| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/LSOutput.html) | [**Tree**](http://docs.google.com/package-tree.html) | [**Deprecated**](http://docs.google.com/deprecated-list.html) | [**Index**](http://docs.google.com/index-files/index-1.html) | [**Help**](http://docs.google.com/help-doc.html) | | --- | --- | --- | --- | --- | --- | --- | --- | | | ***Java™ Platform***  ***Standard Ed. 6*** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| [**PREV CLASS**](http://docs.google.com/org/w3c/dom/ls/LSLoadEvent.html)   [**NEXT CLASS**](http://docs.google.com/org/w3c/dom/ls/LSParser.html) | [**FRAMES**](http://docs.google.com/index.html?org/w3c/dom/ls/LSOutput.html)    [**NO FRAMES**](http://docs.google.com/LSOutput.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | FIELD | CONSTR | [METHOD](#3znysh7) | DETAIL: FIELD | CONSTR | [METHOD](#2et92p0) |

## **org.w3c.dom.ls**

Interface LSOutput

public interface **LSOutput**

This interface represents an output destination for data.

This interface allows an application to encapsulate information about an output destination in a single object, which may include a URI, a byte stream (possibly with a specified encoding), a base URI, and/or a character stream.

The exact definitions of a byte stream and a character stream are binding dependent.

The application is expected to provide objects that implement this interface whenever such objects are needed. The application can either provide its own objects that implement this interface, or it can use the generic factory method DOMImplementationLS.createLSOutput() to create objects that implement this interface.

The LSSerializer will use the LSOutput object to determine where to serialize the output to. The LSSerializer will look at the different outputs specified in the LSOutput in the following order to know which one to output to, the first one that is not null and not an empty string will be used:

1. LSOutput.characterStream
2. LSOutput.byteStream
3. LSOutput.systemId

LSOutput objects belong to the application. The DOM implementation will never modify them (though it may make copies and modify the copies, if necessary).

See also the [Document Object Model (DOM) Level 3 Load and Save Specification](http://www.w3.org/TR/2004/REC-DOM-Level-3-LS-20040407).

| **Method Summary** | |
| --- | --- |
| [OutputStream](http://docs.google.com/java/io/OutputStream.html) | [**getByteStream**](http://docs.google.com/org/w3c/dom/ls/LSOutput.html#getByteStream())()            An attribute of a language and binding dependent type that represents a writable stream of bytes. |
| [Writer](http://docs.google.com/java/io/Writer.html) | [**getCharacterStream**](http://docs.google.com/org/w3c/dom/ls/LSOutput.html#getCharacterStream())()            An attribute of a language and binding dependent type that represents a writable stream to which 16-bit units can be output. |
| [String](http://docs.google.com/java/lang/String.html) | [**getEncoding**](http://docs.google.com/org/w3c/dom/ls/LSOutput.html#getEncoding())()            The character encoding to use for the output. |
| [String](http://docs.google.com/java/lang/String.html) | [**getSystemId**](http://docs.google.com/org/w3c/dom/ls/LSOutput.html#getSystemId())()            The system identifier, a URI reference [[IETF RFC 2396](http://www.ietf.org/rfc/rfc2396.txt)], for this output destination. |
| void | [**setByteStream**](http://docs.google.com/org/w3c/dom/ls/LSOutput.html#setByteStream(java.io.OutputStream))([OutputStream](http://docs.google.com/java/io/OutputStream.html) byteStream)            An attribute of a language and binding dependent type that represents a writable stream of bytes. |
| void | [**setCharacterStream**](http://docs.google.com/org/w3c/dom/ls/LSOutput.html#setCharacterStream(java.io.Writer))([Writer](http://docs.google.com/java/io/Writer.html) characterStream)            An attribute of a language and binding dependent type that represents a writable stream to which 16-bit units can be output. |
| void | [**setEncoding**](http://docs.google.com/org/w3c/dom/ls/LSOutput.html#setEncoding(java.lang.String))([String](http://docs.google.com/java/lang/String.html) encoding)            The character encoding to use for the output. |
| void | [**setSystemId**](http://docs.google.com/org/w3c/dom/ls/LSOutput.html#setSystemId(java.lang.String))([String](http://docs.google.com/java/lang/String.html) systemId)            The system identifier, a URI reference [[IETF RFC 2396](http://www.ietf.org/rfc/rfc2396.txt)], for this output destination. |

| **Method Detail** |
| --- |

### getCharacterStream

[Writer](http://docs.google.com/java/io/Writer.html) **getCharacterStream**()

An attribute of a language and binding dependent type that represents a writable stream to which 16-bit units can be output.

### setCharacterStream

void **setCharacterStream**([Writer](http://docs.google.com/java/io/Writer.html) characterStream)

An attribute of a language and binding dependent type that represents a writable stream to which 16-bit units can be output.

### getByteStream

[OutputStream](http://docs.google.com/java/io/OutputStream.html) **getByteStream**()

An attribute of a language and binding dependent type that represents a writable stream of bytes.

### setByteStream

void **setByteStream**([OutputStream](http://docs.google.com/java/io/OutputStream.html) byteStream)

An attribute of a language and binding dependent type that represents a writable stream of bytes.

### getSystemId

[String](http://docs.google.com/java/lang/String.html) **getSystemId**()

The system identifier, a URI reference [[IETF RFC 2396](http://www.ietf.org/rfc/rfc2396.txt)], for this output destination.

If the system ID is a relative URI reference (see section 5 in [[IETF RFC 2396](http://www.ietf.org/rfc/rfc2396.txt)]), the behavior is implementation dependent.

### setSystemId

void **setSystemId**([String](http://docs.google.com/java/lang/String.html) systemId)

The system identifier, a URI reference [[IETF RFC 2396](http://www.ietf.org/rfc/rfc2396.txt)], for this output destination.

If the system ID is a relative URI reference (see section 5 in [[IETF RFC 2396](http://www.ietf.org/rfc/rfc2396.txt)]), the behavior is implementation dependent.

### getEncoding

[String](http://docs.google.com/java/lang/String.html) **getEncoding**()

The character encoding to use for the output. The encoding must be a string acceptable for an XML encoding declaration ([[XML 1.0](http://www.w3.org/TR/2004/REC-xml-20040204)] section 4.3.3 "Character Encoding in Entities"), it is recommended that character encodings registered (as charsets) with the Internet Assigned Numbers Authority [[IANA-CHARSETS](ftp://ftp.isi.edu/in-notes/iana/assignments/character-sets)] should be referred to using their registered names.

### setEncoding

void **setEncoding**([String](http://docs.google.com/java/lang/String.html) encoding)

The character encoding to use for the output. The encoding must be a string acceptable for an XML encoding declaration ([[XML 1.0](http://www.w3.org/TR/2004/REC-xml-20040204)] section 4.3.3 "Character Encoding in Entities"), it is recommended that character encodings registered (as charsets) with the Internet Assigned Numbers Authority [[IANA-CHARSETS](ftp://ftp.isi.edu/in-notes/iana/assignments/character-sets)] should be referred to using their registered names.

| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/LSOutput.html) | [**Tree**](http://docs.google.com/package-tree.html) | [**Deprecated**](http://docs.google.com/deprecated-list.html) | [**Index**](http://docs.google.com/index-files/index-1.html) | [**Help**](http://docs.google.com/help-doc.html) | | --- | --- | --- | --- | --- | --- | --- | --- | | | ***Java™ Platform***  ***Standard Ed. 6*** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| [**PREV CLASS**](http://docs.google.com/org/w3c/dom/ls/LSLoadEvent.html)   [**NEXT CLASS**](http://docs.google.com/org/w3c/dom/ls/LSParser.html) | [**FRAMES**](http://docs.google.com/index.html?org/w3c/dom/ls/LSOutput.html)    [**NO FRAMES**](http://docs.google.com/LSOutput.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | FIELD | CONSTR | [METHOD](#3znysh7) | DETAIL: FIELD | CONSTR | [METHOD](#2et92p0) |

[Submit a bug or feature](http://bugs.sun.com/services/bugreport/index.jsp)

For further API reference and developer documentation, see [Java SE Developer Documentation](http://docs.google.com/webnotes/devdocs-vs-specs.html). That documentation contains more detailed, developer-targeted descriptions, with conceptual overviews, definitions of terms, workarounds, and working code examples.

Copyright 2006 Sun Microsystems, Inc. All rights reserved. Use is subject to [license terms](http://docs.google.com/legal/license.html). Also see the [documentation redistribution policy](http://java.sun.com/docs/redist.html).