| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | Class | **Use** | [**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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| PREV   NEXT | [**FRAMES**](http://docs.google.com/index.html?javax/sound/midi/package-use.html)    [**NO FRAMES**](http://docs.google.com/package-use.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |

**Uses of Package**

**javax.sound.midi**

| Packages that use [javax.sound.midi](http://docs.google.com/javax/sound/midi/package-summary.html) | |
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| [**javax.sound.midi**](#3znysh7) | Provides interfaces and classes for I/O, sequencing, and synthesis of MIDI (Musical Instrument Digital Interface) data. |
| [**javax.sound.midi.spi**](#2et92p0) | Supplies interfaces for service providers to implement when offering new MIDI devices, MIDI file readers and writers, or sound bank readers. |

| Classes in [javax.sound.midi](http://docs.google.com/javax/sound/midi/package-summary.html) used by [javax.sound.midi](http://docs.google.com/javax/sound/midi/package-summary.html) | |
| --- | --- |
| [**ControllerEventListener**](http://docs.google.com/javax/sound/midi/class-use/ControllerEventListener.html#javax.sound.midi)            The ControllerEventListener interface should be implemented by classes whose instances need to be notified when a Sequencer has processed a requested type of MIDI control-change event. |
| [**Instrument**](http://docs.google.com/javax/sound/midi/class-use/Instrument.html#javax.sound.midi)            An instrument is a sound-synthesis algorithm with certain parameter settings, usually designed to emulate a specific real-world musical instrument or to achieve a specific sort of sound effect. |
| [**InvalidMidiDataException**](http://docs.google.com/javax/sound/midi/class-use/InvalidMidiDataException.html#javax.sound.midi)            An InvalidMidiDataException indicates that inappropriate MIDI data was encountered. |
| [**MetaEventListener**](http://docs.google.com/javax/sound/midi/class-use/MetaEventListener.html#javax.sound.midi)            The MetaEventListener interface should be implemented by classes whose instances need to be notified when a [Sequencer](http://docs.google.com/javax/sound/midi/Sequencer.html) has processed a [MetaMessage](http://docs.google.com/javax/sound/midi/MetaMessage.html). |
| [**MetaMessage**](http://docs.google.com/javax/sound/midi/class-use/MetaMessage.html#javax.sound.midi)            A MetaMessage is a [MidiMessage](http://docs.google.com/javax/sound/midi/MidiMessage.html) that is not meaningful to synthesizers, but that can be stored in a MIDI file and interpreted by a sequencer program. |
| [**MidiChannel**](http://docs.google.com/javax/sound/midi/class-use/MidiChannel.html#javax.sound.midi)            A MidiChannel object represents a single MIDI channel. |
| [**MidiDevice**](http://docs.google.com/javax/sound/midi/class-use/MidiDevice.html#javax.sound.midi)            MidiDevice is the base interface for all MIDI devices. |
| [**MidiDevice.Info**](http://docs.google.com/javax/sound/midi/class-use/MidiDevice.Info.html#javax.sound.midi)            A MidiDevice.Info object contains assorted data about a [MidiDevice](http://docs.google.com/javax/sound/midi/MidiDevice.html), including its name, the company who created it, and descriptive text. |
| [**MidiEvent**](http://docs.google.com/javax/sound/midi/class-use/MidiEvent.html#javax.sound.midi)            MIDI events contain a MIDI message and a corresponding time-stamp expressed in ticks, and can represent the MIDI event information stored in a MIDI file or a [Sequence](http://docs.google.com/javax/sound/midi/Sequence.html) object. |
| [**MidiFileFormat**](http://docs.google.com/javax/sound/midi/class-use/MidiFileFormat.html#javax.sound.midi)            A MidiFileFormat object encapsulates a MIDI file's type, as well as its length and timing information. |
| [**MidiMessage**](http://docs.google.com/javax/sound/midi/class-use/MidiMessage.html#javax.sound.midi)            MidiMessage is the base class for MIDI messages. |
| [**MidiUnavailableException**](http://docs.google.com/javax/sound/midi/class-use/MidiUnavailableException.html#javax.sound.midi)            A MidiUnavailableException is thrown when a requested MIDI component cannot be opened or created because it is unavailable. |
| [**Patch**](http://docs.google.com/javax/sound/midi/class-use/Patch.html#javax.sound.midi)            A Patch object represents a location, on a MIDI synthesizer, into which a single instrument is stored (loaded). |
| [**Receiver**](http://docs.google.com/javax/sound/midi/class-use/Receiver.html#javax.sound.midi)            A Receiver receives [MidiEvent](http://docs.google.com/javax/sound/midi/MidiEvent.html) objects and typically does something useful in response, such as interpreting them to generate sound or raw MIDI output. |
| [**Sequence**](http://docs.google.com/javax/sound/midi/class-use/Sequence.html#javax.sound.midi)            A Sequence is a data structure containing musical information (often an entire song or composition) that can be played back by a [Sequencer](http://docs.google.com/javax/sound/midi/Sequencer.html) object. |
| [**Sequencer**](http://docs.google.com/javax/sound/midi/class-use/Sequencer.html#javax.sound.midi)            A hardware or software device that plays back a MIDI [sequence](http://docs.google.com/javax/sound/midi/Sequence.html) is known as a *sequencer*. |
| [**Sequencer.SyncMode**](http://docs.google.com/javax/sound/midi/class-use/Sequencer.SyncMode.html#javax.sound.midi)            A SyncMode object represents one of the ways in which a MIDI sequencer's notion of time can be synchronized with a master or slave device. |
| [**ShortMessage**](http://docs.google.com/javax/sound/midi/class-use/ShortMessage.html#javax.sound.midi)            A ShortMessage contains a MIDI message that has at most two data bytes following its status byte. |
| [**Soundbank**](http://docs.google.com/javax/sound/midi/class-use/Soundbank.html#javax.sound.midi)            A Soundbank contains a set of Instruments that can be loaded into a Synthesizer. |
| [**SoundbankResource**](http://docs.google.com/javax/sound/midi/class-use/SoundbankResource.html#javax.sound.midi)            A SoundbankResource represents any audio resource stored in a [Soundbank](http://docs.google.com/javax/sound/midi/Soundbank.html). |
| [**Synthesizer**](http://docs.google.com/javax/sound/midi/class-use/Synthesizer.html#javax.sound.midi)            A Synthesizer generates sound. |
| [**Track**](http://docs.google.com/javax/sound/midi/class-use/Track.html#javax.sound.midi)            A MIDI track is an independent stream of MIDI events (time-stamped MIDI data) that can be stored along with other tracks in a standard MIDI file. |
| [**Transmitter**](http://docs.google.com/javax/sound/midi/class-use/Transmitter.html#javax.sound.midi)            A Transmitter sends [MidiEvent](http://docs.google.com/javax/sound/midi/MidiEvent.html) objects to one or more [Receivers](http://docs.google.com/javax/sound/midi/Receiver.html). |
| [**VoiceStatus**](http://docs.google.com/javax/sound/midi/class-use/VoiceStatus.html#javax.sound.midi)            A VoiceStatus object contains information about the current status of one of the voices produced by a [Synthesizer](http://docs.google.com/javax/sound/midi/Synthesizer.html). |

| Classes in [javax.sound.midi](http://docs.google.com/javax/sound/midi/package-summary.html) used by [javax.sound.midi.spi](http://docs.google.com/javax/sound/midi/spi/package-summary.html) | |
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| [**InvalidMidiDataException**](http://docs.google.com/javax/sound/midi/class-use/InvalidMidiDataException.html#javax.sound.midi.spi)            An InvalidMidiDataException indicates that inappropriate MIDI data was encountered. |
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| [**Sequence**](http://docs.google.com/javax/sound/midi/class-use/Sequence.html#javax.sound.midi.spi)            A Sequence is a data structure containing musical information (often an entire song or composition) that can be played back by a [Sequencer](http://docs.google.com/javax/sound/midi/Sequencer.html) object. |
| [**Soundbank**](http://docs.google.com/javax/sound/midi/class-use/Soundbank.html#javax.sound.midi.spi)            A Soundbank contains a set of Instruments that can be loaded into a Synthesizer. |

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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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