| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/TrustManagerFactory.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/net/ssl/TrustManager.html)   [**NEXT CLASS**](http://docs.google.com/javax/net/ssl/TrustManagerFactorySpi.html) | [**FRAMES**](http://docs.google.com/index.html?javax/net/ssl/TrustManagerFactory.html)    [**NO FRAMES**](http://docs.google.com/TrustManagerFactory.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | FIELD | [CONSTR](#3znysh7) | [METHOD](#2et92p0) | DETAIL: FIELD | [CONSTR](#3dy6vkm) | [METHOD](#4d34og8) |

## **javax.net.ssl**

Class TrustManagerFactory

[java.lang.Object](http://docs.google.com/java/lang/Object.html)  
 **javax.net.ssl.TrustManagerFactory**

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

This class acts as a factory for trust managers based on a source of trust material. Each trust manager manages a specific type of trust material for use by secure sockets. The trust material is based on a KeyStore and/or provider specific sources.

**Since:** 1.4 **See Also:**[TrustManager](http://docs.google.com/javax/net/ssl/TrustManager.html)

| **Constructor Summary** | |
| --- | --- |
| protected | [**TrustManagerFactory**](http://docs.google.com/javax/net/ssl/TrustManagerFactory.html#TrustManagerFactory(javax.net.ssl.TrustManagerFactorySpi,%20java.security.Provider,%20java.lang.String))([TrustManagerFactorySpi](http://docs.google.com/javax/net/ssl/TrustManagerFactorySpi.html) factorySpi, [Provider](http://docs.google.com/java/security/Provider.html) provider, [String](http://docs.google.com/java/lang/String.html) algorithm)            Creates a TrustManagerFactory object. |

| **Method Summary** | |
| --- | --- |
| [String](http://docs.google.com/java/lang/String.html) | [**getAlgorithm**](http://docs.google.com/javax/net/ssl/TrustManagerFactory.html#getAlgorithm())()            Returns the algorithm name of this TrustManagerFactory object. |
| static [String](http://docs.google.com/java/lang/String.html) | [**getDefaultAlgorithm**](http://docs.google.com/javax/net/ssl/TrustManagerFactory.html#getDefaultAlgorithm())()            Obtains the default TrustManagerFactory algorithm name. |
| static [TrustManagerFactory](http://docs.google.com/javax/net/ssl/TrustManagerFactory.html) | [**getInstance**](http://docs.google.com/javax/net/ssl/TrustManagerFactory.html#getInstance(java.lang.String))([String](http://docs.google.com/java/lang/String.html) algorithm)            Returns a TrustManagerFactory object that acts as a factory for trust managers. |
| static [TrustManagerFactory](http://docs.google.com/javax/net/ssl/TrustManagerFactory.html) | [**getInstance**](http://docs.google.com/javax/net/ssl/TrustManagerFactory.html#getInstance(java.lang.String,%20java.security.Provider))([String](http://docs.google.com/java/lang/String.html) algorithm, [Provider](http://docs.google.com/java/security/Provider.html) provider)            Returns a TrustManagerFactory object that acts as a factory for trust managers. |
| static [TrustManagerFactory](http://docs.google.com/javax/net/ssl/TrustManagerFactory.html) | [**getInstance**](http://docs.google.com/javax/net/ssl/TrustManagerFactory.html#getInstance(java.lang.String,%20java.lang.String))([String](http://docs.google.com/java/lang/String.html) algorithm, [String](http://docs.google.com/java/lang/String.html) provider)            Returns a TrustManagerFactory object that acts as a factory for trust managers. |
| [Provider](http://docs.google.com/java/security/Provider.html) | [**getProvider**](http://docs.google.com/javax/net/ssl/TrustManagerFactory.html#getProvider())()            Returns the provider of this TrustManagerFactory object. |
| [TrustManager](http://docs.google.com/javax/net/ssl/TrustManager.html)[] | [**getTrustManagers**](http://docs.google.com/javax/net/ssl/TrustManagerFactory.html#getTrustManagers())()            Returns one trust manager for each type of trust material. |
| void | [**init**](http://docs.google.com/javax/net/ssl/TrustManagerFactory.html#init(java.security.KeyStore))([KeyStore](http://docs.google.com/java/security/KeyStore.html) ks)            Initializes this factory with a source of certificate authorities and related trust material. |
| void | [**init**](http://docs.google.com/javax/net/ssl/TrustManagerFactory.html#init(javax.net.ssl.ManagerFactoryParameters))([ManagerFactoryParameters](http://docs.google.com/javax/net/ssl/ManagerFactoryParameters.html) spec)            Initializes this factory with a source of provider-specific trust material. |

| **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** |
| --- |

### TrustManagerFactory

protected **TrustManagerFactory**([TrustManagerFactorySpi](http://docs.google.com/javax/net/ssl/TrustManagerFactorySpi.html) factorySpi,  
 [Provider](http://docs.google.com/java/security/Provider.html) provider,  
 [String](http://docs.google.com/java/lang/String.html) algorithm)

Creates a TrustManagerFactory object.

**Parameters:**factorySpi - the delegateprovider - the provideralgorithm - the algorithm

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

### getDefaultAlgorithm

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

Obtains the default TrustManagerFactory algorithm name.

The default TrustManager can be changed at runtime by setting the value of the "ssl.TrustManagerFactory.algorithm" security property (set in the Java security properties file or by calling [Security.setProperty(String, String)](http://docs.google.com/java/security/Security.html#setProperty(java.lang.String,%20java.lang.String))) to the desired algorithm name.

**Returns:**the default algorithm name as specified in the Java security properties, or an implementation-specific default if no such property exists.

### getAlgorithm

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

Returns the algorithm name of this TrustManagerFactory object.

This is the same name that was specified in one of the getInstance calls that created this TrustManagerFactory object.

**Returns:**the algorithm name of this TrustManagerFactory object

### getInstance

public static final [TrustManagerFactory](http://docs.google.com/javax/net/ssl/TrustManagerFactory.html) **getInstance**([String](http://docs.google.com/java/lang/String.html) algorithm)  
 throws [NoSuchAlgorithmException](http://docs.google.com/java/security/NoSuchAlgorithmException.html)

Returns a TrustManagerFactory object that acts as a factory for trust managers.

This method traverses the list of registered security Providers, starting with the most preferred Provider. A new TrustManagerFactory object encapsulating the TrustManagerFactorySpi implementation from the first Provider that supports the specified algorithm is returned.

Note that the list of registered providers may be retrieved via the [Security.getProviders()](http://docs.google.com/java/security/Security.html#getProviders()) method.

**Parameters:**algorithm - the standard name of the requested trust management algorithm. See the  [Java Secure Socket Extension Reference Guide](http://docs.google.com/technotes/guides/security/jsse/JSSERefGuide.html)  for information about standard algorithm names. **Returns:**the new TrustManagerFactory object. **Throws:** [NoSuchAlgorithmException](http://docs.google.com/java/security/NoSuchAlgorithmException.html) - if no Provider supports a TrustManagerFactorySpi implementation for the specified algorithm.**See Also:**[Provider](http://docs.google.com/java/security/Provider.html)

### getInstance

public static final [TrustManagerFactory](http://docs.google.com/javax/net/ssl/TrustManagerFactory.html) **getInstance**([String](http://docs.google.com/java/lang/String.html) algorithm,  
 [String](http://docs.google.com/java/lang/String.html) provider)  
 throws [NoSuchAlgorithmException](http://docs.google.com/java/security/NoSuchAlgorithmException.html),  
 [NoSuchProviderException](http://docs.google.com/java/security/NoSuchProviderException.html)

Returns a TrustManagerFactory object that acts as a factory for trust managers.

A new KeyManagerFactory object encapsulating the KeyManagerFactorySpi implementation from the specified provider is returned. The specified provider must be registered in the security provider list.

Note that the list of registered providers may be retrieved via the [Security.getProviders()](http://docs.google.com/java/security/Security.html#getProviders()) method.

**Parameters:**algorithm - the standard name of the requested trust management algorithm. See the  [Java Secure Socket Extension Reference Guide](http://docs.google.com/technotes/guides/security/jsse/JSSERefGuide.html)  for information about standard algorithm names.provider - the name of the provider. **Returns:**the new TrustManagerFactory object **Throws:** [NoSuchAlgorithmException](http://docs.google.com/java/security/NoSuchAlgorithmException.html) - if a TrustManagerFactorySpi implementation for the specified algorithm is not available from the specified provider. [NoSuchProviderException](http://docs.google.com/java/security/NoSuchProviderException.html) - if the specified provider is not registered in the security provider list. [IllegalArgumentException](http://docs.google.com/java/lang/IllegalArgumentException.html) - if the provider name is null or empty.**See Also:**[Provider](http://docs.google.com/java/security/Provider.html)

### getInstance

public static final [TrustManagerFactory](http://docs.google.com/javax/net/ssl/TrustManagerFactory.html) **getInstance**([String](http://docs.google.com/java/lang/String.html) algorithm,  
 [Provider](http://docs.google.com/java/security/Provider.html) provider)  
 throws [NoSuchAlgorithmException](http://docs.google.com/java/security/NoSuchAlgorithmException.html)

Returns a TrustManagerFactory object that acts as a factory for trust managers.

A new TrustManagerFactory object encapsulating the TrustManagerFactorySpi implementation from the specified Provider object is returned. Note that the specified Provider object does not have to be registered in the provider list.

**Parameters:**algorithm - the standard name of the requested trust management algorithm. See the  [Java Secure Socket Extension Reference Guide](http://docs.google.com/technotes/guides/security/jsse/JSSERefGuide.html)  for information about standard algorithm names.provider - an instance of the provider. **Returns:**the new TrustManagerFactory object. **Throws:** [NoSuchAlgorithmException](http://docs.google.com/java/security/NoSuchAlgorithmException.html) - if a TrustManagerFactorySpi implementation for the specified algorithm is not available from the specified Provider object. [IllegalArgumentException](http://docs.google.com/java/lang/IllegalArgumentException.html) - if the provider is null.**See Also:**[Provider](http://docs.google.com/java/security/Provider.html)

### getProvider

public final [Provider](http://docs.google.com/java/security/Provider.html) **getProvider**()

Returns the provider of this TrustManagerFactory object.

**Returns:**the provider of this TrustManagerFactory object

### init

public final void **init**([KeyStore](http://docs.google.com/java/security/KeyStore.html) ks)  
 throws [KeyStoreException](http://docs.google.com/java/security/KeyStoreException.html)

Initializes this factory with a source of certificate authorities and related trust material.

The provider typically uses a KeyStore as a basis for making trust decisions.

For more flexible initialization, please see [init(ManagerFactoryParameters)](http://docs.google.com/javax/net/ssl/TrustManagerFactory.html#init(javax.net.ssl.ManagerFactoryParameters)).

**Parameters:**ks - the key store, or null **Throws:** [KeyStoreException](http://docs.google.com/java/security/KeyStoreException.html) - if this operation fails

### init

public final void **init**([ManagerFactoryParameters](http://docs.google.com/javax/net/ssl/ManagerFactoryParameters.html) spec)  
 throws [InvalidAlgorithmParameterException](http://docs.google.com/java/security/InvalidAlgorithmParameterException.html)

Initializes this factory with a source of provider-specific trust material.

In some cases, initialization parameters other than a keystore may be needed by a provider. Users of that particular provider are expected to pass an implementation of the appropriate ManagerFactoryParameters as defined by the provider. The provider can then call the specified methods in the ManagerFactoryParameters implementation to obtain the needed information.

**Parameters:**spec - an implementation of a provider-specific parameter specification **Throws:** [InvalidAlgorithmParameterException](http://docs.google.com/java/security/InvalidAlgorithmParameterException.html) - if an error is encountered

### getTrustManagers

public final [TrustManager](http://docs.google.com/javax/net/ssl/TrustManager.html)[] **getTrustManagers**()

Returns one trust manager for each type of trust material.

**Returns:**the trust managers

| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/TrustManagerFactory.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/net/ssl/TrustManager.html)   [**NEXT CLASS**](http://docs.google.com/javax/net/ssl/TrustManagerFactorySpi.html) | [**FRAMES**](http://docs.google.com/index.html?javax/net/ssl/TrustManagerFactory.html)    [**NO FRAMES**](http://docs.google.com/TrustManagerFactory.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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