| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/JMXServiceURL.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/management/remote/JMXServerErrorException.html)   [**NEXT CLASS**](http://docs.google.com/javax/management/remote/MBeanServerForwarder.html) | [**FRAMES**](http://docs.google.com/index.html?javax/management/remote/JMXServiceURL.html)    [**NO FRAMES**](http://docs.google.com/JMXServiceURL.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | FIELD | [CONSTR](#3znysh7) | [METHOD](#2et92p0) | DETAIL: FIELD | [CONSTR](#3dy6vkm) | [METHOD](#17dp8vu) |

## **javax.management.remote**

Class JMXServiceURL

[java.lang.Object](http://docs.google.com/java/lang/Object.html)  
 **javax.management.remote.JMXServiceURL**

**All Implemented Interfaces:** [Serializable](http://docs.google.com/java/io/Serializable.html)

public class **JMXServiceURL**extends [Object](http://docs.google.com/java/lang/Object.html)implements [Serializable](http://docs.google.com/java/io/Serializable.html)

The address of a JMX API connector server. Instances of this class are immutable.

The address is an *Abstract Service URL* for SLP, as defined in RFC 2609 and amended by RFC 3111. It must look like this:

service:jmx:*protocol*:*sap*

Here, *protocol* is the transport protocol to be used to connect to the connector server. It is a string of one or more ASCII characters, each of which is a letter, a digit, or one of the characters + or -. The first character must be a letter. Uppercase letters are converted into lowercase ones.

*sap* is the address at which the connector server is found. This address uses a subset of the syntax defined by RFC 2609 for IP-based protocols. It is a subset because the user@host syntax is not supported.

The other syntaxes defined by RFC 2609 are not currently supported by this class.

The supported syntax is:

//*[host[*:*port]][url-path]*

Square brackets [] indicate optional parts of the address. Not all protocols will recognize all optional parts.

The *host* is a host name, an IPv4 numeric host address, or an IPv6 numeric address enclosed in square brackets.

The *port* is a decimal port number. 0 means a default or anonymous port, depending on the protocol.

The *host* and *port* can be omitted. The *port* cannot be supplied without a *host*.

The *url-path*, if any, begins with a slash (/) or a semicolon (;) and continues to the end of the address. It can contain attributes using the semicolon syntax specified in RFC 2609. Those attributes are not parsed by this class and incorrect attribute syntax is not detected.

Although it is legal according to RFC 2609 to have a *url-path* that begins with a semicolon, not all implementations of SLP allow it, so it is recommended to avoid that syntax.

Case is not significant in the initial service:jmx:*protocol* string or in the host part of the address. Depending on the protocol, case can be significant in the *url-path*.

**Since:** 1.5 **See Also:**[RFC 2609, "Service Templates and Service: Schemes"](ftp://ftp.rfc-editor.org/in-notes/rfc2609.txt), [RFC 3111, "Service Location Protocol Modifications for IPv6"](ftp://ftp.rfc-editor.org/in-notes/rfc3111.txt), [Serialized Form](http://docs.google.com/serialized-form.html#javax.management.remote.JMXServiceURL)

| **Constructor Summary** | |
| --- | --- |
| [**JMXServiceURL**](http://docs.google.com/javax/management/remote/JMXServiceURL.html#JMXServiceURL(java.lang.String))([String](http://docs.google.com/java/lang/String.html) serviceURL)            Constructs a JMXServiceURL by parsing a Service URL string. |
| [**JMXServiceURL**](http://docs.google.com/javax/management/remote/JMXServiceURL.html#JMXServiceURL(java.lang.String,%20java.lang.String,%20int))([String](http://docs.google.com/java/lang/String.html) protocol, [String](http://docs.google.com/java/lang/String.html) host, int port)            Constructs a JMXServiceURL with the given protocol, host, and port. |
| [**JMXServiceURL**](http://docs.google.com/javax/management/remote/JMXServiceURL.html#JMXServiceURL(java.lang.String,%20java.lang.String,%20int,%20java.lang.String))([String](http://docs.google.com/java/lang/String.html) protocol, [String](http://docs.google.com/java/lang/String.html) host, int port, [String](http://docs.google.com/java/lang/String.html) urlPath)            Constructs a JMXServiceURL with the given parts. |

| **Method Summary** | |
| --- | --- |
| boolean | [**equals**](http://docs.google.com/javax/management/remote/JMXServiceURL.html#equals(java.lang.Object))([Object](http://docs.google.com/java/lang/Object.html) obj)            Indicates whether some other object is equal to this one. |
| [String](http://docs.google.com/java/lang/String.html) | [**getHost**](http://docs.google.com/javax/management/remote/JMXServiceURL.html#getHost())()            The host part of the Service URL. |
| int | [**getPort**](http://docs.google.com/javax/management/remote/JMXServiceURL.html#getPort())()            The port of the Service URL. |
| [String](http://docs.google.com/java/lang/String.html) | [**getProtocol**](http://docs.google.com/javax/management/remote/JMXServiceURL.html#getProtocol())()            The protocol part of the Service URL. |
| [String](http://docs.google.com/java/lang/String.html) | [**getURLPath**](http://docs.google.com/javax/management/remote/JMXServiceURL.html#getURLPath())()            The URL Path part of the Service URL. |
| int | [**hashCode**](http://docs.google.com/javax/management/remote/JMXServiceURL.html#hashCode())()            Returns a hash code value for the object. |
| [String](http://docs.google.com/java/lang/String.html) | [**toString**](http://docs.google.com/javax/management/remote/JMXServiceURL.html#toString())()            The string representation of this Service URL. |

| **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()), [finalize](http://docs.google.com/java/lang/Object.html#finalize()), [getClass](http://docs.google.com/java/lang/Object.html#getClass()), [notify](http://docs.google.com/java/lang/Object.html#notify()), [notifyAll](http://docs.google.com/java/lang/Object.html#notifyAll()), [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** |
| --- |

### JMXServiceURL

public **JMXServiceURL**([String](http://docs.google.com/java/lang/String.html) serviceURL)  
 throws [MalformedURLException](http://docs.google.com/java/net/MalformedURLException.html)

Constructs a JMXServiceURL by parsing a Service URL string.

**Parameters:**serviceURL - the URL string to be parsed. **Throws:** [NullPointerException](http://docs.google.com/java/lang/NullPointerException.html) - if serviceURL is null. [MalformedURLException](http://docs.google.com/java/net/MalformedURLException.html) - if serviceURL does not conform to the syntax for an Abstract Service URL or if it is not a valid name for a JMX Remote API service. A JMXServiceURL must begin with the string "service:jmx:" (case-insensitive). It must not contain any characters that are not printable ASCII characters.

### JMXServiceURL

public **JMXServiceURL**([String](http://docs.google.com/java/lang/String.html) protocol,  
 [String](http://docs.google.com/java/lang/String.html) host,  
 int port)  
 throws [MalformedURLException](http://docs.google.com/java/net/MalformedURLException.html)

Constructs a JMXServiceURL with the given protocol, host, and port. This constructor is equivalent to [JMXServiceURL(protocol, host, port, null)](http://docs.google.com/javax/management/remote/JMXServiceURL.html#JMXServiceURL(java.lang.String,%20java.lang.String,%20int,%20java.lang.String)).

**Parameters:**protocol - the protocol part of the URL. If null, defaults to jmxmp.host - the host part of the URL. If null, defaults to the local host name, as determined by InetAddress.getLocalHost().getHostName(). If it is a numeric IPv6 address, it can optionally be enclosed in square brackets [].port - the port part of the URL. **Throws:** [MalformedURLException](http://docs.google.com/java/net/MalformedURLException.html) - if one of the parts is syntactically incorrect, or if host is null and it is not possible to find the local host name, or if port is negative.

### JMXServiceURL

public **JMXServiceURL**([String](http://docs.google.com/java/lang/String.html) protocol,  
 [String](http://docs.google.com/java/lang/String.html) host,  
 int port,  
 [String](http://docs.google.com/java/lang/String.html) urlPath)  
 throws [MalformedURLException](http://docs.google.com/java/net/MalformedURLException.html)

Constructs a JMXServiceURL with the given parts.

**Parameters:**protocol - the protocol part of the URL. If null, defaults to jmxmp.host - the host part of the URL. If null, defaults to the local host name, as determined by InetAddress.getLocalHost().getHostName(). If it is a numeric IPv6 address, it can optionally be enclosed in square brackets [].port - the port part of the URL.urlPath - the URL path part of the URL. If null, defaults to the empty string. **Throws:** [MalformedURLException](http://docs.google.com/java/net/MalformedURLException.html) - if one of the parts is syntactically incorrect, or if host is null and it is not possible to find the local host name, or if port is negative.

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

### getProtocol

public [String](http://docs.google.com/java/lang/String.html) **getProtocol**()

The protocol part of the Service URL.

**Returns:**the protocol part of the Service URL. This is never null.

### getHost

public [String](http://docs.google.com/java/lang/String.html) **getHost**()

The host part of the Service URL. If the Service URL was constructed with the constructor that takes a URL string parameter, the result is the substring specifying the host in that URL. If the Service URL was constructed with a constructor that takes a separate host parameter, the result is the string that was specified. If that string was null, the result is InetAddress.getLocalHost().getHostName().

In either case, if the host was specified using the [...] syntax for numeric IPv6 addresses, the square brackets are not included in the return value here.

**Returns:**the host part of the Service URL. This is never null.

### getPort

public int **getPort**()

The port of the Service URL. If no port was specified, the returned value is 0.

**Returns:**the port of the Service URL, or 0 if none.

### getURLPath

public [String](http://docs.google.com/java/lang/String.html) **getURLPath**()

The URL Path part of the Service URL. This is an empty string, or a string beginning with a slash (/), or a string beginning with a semicolon (;).

**Returns:**the URL Path part of the Service URL. This is never null.

### toString

public [String](http://docs.google.com/java/lang/String.html) **toString**()

The string representation of this Service URL. If the value returned by this method is supplied to the JMXServiceURL constructor, the resultant object is equal to this one.

The *host* part of the returned string is the value returned by [getHost()](http://docs.google.com/javax/management/remote/JMXServiceURL.html#getHost()). If that value specifies a numeric IPv6 address, it is surrounded by square brackets [].

The *port* part of the returned string is the value returned by [getPort()](http://docs.google.com/javax/management/remote/JMXServiceURL.html#getPort()) in its shortest decimal form. If the value is zero, it is omitted.

**Overrides:**[toString](http://docs.google.com/java/lang/Object.html#toString()) in class [Object](http://docs.google.com/java/lang/Object.html) **Returns:**the string representation of this Service URL.

### equals

public boolean **equals**([Object](http://docs.google.com/java/lang/Object.html) obj)

Indicates whether some other object is equal to this one. This method returns true if and only if obj is an instance of JMXServiceURL whose [getProtocol()](http://docs.google.com/javax/management/remote/JMXServiceURL.html#getProtocol()), [getHost()](http://docs.google.com/javax/management/remote/JMXServiceURL.html#getHost()), [getPort()](http://docs.google.com/javax/management/remote/JMXServiceURL.html#getPort()), and [getURLPath()](http://docs.google.com/javax/management/remote/JMXServiceURL.html#getURLPath()) methods return the same values as for this object. The values for [getProtocol()](http://docs.google.com/javax/management/remote/JMXServiceURL.html#getProtocol()) and [getHost()](http://docs.google.com/javax/management/remote/JMXServiceURL.html#getHost()) can differ in case without affecting equality.

**Overrides:**[equals](http://docs.google.com/java/lang/Object.html#equals(java.lang.Object)) in class [Object](http://docs.google.com/java/lang/Object.html) **Parameters:**obj - the reference object with which to compare. **Returns:**true if this object is the same as the obj argument; false otherwise.**See Also:**[Object.hashCode()](http://docs.google.com/java/lang/Object.html#hashCode()), [Hashtable](http://docs.google.com/java/util/Hashtable.html)

### hashCode

public int **hashCode**()

**Description copied from class:** [**Object**](http://docs.google.com/java/lang/Object.html#hashCode()) Returns a hash code value for the object. This method is supported for the benefit of hashtables such as those provided by java.util.Hashtable.

The general contract of hashCode is:

* Whenever it is invoked on the same object more than once during an execution of a Java application, the hashCode method must consistently return the same integer, provided no information used in equals comparisons on the object is modified. This integer need not remain consistent from one execution of an application to another execution of the same application.
* If two objects are equal according to the equals(Object) method, then calling the hashCode method on each of the two objects must produce the same integer result.
* It is *not* required that if two objects are unequal according to the [Object.equals(java.lang.Object)](http://docs.google.com/java/lang/Object.html#equals(java.lang.Object)) method, then calling the hashCode method on each of the two objects must produce distinct integer results. However, the programmer should be aware that producing distinct integer results for unequal objects may improve the performance of hashtables.

As much as is reasonably practical, the hashCode method defined by class Object does return distinct integers for distinct objects. (This is typically implemented by converting the internal address of the object into an integer, but this implementation technique is not required by the JavaTM programming language.)

**Overrides:**[hashCode](http://docs.google.com/java/lang/Object.html#hashCode()) in class [Object](http://docs.google.com/java/lang/Object.html) **Returns:**a hash code value for this object.**See Also:**[Object.equals(java.lang.Object)](http://docs.google.com/java/lang/Object.html#equals(java.lang.Object)), [Hashtable](http://docs.google.com/java/util/Hashtable.html)

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