override
```

```
    public void handleCacheGetError(RuntimeException exception, Cache cache, Object key) {
        throw exception;
    }
```

```
    @Override
```

```
    public void handleCachePutError(RuntimeException exception, Cache cache, Object key, Object value) {
        throw exception;
    }
```

```
    @Override
```

```
    public void handleCacheEvictError(RuntimeException exception, Cache cache, Object key) {
        throw exception;
    }
```

```
    @Override
```

```
    public void handleCacheClearError(RuntimeException exception, Cache cache) {
        throw exception;
    }
```

```
}
```

```
/*
```

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```

```
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```

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- */

```
package org.springframework.ejb.access;
```

```
import java.lang.reflect.InvocationTargetException;
import java.rmi.RemoteException;
```

```
import javax.ejb.CreateException;
import javax.ejb.EJBObject;
import javax.naming.NamingException;
```

```
import org.aopalliance.intercept.MethodInvocation;
```

```
import org.springframework.beans.factory.DisposableBean;
import org.springframework.remoting.RemoteLookupFailureException;
import org.springframework.remoting.rmi.RmiClientInterceptorUtils;
```

```
/**
```

```
* Basic invoker for a remote Stateless Session Bean.
* Designed for EJB 2.x, but works for EJB 3 Session Beans as well.
*
* <p>"Creates" a new EJB instance for each invocation, or caches the session
* bean instance for all invocations (see { @link #setCacheSessionBean}).
* See { @link org.springframework.jndi.JndiObjectLocator} for info on
* how to specify the JNDI location of the target EJB.
*
* <p>In a bean container, this class is normally best used as a singleton. However,
* if that bean container pre-instantiates singletons (as do the XML ApplicationContext
* variants) you may have a problem if the bean container is loaded before the EJB
* container loads the target EJB. That is because by default the JNDI lookup will be
* performed in the init method of this class and cached, but the EJB will not have been
* bound at the target location yet. The best solution is to set the "lookupHomeOnStartup"
* property to "false", in which case the home will be fetched on first access to the EJB.
* (This flag is only true by default for backwards compatibility reasons).
*
* <p>This invoker is typically used with an RMI business interface, which serves
* as super-interface of the EJB component interface. Alternatively, this invoker
```

- * can also proxy a remote SLSB with a matching non-RMI business interface, i.e. an
- * interface that mirrors the EJB business methods but does not declare RemoteExceptions.
- * In the latter case, RemoteExceptions thrown by the EJB stub will automatically get
- * converted to Spring's unchecked RemoteAccessException.

*

* @author Rod Johnson

* @author Juergen Hoeller

* @since 09.05.2003

* @see org.springframework.remoting.RemoteAccessException

* @see AbstractSlsbInvokerInterceptor#setLookupHomeOnStartup

* @see AbstractSlsbInvokerInterceptor#setCacheHome

* @see AbstractRemoteSlsbInvokerInterceptor#setRefreshHomeOnConnectFailure

*/

```
public class SimpleRemoteSlsbInvokerInterceptor extends AbstractRemoteSlsbInvokerInterceptor
    implements DisposableBean {
```

```
    private boolean cacheSessionBean = false;
```

```
    private Object beanInstance;
```

```
    private final Object beanInstanceMonitor = new Object();
```

```
    /**
```

```
     * Set whether to cache the actual session bean object.
```

```
     * <p>Off by default for standard EJB compliance. Turn this flag
```

```
     * on to optimize session bean access for servers that are
```

```
     * known to allow for caching the actual session bean object.
```

```
     * @see #setCacheHome
```

```
    */
```

```
    public void setCacheSessionBean(boolean cacheSessionBean) {
        this.cacheSessionBean = cacheSessionBean;
    }
}
```

```
    /**
```

```
     * This implementation "creates" a new EJB instance for each invocation.
```

```
     * Can be overridden for custom invocation strategies.
```

```
     * <p>Alternatively, override { @link #getSessionBeanInstance } and
```

```
     * { @link #releaseSessionBeanInstance } to change EJB instance creation,
```

```
     * for example to hold a single shared EJB component instance.
```

```
    */
```

```
    @Override
```

```
    protected Object doInvoke(MethodInvocation invocation) throws Throwable {
        Object ejb = null;
```

```
        try {
```

```
            ejb = getSessionBeanInstance();
```

```
            return RmiClientInterceptorUtils.invokeRemoteMethod(invocation, ejb);
```

```

    }
    catch (NamingException ex) {
        throw new RemoteLookupFailureException("Failed to locate remote EJB [" + getJndiName() + "]", ex);
    }
    catch (InvocationTargetException ex) {
        Throwable targetEx = ex.getTargetException();
        if (targetEx instanceof RemoteException) {
            RemoteException rex = (RemoteException) targetEx;
            throw RmiClientInterceptorUtils.convertRmiAccessException(
                invocation.getMethod(), rex, isConnectFailure(rex), getJndiName());
        }
        else if (targetEx instanceof CreateException) {
            throw RmiClientInterceptorUtils.convertRmiAccessException(
                invocation.getMethod(), targetEx, "Could not create remote EJB [" + getJndiName() + "]);
        }
        throw targetEx;
    }
    finally {
        if (ejb instanceof EJBObject) {
            releaseSessionBeanInstance((EJBObject) ejb);
        }
    }
}

/**
 * Return an EJB component instance to delegate the call to.
 * <p>The default implementation delegates to { @link #newSessionBeanInstance}.
 * @return the EJB component instance
 * @throws NamingException if thrown by JNDI
 * @throws InvocationTargetException if thrown by the create method
 * @see #newSessionBeanInstance
 */
protected Object getSessionBeanInstance() throws NamingException, InvocationTargetException {
    if (this.cacheSessionBean) {
        synchronized (this.beanInstanceMonitor) {
            if (this.beanInstance == null) {
                this.beanInstance = newSessionBeanInstance();
            }
            return this.beanInstance;
        }
    }
    else {
        return newSessionBeanInstance();
    }
}

/**
 * Release the given EJB instance.

```

```

* <p>The default implementation delegates to { @link #removeSessionBeanInstance}.
* @param ejb the EJB component instance to release
* @see #removeSessionBeanInstance
*/
protected void releaseSessionBeanInstance(EJBObject ejb) {
    if (!this.cacheSessionBean) {
        removeSessionBeanInstance(ejb);
    }
}

/**
 * Reset the cached session bean instance, if necessary.
 */
@Override
protected void refreshHome() throws NamingException {
    super.refreshHome();
    if (this.cacheSessionBean) {
        synchronized (this.beanInstanceMonitor) {
            this.beanInstance = null;
        }
    }
}

/**
 * Remove the cached session bean instance, if necessary.
 */
@Override
public void destroy() {
    if (this.cacheSessionBean) {
        synchronized (this.beanInstanceMonitor) {
            if (this.beanInstance instanceof EJBObject) {
                removeSessionBeanInstance((EJBObject) this.beanInstance);
            }
        }
    }
}

}

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*/
```

```
package org.springframework.ejb.access;
```

```
import javax.naming.NamingException;
```

```
import org.springframework.aop.framework.ProxyFactory;  
import org.springframework.beans.factory.BeanClassLoaderAware;  
import org.springframework.beans.factory.FactoryBean;  
import org.springframework.util.ClassUtils;
```

```
/**
```

```
* Convenient { @link FactoryBean } for remote SLSB proxies.  
* Designed for EJB 2.x, but works for EJB 3 Session Beans as well.  
*  
* <p>See { @link org.springframework.jndi.JndiObjectLocator } for info on  
* how to specify the JNDI location of the target EJB.  
*  
* <p>If you want control over interceptor chaining, use an AOP ProxyFactoryBean  
* with SimpleRemoteSlsbInvokerInterceptor rather than rely on this class.  
*  
* <p>In a bean container, this class is normally best used as a singleton. However,  
* if that bean container pre-instantiates singletons (as do the XML ApplicationContext  
* variants) you may have a problem if the bean container is loaded before the EJB  
* container loads the target EJB. That is because by default the JNDI lookup will be  
* performed in the init method of this class and cached, but the EJB will not have been  
* bound at the target location yet. The best solution is to set the lookupHomeOnStartup  
* property to false, in which case the home will be fetched on first access to the EJB.  
* (This flag is only true by default for backwards compatibility reasons).  
*  
* <p>This proxy factory is typically used with an RMI business interface, which serves  
* as super-interface of the EJB component interface. Alternatively, this factory  
* can also proxy a remote SLSB with a matching non-RMI business interface, i.e. an  
* interface that mirrors the EJB business methods but does not declare RemoteExceptions.  
* In the latter case, RemoteExceptions thrown by the EJB stub will automatically get  
* converted to Spring's unchecked RemoteAccessException.  
*  
* @author Rod Johnson  
* @author Colin Sampaleanu  
* @author Juergen Hoeller  
* @since 09.05.2003  
* @see org.springframework.remoting.RemoteAccessException  
* @see AbstractSlsbInvokerInterceptor#setLookupHomeOnStartup  
* @see AbstractSlsbInvokerInterceptor#setCacheHome
```

```

* @see AbstractRemoteSlsbInvokerInterceptor#setRefreshHomeOnConnectFailure
*/
public class SimpleRemoteStatelessSessionProxyFactoryBean extends SimpleRemoteSlsbInvokerInterceptor
implements FactoryBean<Object>, BeanClassLoaderAware {

    /** The business interface of the EJB we're proxying */
    private Class<?> businessInterface;

    private ClassLoader beanClassLoader = ClassUtils.getDefaultClassLoader();

    /** EJBOject */
    private Object proxy;

    /**
     * Set the business interface of the EJB we're proxying.
     * This will normally be a super-interface of the EJB remote component interface.
     * Using a business methods interface is a best practice when implementing EJBs.
     * <p>You can also specify a matching non-RMI business interface, i.e. an interface
     * that mirrors the EJB business methods but does not declare RemoteExceptions.
     * In this case, RemoteExceptions thrown by the EJB stub will automatically get
     * converted to Spring's generic RemoteAccessException.
     * @param businessInterface the business interface of the EJB
     */
    public void setBusinessInterface(Class<?> businessInterface) {
        this.businessInterface = businessInterface;
    }

    /**
     * Return the business interface of the EJB we're proxying.
     */
    public Class<?> getBusinessInterface() {
        return this.businessInterface;
    }

    @Override
    public void setBeanClassLoader(ClassLoader classLoader) {
        this.beanClassLoader = classLoader;
    }

    @Override
    public void afterPropertiesSet() throws NamingException {
        super.afterPropertiesSet();
        if (this.businessInterface == null) {
            throw new IllegalArgumentException("businessInterface is required");
        }
        this.proxy = new ProxyFactory(this.businessInterface, this).getProxy(this.beanClassLoader);
    }
}

```

```
@Override
public Object getObject() {
    return this.proxy;
}
```

```
@Override
public Class<?> getObjectType() {
    return this.businessInterface;
}
```

```
@Override
public boolean isSingleton() {
    return true;
}
```

```
}
```

```
/*
```

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```
*/
```

```
package org.springframework.context;
```

```
/**
```

```
* Interface that encapsulates event publication functionality.
```

```
* Serves as super-interface for ApplicationContext.
```

```
*
```

```
* @author Juergen Hoeller
```

```
* @since 1.1.1
```

```
* @see ApplicationContext
```

```
* @see ApplicationEventPublisherAware
```

```
* @see org.springframework.context.ApplicationEvent
```

```
* @see org.springframework.context.event.EventPublicationInterceptor
```

```
*/
```

```
public interface ApplicationEventPublisher {
```



```

/**
 * Notify all listeners registered with this application of an application
 * event. Events may be framework events (such as RequestHandledEvent)
 * or application-specific events.
 * @param event the event to publish
 * @see org.springframework.web.context.support.RequestHandledEvent
 */
void publishEvent(ApplicationEvent event);

}
/*
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 * limitations under the License.
 */

package org.springframework.context;

import java.util.EventListener;

/**
 * Interface to be implemented by application event listeners.
 * Based on the standard java.util.EventListener interface
 * for the Observer design pattern.
 *
 * <p>As of Spring 3.0, an ApplicationListener can generically declare the event type
 * that it is interested in. When registered with a Spring ApplicationContext, events
 * will be filtered accordingly, with the listener getting invoked for matching event
 * objects only.
 *
 * @author Rod Johnson
 * @author Juergen Hoeller
 * @param <E> the specific ApplicationEvent subclass to listen to
 * @see org.springframework.context.event.ApplicationEventMulticaster
 */
public interface ApplicationListener<E extends ApplicationEvent> extends EventListener {

```

```

/**
 * Handle an application event.
 * @param event the event to respond to
 */
void onApplicationEvent(E event);

}
/**
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 */

package org.springframework.context;

import org.springframework.beans.factory.HierarchicalBeanFactory;
import org.springframework.beans.factory.ListableBeanFactory;
import org.springframework.beans.factory.config.AutowireCapableBeanFactory;
import org.springframework.core.env.EnvironmentCapable;
import org.springframework.core.io.support.ResourcePatternResolver;

/**
 * Central interface to provide configuration for an application.
 * This is read-only while the application is running, but may be
 * reloaded if the implementation supports this.
 *
 * <p>An ApplicationContext provides:
 * <ul>
 * <li>Bean factory methods for accessing application components.
 * Inherited from { @link org.springframework.beans.factory.ListableBeanFactory }.
 * <li>The ability to load file resources in a generic fashion.
 * Inherited from the { @link org.springframework.core.io.ResourceLoader } interface.
 * <li>The ability to publish events to registered listeners.
 * Inherited from the { @link ApplicationEventPublisher } interface.
 * <li>The ability to resolve messages, supporting internationalization.
 * Inherited from the { @link MessageSource } interface.
 * <li>Inheritance from a parent context. Definitions in a descendant context
 * will always take priority. This means, for example, that a single parent

```

- * context can be used by an entire web application, while each servlet has
- * its own child context that is independent of that of any other servlet.

- *

- *

- * <p>In addition to standard { @link org.springframework.beans.factory.BeanFactory }
- * lifecycle capabilities, ApplicationContext implementations detect and invoke
- * { @link ApplicationContextAware } beans as well as { @link ResourceLoaderAware },
- * { @link ApplicationEventPublisherAware } and { @link MessageSourceAware } beans.

- *

- * @author Rod Johnson

- * @author Juergen Hoeller

- * @see ConfigurableApplicationContext

- * @see org.springframework.beans.factory.BeanFactory

- * @see org.springframework.core.io.ResourceLoader

- */

```
public interface ApplicationContext extends EnvironmentCapable, ListableBeanFactory, HierarchicalBeanFactory,
    MessageSource, ApplicationEventPublisher, ResourcePatternResolver {
```

```
/**
```

```
 * Return the unique id of this application context.
```

```
 * @return the unique id of the context, or { @code null } if none
```

```
 */
```

```
String getId();
```

```
/**
```

```
 * Return a name for the deployed application that this context belongs to.
```

```
 * @return a name for the deployed application, or the empty String by default
```

```
 */
```

```
String getApplicationName();
```

```
/**
```

```
 * Return a friendly name for this context.
```

```
 * @return a display name for this context (never { @code null })
```

```
 */
```

```
String getDisplayName();
```

```
/**
```

```
 * Return the timestamp when this context was first loaded.
```

```
 * @return the timestamp (ms) when this context was first loaded
```

```
 */
```

```
long getStartupDate();
```

```
/**
```

```
 * Return the parent context, or { @code null } if there is no parent
 * and this is the root of the context hierarchy.
```

```
 * @return the parent context, or { @code null } if there is no parent
```

```
 */
```

```
ApplicationContext getParent();
```

```

/**
 * Expose AutowireCapableBeanFactory functionality for this context.
 * <p>This is not typically used by application code, except for the purpose
 * of initializing bean instances that live outside the application context,
 * applying the Spring bean lifecycle (fully or partly) to them.
 * <p>Alternatively, the internal BeanFactory exposed by the
 * { @link ConfigurableApplicationContext } interface offers access to the
 * AutowireCapableBeanFactory interface too. The present method mainly
 * serves as convenient, specific facility on the ApplicationContext
 * interface itself.
 * @return the AutowireCapableBeanFactory for this context
 * @throws IllegalStateException if the context does not support
 * the AutowireCapableBeanFactory interface or does not hold an autowire-capable
 * bean factory yet (usually if { @code refresh() } has never been called)
 * @see ConfigurableApplicationContext#refresh()
 * @see ConfigurableApplicationContext#getBeanFactory()
 */
AutowireCapableBeanFactory getAutowireCapableBeanFactory() throws IllegalStateException;

}
/**
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 */

package org.springframework.context;

import org.springframework.beans.factory.Aware;

/**
 * Interface to be implemented by any object that wishes to be notified
 * of the ApplicationEventPublisher (typically the ApplicationContext)
 * that it runs in.
 *
 * @author Juergen Hoeller
 * @author Chris Beams

```

```

* @since 1.1.1
* @see ApplicationContextAware
*/
public interface ApplicationEventPublisherAware extends Aware {

    /**
     * Set the ApplicationEventPublisher that this object runs in.
     * <p>Invoked after population of normal bean properties but before an init
     * callback like InitializingBean's afterPropertiesSet or a custom init-method.
     * Invoked before ApplicationContextAware's setApplicationContext.
     * @param applicationEventPublisher event publisher to be used by this object
     */
    void setApplicationEventPublisher(ApplicationEventPublisher applicationEventPublisher);

}

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 */

package org.springframework.context;

import java.io.Closeable;

import org.springframework.beans.BeansException;
import org.springframework.beans.factory.config.BeanFactoryPostProcessor;
import org.springframework.beans.factory.config.ConfigurableListableBeanFactory;
import org.springframework.core.env.ConfigurableEnvironment;
import org.springframework.core.env.Environment;

/**
 * SPI interface to be implemented by most if not all application contexts.
 * Provides facilities to configure an application context in addition
 * to the application context client methods in the
 * {@link org.springframework.context.ApplicationContext} interface.
 *
 * <p>Configuration and lifecycle methods are encapsulated here to avoid

```

```

* making them obvious to ApplicationContext client code. The present
* methods should only be used by startup and shutdown code.
*
* @author Juergen Hoeller
* @author Chris Beams
* @since 03.11.2003
*/
public interface ConfigurableApplicationContext extends ApplicationContext, Lifecycle, Closeable {

    /**
     * Any number of these characters are considered delimiters between
     * multiple context config paths in a single String value.
     * @see org.springframework.context.support.AbstractXmlApplicationContext#setConfigLocation
     * @see org.springframework.web.context.ContextLoader#CONFIG_LOCATION_PARAM
     * @see org.springframework.web.servlet.FrameworkServlet#setContextConfigLocation
     */
    String CONFIG_LOCATION_DELIMITERS = ",;\t\n";

    /**
     * Name of the ConversionService bean in the factory.
     * If none is supplied, default conversion rules apply.
     * @see org.springframework.core.convert.ConversionService
     */
    String CONVERSION_SERVICE_BEAN_NAME = "conversionService";

    /**
     * Name of the LoadTimeWeaver bean in the factory. If such a bean is supplied,
     * the context will use a temporary ClassLoader for type matching, in order
     * to allow the LoadTimeWeaver to process all actual bean classes.
     * @see org.springframework.instrument.classloading.LoadTimeWeaver
     */
    String LOAD_TIME_WEAVER_BEAN_NAME = "loadTimeWeaver";

    /**
     * Name of the { @link Environment } bean in the factory.
     */
    String ENVIRONMENT_BEAN_NAME = "environment";

    /**
     * Name of the System properties bean in the factory.
     * @see java.lang.System#getProperties()
     */
    String SYSTEM_PROPERTIES_BEAN_NAME = "systemProperties";

    /**
     * Name of the System environment bean in the factory.
     * @see java.lang.System#getenv()
     */

```

```

String SYSTEM_ENVIRONMENT_BEAN_NAME = "systemEnvironment";

/**
 * Set the unique id of this application context.
 */
void setId(String id);

/**
 * Set the parent of this application context.
 * <p>Note that the parent shouldn't be changed: It should only be set outside
 * a constructor if it isn't available when an object of this class is created,
 * for example in case of WebApplicationContext setup.
 * @param parent the parent context
 * @see org.springframework.web.context.ConfigurableWebApplicationContext
 */
void setParent(ApplicationContext parent);

/**
 * Return the Environment for this application context in configurable form.
 */
@Override
ConfigurableEnvironment getEnvironment();

/**
 * Set the {@code Environment} for this application context.
 * @param environment the new environment
 */
void setEnvironment(ConfigurableEnvironment environment);

/**
 * Add a new BeanFactoryPostProcessor that will get applied to the internal
 * bean factory of this application context on refresh, before any of the
 * bean definitions get evaluated. To be invoked during context configuration.
 * @param beanFactoryPostProcessor the factory processor to register
 */
void addBeanFactoryPostProcessor(BeanFactoryPostProcessor beanFactoryPostProcessor);

/**
 * Add a new ApplicationListener that will be notified on context events
 * such as context refresh and context shutdown.
 * <p>Note that any ApplicationListener registered here will be applied
 * on refresh if the context is not active yet, or on the fly with the
 * current event multicaster in case of a context that is already active.
 * @param listener the ApplicationListener to register
 * @see org.springframework.context.event.ContextRefreshedEvent
 * @see org.springframework.context.event.ContextClosedEvent
 */

```

```

void addApplicationListener(ApplicationListener<?> listener);

/**
 * Load or refresh the persistent representation of the configuration,
 * which might an XML file, properties file, or relational database schema.
 * <p>As this is a startup method, it should destroy already created singletons
 * if it fails, to avoid dangling resources. In other words, after invocation
 * of that method, either all or no singletons at all should be instantiated.
 * @throws BeansException if the bean factory could not be initialized
 * @throws IllegalStateException if already initialized and multiple refresh
 * attempts are not supported
 */
void refresh() throws BeansException, IllegalStateException;

/**
 * Register a shutdown hook with the JVM runtime, closing this context
 * on JVM shutdown unless it has already been closed at that time.
 * <p>This method can be called multiple times. Only one shutdown hook
 * (at max) will be registered for each context instance.
 * @see java.lang.Runtime#addShutdownHook
 * @see #close()
 */
void registerShutdownHook();

/**
 * Close this application context, releasing all resources and locks that the
 * implementation might hold. This includes destroying all cached singleton beans.
 * <p>Note: Does <i>not</i> invoke { @code close } on a parent context;
 * parent contexts have their own, independent lifecycle.
 * <p>This method can be called multiple times without side effects: Subsequent
 * { @code close } calls on an already closed context will be ignored.
 */
@Override
void close();

/**
 * Determine whether this application context is active, that is,
 * whether it has been refreshed at least once and has not been closed yet.
 * @return whether the context is still active
 * @see #refresh()
 * @see #close()
 * @see #getBeanFactory()
 */
boolean isActive();

/**
 * Return the internal bean factory of this application context.
 * Can be used to access specific functionality of the underlying factory.

```



```

* <p>Note: Do not use this to post-process the bean factory; singletons
* will already have been instantiated before. Use a BeanFactoryPostProcessor
* to intercept the BeanFactory setup process before beans get touched.
* <p>Generally, this internal factory will only be accessible while the context
* is active, that is, inbetween { @link #refresh()} and { @link #close()}.
* The { @link #isActive()} flag can be used to check whether the context
* is in an appropriate state.
* @return the underlying bean factory
* @throws IllegalStateException if the context does not hold an internal
* bean factory (usually if { @link #refresh()} hasn't been called yet or
* if { @link #close()} has already been called)
* @see #isActive()
* @see #refresh()
* @see #close()
* @see #addBeanFactoryPostProcessor
*/
ConfigurableListableBeanFactory getBeanFactory() throws IllegalStateException;

}
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* limitations under the License.
*/

package org.springframework.context;

import java.util.EventObject;

/**
* Class to be extended by all application events. Abstract as it
* doesn't make sense for generic events to be published directly.
*
* @author Rod Johnson
* @author Juergen Hoeller
*/
public abstract class ApplicationEvent extends EventObject {

```

```

/** use serialVersionUID from Spring 1.2 for interoperability */
private static final long serialVersionUID = 7099057708183571937L;

/** System time when the event happened */
private final long timestamp;

/**
 * Create a new ApplicationEvent.
 * @param source the component that published the event (never {@code null})
 */
public ApplicationEvent(Object source) {
    super(source);
    this.timestamp = System.currentTimeMillis();
}

/**
 * Return the system time in milliseconds when the event happened.
 */
public final long getTimestamp() {
    return this.timestamp;
}
}

/**
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 * limitations under the License.
 */

package org.springframework.context;

/**
 * Callback interface for initializing a Spring {@link ConfigurableApplicationContext}
 * prior to being {@link ConfigurableApplicationContext#refresh() refreshed}.
 *
 * <p>Typically used within web applications that require some programmatic initialization

```

```

* of the application context. For example, registering property sources or activating
* profiles against the {@link ConfigurableApplicationContext#getEnvironment()
* context's environment}. See {@code ContextLoader} and {@code FrameworkServlet} support
* for declaring a "contextInitializerClasses" context-param and init-param, respectively.
*
* <p>{@code ApplicationContextInitializer} processors are encouraged to detect
* whether Spring's {@link org.springframework.core.Ordered Ordered} interface has been
* implemented or if the @ {@link org.springframework.core.annotation.Order Order}
* annotation is present and to sort instances accordingly if so prior to invocation.
*
* @author Chris Beams
* @since 3.1
* @see org.springframework.web.context.ContextLoader#customizeContext
* @see org.springframework.web.context.ContextLoader#CONTEXT_INITIALIZER_CLASSES_PARAM
* @see org.springframework.web.servlet.FrameworkServlet#setContextInitializerClasses
* @see org.springframework.web.servlet.FrameworkServlet#applyInitializers
*/
public interface ApplicationContextInitializer<C extends ConfigurableApplicationContext> {

    /**
     * Initialize the given application context.
     * @param applicationContext the application to configure
     */
    void initialize(C applicationContext);

}
/*
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*/

package org.springframework.context;

import org.springframework.beans.FatalBeanException;

/**
 * Exception thrown during application context initialization.

```

```

*
* @author Rod Johnson
*/
@SuppressWarnings("serial")
public class ApplicationContextException extends FatalBeanException {

    /**
     * Create a new { @code ApplicationContextException }
     * with the specified detail message and no root cause.
     * @param msg the detail message
     */
    public ApplicationContextException(String msg) {
        super(msg);
    }

    /**
     * Create a new { @code ApplicationContextException }
     * with the specified detail message and the given root cause.
     * @param msg the detail message
     * @param cause the root cause
     */
    public ApplicationContextException(String msg, Throwable cause) {
        super(msg, cause);
    }

}

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 */

package org.springframework.context;

import org.springframework.beans.BeansException;
import org.springframework.beans.factory.Aware;

/**

```

- * Interface to be implemented by any object that wishes to be notified
- * of the { @link ApplicationContext } that it runs in.
- *
- * <p>Implementing this interface makes sense for example when an object
- * requires access to a set of collaborating beans. Note that configuration
- * via bean references is preferable to implementing this interface just
- * for bean lookup purposes.
- *
- * <p>This interface can also be implemented if an object needs access to file
- * resources, i.e. wants to call { @code getResource }, wants to publish
- * an application event, or requires access to the MessageSource. However,
- * it is preferable to implement the more specific { @link ResourceLoaderAware },
- * { @link ApplicationEventPublisherAware } or { @link MessageSourceAware } interface
- * in such a specific scenario.
- *
- * <p>Note that file resource dependencies can also be exposed as bean properties
- * of type { @link org.springframework.core.io.Resource }, populated via Strings
- * with automatic type conversion by the bean factory. This removes the need
- * for implementing any callback interface just for the purpose of accessing
- * a specific file resource.
- *
- * <p>{ @link org.springframework.context.support.ApplicationObjectSupport } is a
- * convenience base class for application objects, implementing this interface.
- *
- * <p>For a list of all bean lifecycle methods, see the
- * { @link org.springframework.beans.factory.BeanFactory BeanFactory javadocs }.
- *
- * @author Rod Johnson
- * @author Juergen Hoeller
- * @author Chris Beams
- * @see ResourceLoaderAware
- * @see ApplicationEventPublisherAware
- * @see MessageSourceAware
- * @see org.springframework.context.support.ApplicationObjectSupport
- * @see org.springframework.beans.factory.BeanFactoryAware

```
public interface ApplicationContextAware extends Aware {
```

```
/**
```

- * Set the ApplicationContext that this object runs in.
- * Normally this call will be used to initialize the object.
- * <p>Invoked after population of normal bean properties but before an init callback such
- * as { @link org.springframework.beans.factory.InitializingBean#afterPropertiesSet() }
- * or a custom init-method. Invoked after { @link ResourceLoaderAware#setResourceLoader },
- * { @link ApplicationEventPublisherAware#setApplicationEventPublisher } and
- * { @link MessageSourceAware }, if applicable.
- * @param applicationContext the ApplicationContext object to be used by this object
- * @throws ApplicationContextException in case of context initialization errors

```

* @throws BeansException if thrown by application context methods
* @see org.springframework.beans.factory.BeanInitializationException
*/
void setApplicationContext(ApplicationContext applicationContext) throws BeansException;

}
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* limitations under the License.
*/

package org.springframework.context.annotation;

/**
* Marker subclass of {@link IllegalStateException}, allowing for explicit
* catch clauses in calling code.
*
* @author Chris Beams
* @since 3.1
*/
@SuppressWarnings("serial")
class ConflictingBeanDefinitionException extends IllegalStateException {

    public ConflictingBeanDefinitionException(String message) {
        super(message);
    }

}

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- */

```
package org.springframework.context.annotation;
```

```
import org.springframework.beans.factory.support.BeanNameGenerator;
import org.springframework.beans.factory.support.DefaultListableBeanFactory;
import org.springframework.context.support.GenericApplicationContext;
import org.springframework.core.env.ConfigurableEnvironment;
import org.springframework.util.Assert;
```

```
/**
```

```
* Standalone application context, accepting annotated classes as input - in particular
* { @link Configuration @Configuration}-annotated classes, but also plain
* { @link org.springframework.stereotype.Component @Component} types and JSR-330 compliant
* classes using { @code javax.inject} annotations. Allows for registering classes one by
* one using { @link #register(Class...)} as well as for classpath scanning using
* { @link #scan(String...)}.
```

```
*
```

```
* <p>In case of multiple { @code @Configuration} classes, @ { @link Bean} methods defined in
* later classes will override those defined in earlier classes. This can be leveraged to
* deliberately override certain bean definitions via an extra { @code @Configuration}
* class.
```

```
*
```

```
* <p>See @ { @link Configuration} Javadoc for usage examples.
```

```
*
```

```
* @author Chris Beams
```

```
* @author Juergen Hoeller
```

```
* @since 3.0
```

```
* @see #register
```

```
* @see #scan
```

```
* @see AnnotatedBeanDefinitionReader
```

```
* @see ClassPathBeanDefinitionScanner
```

```
* @see org.springframework.context.support.GenericXmlApplicationContext
```

```
*/
```

```
public class AnnotationConfigApplicationContext extends GenericApplicationContext implements
AnnotationConfigRegistry {
```

```
    private final AnnotatedBeanDefinitionReader reader;
```

```
    private final ClassPathBeanDefinitionScanner scanner;
```

```
/**
```

```

* Create a new AnnotationConfigApplicationContext that needs to be populated
* through { @link #register } calls and then manually { @linkplain #refresh refreshed}.
*/
public AnnotationConfigApplicationContext() {
    this.reader = new AnnotatedBeanDefinitionReader(this);
    this.scanner = new ClassPathBeanDefinitionScanner(this);
}

/**
 * Create a new AnnotationConfigApplicationContext with the given DefaultListableBeanFactory.
 * @param beanFactory the DefaultListableBeanFactory instance to use for this context
 */
public AnnotationConfigApplicationContext(DefaultListableBeanFactory beanFactory) {
    super(beanFactory);
    this.reader = new AnnotatedBeanDefinitionReader(this);
    this.scanner = new ClassPathBeanDefinitionScanner(this);
}

/**
 * Create a new AnnotationConfigApplicationContext, deriving bean definitions
 * from the given annotated classes and automatically refreshing the context.
 * @param annotatedClasses one or more annotated classes,
 * e.g. { @link Configuration @Configuration } classes
 */
public AnnotationConfigApplicationContext(Class<?>... annotatedClasses) {
    this();
    register(annotatedClasses);
    refresh();
}

/**
 * Create a new AnnotationConfigApplicationContext, scanning for bean definitions
 * in the given packages and automatically refreshing the context.
 * @param basePackages the packages to check for annotated classes
 */
public AnnotationConfigApplicationContext(String... basePackages) {
    this();
    scan(basePackages);
    refresh();
}

/**
 * { @inheritDoc }
 * <p>Delegates given environment to underlying { @link AnnotatedBeanDefinitionReader }
 * and { @link ClassPathBeanDefinitionScanner } members.
 */
@Override

```



```

public void setEnvironment(ConfigurableEnvironment environment) {
    super.setEnvironment(environment);
    this.reader.setEnvironment(environment);
    this.scanner.setEnvironment(environment);
}

/**
 * Provide a custom { @link BeanNameGenerator} for use with { @link AnnotatedBeanDefinitionReader}
 * and/or { @link ClassPathBeanDefinitionScanner}, if any.
 * <p>Default is { @link org.springframework.context.annotation.AnnotationBeanNameGenerator}.
 * <p>Any call to this method must occur prior to calls to { @link #register(Class...)}
 * and/or { @link #scan(String...)}.
 * @see AnnotatedBeanDefinitionReader#setBeanNameGenerator
 * @see ClassPathBeanDefinitionScanner#setBeanNameGenerator
 */
public void setBeanNameGenerator(BeanNameGenerator beanNameGenerator) {
    this.reader.setBeanNameGenerator(beanNameGenerator);
    this.scanner.setBeanNameGenerator(beanNameGenerator);
    getBeanFactory().registerSingleton(
        AnnotationConfigUtils.CONFIGURATION_BEAN_NAME_GENERATOR, beanNameGenerator);
}

/**
 * Set the { @link ScopeMetadataResolver} to use for detected bean classes.
 * <p>The default is an { @link AnnotationScopeMetadataResolver}.
 * <p>Any call to this method must occur prior to calls to { @link #register(Class...)}
 * and/or { @link #scan(String...)}.
 */
public void setScopeMetadataResolver(ScopeMetadataResolver scopeMetadataResolver) {
    this.reader.setScopeMetadataResolver(scopeMetadataResolver);
    this.scanner.setScopeMetadataResolver(scopeMetadataResolver);
}

/**
 * Register one or more annotated classes to be processed.
 * <p>Note that { @link #refresh()} must be called in order for the context
 * to fully process the new classes.
 * @param annotatedClasses one or more annotated classes,
 * e.g. { @link Configuration @Configuration} classes
 * @see #scan(String...)
 * @see #refresh()
 */
public void register(Class<?>... annotatedClasses) {
    Assert.notEmpty(annotatedClasses, "At least one annotated class must be specified");
    this.reader.register(annotatedClasses);
}

```

```

/**
 * Perform a scan within the specified base packages.
 * <p>Note that { @link #refresh()} must be called in order for the context
 * to fully process the new classes.
 * @param basePackages the packages to check for annotated classes
 * @see #register(Class...)
 * @see #refresh()
 */
public void scan(String... basePackages) {
    Assert.notEmpty(basePackages, "At least one base package must be specified");
    this.scanner.scan(basePackages);
}

@Override
protected void prepareRefresh() {
    this.scanner.clearCache();
    super.prepareRefresh();
}

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

package org.springframework.context.i18n;

import java.util.Locale;

/**
 * Simple implementation of the { @link LocaleContext } interface,
 * always returning a specified { @code Locale }.
 *
 * @author Juergen Hoeller
 * @since 1.2
 * @see LocaleContextHolder#setLocaleContext

```

```

* @see LocaleContextHolder#getLocale()
* @see SimpleTimeZoneAwareLocaleContext
*/
public class SimpleLocaleContext implements LocaleContext {

    private final Locale locale;

    /**
     * Create a new SimpleLocaleContext that exposes the specified Locale.
     * Every {@link #getLocale()} call will return this Locale.
     * @param locale the Locale to expose
     */
    public SimpleLocaleContext(Locale locale) {
        this.locale = locale;
    }

    @Override
    public Locale getLocale() {
        return this.locale;
    }

    @Override
    public String toString() {
        return (this.locale != null ? this.locale.toString() : "-");
    }

}

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* limitations under the License.
*/

package org.springframework.context.i18n;

import java.util.Locale;
import java.util.TimeZone;

```

```

/**
 * Simple implementation of the { @link TimeZoneAwareLocaleContext } interface,
 * always returning a specified { @code Locale } and { @code TimeZone }.
 *
 * <p>Note: Prefer the use of { @link SimpleLocaleContext } when only setting
 * a Locale but no TimeZone.
 *
 * @author Juergen Hoeller
 * @author Nicholas Williams
 * @since 4.0
 * @see LocaleContextHolder#setLocaleContext
 * @see LocaleContextHolder#getTimeZone()
 */
public class SimpleTimeZoneAwareLocaleContext extends SimpleLocaleContext implements
TimeZoneAwareLocaleContext {

    private final TimeZone timeZone;

    /**
     * Create a new SimpleTimeZoneAwareLocaleContext that exposes the specified
     * Locale and TimeZone. Every { @link #getLocale() } call will return the given
     * Locale, and every { @link #getTimeZone() } call will return the given TimeZone.
     * @param locale the Locale to expose
     * @param timeZone the TimeZone to expose
     */
    public SimpleTimeZoneAwareLocaleContext(Locale locale, TimeZone timeZone) {
        super(locale);
        this.timeZone = timeZone;
    }

    public TimeZone getTimeZone() {
        return this.timeZone;
    }

    @Override
    public String toString() {
        return super.toString() + " " + (this.timeZone != null ? this.timeZone.toString() : "-");
    }

}
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- */

```
package org.springframework.context.event;
```

```
import org.springframework.aop.support.AopUtils;
import org.springframework.context.ApplicationEvent;
import org.springframework.context.ApplicationListener;
import org.springframework.core.GenericTypeResolver;
import org.springframework.core.Ordered;
import org.springframework.util.Assert;
```

```
/**
```

```
* {@link SmartApplicationListener} adapter that determines supported event types
* through introspecting the generically declared type of the target listener.
```

```
*
```

```
* @author Juergen Hoeller
```

```
* @since 3.0
```

```
* @see org.springframework.context.ApplicationListener#onApplicationEvent
```

```
*/
```

```
public class GenericApplicationListenerAdapter implements SmartApplicationListener {
```

```
    private final ApplicationListener<ApplicationEvent> delegate;
```

```
/**
```

```
* Create a new GenericApplicationListener for the given delegate.
```

```
* @param delegate the delegate listener to be invoked
```

```
*/
```

```
@SuppressWarnings("unchecked")
```

```
public GenericApplicationListenerAdapter(ApplicationListener<?> delegate) {
```

```
    Assert.notNull(delegate, "Delegate listener must not be null");
```

```
    this.delegate = (ApplicationListener<ApplicationEvent>) delegate;
```

```
}
```

```
@Override
```

```
public void onApplicationEvent(ApplicationEvent event) {
```

```
    this.delegate.onApplicationEvent(event);
```

```
}
```

```

@Override
public boolean supportsEventType(Class<? extends ApplicationEvent> eventType) {
    Class<?> declaredEventType = resolveDeclaredEventType(this.delegate.getClass());
    if (declaredEventType == null || declaredEventType.equals(ApplicationEvent.class)) {
        Class<?> targetClass = AopUtils.getTargetClass(this.delegate);
        if (targetClass != this.delegate.getClass()) {
            declaredEventType = resolveDeclaredEventType(targetClass);
        }
    }
    return (declaredEventType == null || declaredEventType.isAssignableFrom(eventType));
}

@Override
public boolean supportsSourceType(Class<?> sourceType) {
    return true;
}

@Override
public int getOrder() {
    return (this.delegate instanceof Ordered ? ((Ordered) this.delegate).getOrder() :
Ordered.LOWEST_PRECEDENCE);
}

static Class<?> resolveDeclaredEventType(Class<?> listenerType) {
    return GenericTypeResolver.resolveTypeArgument(listenerType, ApplicationListener.class);
}

}
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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.springframework.context.event;

```

```

import java.util.Collection;
import java.util.LinkedHashSet;
import java.util.LinkedList;
import java.util.Map;
import java.util.Set;
import java.util.concurrent.ConcurrentHashMap;

import org.springframework.beans.factory.BeanClassLoaderAware;
import org.springframework.beans.factory.BeanFactory;
import org.springframework.beans.factory.BeanFactoryAware;
import org.springframework.beans.factory.NoSuchBeanDefinitionException;
import org.springframework.beans.factory.config.ConfigurableBeanFactory;
import org.springframework.context.ApplicationEvent;
import org.springframework.context.ApplicationListener;
import org.springframework.core.OrderComparator;
import org.springframework.util.ClassUtils;
import org.springframework.util.ObjectUtils;

/**
 * Abstract implementation of the {@link ApplicationEventMulticaster} interface,
 * providing the basic listener registration facility.
 *
 *
 * <p>Doesn't permit multiple instances of the same listener by default,
 * as it keeps listeners in a linked Set. The collection class used to hold
 * ApplicationListener objects can be overridden through the "collectionClass"
 * bean property.
 *
 *
 * <p>Implementing ApplicationEventMulticaster's actual {@link #multicastEvent} method
 * is left to subclasses. {@link SimpleApplicationEventMulticaster} simply multicasts
 * all events to all registered listeners, invoking them in the calling thread.
 * Alternative implementations could be more sophisticated in those respects.
 *
 *
 * @author Juergen Hoeller
 * @since 1.2.3
 * @see #getApplicationListeners(ApplicationEvent)
 * @see SimpleApplicationEventMulticaster
 */
public abstract class AbstractApplicationEventMulticaster
    implements ApplicationEventMulticaster, BeanClassLoaderAware, BeanFactoryAware {

    private final ListenerRetriever defaultRetriever = new ListenerRetriever(false);

    private final Map<ListenerCacheKey, ListenerRetriever> retrieverCache =
        new ConcurrentHashMap<ListenerCacheKey, ListenerRetriever>(64);

    private ClassLoader beanClassLoader;

    private BeanFactory beanFactory;

```

```
@Override
public void addApplicationListener(ApplicationListener<?> listener) {
    synchronized (this.defaultRetriever) {
        this.defaultRetriever.applicationListeners.add(listener);
        this.retrieverCache.clear();
    }
}
```

```
@Override
public void addApplicationListenerBean(String listenerBeanName) {
    synchronized (this.defaultRetriever) {
        this.defaultRetriever.applicationListenerBeans.add(listenerBeanName);
        this.retrieverCache.clear();
    }
}
```

```
@Override
public void removeApplicationListener(ApplicationListener<?> listener) {
    synchronized (this.defaultRetriever) {
        this.defaultRetriever.applicationListeners.remove(listener);
        this.retrieverCache.clear();
    }
}
```

```
@Override
public void removeApplicationListenerBean(String listenerBeanName) {
    synchronized (this.defaultRetriever) {
        this.defaultRetriever.applicationListenerBeans.remove(listenerBeanName);
        this.retrieverCache.clear();
    }
}
```

```
@Override
public void removeAllListeners() {
    synchronized (this.defaultRetriever) {
        this.defaultRetriever.applicationListeners.clear();
        this.defaultRetriever.applicationListenerBeans.clear();
        this.retrieverCache.clear();
    }
}
```

```
@Override
public void setBeanClassLoader(ClassLoader classLoader) {
    this.beanClassLoader = classLoader;
}
```



```

@Override
public void setBeanFactory(BeanFactory beanFactory) {
    this.beanFactory = beanFactory;
    if (this.beanClassLoader == null && beanFactory instanceof ConfigurableBeanFactory) {
        this.beanClassLoader = ((ConfigurableBeanFactory) beanFactory).getBeanClassLoader();
    }
}

private BeanFactory getBeanFactory() {
    if (this.beanFactory == null) {
        throw new IllegalStateException("ApplicationEventMulticaster cannot retrieve listener beans " +
            "because it is not associated with a BeanFactory");
    }
    return this.beanFactory;
}

/**
 * Return a Collection containing all ApplicationListeners.
 * @return a Collection of ApplicationListeners
 * @see org.springframework.context.ApplicationListener
 */
protected Collection<ApplicationListener<?>> getApplicationListeners() {
    synchronized (this.defaultRetriever) {
        return this.defaultRetriever.getApplicationListeners();
    }
}

/**
 * Return a Collection of ApplicationListeners matching the given
 * event type. Non-matching listeners get excluded early.
 * @param event the event to be propagated. Allows for excluding
 * non-matching listeners early, based on cached matching information.
 * @return a Collection of ApplicationListeners
 * @see org.springframework.context.ApplicationListener
 */
protected Collection<ApplicationListener<?>> getApplicationListeners(ApplicationEvent event) {
    Class<? extends ApplicationEvent> eventType = event.getClass();
    Object source = event.getSource();
    Class<?> sourceType = (source != null ? source.getClass() : null);
    ListenerCacheKey cacheKey = new ListenerCacheKey(eventType, sourceType);
    ListenerRetriever retriever = this.retrieverCache.get(cacheKey);
    if (retriever != null) {
        return retriever.getApplicationListeners();
    }
    else {
        retriever = new ListenerRetriever(true);
        LinkedList<ApplicationListener<?>> allListeners = new LinkedList<ApplicationListener<?>>();

```

```

Set<ApplicationListener<?>> listeners;
Set<String> listenerBeans;
synchronized (this.defaultRetriever) {
    listeners = new LinkedHashSet<ApplicationListener<?>>(this.defaultRetriever.applicationListeners);
    listenerBeans = new LinkedHashSet<String>(this.defaultRetriever.applicationListenerBeans);
}
for (ApplicationListener<?> listener : listeners) {
    if (supportsEvent(listener, eventType, sourceType)) {
        retriever.applicationListeners.add(listener);
        allListeners.add(listener);
    }
}
if (!listenerBeans.isEmpty()) {
    BeanFactory beanFactory = getBeanFactory();
    for (String listenerBeanName : listenerBeans) {
        try {
            Class<?> listenerType = beanFactory.getType(listenerBeanName);
            if (listenerType == null || supportsEvent(listenerType, event)) {
                ApplicationListener<?> listener =
                    beanFactory.getBean(listenerBeanName, ApplicationListener.class);
                if (!allListeners.contains(listener) && supportsEvent(listener, eventType, sourceType)) {
                    retriever.applicationListenerBeans.add(listenerBeanName);
                    allListeners.add(listener);
                }
            }
        }
        catch (NoSuchBeanDefinitionException ex) {
            // Singleton listener instance (without backing bean definition) disappeared -
            // probably in the middle of the destruction phase
        }
    }
}
OrderComparator.sort(allListeners);
if (this.beanClassLoader == null ||
    (ClassUtils.isCacheSafe(eventType, this.beanClassLoader) &&
    (sourceType == null || ClassUtils.isCacheSafe(sourceType, this.beanClassLoader)))) {
    this.retrieverCache.put(cacheKey, retriever);
}
return allListeners;
}
}

/**
 * Filter a listener early through checking its generically declared event
 * type before trying to instantiate it.
 * <p>If this method returns { @code true } for a given listener as a first pass,
 * the listener instance will get retrieved and fully evaluated through a
 * { @link #supportsEvent(ApplicationListener, Class, Class)} call afterwards.

```

```

* @param listenerType the listener's type as determined by the BeanFactory
* @param event the event to check
* @return whether the given listener should be included in the candidates
* for the given event type
*/
protected boolean supportsEvent(Class<?> listenerType, ApplicationEvent event) {
    if (SmartApplicationListener.class.isAssignableFrom(listenerType)) {
        return true;
    }
    Class<?> declaredEventType = GenericApplicationListenerAdapter.resolveDeclaredEventType(listenerType);
    return (declaredEventType == null || declaredEventType.isInstance(event));
}

/**
* Determine whether the given listener supports the given event.
* <p>The default implementation detects the { @link SmartApplicationListener }
* interface. In case of a standard { @link ApplicationListener }, a
* { @link GenericApplicationListenerAdapter } will be used to introspect
* the generically declared type of the target listener.
* @param listener the target listener to check
* @param eventType the event type to check against
* @param sourceType the source type to check against
* @return whether the given listener should be included in the candidates
* for the given event type
*/
protected boolean supportsEvent(ApplicationListener<?> listener,
    Class<? extends ApplicationEvent> eventType, Class<?> sourceType) {

    SmartApplicationListener smartListener = (listener instanceof SmartApplicationListener ?
        (SmartApplicationListener) listener : new GenericApplicationListenerAdapter(listener));
    return (smartListener.supportsEventType(eventType) && smartListener.supportsSourceType(sourceType));
}

/**
* Cache key for ListenerRetrievers, based on event type and source type.
*/
private static class ListenerCacheKey {

    private final Class<?> eventType;

    private final Class<?> sourceType;

    public ListenerCacheKey(Class<?> eventType, Class<?> sourceType) {
        this.eventType = eventType;
        this.sourceType = sourceType;
    }
}

```

```

@Override
public boolean equals(Object other) {
    if (this == other) {
        return true;
    }
    ListenerCacheKey otherKey = (ListenerCacheKey) other;
    return ObjectUtils.nullSafeEquals(this.eventType, otherKey.eventType) &&
        ObjectUtils.nullSafeEquals(this.sourceType, otherKey.sourceType);
}

@Override
public int hashCode() {
    return ObjectUtils.nullSafeHashCode(this.eventType) * 29 + ObjectUtils.nullSafeHashCode(this.sourceType);
}
}

/**
 * Helper class that encapsulates a specific set of target listeners,
 * allowing for efficient retrieval of pre-filtered listeners.
 * <p>An instance of this helper gets cached per event type and source type.
 */
private class ListenerRetriever {

    public final Set<ApplicationListener<?>> applicationListeners;

    public final Set<String> applicationListenerBeans;

    private final boolean preFiltered;

    public ListenerRetriever(boolean preFiltered) {
        this.applicationListeners = new LinkedHashSet<ApplicationListener<?>>();
        this.applicationListenerBeans = new LinkedHashSet<String>();
        this.preFiltered = preFiltered;
    }

    public Collection<ApplicationListener<?>> getApplicationListeners() {
        LinkedList<ApplicationListener<?>> allListeners = new LinkedList<ApplicationListener<?>>();
        for (ApplicationListener<?> listener : this.applicationListeners) {
            allListeners.add(listener);
        }
        if (!this.applicationListenerBeans.isEmpty()) {
            BeanFactory beanFactory = getBeanFactory();
            for (String listenerBeanName : this.applicationListenerBeans) {
                try {
                    ApplicationListener<?> listener = beanFactory.getBean(listenerBeanName, ApplicationListener.class);
                    if (this.preFiltered || !allListeners.contains(listener)) {
                        allListeners.add(listener);
                    }
                }
            }
        }
    }
}

```

```

    }
    }
    catch (NoSuchBeanDefinitionException ex) {
        // Singleton listener instance (without backing bean definition) disappeared -
        // probably in the middle of the destruction phase
    }
    }
    }
    OrderComparator.sort(allListeners);
    return allListeners;
    }
    }

}
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 * limitations under the License.
 */

package org.springframework.context.event;

import org.springframework.context.ApplicationEvent;
import org.springframework.context.ApplicationListener;
import org.springframework.core.Ordered;

/**
 * Extended variant of the standard {@link ApplicationListener} interface,
 * exposing further metadata such as the supported event type.
 *
 * @author Juergen Hoeller
 * @since 3.0
 */
public interface SmartApplicationListener extends ApplicationListener<ApplicationEvent>, Ordered {

    /**
     * Determine whether this listener actually supports the given event type.
     */

```

```

boolean supportsEventType(Class<? extends ApplicationEvent> eventType);

/**
 * Determine whether this listener actually supports the given source type.
 */
boolean supportsSourceType(Class<?> sourceType);

}
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 */

package org.springframework.context.event;

import java.util.concurrent.Executor;

import org.springframework.beans.factory.BeanFactory;
import org.springframework.context.ApplicationEvent;
import org.springframework.context.ApplicationListener;
import org.springframework.util.ErrorHandler;

/**
 * Simple implementation of the { @link ApplicationEventMulticaster } interface.
 *
 * <p>Multicasts all events to all registered listeners, leaving it up to
 * the listeners to ignore events that they are not interested in.
 * Listeners will usually perform corresponding { @code instanceof }
 * checks on the passed-in event object.
 *
 * <p>By default, all listeners are invoked in the calling thread.
 * This allows the danger of a rogue listener blocking the entire application,
 * but adds minimal overhead. Specify an alternative task executor to have
 * listeners executed in different threads, for example from a thread pool.
 *
 * @author Rod Johnson
 * @author Juergen Hoeller

```

```

* @see #setTaskExecutor
*/
public class SimpleApplicationEventMulticaster extends AbstractApplicationEventMulticaster {

    private Executor taskExecutor;

    private ErrorHandler errorHandler;

    /**
     * Create a new SimpleApplicationEventMulticaster.
     */
    public SimpleApplicationEventMulticaster() {
    }

    /**
     * Create a new SimpleApplicationEventMulticaster for the given BeanFactory.
     */
    public SimpleApplicationEventMulticaster(BeanFactory beanFactory) {
        setBeanFactory(beanFactory);
    }

    /**
     * Set a custom executor (typically a { @link org.springframework.core.task.TaskExecutor})
     * to invoke each listener with.
     * <p>Default is equivalent to { @link org.springframework.core.task.SyncTaskExecutor},
     * executing all listeners synchronously in the calling thread.
     * <p>Consider specifying an asynchronous task executor here to not block the
     * caller until all listeners have been executed. However, note that asynchronous
     * execution will not participate in the caller's thread context (class loader,
     * transaction association) unless the TaskExecutor explicitly supports this.
     * @see org.springframework.core.task.SyncTaskExecutor
     * @see org.springframework.core.task.SimpleAsyncTaskExecutor
     */
    public void setTaskExecutor(Executor taskExecutor) {
        this.taskExecutor = taskExecutor;
    }

    /**
     * Return the current task executor for this multicaster.
     */
    protected Executor getTaskExecutor() {
        return this.taskExecutor;
    }

    /**
     * Set the { @link ErrorHandler} to invoke in case an exception is thrown

```

```

* from a listener.
* <p>Default is none, with a listener exception stopping the current
* multicast and getting propagated to the publisher of the current event.
* If a { @linkplain #setTaskExecutor task executor } is specified, each
* individual listener exception will get propagated to the executor but
* won't necessarily stop execution of other listeners.
* <p>Consider setting an { @link ErrorHandler } implementation that catches
* and logs exceptions (a la
* { @link org.springframework.scheduling.support.TaskUtils#LOG_AND_SUPPRESS_ERROR_HANDLER })
* or an implementation that logs exceptions while nevertheless propagating them
* (e.g. { @link
org.springframework.scheduling.support.TaskUtils#LOG_AND_PROPAGATE_ERROR_HANDLER }).
* @since 4.1
*/
public void setErrorHandler(ErrorHandler errorHandler) {
    this.errorHandler = errorHandler;
}

/**
 * Return the current error handler for this multicaster.
 * @since 4.1
 */
protected ErrorHandler getErrorHandler() {
    return this.errorHandler;
}

@Override
public void multicastEvent(final ApplicationEvent event) {
    for (final ApplicationListener<?> listener : getApplicationListeners(event)) {
        Executor executor = getTaskExecutor();
        if (executor != null) {
            executor.execute(new Runnable() {
                @Override
                public void run() {
                    invokeListener(listener, event);
                }
            });
        }
        else {
            invokeListener(listener, event);
        }
    }
}

/**
 * Invoke the given listener with the given event.
 * @param listener the ApplicationListener to invoke

```



```

* @param event the current event to propagate
* @since 4.1
*/
@SuppressWarnings({"unchecked", "rawtypes"})
protected void invokeListener(ApplicationListener listener, ApplicationEvent event) {
    ErrorHandler errorHandler = getErrorHandler();
    if (errorHandler != null) {
        try {
            listener.onApplicationEvent(event);
        }
        catch (Throwable err) {
            errorHandler.handleError(err);
        }
    }
    else {
        listener.onApplicationEvent(event);
    }
}

}
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* limitations under the License.
*/

package org.springframework.context.event;

import org.springframework.context.ApplicationContext;
import org.springframework.context.ApplicationEvent;

/**
* Base class for events raised for an {@code ApplicationContext}.
*
* @author Juergen Hoeller
* @since 2.5
*/
@SuppressWarnings("serial")

```

```

public abstract class ApplicationContextEvent extends ApplicationEvent {

    /**
     * Create a new ContextStartedEvent.
     * @param source the {@code ApplicationContext} that the event is raised for
     * (must not be {@code null})
     */
    public ApplicationContextEvent(ApplicationContext source) {
        super(source);
    }

    /**
     * Get the {@code ApplicationContext} that the event was raised for.
     */
    public final ApplicationContext getApplicationContext() {
        return (ApplicationContext) getSource();
    }

}

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 * limitations under the License.
 */

package org.springframework.context.event;

import org.springframework.context.ApplicationEvent;
import org.springframework.context.ApplicationListener;

/**
 * Interface to be implemented by objects that can manage a number of
 * {@link ApplicationListener} objects, and publish events to them.
 *
 * <p>An {@link org.springframework.context.ApplicationEventPublisher}, typically
 * a Spring {@link org.springframework.context.ApplicationContext}, can use an
 * ApplicationEventMulticaster as a delegate for actually publishing events.
 *
 */

```

```

* @author Rod Johnson
* @author Juergen Hoeller
*/
public interface ApplicationEventMulticaster {

    /**
     * Add a listener to be notified of all events.
     * @param listener the listener to add
     */
    void addApplicationListener(ApplicationListener<?> listener);

    /**
     * Add a listener bean to be notified of all events.
     * @param listenerBeanName the name of the listener bean to add
     */
    void addApplicationListenerBean(String listenerBeanName);

    /**
     * Remove a listener from the notification list.
     * @param listener the listener to remove
     */
    void removeApplicationListener(ApplicationListener<?> listener);

    /**
     * Remove a listener bean from the notification list.
     * @param listenerBeanName the name of the listener bean to add
     */
    void removeApplicationListenerBean(String listenerBeanName);

    /**
     * Remove all listeners registered with this multicaster.
     * <p>After a remove call, the multicaster will perform no action
     * on event notification until new listeners are being registered.
     */
    void removeAllListeners();

    /**
     * Multicast the given application event to appropriate listeners.
     * @param event the event to multicast
     */
    void multicastEvent(ApplicationEvent event);

}
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```

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 * limitations under the License.
 */

```
package org.springframework.context.event;
```

```
import java.lang.reflect.Constructor;
```

```
import org.aopalliance.intercept.MethodInterceptor;
```

```
import org.aopalliance.intercept.MethodInvocation;
```

```
import org.springframework.beans.factory.InitializingBean;
```

```
import org.springframework.context.ApplicationEvent;
```

```
import org.springframework.context.ApplicationEventPublisher;
```

```
import org.springframework.context.ApplicationEventPublisherAware;
```

```
/**
```

```
* { @link MethodInterceptor Interceptor} that publishes an  

  * { @code ApplicationEvent} to all { @code ApplicationListeners}  

  * registered with an { @code ApplicationEventPublisher} after each  

  * <i>successful</i> method invocation.  

  *
```

```
* <p>Note that this interceptor is only capable of publishing <i>stateless</i>  

  * events configured via the  

  * { @link #setApplicationEventClass "applicationEventClass"} property.  

  *
```

```
* @author Dmitriy Kopylenko
```

```
* @author Juergen Hoeller
```

```
* @author Rick Evans
```

```
* @see #setApplicationEventClass
```

```
* @see org.springframework.context.ApplicationEvent
```

```
* @see org.springframework.context.ApplicationListener
```

```
* @see org.springframework.context.ApplicationEventPublisher
```

```
* @see org.springframework.context.ApplicationContext
```

```
*/
```

```
public class EventPublicationInterceptor
```

```
    implements MethodInterceptor, ApplicationEventPublisherAware, InitializingBean {
```

```
    private Constructor<?> applicationEventClassConstructor;
```

```
    private ApplicationEventPublisher applicationEventPublisher;
```

```

/**
 * Set the application event class to publish.
 * <p>The event class <b>must</b> have a constructor with a single
 * { @code Object } argument for the event source. The interceptor
 * will pass in the invoked object.
 * @throws IllegalArgumentException if the supplied { @code Class } is
 * { @code null } or if it is not an { @code ApplicationEvent } subclass or
 * if it does not expose a constructor that takes a single { @code Object } argument
 */
public void setApplicationEventClass(Class<?> applicationEventClass) {
    if (ApplicationEvent.class.equals(applicationEventClass) ||
        !ApplicationEvent.class.isAssignableFrom(applicationEventClass)) {
        throw new IllegalArgumentException("applicationEventClass needs to extend ApplicationEvent");
    }
    try {
        this.applicationEventClassConstructor =
            applicationEventClass.getConstructor(new Class<?>[] { Object.class });
    }
    catch (NoSuchMethodException ex) {
        throw new IllegalArgumentException("applicationEventClass [" +
            applicationEventClass.getName() + "] does not have the required Object constructor: " + ex);
    }
}

@Override
public void setApplicationEventPublisher(ApplicationEventPublisher applicationEventPublisher) {
    this.applicationEventPublisher = applicationEventPublisher;
}

@Override
public void afterPropertiesSet() throws Exception {
    if (this.applicationEventClassConstructor == null) {
        throw new IllegalArgumentException("applicationEventClass is required");
    }
}

@Override
public Object invoke(MethodInvocation invocation) throws Throwable {
    Object retVal = invocation.proceed();

    ApplicationEvent event = (ApplicationEvent)
        this.applicationEventClassConstructor.newInstance(new Object[] { invocation.getThis() });
    this.applicationEventPublisher.publishEvent(event);

    return retVal;
}

```

```

}

}
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 */

package org.springframework.context.support;

import java.io.IOException;

import org.springframework.beans.BeansException;
import org.springframework.beans.factory.support.DefaultListableBeanFactory;
import org.springframework.beans.factory.xml.ResourceEntityResolver;
import org.springframework.beans.factory.xml.XmlBeanDefinitionReader;
import org.springframework.context.ApplicationContext;
import org.springframework.core.io.Resource;

/**
 * Convenient base class for {@link org.springframework.context.ApplicationContext}
 * implementations, drawing configuration from XML documents containing bean definitions
 * understood by an {@link org.springframework.beans.factory.xml.XmlBeanDefinitionReader}.
 *
 * <p>Subclasses just have to implement the {@link #getConfigResources} and/or
 * the {@link #getConfigLocations} method. Furthermore, they might override
 * the {@link #getResourceByPath} hook to interpret relative paths in an
 * environment-specific fashion, and/or {@link #getResourcePatternResolver}
 * for extended pattern resolution.
 *
 * @author Rod Johnson
 * @author Juergen Hoeller
 * @see #getConfigResources
 * @see #getConfigLocations
 * @see org.springframework.beans.factory.xml.XmlBeanDefinitionReader
 */
public abstract class AbstractXmlApplicationContext extends AbstractRefreshableConfigApplicationContext {

```

```

private boolean validating = true;

/**
 * Create a new AbstractXmlApplicationContext with no parent.
 */
public AbstractXmlApplicationContext() {
}

/**
 * Create a new AbstractXmlApplicationContext with the given parent context.
 * @param parent the parent context
 */
public AbstractXmlApplicationContext(ApplicationContext parent) {
    super(parent);
}

/**
 * Set whether to use XML validation. Default is { @code true}.
 */
public void setValidating(boolean validating) {
    this.validating = validating;
}

/**
 * Loads the bean definitions via an XmlBeanDefinitionReader.
 * @see org.springframework.beans.factory.xml.XmlBeanDefinitionReader
 * @see #initBeanDefinitionReader
 * @see #loadBeanDefinitions
 */
@Override
protected void loadBeanDefinitions(DefaultListableBeanFactory beanFactory) throws BeansException, IOException
{
    // Create a new XmlBeanDefinitionReader for the given BeanFactory.
    XmlBeanDefinitionReader beanDefinitionReader = new XmlBeanDefinitionReader(beanFactory);

    // Configure the bean definition reader with this context's
    // resource loading environment.
    beanDefinitionReader.setEnvironment(this.getEnvironment());
    beanDefinitionReader.setResourceLoader(this);
    beanDefinitionReader.setEntityResolver(new ResourceEntityResolver(this));

    // Allow a subclass to provide custom initialization of the reader,
    // then proceed with actually loading the bean definitions.
    initBeanDefinitionReader(beanDefinitionReader);
}

```

```

loadBeanDefinitions(beanDefinitionReader);
}

/**
 * Initialize the bean definition reader used for loading the bean
 * definitions of this context. Default implementation is empty.
 * <p>Can be overridden in subclasses, e.g. for turning off XML validation
 * or using a different XmlBeanDefinitionParser implementation.
 * @param reader the bean definition reader used by this context
 * @see org.springframework.beans.factory.xml.XmlBeanDefinitionReader#setDocumentReaderClass
 */
protected void initBeanDefinitionReader(XmlBeanDefinitionReader reader) {
    reader.setValidating(this.validating);
}

/**
 * Load the bean definitions with the given XmlBeanDefinitionReader.
 * <p>The lifecycle of the bean factory is handled by the {@link #refreshBeanFactory}
 * method; hence this method is just supposed to load and/or register bean definitions.
 * @param reader the XmlBeanDefinitionReader to use
 * @throws BeansException in case of bean registration errors
 * @throws IOException if the required XML document isn't found
 * @see #refreshBeanFactory
 * @see #getConfigLocations
 * @see #getResources
 * @see #getResourcePatternResolver
 */
protected void loadBeanDefinitions(XmlBeanDefinitionReader reader) throws BeansException, IOException {
    Resource[] configResources = getConfigResources();
    if (configResources != null) {
        reader.loadBeanDefinitions(configResources);
    }
    String[] configLocations = getConfigLocations();
    if (configLocations != null) {
        reader.loadBeanDefinitions(configLocations);
    }
}

/**
 * Return an array of Resource objects, referring to the XML bean definition
 * files that this context should be built with.
 * <p>The default implementation returns {@code null}. Subclasses can override
 * this to provide pre-built Resource objects rather than location Strings.
 * @return an array of Resource objects, or {@code null} if none
 * @see #getConfigLocations()
 */
protected Resource[] getConfigResources() {
    return null;
}

```



```

}

}
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 */

package org.springframework.context.support;

import org.springframework.beans.BeansException;
import org.springframework.context.ApplicationContext;
import org.springframework.core.io.ClassPathResource;
import org.springframework.core.io.Resource;
import org.springframework.util.Assert;

/**
 * Standalone XML application context, taking the context definition files
 * from the class path, interpreting plain paths as class path resource names
 * that include the package path (e.g. "mypackage/myresource.txt"). Useful for
 * test harnesses as well as for application contexts embedded within JARs.
 *
 * <p>The config location defaults can be overridden via { @link #getConfigLocations },
 * Config locations can either denote concrete files like "/myfiles/context.xml"
 * or Ant-style patterns like "/myfiles/*-context.xml" (see the
 * { @link org.springframework.util.AntPathMatcher } javadoc for pattern details).
 *
 * <p>Note: In case of multiple config locations, later bean definitions will
 * override ones defined in earlier loaded files. This can be leveraged to
 * deliberately override certain bean definitions via an extra XML file.
 *
 * <p><b>This is a simple, one-stop shop convenience ApplicationContext.
 * Consider using the { @link GenericApplicationContext } class in combination
 * with an { @link org.springframework.beans.factory.xml.XmlBeanDefinitionReader }
 * for more flexible context setup.</b>
 *
 * @author Rod Johnson

```

```

* @author Juergen Hoeller
* @see #getResource
* @see #getResourceByPath
* @see GenericApplicationContext
*/
public class ClassPathXmlApplicationContext extends AbstractXmlApplicationContext {

    private Resource[] configResources;

    /**
     * Create a new ClassPathXmlApplicationContext for bean-style configuration.
     * @see #setConfigLocation
     * @see #setConfigLocations
     * @see #afterPropertiesSet()
     */
    public ClassPathXmlApplicationContext() {
    }

    /**
     * Create a new ClassPathXmlApplicationContext for bean-style configuration.
     * @param parent the parent context
     * @see #setConfigLocation
     * @see #setConfigLocations
     * @see #afterPropertiesSet()
     */
    public ClassPathXmlApplicationContext(ApplicationContext parent) {
        super(parent);
    }

    /**
     * Create a new ClassPathXmlApplicationContext, loading the definitions
     * from the given XML file and automatically refreshing the context.
     * @param configLocation resource location
     * @throws BeansException if context creation failed
     */
    public ClassPathXmlApplicationContext(String configLocation) throws BeansException {
        this(new String[] { configLocation }, true, null);
    }

    /**
     * Create a new ClassPathXmlApplicationContext, loading the definitions
     * from the given XML files and automatically refreshing the context.
     * @param configLocations array of resource locations
     * @throws BeansException if context creation failed
     */
    public ClassPathXmlApplicationContext(String... configLocations) throws BeansException {
        this(configLocations, true, null);
    }

```

```

}

/**
 * Create a new ClassPathXmlApplicationContext with the given parent,
 * loading the definitions from the given XML files and automatically
 * refreshing the context.
 * @param configLocations array of resource locations
 * @param parent the parent context
 * @throws BeansException if context creation failed
 */
public ClassPathXmlApplicationContext(String[] configLocations, ApplicationContext parent) throws
BeansException {
    this(configLocations, true, parent);
}

/**
 * Create a new ClassPathXmlApplicationContext, loading the definitions
 * from the given XML files.
 * @param configLocations array of resource locations
 * @param refresh whether to automatically refresh the context,
 * loading all bean definitions and creating all singletons.
 * Alternatively, call refresh manually after further configuring the context.
 * @throws BeansException if context creation failed
 * @see #refresh()
 */
public ClassPathXmlApplicationContext(String[] configLocations, boolean refresh) throws BeansException {
    this(configLocations, refresh, null);
}

/**
 * Create a new ClassPathXmlApplicationContext with the given parent,
 * loading the definitions from the given XML files.
 * @param configLocations array of resource locations
 * @param refresh whether to automatically refresh the context,
 * loading all bean definitions and creating all singletons.
 * Alternatively, call refresh manually after further configuring the context.
 * @param parent the parent context
 * @throws BeansException if context creation failed
 * @see #refresh()
 */
public ClassPathXmlApplicationContext(String[] configLocations, boolean refresh, ApplicationContext parent)
throws BeansException {

    super(parent);
    setConfigLocations(configLocations);
    if (refresh) {
        refresh();
    }
}

```

```

}

/**
 * Create a new ClassPathXmlApplicationContext, loading the definitions
 * from the given XML file and automatically refreshing the context.
 * <p>This is a convenience method to load class path resources relative to a
 * given Class. For full flexibility, consider using a GenericApplicationContext
 * with an XmlBeanDefinitionReader and a ClassPathResource argument.
 * @param path relative (or absolute) path within the class path
 * @param clazz the class to load resources with (basis for the given paths)
 * @throws BeansException if context creation failed
 * @see org.springframework.core.io.ClassPathResource#ClassPathResource(String, Class)
 * @see org.springframework.context.support.GenericApplicationContext
 * @see org.springframework.beans.factory.xml.XmlBeanDefinitionReader
 */
public ClassPathXmlApplicationContext(String path, Class<?> clazz) throws BeansException {
    this(new String[] { path }, clazz);
}

/**
 * Create a new ClassPathXmlApplicationContext, loading the definitions
 * from the given XML files and automatically refreshing the context.
 * @param paths array of relative (or absolute) paths within the class path
 * @param clazz the class to load resources with (basis for the given paths)
 * @throws BeansException if context creation failed
 * @see org.springframework.core.io.ClassPathResource#ClassPathResource(String, Class)
 * @see org.springframework.context.support.GenericApplicationContext
 * @see org.springframework.beans.factory.xml.XmlBeanDefinitionReader
 */
public ClassPathXmlApplicationContext(String[] paths, Class<?> clazz) throws BeansException {
    this(paths, clazz, null);
}

/**
 * Create a new ClassPathXmlApplicationContext with the given parent,
 * loading the definitions from the given XML files and automatically
 * refreshing the context.
 * @param paths array of relative (or absolute) paths within the class path
 * @param clazz the class to load resources with (basis for the given paths)
 * @param parent the parent context
 * @throws BeansException if context creation failed
 * @see org.springframework.core.io.ClassPathResource#ClassPathResource(String, Class)
 * @see org.springframework.context.support.GenericApplicationContext
 * @see org.springframework.beans.factory.xml.XmlBeanDefinitionReader
 */
public ClassPathXmlApplicationContext(String[] paths, Class<?> clazz, ApplicationContext parent)
    throws BeansException {

```

```

super(parent);
Assert.notNull(paths, "Path array must not be null");
Assert.notNull(clazz, "Class argument must not be null");
this.configResources = new Resource[paths.length];
for (int i = 0; i < paths.length; i++) {
    this.configResources[i] = new ClassPathResource(paths[i], clazz);
}
refresh();
}

```

```

@Override
protected Resource[] getConfigResources() {
    return this.configResources;
}
}

```

1.132 spring-context-support 4.0.4.RELEASE

1.133 spring-core 4.1.1.RELEASE

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```

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 */

package org.springframework.cglib.core;

/**
 * Custom extension of CGLIB's { @link DefaultNamingPolicy }, modifying
 * the tag in generated class names from "ByCGLIB" to "BySpringCGLIB".

```

```

*
* <p>This is primarily designed to avoid clashes between a regular CGLIB
* version (used by some other library) and Spring's embedded variant,
* in case the same class happens to get proxied for different purposes.
*
* @author Juergen Hoeller
* @since 3.2.8
*/
public class SpringNamingPolicy extends DefaultNamingPolicy {

    public static final SpringNamingPolicy INSTANCE = new SpringNamingPolicy();

    @Override
    protected String getTag() {
        return "BySpringCGLIB";
    }

}
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*/

package org.springframework.util.xml;

import javax.xml.transform.ErrorListener;
import javax.xml.transform.TransformerException;

import org.apache.commons.logging.Log;

/**
* Simple {@code javax.xml.transform.ErrorListener} implementation:
* logs warnings using the given Commons Logging logger instance,
* and rethrows errors to discontinue the XML transformation.
*
* @author Juergen Hoeller
* @since 1.2

```

```

*/
public class SimpleTransformErrorListener implements ErrorListener {

    private final Log logger;

    /**
     * Create a new SimpleTransformErrorListener for the given
     * Commons Logging logger instance.
     */
    public SimpleTransformErrorListener(Log logger) {
        this.logger = logger;
    }

    @Override
    public void warning(TransformerException ex) throws TransformerException {
        logger.warn("XSLT transformation warning", ex);
    }

    @Override
    public void error(TransformerException ex) throws TransformerException {
        logger.error("XSLT transformation error", ex);
    }

    @Override
    public void fatalError(TransformerException ex) throws TransformerException {
        throw ex;
    }

}
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 */

package org.springframework.util.xml;

```

```

import java.util.ArrayList;
import java.util.Collections;
import java.util.HashMap;
import java.util.Iterator;
import java.util.List;
import java.util.Map;
import javax.xml.XMLConstants;
import javax.xml.namespace.NamespaceContext;

import org.springframework.util.Assert;

/**
 * Simple {@code javax.xml.namespace.NamespaceContext} implementation. Follows the standard
 * {@code NamespaceContext} contract, and is loadable via a {@code java.util.Map} or
 * {@code java.util.Properties} object
 *
 * @author Arjen Poutsma
 * @since 3.0
 */
public class SimpleNamespaceContext implements NamespaceContext {

    private Map<String, String> prefixToNamespaceUri = new HashMap<String, String>();

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

    private String defaultNamespaceUri = "";

    @Override
    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 (XMLConstants.DEFAULT_NS_PREFIX.equals(prefix)) {
            return defaultNamespaceUri;
        }
        else if (prefixToNamespaceUri.containsKey(prefix)) {
            return prefixToNamespaceUri.get(prefix);
        }
        return "";
    }

    @Override
    public String getPrefix(String namespaceUri) {

```



```

List<?> prefixes = getPrefixesInternal(namespaceUri);
return prefixes.isEmpty() ? null : (String) prefixes.get(0);
}

@Override
public Iterator<String> getPrefixes(String namespaceUri) {
    return getPrefixesInternal(namespaceUri).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.DEFAULT_NS_PREFIX.equals(prefix)) {
        defaultNamespaceUri = namespaceUri;
    }
    else {
        prefixToNamespaceUri.put(prefix, namespaceUri);
        getPrefixesInternal(namespaceUri).add(prefix);
    }
}

/** Removes all declared prefixes. */

```

```

public void clear() {
    prefixToNamespaceUri.clear();
}

/**
 * Returns all declared prefixes.
 *
 * @return the declared prefixes
 */
public Iterator<String> getBoundPrefixes() {
    return prefixToNamespaceUri.keySet().iterator();
}

private List<String> getPrefixesInternal(String namespaceUri) {
    if (defaultNamespaceUri.equals(namespaceUri)) {
        return Collections.singletonList(XMLConstants.DEFAULT_NS_PREFIX);
    }
    else if (XMLConstants.XML_NS_URI.equals(namespaceUri)) {
        return Collections.singletonList(XMLConstants.XML_NS_PREFIX);
    }
    else if (XMLConstants.XMLNS_ATTRIBUTE_NS_URI.equals(namespaceUri)) {
        return Collections.singletonList(XMLConstants.XMLNS_ATTRIBUTE);
    }
    else {
        List<String> list = namespaceUriToPrefixes.get(namespaceUri);
        if (list == null) {
            list = new ArrayList<String>();
            namespaceUriToPrefixes.put(namespaceUri, list);
        }
        return list;
    }
}

/**
 * Removes the given prefix from this context.
 *
 * @param prefix the prefix to be removed
 */
public void removeBinding(String prefix) {
    if (XMLConstants.DEFAULT_NS_PREFIX.equals(prefix)) {
        defaultNamespaceUri = "";
    }
    else {
        String namespaceUri = prefixToNamespaceUri.remove(prefix);
        List<String> prefixes = getPrefixesInternal(namespaceUri);
        prefixes.remove(prefix);
    }
}

```

```

}
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 */

```

```
package org.springframework.util.xml;
```

```
import org.apache.commons.logging.Log;
import org.xml.sax.ErrorHandler;
import org.xml.sax.SAXException;
import org.xml.sax.SAXParseException;
```

```
/**
 * Simple {@code org.xml.sax.ErrorHandler} implementation:
 * logs warnings using the given Commons Logging logger instance,
 * and rethrows errors to discontinue the XML transformation.
 *
 * @author Juergen Hoeller
 * @since 1.2
 */

```

```
public class SimpleSaxErrorHandler implements ErrorHandler {
```

```
    private final Log logger;
```

```
/**
 * Create a new SimpleSaxErrorHandler for the given
 * Commons Logging logger instance.
 */

```

```
public SimpleSaxErrorHandler(Log logger) {
    this.logger = logger;
}

```

```
@Override
public void warning(SAXParseException ex) throws SAXException {

```

```

logger.warn("Ignored XML validation warning", ex);
}

@Override
public void error(SAXParseException ex) throws SAXException {
    throw ex;
}

@Override
public void fatalError(SAXParseException ex) throws SAXException {
    throw ex;
}

}
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 */

package org.springframework.core;

import java.util.ArrayList;
import java.util.HashMap;
import java.util.List;
import java.util.Map;
import java.util.concurrent.ConcurrentHashMap;

import org.springframework.util.Assert;
import org.springframework.util.StringUtils;
import org.springframework.util.StringValueResolver;

/**
 * Simple implementation of the {@link AliasRegistry} interface.
 * Serves as base class for
 * {@link org.springframework.beans.factory.support.BeanDefinitionRegistry}
 * implementations.
 */

```

```

* @author Juergen Hoeller
* @since 2.5.2
*/
public class SimpleAliasRegistry implements AliasRegistry {

    /** Map from alias to canonical name */
    private final Map<String, String> aliasMap = new ConcurrentHashMap<String, String>(16);

    @Override
    public void registerAlias(String name, String alias) {
        Assert.hasText(name, "'name' must not be empty");
        Assert.hasText(alias, "'alias' must not be empty");
        if (alias.equals(name)) {
            this.aliasMap.remove(alias);
        }
        else {
            if (!allowAliasOverriding()) {
                String registeredName = this.aliasMap.get(alias);
                if (registeredName != null && !registeredName.equals(name)) {
                    throw new IllegalStateException("Cannot register alias '" + alias + "' for name '" +
                        name + "': It is already registered for name '" + registeredName + "'.");
                }
            }
            checkForAliasCircle(name, alias);
            this.aliasMap.put(alias, name);
        }
    }

    /**
     * Return whether alias overriding is allowed.
     * Default is {@code true}.
     */
    protected boolean allowAliasOverriding() {
        return true;
    }

    @Override
    public void removeAlias(String alias) {
        String name = this.aliasMap.remove(alias);
        if (name == null) {
            throw new IllegalStateException("No alias '" + alias + "' registered");
        }
    }

    @Override
    public boolean isAlias(String name) {
        return this.aliasMap.containsKey(name);
    }
}

```

```

}

@Override
public String[] getAliases(String name) {
    List<String> result = new ArrayList<String>();
    synchronized (this.aliasMap) {
        retrieveAliases(name, result);
    }
    return StringUtils.toStringArray(result);
}

/**
 * Transitivity retrieve all aliases for the given name.
 * @param name the target name to find aliases for
 * @param result the resulting aliases list
 */
private void retrieveAliases(String name, List<String> result) {
    for (Map.Entry<String, String> entry : this.aliasMap.entrySet()) {
        String registeredName = entry.getValue();
        if (registeredName.equals(name)) {
            String alias = entry.getKey();
            result.add(alias);
            retrieveAliases(alias, result);
        }
    }
}

/**
 * Resolve all alias target names and aliases registered in this
 * factory, applying the given StringValueResolver to them.
 * <p>The value resolver may for example resolve placeholders
 * in target bean names and even in alias names.
 * @param valueResolver the StringValueResolver to apply
 */
public void resolveAliases(StringValueResolver valueResolver) {
    Assert.notNull(valueResolver, "StringValueResolver must not be null");
    synchronized (this.aliasMap) {
        Map<String, String> aliasCopy = new HashMap<String, String>(this.aliasMap);
        for (String alias : aliasCopy.keySet()) {
            String registeredName = aliasCopy.get(alias);
            String resolvedAlias = valueResolver.resolveStringValue(alias);
            String resolvedName = valueResolver.resolveStringValue(registeredName);
            if (resolvedAlias.equals(resolvedName)) {
                this.aliasMap.remove(alias);
            }
            else if (!resolvedAlias.equals(alias)) {
                String existingName = this.aliasMap.get(resolvedAlias);
                if (existingName != null && !existingName.equals(resolvedName)) {

```

```

    throw new IllegalStateException(
        "Cannot register resolved alias '" + resolvedAlias + "' (original: '" + alias +
        "') for name '" + resolvedName + "': It is already registered for name '" +
        registeredName + "'");
    }
    checkForAliasCircle(resolvedName, resolvedAlias);
    this.aliasMap.remove(alias);
    this.aliasMap.put(resolvedAlias, resolvedName);
    }
    else if (!registeredName.equals(resolvedName)) {
        this.aliasMap.put(alias, resolvedName);
    }
    }
    }
}

/**
 * Determine the raw name, resolving aliases to canonical names.
 * @param name the user-specified name
 * @return the transformed name
 */
public String canonicalName(String name) {
    String canonicalName = name;
    // Handle aliasing...
    String resolvedName;
    do {
        resolvedName = this.aliasMap.get(canonicalName);
        if (resolvedName != null) {
            canonicalName = resolvedName;
        }
    }
    while (resolvedName != null);
    return canonicalName;
}

/**
 * Check whether the given name points back to given alias as an alias
 * in the other direction, catching a circular reference upfront and
 * throwing a corresponding IllegalStateException.
 * @param name the candidate name
 * @param alias the candidate alias
 * @see #registerAlias
 */
protected void checkForAliasCircle(String name, String alias) {
    if (alias.equals(canonicalName(name))) {
        throw new IllegalStateException("Cannot register alias '" + alias +
            "' for name '" + name + "': Circular reference - '" +
            name + "' is a direct or indirect alias for '" + alias + "' already");
    }
}

```

```
}  
}  
  
}
```

1.134 spring-data-commons 1.9.1

1.134.1 Available under license :

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1.135 spring-data-rest-core 2.2.1.RELEASE

1.136 spring-expression 4.1.1.RELEASE

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```

```
package org.springframework.expression.spel.ast;
```

```
import org.springframework.asm.MethodVisitor;
import org.springframework.asm.Opcodes;
import org.springframework.expression.EvaluationException;
import org.springframework.expression.TypedValue;
import org.springframework.expression.common.ExpressionUtils;
import org.springframework.expression.spel.CodeFlow;
import org.springframework.expression.spel.ExpressionState;
import org.springframework.expression.spel.SpelEvaluationException;
import org.springframework.expression.spel.SpelMessage;
import org.springframework.expression.spel.SpelNode;
import org.springframework.expression.spel.support.StandardEvaluationContext;
import org.springframework.util.Assert;
```

```
/**
 * The common supertype of all AST nodes in a parsed Spring Expression Language format
 * expression.
 *
 * @author Andy Clement
 * @since 3.0
 */
```

```
public abstract class SpelNodeImpl implements SpelNode, Opcodes {
```

```
    private static SpelNodeImpl[] NO_CHILDREN = new SpelNodeImpl[0];
```

```

protected int pos; // start = top 16bits, end = bottom 16bits

protected SpelNodeImpl[] children = SpelNodeImpl.NO_CHILDREN;

private SpelNodeImpl parent;

/**
 * Indicates the type descriptor for the result of this expression node.
 * This is set as soon as it is known. For a literal node it is known immediately.
 * For a property access or method invocation it is known after one evaluation of
 * that node.
 * <p>The descriptor is like the bytecode form but is slightly easier to work with.
 * It does not include the trailing semicolon (for non array reference types).
 * Some examples: Ljava/lang/String, I, [I
 */
protected volatile String exitTypeDescriptor;

public SpelNodeImpl(int pos, SpelNodeImpl... operands) {
    this.pos = pos;
    // pos combines start and end so can never be zero because tokens cannot be zero length
    Assert.isTrue(pos != 0);
    if (operands != null && operands.length > 0) {
        this.children = operands;
        for (SpelNodeImpl childnode : operands) {
            childnode.parent = this;
        }
    }
}

protected SpelNodeImpl getPreviousChild() {
    SpelNodeImpl result = null;
    if (this.parent != null) {
        for (SpelNodeImpl child : this.parent.children) {
            if (this == child) {
                break;
            }
            result = child;
        }
    }
    return result;
}

/**
 * @return true if the next child is one of the specified classes
 */

```

```

protected boolean nextChildIs(Class<?>... clazzes) {
    if (this.parent != null) {
        SpelNodeImpl[] peers = this.parent.children;
        for (int i = 0, max = peers.length; i < max; i++) {
            if (this == peers[i]) {
                if (i + 1 >= max) {
                    return false;
                }
                Class<?> clazz = peers[i + 1].getClass();
                for (Class<?> desiredClazz : clazzes) {
                    if (clazz.equals(desiredClazz)) {
                        return true;
                    }
                }
                return false;
            }
        }
    }
    return false;
}

```

@Override

```

public final Object getValue(ExpressionState expressionState) throws EvaluationException {
    if (expressionState != null) {
        return getValueInternal(expressionState).getValue();
    }
    else {
        // configuration not set - does that matter?
        return getValue(new ExpressionState(new StandardEvaluationContext()));
    }
}

```

@Override

```

public final TypedValue getTypedValue(ExpressionState expressionState) throws EvaluationException {
    if (expressionState != null) {
        return getValueInternal(expressionState);
    }
    else {
        // configuration not set - does that matter?
        return getTypedValue(new ExpressionState(new StandardEvaluationContext()));
    }
}

```

// by default Ast nodes are not writable

@Override

```

public boolean isWritable(ExpressionState expressionState) throws EvaluationException {
    return false;
}

```

```

@Override
public void setValue(ExpressionState expressionState, Object newValue) throws EvaluationException {
    throw new SpelEvaluationException(getStartPosition(),
        SpelMessage.SETVALUE_NOT_SUPPORTED, getClass());
}

@Override
public SpelNode getChild(int index) {
    return this.children[index];
}

@Override
public int getChildCount() {
    return this.children.length;
}

@Override
public Class<?> getObjectClass(Object obj) {
    if (obj == null) {
        return null;
    }
    return (obj instanceof Class ? ((Class<?>) obj) : obj.getClass());
}

protected final <T> T getValue(ExpressionState state, Class<T> desiredReturnType) throws EvaluationException {
    return ExpressionUtils.convertTypedValue(state.getEvaluationContext(), getValueInternal(state),
        desiredReturnType);
}

@Override
public int getStartPosition() {
    return (this.pos >> 16);
}

@Override
public int getEndPosition() {
    return (this.pos & 0xffff);
}

protected ValueRef getValueRef(ExpressionState state) throws EvaluationException {
    throw new SpelEvaluationException(this.pos, SpelMessage.NOT_ASSIGNABLE, toStringAST());
}

/**
 * Check whether a node can be compiled to bytecode. The reasoning in each node may
 * be different but will typically involve checking whether the exit type descriptor
 * of the node is known and any relevant child nodes are compilable.

```



```

* @return { @code true} if this node can be compiled to bytecode
*/
public boolean isCompilable() {
    return false;
}

/**
 * Generate the bytecode for this node into the supplied visitor. Context info about
 * the current expression being compiled is available in the codeflow object. For
 * example it will include information about the type of the object currently
 * on the stack.
 * @param mv the ASM MethodVisitor into which code should be generated
 * @param codeflow a context object with info about what is on the stack
 */
public void generateCode(MethodVisitor mv, CodeFlow codeflow) {
    throw new IllegalStateException(this.getClass().getName()+" has no generateCode(..) method");
}

public String getExitDescriptor() {
    return this.exitTypeDescriptor;
}

public abstract TypedValue getValueInternal(ExpressionState expressionState) throws EvaluationException;
}
/*
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 */

package org.springframework.expression.common;

import org.springframework.expression.ParserContext;

/**
 * Configurable {@link ParserContext} implementation for template parsing. Expects the
 * expression prefix and suffix as constructor arguments.

```

```

*
* @author Juergen Hoeller
* @since 3.0
*/
public class TemplateParserContext implements ParserContext {

    private final String expressionPrefix;

    private final String expressionSuffix;

    /**
     * Create a new TemplateParserContext with the default "#{ " prefix and "}" suffix.
     */
    public TemplateParserContext() {
        this("#{", "}");
    }

    /**
     * Create a new TemplateParserContext for the given prefix and suffix.
     * @param expressionPrefix the expression prefix to use
     * @param expressionSuffix the expression suffix to use
     */
    public TemplateParserContext(String expressionPrefix, String expressionSuffix) {
        this.expressionPrefix = expressionPrefix;
        this.expressionSuffix = expressionSuffix;
    }

    @Override
    public final boolean isTemplate() {
        return true;
    }

    @Override
    public final String getExpressionPrefix() {
        return this.expressionPrefix;
    }

    @Override
    public final String getExpressionSuffix() {
        return this.expressionSuffix;
    }

}
/*
* Copyright 2002-2013 the original author or authors.
*

```

```

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*/

```

```
package org.springframework.expression.common;
```

```
import java.util.LinkedList;
import java.util.List;
import java.util.Stack;
```

```
import org.springframework.expression.Expression;
import org.springframework.expression.ExpressionParser;
import org.springframework.expression.ParseException;
import org.springframework.expression.ParserContext;
```

```
/**
 * An expression parser that understands templates. It can be subclassed by expression
 * parsers that do not offer first class support for templating.
 *
 * @author Keith Donald
 * @author Juergen Hoeller
 * @author Andy Clement
 * @since 3.0
 */

```

```
public abstract class TemplateAwareExpressionParser implements ExpressionParser {
```

```
/**
 * Default ParserContext instance for non-template expressions.
 */

```

```
private static final ParserContext NON_TEMPLATE_PARSER_CONTEXT = new ParserContext() {
```

```
    @Override
    public String getExpressionPrefix() {
        return null;
    }

```

```
    @Override
    public String getExpressionSuffix() {
        return null;
    }

```

```

}

@Override
public boolean isTemplate() {
    return false;
}
};

@Override
public Expression parseExpression(String expressionString) throws ParseException {
    return parseExpression(expressionString, NON_TEMPLATE_PARSER_CONTEXT);
}

@Override
public Expression parseExpression(String expressionString, ParserContext context)
    throws ParseException {
    if (context == null) {
        context = NON_TEMPLATE_PARSER_CONTEXT;
    }

    if (context.isTemplate()) {
        return parseTemplate(expressionString, context);
    }
    else {
        return doParseExpression(expressionString, context);
    }
}

private Expression parseTemplate(String expressionString, ParserContext context)
    throws ParseException {
    if (expressionString.length() == 0) {
        return new LiteralExpression("");
    }
    Expression[] expressions = parseExpressions(expressionString, context);
    if (expressions.length == 1) {
        return expressions[0];
    }
    else {
        return new CompositeStringExpression(expressionString, expressions);
    }
}

/**
 * Helper that parses given expression string using the configured parser. The
 * expression string can contain any number of expressions all contained in "$ {...}"
 * markers. For instance: "foo${expr0}bar${expr1}". The static pieces of text will
 * also be returned as Expressions that just return that static piece of text. As a
 * result, evaluating all returned expressions and concatenating the results produces

```

```

* the complete evaluated string. Unwrapping is only done of the outermost delimiters
* found, so the string 'hello ${foo${abc}}' would break into the pieces 'hello ' and
* 'foo${abc}'. This means that expression languages that used ${..} as part of their
* functionality are supported without any problem. The parsing is aware of the
* structure of an embedded expression. It assumes that parentheses '(', square
* brackets '[' and curly brackets '}' must be in pairs within the expression unless
* they are within a string literal and a string literal starts and terminates with a
* single quote '.
* @param expressionString the expression string
* @return the parsed expressions
* @throws ParseException when the expressions cannot be parsed
*/

```

```

private Expression[] parseExpressions(String expressionString, ParserContext context)
    throws ParseException {
    List<Expression> expressions = new LinkedList<Expression>();
    String prefix = context.getExpressionPrefix();
    String suffix = context.getExpressionSuffix();
    int startIdx = 0;
    while (startIdx < expressionString.length()) {
        int prefixIndex = expressionString.indexOf(prefix, startIdx);
        if (prefixIndex >= startIdx) {
            // an inner expression was found - this is a composite
            if (prefixIndex > startIdx) {
                expressions.add(createLiteralExpression(context,
                    expressionString.substring(startIdx, prefixIndex)));
            }
            int afterPrefixIndex = prefixIndex + prefix.length();
            int suffixIndex = skipToCorrectEndSuffix(prefix, suffix,
                expressionString, afterPrefixIndex);

            if (suffixIndex == -1) {
                throw new ParseException(expressionString, prefixIndex,
                    "No ending suffix " + suffix
                    + " for expression starting at character "
                    + prefixIndex + ": "
                    + expressionString.substring(prefixIndex));
            }

            if (suffixIndex == afterPrefixIndex) {
                throw new ParseException(expressionString, prefixIndex,
                    "No expression defined within delimiter " + prefix + suffix
                    + " at character " + prefixIndex);
            }

            String expr = expressionString.substring(prefixIndex + prefix.length(),
                suffixIndex);
            expr = expr.trim();

```

```

    if (expr.length() == 0) {
        throw new ParseException(expressionString, prefixIndex,
            "No expression defined within delimiter '" + prefix + suffix
            + "' at character " + prefixIndex);
    }

    expressions.add(doParseExpression(expr, context));
    startIdx = suffixIndex + suffix.length();
}
else {
    // no more ${expressions} found in string, add rest as static text
    expressions.add(createLiteralExpression(context,
        expressionString.substring(startIdx)));
    startIdx = expressionString.length();
}
}
return expressions.toArray(new Expression[expressions.size()]);
}

private Expression createLiteralExpression(ParserContext context, String text) {
    return new LiteralExpression(text);
}

/**
 * Return true if the specified suffix can be found at the supplied position in the
 * supplied expression string.
 * @param expressionString the expression string which may contain the suffix
 * @param pos the start position at which to check for the suffix
 * @param suffix the suffix string
 */
private boolean isSuffixHere(String expressionString, int pos, String suffix) {
    int suffixPosition = 0;
    for (int i = 0; i < suffix.length() && pos < expressionString.length(); i++) {
        if (expressionString.charAt(pos++) != suffix.charAt(suffixPosition++)) {
            return false;
        }
    }
    if (suffixPosition != suffix.length()) {
        // the expressionString ran out before the suffix could entirely be found
        return false;
    }
    return true;
}

/**
 * Copes with nesting, for example '${...${...}}' where the correct end for the first
 * ${ is the final }.
 * @param prefix the prefix

```

```

* @param suffix the suffix
* @param expressionString the expression string
* @param afterPrefixIndex the most recently found prefix location for which the
*   matching end suffix is being sought
* @return the position of the correct matching nextSuffix or -1 if none can be found
*/
private int skipToCorrectEndSuffix(String prefix, String suffix,
    String expressionString, int afterPrefixIndex) throws ParseException {
// Chew on the expression text - relying on the rules:
// brackets must be in pairs: () [] {}
// string literals are "\"" or "'" and these may contain unmatched brackets
int pos = afterPrefixIndex;
int maxlen = expressionString.length();
int nextSuffix = expressionString.indexOf(suffix, afterPrefixIndex);
if (nextSuffix == -1) {
    return -1; // the suffix is missing
}
Stack<Bracket> stack = new Stack<Bracket>();
while (pos < maxlen) {
    if (isSuffixHere(expressionString, pos, suffix) && stack.isEmpty()) {
        break;
    }
    char ch = expressionString.charAt(pos);
    switch (ch) {
        case '{':
        case '[':
        case '(':
            stack.push(new Bracket(ch, pos));
            break;
        case '}':
        case ']':
        case ')':
            if (stack.isEmpty()) {
                throw new ParseException(expressionString, pos, "Found closing "
                    + ch + " at position " + pos + " without an opening "
                    + Bracket.theOpenBracketFor(ch) + "");
            }
            Bracket p = stack.pop();
            if (!p.compatibleWithCloseBracket(ch)) {
                throw new ParseException(expressionString, pos, "Found closing "
                    + ch + " at position " + pos
                    + " but most recent opening is " + p.bracket
                    + " at position " + p.pos);
            }
            break;
        case "\\":
        case "'":
            // jump to the end of the literal

```

```

int endLiteral = expressionString.indexOf(ch, pos + 1);
if (endLiteral == -1) {
    throw new ParseException(expressionString, pos,
        "Found non terminating string literal starting at position "
        + pos);
}
pos = endLiteral;
break;
}
pos++;
}
if (!stack.isEmpty()) {
    Bracket p = stack.pop();
    throw new ParseException(expressionString, p.pos, "Missing closing "
        + Bracket.theCloseBracketFor(p.bracket) + " for " + p.bracket
        + " at position " + p.pos);
}
if (!isSuffixHere(expressionString, pos, suffix)) {
    return -1;
}
return pos;
}

/**
 * This captures a type of bracket and the position in which it occurs in the
 * expression. The positional information is used if an error has to be reported
 * because the related end bracket cannot be found. Bracket is used to describe:
 * square brackets [] round brackets () and curly brackets {}
 */
private static class Bracket {

    char bracket;

    int pos;

    Bracket(char bracket, int pos) {
        this.bracket = bracket;
        this.pos = pos;
    }

    boolean compatibleWithCloseBracket(char closeBracket) {
        if (this.bracket == '{') {
            return closeBracket == '}';
        }
        else if (this.bracket == '[') {
            return closeBracket == ']';
        }
    }
}

```



```

return closeBracket == ');
}

static char theOpenBracketFor(char closeBracket) {
if (closeBracket == ')') {
return '{';
}
else if (closeBracket == ']') {
return '[';
}
return '(';
}

static char theCloseBracketFor(char openBracket) {
if (openBracket == '{') {
return '}';
}
else if (openBracket == '[') {
return ']';
}
return ')';
}
}

/**
 * Actually parse the expression string and return an Expression object.
 * @param expressionString the raw expression string to parse
 * @param context a context for influencing this expression parsing routine (optional)
 * @return an evaluator for the parsed expression
 * @throws ParseException an exception occurred during parsing
 */
protected abstract Expression doParseExpression(String expressionString,
ParserContext context) throws ParseException;
}

```

1.137 spring-jdbc 4.1.1.RELEASE

1.138 spring-js 2.4.0.RELEASE

1.139 spring-messaging 4.0.7.RELEASE

1.140 spring-orm 4.1.1.RELEASE

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1.141 spring-oxm 4.0.5.RELEASE

1.142 spring-plugin-core 1.1.0.Release

1.143 spring-security-config 3.2.5.RELEASE

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1.145 spring-security-ldap 3.1.4.RELEASE

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1.148 spring-test 4.0.7.RELEASE

1.149 spring-test-dbunit 1.1.0

1.150 spring-tx 4.1.1.RELEASE

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1.155 sslex 1.2-0

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1.158 struts-taglib 1.3.8

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The original XML Schemas for Java EE Deployment Descriptors:

- javaee_5.xsd
- javaee_web_services_1_2.xsd
- javaee_web_services_client_1_2.xsd
- javaee_6.xsd
- javaee_web_services_1_3.xsd
- javaee_web_services_client_1_3.xsd
- jsp_2_2.xsd
- web-app_3_0.xsd
- web-common_3_0.xsd
- web-fragment_3_0.xsd

may be obtained from <http://java.sun.com/xml/ns/javaee/>

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- javaee_web_services_client_1_3.xsd
- jsp_2_2.xsd
- web-app_3_0.xsd
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1.172 XmlBeans 2.6.0

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1.173 xmlgraphics-commons 1.5

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1.174 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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```

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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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 */

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;
    }
}

```

1.175 xmlsec 1.4.2

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1.176 xpp3_min 1.1.4c

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```

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