| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/DirectoryManager.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   [**NEXT CLASS**](http://docs.google.com/javax/naming/spi/DirObjectFactory.html) | [**FRAMES**](http://docs.google.com/index.html?javax/naming/spi/DirectoryManager.html)    [**NO FRAMES**](http://docs.google.com/DirectoryManager.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | [FIELD](#2et92p0) | CONSTR | [METHOD](#tyjcwt) | DETAIL: FIELD | CONSTR | [METHOD](#4d34og8) |

## **javax.naming.spi**

Class DirectoryManager

[java.lang.Object](http://docs.google.com/java/lang/Object.html)  
 [javax.naming.spi.NamingManager](http://docs.google.com/javax/naming/spi/NamingManager.html)  
 **javax.naming.spi.DirectoryManager**

public class **DirectoryManager**extends [NamingManager](http://docs.google.com/javax/naming/spi/NamingManager.html)

This class contains methods for supporting DirContext implementations.

This class is an extension of NamingManager. It contains methods for use by service providers for accessing object factories and state factories, and for getting continuation contexts for supporting federation.

DirectoryManager is safe for concurrent access by multiple threads.

Except as otherwise noted, a Name, Attributes, or environment parameter passed to any method is owned by the caller. The implementation will not modify the object or keep a reference to it, although it may keep a reference to a clone or copy.

**Since:** 1.3 **See Also:**[DirObjectFactory](http://docs.google.com/javax/naming/spi/DirObjectFactory.html), [DirStateFactory](http://docs.google.com/javax/naming/spi/DirStateFactory.html)

| **Field Summary** | |
| --- | --- |

| **Fields inherited from class javax.naming.spi.**[**NamingManager**](http://docs.google.com/javax/naming/spi/NamingManager.html) |
| --- |
| [CPE](http://docs.google.com/javax/naming/spi/NamingManager.html#CPE) |

| **Method Summary** | |
| --- | --- |
| static [DirContext](http://docs.google.com/javax/naming/directory/DirContext.html) | [**getContinuationDirContext**](http://docs.google.com/javax/naming/spi/DirectoryManager.html#getContinuationDirContext(javax.naming.CannotProceedException))([CannotProceedException](http://docs.google.com/javax/naming/CannotProceedException.html) cpe)            Creates a context in which to continue a DirContext operation. |
| static [Object](http://docs.google.com/java/lang/Object.html) | [**getObjectInstance**](http://docs.google.com/javax/naming/spi/DirectoryManager.html#getObjectInstance(java.lang.Object,%20javax.naming.Name,%20javax.naming.Context,%20java.util.Hashtable,%20javax.naming.directory.Attributes))([Object](http://docs.google.com/java/lang/Object.html) refInfo, [Name](http://docs.google.com/javax/naming/Name.html) name, [Context](http://docs.google.com/javax/naming/Context.html) nameCtx, [Hashtable](http://docs.google.com/java/util/Hashtable.html)<?,?> environment, [Attributes](http://docs.google.com/javax/naming/directory/Attributes.html) attrs)            Creates an instance of an object for the specified object, attributes, and environment. |
| static [DirStateFactory.Result](http://docs.google.com/javax/naming/spi/DirStateFactory.Result.html) | [**getStateToBind**](http://docs.google.com/javax/naming/spi/DirectoryManager.html#getStateToBind(java.lang.Object,%20javax.naming.Name,%20javax.naming.Context,%20java.util.Hashtable,%20javax.naming.directory.Attributes))([Object](http://docs.google.com/java/lang/Object.html) obj, [Name](http://docs.google.com/javax/naming/Name.html) name, [Context](http://docs.google.com/javax/naming/Context.html) nameCtx, [Hashtable](http://docs.google.com/java/util/Hashtable.html)<?,?> environment, [Attributes](http://docs.google.com/javax/naming/directory/Attributes.html) attrs)            Retrieves the state of an object for binding when given the original object and its attributes. |

| **Methods inherited from class javax.naming.spi.**[**NamingManager**](http://docs.google.com/javax/naming/spi/NamingManager.html) |
| --- |
| [getContinuationContext](http://docs.google.com/javax/naming/spi/NamingManager.html#getContinuationContext(javax.naming.CannotProceedException)), [getInitialContext](http://docs.google.com/javax/naming/spi/NamingManager.html#getInitialContext(java.util.Hashtable)), [getObjectInstance](http://docs.google.com/javax/naming/spi/NamingManager.html#getObjectInstance(java.lang.Object,%20javax.naming.Name,%20javax.naming.Context,%20java.util.Hashtable)), [getStateToBind](http://docs.google.com/javax/naming/spi/NamingManager.html#getStateToBind(java.lang.Object,%20javax.naming.Name,%20javax.naming.Context,%20java.util.Hashtable)), [getURLContext](http://docs.google.com/javax/naming/spi/NamingManager.html#getURLContext(java.lang.String,%20java.util.Hashtable)), [hasInitialContextFactoryBuilder](http://docs.google.com/javax/naming/spi/NamingManager.html#hasInitialContextFactoryBuilder()), [setInitialContextFactoryBuilder](http://docs.google.com/javax/naming/spi/NamingManager.html#setInitialContextFactoryBuilder(javax.naming.spi.InitialContextFactoryBuilder)), [setObjectFactoryBuilder](http://docs.google.com/javax/naming/spi/NamingManager.html#setObjectFactoryBuilder(javax.naming.spi.ObjectFactoryBuilder)) |

| **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)) |

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

### getContinuationDirContext

public static [DirContext](http://docs.google.com/javax/naming/directory/DirContext.html) **getContinuationDirContext**([CannotProceedException](http://docs.google.com/javax/naming/CannotProceedException.html) cpe)  
 throws [NamingException](http://docs.google.com/javax/naming/NamingException.html)

Creates a context in which to continue a DirContext operation. Operates just like NamingManager.getContinuationContext(), only the continuation context returned is a DirContext.

**Parameters:**cpe - The non-null exception that triggered this continuation. **Returns:**A non-null DirContext object for continuing the operation. **Throws:** [NamingException](http://docs.google.com/javax/naming/NamingException.html) - If a naming exception occurred.**See Also:**[NamingManager.getContinuationContext(CannotProceedException)](http://docs.google.com/javax/naming/spi/NamingManager.html#getContinuationContext(javax.naming.CannotProceedException))

### getObjectInstance

public static [Object](http://docs.google.com/java/lang/Object.html) **getObjectInstance**([Object](http://docs.google.com/java/lang/Object.html) refInfo,  
 [Name](http://docs.google.com/javax/naming/Name.html) name,  
 [Context](http://docs.google.com/javax/naming/Context.html) nameCtx,  
 [Hashtable](http://docs.google.com/java/util/Hashtable.html)<?,?> environment,  
 [Attributes](http://docs.google.com/javax/naming/directory/Attributes.html) attrs)  
 throws [Exception](http://docs.google.com/java/lang/Exception.html)

Creates an instance of an object for the specified object, attributes, and environment.

This method is the same as NamingManager.getObjectInstance except for the following differences:

* It accepts an Attributes parameter that contains attributes associated with the object. The DirObjectFactory might use these attributes to save having to look them up from the directory.
* The object factories tried must implement either ObjectFactory or DirObjectFactory. If it implements DirObjectFactory, DirObjectFactory.getObjectInstance() is used, otherwise, ObjectFactory.getObjectInstance() is used.

Service providers that implement the DirContext interface should use this method, not NamingManager.getObjectInstance().

**Parameters:**refInfo - The possibly null object for which to create an object.name - The name of this object relative to nameCtx. Specifying a name is optional; if it is omitted, name should be null.nameCtx - The context relative to which the name parameter is specified. If null, name is relative to the default initial context.environment - The possibly null environment to be used in the creation of the object factory and the object.attrs - The possibly null attributes associated with refInfo. This might not be the complete set of attributes for refInfo; you might be able to read more attributes from the directory. **Returns:**An object created using refInfo and attrs; or refInfo if an object cannot be created by a factory. **Throws:** [NamingException](http://docs.google.com/javax/naming/NamingException.html) - If a naming exception was encountered while attempting to get a URL context, or if one of the factories accessed throws a NamingException. [Exception](http://docs.google.com/java/lang/Exception.html) - If one of the factories accessed throws an exception, or if an error was encountered while loading and instantiating the factory and object classes. A factory should only throw an exception if it does not want other factories to be used in an attempt to create an object. See DirObjectFactory.getObjectInstance().**Since:** 1.3 **See Also:**[NamingManager.getURLContext(java.lang.String, java.util.Hashtable)](http://docs.google.com/javax/naming/spi/NamingManager.html#getURLContext(java.lang.String,%20java.util.Hashtable)), [DirObjectFactory](http://docs.google.com/javax/naming/spi/DirObjectFactory.html), [DirObjectFactory.getObjectInstance(java.lang.Object, javax.naming.Name, javax.naming.Context, java.util.Hashtable, javax.naming.directory.Attributes)](http://docs.google.com/javax/naming/spi/DirObjectFactory.html#getObjectInstance(java.lang.Object,%20javax.naming.Name,%20javax.naming.Context,%20java.util.Hashtable,%20javax.naming.directory.Attributes))

### getStateToBind

public static [DirStateFactory.Result](http://docs.google.com/javax/naming/spi/DirStateFactory.Result.html) **getStateToBind**([Object](http://docs.google.com/java/lang/Object.html) obj,  
 [Name](http://docs.google.com/javax/naming/Name.html) name,  
 [Context](http://docs.google.com/javax/naming/Context.html) nameCtx,  
 [Hashtable](http://docs.google.com/java/util/Hashtable.html)<?,?> environment,  
 [Attributes](http://docs.google.com/javax/naming/directory/Attributes.html) attrs)  
 throws [NamingException](http://docs.google.com/javax/naming/NamingException.html)

Retrieves the state of an object for binding when given the original object and its attributes.

This method is like NamingManager.getStateToBind except for the following differences:

* It accepts an Attributes parameter containing attributes that were passed to the DirContext.bind() method.
* It returns a non-null DirStateFactory.Result instance containing the object to be bound, and the attributes to accompany the binding. Either the object or the attributes may be null.
* The state factories tried must each implement either StateFactory or DirStateFactory. If it implements DirStateFactory, then DirStateFactory.getStateToBind() is called; otherwise, StateFactory.getStateToBind() is called.

Service providers that implement the DirContext interface should use this method, not NamingManager.getStateToBind().

See NamingManager.getStateToBind() for a description of how the list of state factories to be tried is determined.

The object returned by this method is owned by the caller. The implementation will not subsequently modify it. It will contain either a new Attributes object that is likewise owned by the caller, or a reference to the original attrs parameter.

**Parameters:**obj - The non-null object for which to get state to bind.name - The name of this object relative to nameCtx, or null if no name is specified.nameCtx - The context relative to which the name parameter is specified, or null if name is relative to the default initial context.environment - The possibly null environment to be used in the creation of the state factory and the object's state.attrs - The possibly null Attributes that is to be bound with the object. **Returns:**A non-null DirStateFactory.Result containing the object and attributes to be bound. If no state factory returns a non-null answer, the result will contain the object (obj) itself with the original attributes. **Throws:** [NamingException](http://docs.google.com/javax/naming/NamingException.html) - If a naming exception was encountered while using the factories. A factory should only throw an exception if it does not want other factories to be used in an attempt to create an object. See DirStateFactory.getStateToBind().**Since:** 1.3 **See Also:**[DirStateFactory](http://docs.google.com/javax/naming/spi/DirStateFactory.html), [DirStateFactory.getStateToBind(java.lang.Object, javax.naming.Name, javax.naming.Context, java.util.Hashtable, javax.naming.directory.Attributes)](http://docs.google.com/javax/naming/spi/DirStateFactory.html#getStateToBind(java.lang.Object,%20javax.naming.Name,%20javax.naming.Context,%20java.util.Hashtable,%20javax.naming.directory.Attributes)), [NamingManager.getStateToBind(java.lang.Object, javax.naming.Name, javax.naming.Context, java.util.Hashtable)](http://docs.google.com/javax/naming/spi/NamingManager.html#getStateToBind(java.lang.Object,%20javax.naming.Name,%20javax.naming.Context,%20java.util.Hashtable))

| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/DirectoryManager.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   [**NEXT CLASS**](http://docs.google.com/javax/naming/spi/DirObjectFactory.html) | [**FRAMES**](http://docs.google.com/index.html?javax/naming/spi/DirectoryManager.html)    [**NO FRAMES**](http://docs.google.com/DirectoryManager.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | [FIELD](#2et92p0) | CONSTR | [METHOD](#tyjcwt) | DETAIL: FIELD | CONSTR | [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.

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).