| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/MidiFileReader.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/MidiDeviceProvider.html)   [**NEXT CLASS**](http://docs.google.com/javax/sound/midi/spi/MidiFileWriter.html) | [**FRAMES**](http://docs.google.com/index.html?javax/sound/midi/spi/MidiFileReader.html)    [**NO FRAMES**](http://docs.google.com/MidiFileReader.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 MidiFileReader

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

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

A MidiFileReader supplies MIDI file-reading services. Classes implementing this interface can parse the format information from one or more types of MIDI file, and can produce a Sequence object from files of these types.

**Since:** 1.3

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

| **Method Summary** | |
| --- | --- |
| abstract  [MidiFileFormat](http://docs.google.com/javax/sound/midi/MidiFileFormat.html) | [**getMidiFileFormat**](http://docs.google.com/javax/sound/midi/spi/MidiFileReader.html#getMidiFileFormat(java.io.File))([File](http://docs.google.com/java/io/File.html) file)            Obtains the MIDI file format of the File provided. |
| abstract  [MidiFileFormat](http://docs.google.com/javax/sound/midi/MidiFileFormat.html) | [**getMidiFileFormat**](http://docs.google.com/javax/sound/midi/spi/MidiFileReader.html#getMidiFileFormat(java.io.InputStream))([InputStream](http://docs.google.com/java/io/InputStream.html) stream)            Obtains the MIDI file format of the input stream provided. |
| abstract  [MidiFileFormat](http://docs.google.com/javax/sound/midi/MidiFileFormat.html) | [**getMidiFileFormat**](http://docs.google.com/javax/sound/midi/spi/MidiFileReader.html#getMidiFileFormat(java.net.URL))([URL](http://docs.google.com/java/net/URL.html) url)            Obtains the MIDI file format of the URL provided. |
| abstract  [Sequence](http://docs.google.com/javax/sound/midi/Sequence.html) | [**getSequence**](http://docs.google.com/javax/sound/midi/spi/MidiFileReader.html#getSequence(java.io.File))([File](http://docs.google.com/java/io/File.html) file)            Obtains a MIDI sequence from the File provided. |
| abstract  [Sequence](http://docs.google.com/javax/sound/midi/Sequence.html) | [**getSequence**](http://docs.google.com/javax/sound/midi/spi/MidiFileReader.html#getSequence(java.io.InputStream))([InputStream](http://docs.google.com/java/io/InputStream.html) stream)            Obtains a MIDI sequence from the input stream provided. |
| abstract  [Sequence](http://docs.google.com/javax/sound/midi/Sequence.html) | [**getSequence**](http://docs.google.com/javax/sound/midi/spi/MidiFileReader.html#getSequence(java.net.URL))([URL](http://docs.google.com/java/net/URL.html) url)            Obtains a MIDI sequence from the URL 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** |
| --- |

### MidiFileReader

public **MidiFileReader**()

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

### getMidiFileFormat

public abstract [MidiFileFormat](http://docs.google.com/javax/sound/midi/MidiFileFormat.html) **getMidiFileFormat**([InputStream](http://docs.google.com/java/io/InputStream.html) stream)  
 throws [InvalidMidiDataException](http://docs.google.com/javax/sound/midi/InvalidMidiDataException.html),  
 [IOException](http://docs.google.com/java/io/IOException.html)

Obtains the MIDI file format of the input stream provided. The stream must point to valid MIDI file data. In general, MIDI file readers may need to read some data from the stream before determining whether they support it. These parsers must be able to mark the stream, read enough data to determine whether they support the stream, and, if not, reset the stream's read pointer to its original position. If the input stream does not support this, this method may fail with an IOException.

**Parameters:**stream - the input stream from which file format information should be extracted **Returns:**a MidiFileFormat object describing the MIDI file format **Throws:** [InvalidMidiDataException](http://docs.google.com/javax/sound/midi/InvalidMidiDataException.html) - if the stream does not point to valid MIDI file data recognized by the system [IOException](http://docs.google.com/java/io/IOException.html) - if an I/O exception occurs**See Also:**[InputStream.markSupported()](http://docs.google.com/java/io/InputStream.html#markSupported()), [InputStream.mark(int)](http://docs.google.com/java/io/InputStream.html#mark(int))

### getMidiFileFormat

public abstract [MidiFileFormat](http://docs.google.com/javax/sound/midi/MidiFileFormat.html) **getMidiFileFormat**([URL](http://docs.google.com/java/net/URL.html) url)  
 throws [InvalidMidiDataException](http://docs.google.com/javax/sound/midi/InvalidMidiDataException.html),  
 [IOException](http://docs.google.com/java/io/IOException.html)

Obtains the MIDI file format of the URL provided. The URL must point to valid MIDI file data.

**Parameters:**url - the URL from which file format information should be extracted **Returns:**a MidiFileFormat object describing the MIDI file format **Throws:** [InvalidMidiDataException](http://docs.google.com/javax/sound/midi/InvalidMidiDataException.html) - if the URL does not point to valid MIDI file data recognized by the system [IOException](http://docs.google.com/java/io/IOException.html) - if an I/O exception occurs

### getMidiFileFormat

public abstract [MidiFileFormat](http://docs.google.com/javax/sound/midi/MidiFileFormat.html) **getMidiFileFormat**([File](http://docs.google.com/java/io/File.html) file)  
 throws [InvalidMidiDataException](http://docs.google.com/javax/sound/midi/InvalidMidiDataException.html),  
 [IOException](http://docs.google.com/java/io/IOException.html)

Obtains the MIDI file format of the File provided. The File must point to valid MIDI file data.

**Parameters:**file - the File from which file format information should be extracted **Returns:**a MidiFileFormat object describing the MIDI file format **Throws:** [InvalidMidiDataException](http://docs.google.com/javax/sound/midi/InvalidMidiDataException.html) - if the File does not point to valid MIDI file data recognized by the system [IOException](http://docs.google.com/java/io/IOException.html) - if an I/O exception occurs

### getSequence

public abstract [Sequence](http://docs.google.com/javax/sound/midi/Sequence.html) **getSequence**([InputStream](http://docs.google.com/java/io/InputStream.html) stream)  
 throws [InvalidMidiDataException](http://docs.google.com/javax/sound/midi/InvalidMidiDataException.html),  
 [IOException](http://docs.google.com/java/io/IOException.html)

Obtains a MIDI sequence from the input stream provided. The stream must point to valid MIDI file data. In general, MIDI file readers may need to read some data from the stream before determining whether they support it. These parsers must be able to mark the stream, read enough data to determine whether they support the stream, and, if not, reset the stream's read pointer to its original position. If the input stream does not support this, this method may fail with an IOException.

**Parameters:**stream - the input stream from which the Sequence should be constructed **Returns:**a Sequence object based on the MIDI file data contained in the input stream. **Throws:** [InvalidMidiDataException](http://docs.google.com/javax/sound/midi/InvalidMidiDataException.html) - if the stream does not point to valid MIDI file data recognized by the system [IOException](http://docs.google.com/java/io/IOException.html) - if an I/O exception occurs**See Also:**[InputStream.markSupported()](http://docs.google.com/java/io/InputStream.html#markSupported()), [InputStream.mark(int)](http://docs.google.com/java/io/InputStream.html#mark(int))

### getSequence

public abstract [Sequence](http://docs.google.com/javax/sound/midi/Sequence.html) **getSequence**([URL](http://docs.google.com/java/net/URL.html) url)  
 throws [InvalidMidiDataException](http://docs.google.com/javax/sound/midi/InvalidMidiDataException.html),  
 [IOException](http://docs.google.com/java/io/IOException.html)

Obtains a MIDI sequence from the URL provided. The URL must point to valid MIDI file data.

**Parameters:**url - the URL for which the Sequence should be constructed **Returns:**a Sequence object based on the MIDI file data pointed to by the URL **Throws:** [InvalidMidiDataException](http://docs.google.com/javax/sound/midi/InvalidMidiDataException.html) - if the URL does not point to valid MIDI file data recognized by the system [IOException](http://docs.google.com/java/io/IOException.html) - if an I/O exception occurs

### getSequence

public abstract [Sequence](http://docs.google.com/javax/sound/midi/Sequence.html) **getSequence**([File](http://docs.google.com/java/io/File.html) file)  
 throws [InvalidMidiDataException](http://docs.google.com/javax/sound/midi/InvalidMidiDataException.html),  
 [IOException](http://docs.google.com/java/io/IOException.html)

Obtains a MIDI sequence from the File provided. The File must point to valid MIDI file data.

**Parameters:**file - the File from which the Sequence should be constructed **Returns:**a Sequence object based on the MIDI file data pointed to by the File **Throws:** [InvalidMidiDataException](http://docs.google.com/javax/sound/midi/InvalidMidiDataException.html) - if the File does not point to valid MIDI file data recognized by the system [IOException](http://docs.google.com/java/io/IOException.html) - if an I/O exception occurs

| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/MidiFileReader.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/MidiDeviceProvider.html)   [**NEXT CLASS**](http://docs.google.com/javax/sound/midi/spi/MidiFileWriter.html) | [**FRAMES**](http://docs.google.com/index.html?javax/sound/midi/spi/MidiFileReader.html)    [**NO FRAMES**](http://docs.google.com/MidiFileReader.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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