| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/ImageInputStreamSpi.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/imageio/spi/IIOServiceProvider.html)   [**NEXT CLASS**](http://docs.google.com/javax/imageio/spi/ImageOutputStreamSpi.html) | [**FRAMES**](http://docs.google.com/index.html?javax/imageio/spi/ImageInputStreamSpi.html)    [**NO FRAMES**](http://docs.google.com/ImageInputStreamSpi.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | [FIELD](#3znysh7) | [CONSTR](#tyjcwt) | [METHOD](#3dy6vkm) | DETAIL: [FIELD](#2s8eyo1) | [CONSTR](#3rdcrjn) | [METHOD](#35nkun2) |

## **javax.imageio.spi**

Class ImageInputStreamSpi

[java.lang.Object](http://docs.google.com/java/lang/Object.html)  
 [javax.imageio.spi.IIOServiceProvider](http://docs.google.com/javax/imageio/spi/IIOServiceProvider.html)  
 **javax.imageio.spi.ImageInputStreamSpi**

**All Implemented Interfaces:** [RegisterableService](http://docs.google.com/javax/imageio/spi/RegisterableService.html)

public abstract class **ImageInputStreamSpi**extends [IIOServiceProvider](http://docs.google.com/javax/imageio/spi/IIOServiceProvider.html)

The service provider interface (SPI) for ImageInputStreams. For more information on service provider interfaces, see the class comment for the IIORegistry class.

This interface allows arbitrary objects to be "wrapped" by instances of ImageInputStream. For example, a particular ImageInputStreamSpi might allow a generic InputStream to be used as an input source; another might take input from a URL.

By treating the creation of ImageInputStreams as a pluggable service, it becomes possible to handle future input sources without changing the API. Also, high-performance implementations of ImageInputStream (for example, native implementations for a particular platform) can be installed and used transparently by applications.

**See Also:**[IIORegistry](http://docs.google.com/javax/imageio/spi/IIORegistry.html), [ImageInputStream](http://docs.google.com/javax/imageio/stream/ImageInputStream.html)

| **Field Summary** | |
| --- | --- |
| protected  [Class](http://docs.google.com/java/lang/Class.html)<?> | [**inputClass**](http://docs.google.com/javax/imageio/spi/ImageInputStreamSpi.html#inputClass)            A Class object indicating the legal object type for use by the createInputStreamInstance method. |

| **Fields inherited from class javax.imageio.spi.**[**IIOServiceProvider**](http://docs.google.com/javax/imageio/spi/IIOServiceProvider.html) |
| --- |
| [vendorName](http://docs.google.com/javax/imageio/spi/IIOServiceProvider.html#vendorName), [version](http://docs.google.com/javax/imageio/spi/IIOServiceProvider.html#version) |

| **Constructor Summary** | |
| --- | --- |
| protected | [**ImageInputStreamSpi**](http://docs.google.com/javax/imageio/spi/ImageInputStreamSpi.html#ImageInputStreamSpi())()            Constructs a blank ImageInputStreamSpi. |
|  | [**ImageInputStreamSpi**](http://docs.google.com/javax/imageio/spi/ImageInputStreamSpi.html#ImageInputStreamSpi(java.lang.String,%20java.lang.String,%20java.lang.Class))([String](http://docs.google.com/java/lang/String.html) vendorName, [String](http://docs.google.com/java/lang/String.html) version, [Class](http://docs.google.com/java/lang/Class.html)<?> inputClass)            Constructs an ImageInputStreamSpi with a given set of values. |

| **Method Summary** | |
| --- | --- |
| boolean | [**canUseCacheFile**](http://docs.google.com/javax/imageio/spi/ImageInputStreamSpi.html#canUseCacheFile())()            Returns true if the ImageInputStream implementation associated with this service provider can optionally make use of a cache file for improved performance and/or memory footrprint. |
| [ImageInputStream](http://docs.google.com/javax/imageio/stream/ImageInputStream.html) | [**createInputStreamInstance**](http://docs.google.com/javax/imageio/spi/ImageInputStreamSpi.html#createInputStreamInstance(java.lang.Object))([Object](http://docs.google.com/java/lang/Object.html) input)            Returns an instance of the ImageInputStream implementation associated with this service provider. |
| abstract  [ImageInputStream](http://docs.google.com/javax/imageio/stream/ImageInputStream.html) | [**createInputStreamInstance**](http://docs.google.com/javax/imageio/spi/ImageInputStreamSpi.html#createInputStreamInstance(java.lang.Object,%20boolean,%20java.io.File))([Object](http://docs.google.com/java/lang/Object.html) input, boolean useCache, [File](http://docs.google.com/java/io/File.html) cacheDir)            Returns an instance of the ImageInputStream implementation associated with this service provider. |
| [Class](http://docs.google.com/java/lang/Class.html)<?> | [**getInputClass**](http://docs.google.com/javax/imageio/spi/ImageInputStreamSpi.html#getInputClass())()            Returns a Class object representing the class or interface type that must be implemented by an input source in order to be "wrapped" in an ImageInputStream via the createInputStreamInstance method. |
| boolean | [**needsCacheFile**](http://docs.google.com/javax/imageio/spi/ImageInputStreamSpi.html#needsCacheFile())()            Returns true if the ImageInputStream implementation associated with this service provider requires the use of a cache File. |

| **Methods inherited from class javax.imageio.spi.**[**IIOServiceProvider**](http://docs.google.com/javax/imageio/spi/IIOServiceProvider.html) |
| --- |
| [getDescription](http://docs.google.com/javax/imageio/spi/IIOServiceProvider.html#getDescription(java.util.Locale)), [getVendorName](http://docs.google.com/javax/imageio/spi/IIOServiceProvider.html#getVendorName()), [getVersion](http://docs.google.com/javax/imageio/spi/IIOServiceProvider.html#getVersion()), [onDeregistration](http://docs.google.com/javax/imageio/spi/IIOServiceProvider.html#onDeregistration(javax.imageio.spi.ServiceRegistry,%20java.lang.Class)), [onRegistration](http://docs.google.com/javax/imageio/spi/IIOServiceProvider.html#onRegistration(javax.imageio.spi.ServiceRegistry,%20java.lang.Class)) |

| **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)) |

| **Field Detail** |
| --- |

### inputClass

protected [Class](http://docs.google.com/java/lang/Class.html)<?> **inputClass**

A Class object indicating the legal object type for use by the createInputStreamInstance method.

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

### ImageInputStreamSpi

protected **ImageInputStreamSpi**()

Constructs a blank ImageInputStreamSpi. It is up to the subclass to initialize instance variables and/or override method implementations in order to provide working versions of all methods.

### ImageInputStreamSpi

public **ImageInputStreamSpi**([String](http://docs.google.com/java/lang/String.html) vendorName,  
 [String](http://docs.google.com/java/lang/String.html) version,  
 [Class](http://docs.google.com/java/lang/Class.html)<?> inputClass)

Constructs an ImageInputStreamSpi with a given set of values.

**Parameters:**vendorName - the vendor name.version - a version identifier.inputClass - a Class object indicating the legal object type for use by the createInputStreamInstance method. **Throws:** [IllegalArgumentException](http://docs.google.com/java/lang/IllegalArgumentException.html) - if vendorName is null. [IllegalArgumentException](http://docs.google.com/java/lang/IllegalArgumentException.html) - if version is null.

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

### getInputClass

public [Class](http://docs.google.com/java/lang/Class.html)<?> **getInputClass**()

Returns a Class object representing the class or interface type that must be implemented by an input source in order to be "wrapped" in an ImageInputStream via the createInputStreamInstance method.

Typical return values might include InputStream.class or URL.class, but any class may be used.

**Returns:**a Class variable.**See Also:**[createInputStreamInstance(Object, boolean, File)](http://docs.google.com/javax/imageio/spi/ImageInputStreamSpi.html#createInputStreamInstance(java.lang.Object,%20boolean,%20java.io.File))

### canUseCacheFile

public boolean **canUseCacheFile**()

Returns true if the ImageInputStream implementation associated with this service provider can optionally make use of a cache file for improved performance and/or memory footrprint. If false, the value of the useCache argument to createInputStreamInstance will be ignored.

The default implementation returns false.

**Returns:**true if a cache file can be used by the input streams created by this service provider.

### needsCacheFile

public boolean **needsCacheFile**()

Returns true if the ImageInputStream implementation associated with this service provider requires the use of a cache File. If true, the value of the useCache argument to createInputStreamInstance will be ignored.

The default implementation returns false.

**Returns:**true if a cache file is needed by the input streams created by this service provider.

### createInputStreamInstance

public abstract [ImageInputStream](http://docs.google.com/javax/imageio/stream/ImageInputStream.html) **createInputStreamInstance**([Object](http://docs.google.com/java/lang/Object.html) input,  
 boolean useCache,  
 [File](http://docs.google.com/java/io/File.html) cacheDir)  
 throws [IOException](http://docs.google.com/java/io/IOException.html)

Returns an instance of the ImageInputStream implementation associated with this service provider. If the use of a cache file is optional, the useCache parameter will be consulted. Where a cache is required, or not applicable, the value of useCache will be ignored.

**Parameters:**input - an object of the class type returned by getInputClass.useCache - a boolean indicating whether a cache file should be used, in cases where it is optional.cacheDir - a File indicating where the cache file should be created, or null to use the system directory. **Returns:**an ImageInputStream instance. **Throws:** [IllegalArgumentException](http://docs.google.com/java/lang/IllegalArgumentException.html) - if input is not an instance of the correct class or is null. [IllegalArgumentException](http://docs.google.com/java/lang/IllegalArgumentException.html) - if a cache file is needed but cacheDir is non-null and is not a directory. [IOException](http://docs.google.com/java/io/IOException.html) - if a cache file is needed but cannot be created.**See Also:**[getInputClass()](http://docs.google.com/javax/imageio/spi/ImageInputStreamSpi.html#getInputClass()), [canUseCacheFile()](http://docs.google.com/javax/imageio/spi/ImageInputStreamSpi.html#canUseCacheFile()), [needsCacheFile()](http://docs.google.com/javax/imageio/spi/ImageInputStreamSpi.html#needsCacheFile())

### createInputStreamInstance

public [ImageInputStream](http://docs.google.com/javax/imageio/stream/ImageInputStream.html) **createInputStreamInstance**([Object](http://docs.google.com/java/lang/Object.html) input)  
 throws [IOException](http://docs.google.com/java/io/IOException.html)

Returns an instance of the ImageInputStream implementation associated with this service provider. A cache file will be created in the system-dependent default temporary-file directory, if needed.

**Parameters:**input - an object of the class type returned by getInputClass. **Returns:**an ImageInputStream instance. **Throws:** [IllegalArgumentException](http://docs.google.com/java/lang/IllegalArgumentException.html) - if input is not an instance of the correct class or is null. [IOException](http://docs.google.com/java/io/IOException.html) - if a cache file is needed but cannot be created.**See Also:**[getInputClass()](http://docs.google.com/javax/imageio/spi/ImageInputStreamSpi.html#getInputClass())

| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/ImageInputStreamSpi.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/imageio/spi/IIOServiceProvider.html)   [**NEXT CLASS**](http://docs.google.com/javax/imageio/spi/ImageOutputStreamSpi.html) | [**FRAMES**](http://docs.google.com/index.html?javax/imageio/spi/ImageInputStreamSpi.html)    [**NO FRAMES**](http://docs.google.com/ImageInputStreamSpi.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | [FIELD](#3znysh7) | [CONSTR](#tyjcwt) | [METHOD](#3dy6vkm) | DETAIL: [FIELD](#2s8eyo1) | [CONSTR](#3rdcrjn) | [METHOD](#35nkun2) |

[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).