| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/MidiFileWriter.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/javax/sound/midi/spi/MidiFileReader.html)   [**NEXT CLASS**](http://docs.google.com/javax/sound/midi/spi/SoundbankReader.html) | [**FRAMES**](http://docs.google.com/index.html?javax/sound/midi/spi/MidiFileWriter.html)    [**NO FRAMES**](http://docs.google.com/MidiFileWriter.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | FIELD | [CONSTR](#3znysh7) | [METHOD](#2et92p0) | DETAIL: FIELD | [CONSTR](#3dy6vkm) | [METHOD](#4d34og8) |

## **javax.sound.midi.spi**

Class MidiFileWriter

[java.lang.Object](http://docs.google.com/java/lang/Object.html)  
 **javax.sound.midi.spi.MidiFileWriter**

public abstract class **MidiFileWriter**extends [Object](http://docs.google.com/java/lang/Object.html)

A MidiFileWriter supplies MIDI file-writing services. Classes that implement this interface can write one or more types of MIDI file from a [Sequence](http://docs.google.com/javax/sound/midi/Sequence.html) object.

**Since:** 1.3

| **Constructor Summary** | |
| --- | --- |
| [**MidiFileWriter**](http://docs.google.com/javax/sound/midi/spi/MidiFileWriter.html#MidiFileWriter())() |

| **Method Summary** | |
| --- | --- |
| abstract  int[] | [**getMidiFileTypes**](http://docs.google.com/javax/sound/midi/spi/MidiFileWriter.html#getMidiFileTypes())()            Obtains the set of MIDI file types for which file writing support is provided by this file writer. |
| abstract  int[] | [**getMidiFileTypes**](http://docs.google.com/javax/sound/midi/spi/MidiFileWriter.html#getMidiFileTypes(javax.sound.midi.Sequence))([Sequence](http://docs.google.com/javax/sound/midi/Sequence.html) sequence)            Obtains the file types that this file writer can write from the sequence specified. |
| boolean | [**isFileTypeSupported**](http://docs.google.com/javax/sound/midi/spi/MidiFileWriter.html#isFileTypeSupported(int))(int fileType)            Indicates whether file writing support for the specified MIDI file type is provided by this file writer. |
| boolean | [**isFileTypeSupported**](http://docs.google.com/javax/sound/midi/spi/MidiFileWriter.html#isFileTypeSupported(int,%20javax.sound.midi.Sequence))(int fileType, [Sequence](http://docs.google.com/javax/sound/midi/Sequence.html) sequence)            Indicates whether a MIDI file of the file type specified can be written from the sequence indicated. |
| abstract  int | [**write**](http://docs.google.com/javax/sound/midi/spi/MidiFileWriter.html#write(javax.sound.midi.Sequence,%20int,%20java.io.File))([Sequence](http://docs.google.com/javax/sound/midi/Sequence.html) in, int fileType, [File](http://docs.google.com/java/io/File.html) out)            Writes a stream of bytes representing a MIDI file of the file type indicated to the external file provided. |
| abstract  int | [**write**](http://docs.google.com/javax/sound/midi/spi/MidiFileWriter.html#write(javax.sound.midi.Sequence,%20int,%20java.io.OutputStream))([Sequence](http://docs.google.com/javax/sound/midi/Sequence.html) in, int fileType, [OutputStream](http://docs.google.com/java/io/OutputStream.html) out)            Writes a stream of bytes representing a MIDI file of the file type indicated to the output stream provided. |

| **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** |
| --- |

### MidiFileWriter

public **MidiFileWriter**()

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

### getMidiFileTypes

public abstract int[] **getMidiFileTypes**()

Obtains the set of MIDI file types for which file writing support is provided by this file writer.

**Returns:**array of file types. If no file types are supported, an array of length 0 is returned.

### getMidiFileTypes

public abstract int[] **getMidiFileTypes**([Sequence](http://docs.google.com/javax/sound/midi/Sequence.html) sequence)

Obtains the file types that this file writer can write from the sequence specified.

**Parameters:**sequence - the sequence for which MIDI file type support is queried **Returns:**array of file types. If no file types are supported, returns an array of length 0.

### isFileTypeSupported

public boolean **isFileTypeSupported**(int fileType)

Indicates whether file writing support for the specified MIDI file type is provided by this file writer.

**Parameters:**fileType - the file type for which write capabilities are queried **Returns:**true if the file type is supported, otherwise false

### isFileTypeSupported

public boolean **isFileTypeSupported**(int fileType,  
 [Sequence](http://docs.google.com/javax/sound/midi/Sequence.html) sequence)

Indicates whether a MIDI file of the file type specified can be written from the sequence indicated.

**Parameters:**fileType - the file type for which write capabilities are queriedsequence - the sequence for which file writing support is queried **Returns:**true if the file type is supported for this sequence, otherwise false

### write

public abstract int **write**([Sequence](http://docs.google.com/javax/sound/midi/Sequence.html) in,  
 int fileType,  
 [OutputStream](http://docs.google.com/java/io/OutputStream.html) out)  
 throws [IOException](http://docs.google.com/java/io/IOException.html)

Writes a stream of bytes representing a MIDI file of the file type indicated to the output stream provided.

**Parameters:**in - sequence containing MIDI data to be written to the filefileType - type of the file to be written to the output streamout - stream to which the file data should be written **Returns:**the number of bytes written to the output stream **Throws:** [IOException](http://docs.google.com/java/io/IOException.html) - if an I/O exception occurs [IllegalArgumentException](http://docs.google.com/java/lang/IllegalArgumentException.html) - if the file type is not supported by this file writer**See Also:**[isFileTypeSupported(int, Sequence)](http://docs.google.com/javax/sound/midi/spi/MidiFileWriter.html#isFileTypeSupported(int,%20javax.sound.midi.Sequence)), [getMidiFileTypes(Sequence)](http://docs.google.com/javax/sound/midi/spi/MidiFileWriter.html#getMidiFileTypes(javax.sound.midi.Sequence))

### write

public abstract int **write**([Sequence](http://docs.google.com/javax/sound/midi/Sequence.html) in,  
 int fileType,  
 [File](http://docs.google.com/java/io/File.html) out)  
 throws [IOException](http://docs.google.com/java/io/IOException.html)

Writes a stream of bytes representing a MIDI file of the file type indicated to the external file provided.

**Parameters:**in - sequence containing MIDI data to be written to the external filefileType - type of the file to be written to the external fileout - external file to which the file data should be written **Returns:**the number of bytes written to the file **Throws:** [IOException](http://docs.google.com/java/io/IOException.html) - if an I/O exception occurs [IllegalArgumentException](http://docs.google.com/java/lang/IllegalArgumentException.html) - if the file type is not supported by this file writer**See Also:**[isFileTypeSupported(int, Sequence)](http://docs.google.com/javax/sound/midi/spi/MidiFileWriter.html#isFileTypeSupported(int,%20javax.sound.midi.Sequence)), [getMidiFileTypes(Sequence)](http://docs.google.com/javax/sound/midi/spi/MidiFileWriter.html#getMidiFileTypes(javax.sound.midi.Sequence))

| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/MidiFileWriter.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/javax/sound/midi/spi/MidiFileReader.html)   [**NEXT CLASS**](http://docs.google.com/javax/sound/midi/spi/SoundbankReader.html) | [**FRAMES**](http://docs.google.com/index.html?javax/sound/midi/spi/MidiFileWriter.html)    [**NO FRAMES**](http://docs.google.com/MidiFileWriter.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | FIELD | [CONSTR](#3znysh7) | [METHOD](#2et92p0) | DETAIL: FIELD | [CONSTR](#3dy6vkm) | [METHOD](#4d34og8) |

[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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