| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/StreamHandler.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/java/util/logging/SocketHandler.html)   [**NEXT CLASS**](http://docs.google.com/java/util/logging/XMLFormatter.html) | [**FRAMES**](http://docs.google.com/index.html?java/util/logging/StreamHandler.html)    [**NO FRAMES**](http://docs.google.com/StreamHandler.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | FIELD | [CONSTR](#3znysh7) | [METHOD](#2et92p0) | DETAIL: FIELD | [CONSTR](#1t3h5sf) | [METHOD](#17dp8vu) |

## **java.util.logging**

Class StreamHandler

[java.lang.Object](http://docs.google.com/java/lang/Object.html)  
 [java.util.logging.Handler](http://docs.google.com/java/util/logging/Handler.html)  
 **java.util.logging.StreamHandler**

**Direct Known Subclasses:** [ConsoleHandler](http://docs.google.com/java/util/logging/ConsoleHandler.html), [FileHandler](http://docs.google.com/java/util/logging/FileHandler.html), [SocketHandler](http://docs.google.com/java/util/logging/SocketHandler.html)

public class **StreamHandler**extends [Handler](http://docs.google.com/java/util/logging/Handler.html)

Stream based logging Handler.

This is primarily intended as a base class or support class to be used in implementing other logging Handlers.

LogRecords are published to a given java.io.OutputStream.

**Configuration:** By default each StreamHandler is initialized using the following LogManager configuration properties. If properties are not defined (or have invalid values) then the specified default values are used.

* java.util.logging.StreamHandler.level specifies the default level for the Handler (defaults to Level.INFO).
* java.util.logging.StreamHandler.filter specifies the name of a Filter class to use (defaults to no Filter).
* java.util.logging.StreamHandler.formatter specifies the name of a Formatter class to use (defaults to java.util.logging.SimpleFormatter).
* java.util.logging.StreamHandler.encoding the name of the character set encoding to use (defaults to the default platform encoding).

**Since:** 1.4

| **Constructor Summary** | |
| --- | --- |
| [**StreamHandler**](http://docs.google.com/java/util/logging/StreamHandler.html#StreamHandler())()            Create a StreamHandler, with no current output stream. |
| [**StreamHandler**](http://docs.google.com/java/util/logging/StreamHandler.html#StreamHandler(java.io.OutputStream,%20java.util.logging.Formatter))([OutputStream](http://docs.google.com/java/io/OutputStream.html) out, [Formatter](http://docs.google.com/java/util/logging/Formatter.html) formatter)            Create a StreamHandler with a given Formatter and output stream. |

| **Method Summary** | |
| --- | --- |
| void | [**close**](http://docs.google.com/java/util/logging/StreamHandler.html#close())()            Close the current output stream. |
| void | [**flush**](http://docs.google.com/java/util/logging/StreamHandler.html#flush())()            Flush any buffered messages. |
| boolean | [**isLoggable**](http://docs.google.com/java/util/logging/StreamHandler.html#isLoggable(java.util.logging.LogRecord))([LogRecord](http://docs.google.com/java/util/logging/LogRecord.html) record)            Check if this Handler would actually log a given LogRecord. |
| void | [**publish**](http://docs.google.com/java/util/logging/StreamHandler.html#publish(java.util.logging.LogRecord))([LogRecord](http://docs.google.com/java/util/logging/LogRecord.html) record)            Format and publish a LogRecord. |
| void | [**setEncoding**](http://docs.google.com/java/util/logging/StreamHandler.html#setEncoding(java.lang.String))([String](http://docs.google.com/java/lang/String.html) encoding)            Set (or change) the character encoding used by this Handler. |
| protected  void | [**setOutputStream**](http://docs.google.com/java/util/logging/StreamHandler.html#setOutputStream(java.io.OutputStream))([OutputStream](http://docs.google.com/java/io/OutputStream.html) out)            Change the output stream. |

| **Methods inherited from class java.util.logging.**[**Handler**](http://docs.google.com/java/util/logging/Handler.html) |
| --- |
| [getEncoding](http://docs.google.com/java/util/logging/Handler.html#getEncoding()), [getErrorManager](http://docs.google.com/java/util/logging/Handler.html#getErrorManager()), [getFilter](http://docs.google.com/java/util/logging/Handler.html#getFilter()), [getFormatter](http://docs.google.com/java/util/logging/Handler.html#getFormatter()), [getLevel](http://docs.google.com/java/util/logging/Handler.html#getLevel()), [reportError](http://docs.google.com/java/util/logging/Handler.html#reportError(java.lang.String,%20java.lang.Exception,%20int)), [setErrorManager](http://docs.google.com/java/util/logging/Handler.html#setErrorManager(java.util.logging.ErrorManager)), [setFilter](http://docs.google.com/java/util/logging/Handler.html#setFilter(java.util.logging.Filter)), [setFormatter](http://docs.google.com/java/util/logging/Handler.html#setFormatter(java.util.logging.Formatter)), [setLevel](http://docs.google.com/java/util/logging/Handler.html#setLevel(java.util.logging.Level)) |

| **Methods inherited from class java.lang.**[**Object**](http://docs.google.com/java/lang/Object.html) |
| --- |
| [clone](http://docs.google.com/java/lang/Object.html#clone()), [equals](http://docs.google.com/java/lang/Object.html#equals(java.lang.Object)), [finalize](http://docs.google.com/java/lang/Object.html#finalize()), [getClass](http://docs.google.com/java/lang/Object.html#getClass()), [hashCode](http://docs.google.com/java/lang/Object.html#hashCode()), [notify](http://docs.google.com/java/lang/Object.html#notify()), [notifyAll](http://docs.google.com/java/lang/Object.html#notifyAll()), [toString](http://docs.google.com/java/lang/Object.html#toString()), [wait](http://docs.google.com/java/lang/Object.html#wait()), [wait](http://docs.google.com/java/lang/Object.html#wait(long)), [wait](http://docs.google.com/java/lang/Object.html#wait(long,%20int)) |

| **Constructor Detail** |
| --- |

### StreamHandler

public **StreamHandler**()

Create a StreamHandler, with no current output stream.

### StreamHandler

public **StreamHandler**([OutputStream](http://docs.google.com/java/io/OutputStream.html) out,  
 [Formatter](http://docs.google.com/java/util/logging/Formatter.html) formatter)

Create a StreamHandler with a given Formatter and output stream.

**Parameters:**out - the target output streamformatter - Formatter to be used to format output

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

### setOutputStream

protected void **setOutputStream**([OutputStream](http://docs.google.com/java/io/OutputStream.html) out)  
 throws [SecurityException](http://docs.google.com/java/lang/SecurityException.html)

Change the output stream.

If there is a current output stream then the Formatter's tail string is written and the stream is flushed and closed. Then the output stream is replaced with the new output stream.

**Parameters:**out - New output stream. May not be null. **Throws:** [SecurityException](http://docs.google.com/java/lang/SecurityException.html) - if a security manager exists and if the caller does not have LoggingPermission("control").

### setEncoding

public void **setEncoding**([String](http://docs.google.com/java/lang/String.html) encoding)  
 throws [SecurityException](http://docs.google.com/java/lang/SecurityException.html),  
 [UnsupportedEncodingException](http://docs.google.com/java/io/UnsupportedEncodingException.html)

Set (or change) the character encoding used by this Handler.

The encoding should be set before any LogRecords are written to the Handler.

**Overrides:**[setEncoding](http://docs.google.com/java/util/logging/Handler.html#setEncoding(java.lang.String)) in class [Handler](http://docs.google.com/java/util/logging/Handler.html) **Parameters:**encoding - The name of a supported character encoding. May be null, to indicate the default platform encoding. **Throws:** [SecurityException](http://docs.google.com/java/lang/SecurityException.html) - if a security manager exists and if the caller does not have LoggingPermission("control"). [UnsupportedEncodingException](http://docs.google.com/java/io/UnsupportedEncodingException.html) - if the named encoding is not supported.

### publish

public void **publish**([LogRecord](http://docs.google.com/java/util/logging/LogRecord.html) record)

Format and publish a LogRecord.

The StreamHandler first checks if there is an OutputStream and if the given LogRecord has at least the required log level. If not it silently returns. If so, it calls any associated Filter to check if the record should be published. If so, it calls its Formatter to format the record and then writes the result to the current output stream.

If this is the first LogRecord to be written to a given OutputStream, the Formatter's "head" string is written to the stream before the LogRecord is written.

**Specified by:**[publish](http://docs.google.com/java/util/logging/Handler.html#publish(java.util.logging.LogRecord)) in class [Handler](http://docs.google.com/java/util/logging/Handler.html) **Parameters:**record - description of the log event. A null record is silently ignored and is not published

### isLoggable

public boolean **isLoggable**([LogRecord](http://docs.google.com/java/util/logging/LogRecord.html) record)

Check if this Handler would actually log a given LogRecord.

This method checks if the LogRecord has an appropriate level and whether it satisfies any Filter. It will also return false if no output stream has been assigned yet or the LogRecord is Null.

**Overrides:**[isLoggable](http://docs.google.com/java/util/logging/Handler.html#isLoggable(java.util.logging.LogRecord)) in class [Handler](http://docs.google.com/java/util/logging/Handler.html) **Parameters:**record - a LogRecord **Returns:**true if the LogRecord would be logged.

### flush

public void **flush**()

Flush any buffered messages.

**Specified by:**[flush](http://docs.google.com/java/util/logging/Handler.html#flush()) in class [Handler](http://docs.google.com/java/util/logging/Handler.html)

### close

public void **close**()  
 throws [SecurityException](http://docs.google.com/java/lang/SecurityException.html)

Close the current output stream.

The Formatter's "tail" string is written to the stream before it is closed. In addition, if the Formatter's "head" string has not yet been written to the stream, it will be written before the "tail" string.

**Specified by:**[close](http://docs.google.com/java/util/logging/Handler.html#close()) in class [Handler](http://docs.google.com/java/util/logging/Handler.html) **Throws:** [SecurityException](http://docs.google.com/java/lang/SecurityException.html) - if a security manager exists and if the caller does not have LoggingPermission("control"). [SecurityException](http://docs.google.com/java/lang/SecurityException.html) - if a security manager exists and if the caller does not have LoggingPermission("control").

| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/StreamHandler.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*** |
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[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.

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