| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | [**Class**](http://docs.google.com/java/security/Provider.html) | **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?java/security//class-useProvider.html)    [**NO FRAMES**](http://docs.google.com/Provider.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |

**Uses of Class**

**java.security.Provider**

| Packages that use [Provider](http://docs.google.com/java/security/Provider.html) | |
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| [**java.security**](#3znysh7) | Provides the classes and interfaces for the security framework. |
| [**java.security.cert**](#2et92p0) | Provides classes and interfaces for parsing and managing certificates, certificate revocation lists (CRLs), and certification paths. |
| [**javax.crypto**](#tyjcwt) | Provides the classes and interfaces for cryptographic operations. |
| [**javax.net.ssl**](#3dy6vkm) | Provides classes for the secure socket package. |
| [**javax.security.auth.login**](#1t3h5sf) | This package provides a pluggable authentication framework. |
| [**javax.xml.crypto.dsig**](#4d34og8) | Classes for generating and validating XML digital signatures. |
| [**javax.xml.crypto.dsig.keyinfo**](#2s8eyo1) | Classes for parsing and processing [KeyInfo](http://docs.google.com/javax/xml/crypto/dsig/keyinfo/KeyInfo.html) elements and structures. |
| [**org.ietf.jgss**](#17dp8vu) | This package presents a framework that allows application developers to make use of security services like authentication, data integrity and data confidentiality from a variety of underlying security mechanisms like Kerberos, using a unified API. |

| Uses of [Provider](http://docs.google.com/java/security/Provider.html) in [java.security](http://docs.google.com/java/security/package-summary.html) | |
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| Subclasses of [Provider](http://docs.google.com/java/security/Provider.html) in [java.security](http://docs.google.com/java/security/package-summary.html) | |
| --- | --- |
| class | [**AuthProvider**](http://docs.google.com/java/security/AuthProvider.html)            This class defines login and logout methods for a provider. |

| Methods in [java.security](http://docs.google.com/java/security/package-summary.html) that return [Provider](http://docs.google.com/java/security/Provider.html) | |
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| [Provider](http://docs.google.com/java/security/Provider.html) | **KeyPairGenerator.**[**getProvider**](http://docs.google.com/java/security/KeyPairGenerator.html#getProvider())()            Returns the provider of this key pair generator object. |
| [Provider](http://docs.google.com/java/security/Provider.html) | **AlgorithmParameterGenerator.**[**getProvider**](http://docs.google.com/java/security/AlgorithmParameterGenerator.html#getProvider())()            Returns the provider of this algorithm parameter generator object. |
| [Provider](http://docs.google.com/java/security/Provider.html) | **KeyFactory.**[**getProvider**](http://docs.google.com/java/security/KeyFactory.html#getProvider())()            Returns the provider of this key factory object. |
| [Provider](http://docs.google.com/java/security/Provider.html) | **KeyStore.**[**getProvider**](http://docs.google.com/java/security/KeyStore.html#getProvider())()            Returns the provider of this keystore. |
| [Provider](http://docs.google.com/java/security/Provider.html) | **Signature.**[**getProvider**](http://docs.google.com/java/security/Signature.html#getProvider())()            Returns the provider of this signature object. |
| [Provider](http://docs.google.com/java/security/Provider.html) | **AlgorithmParameters.**[**getProvider**](http://docs.google.com/java/security/AlgorithmParameters.html#getProvider())()            Returns the provider of this parameter object. |
| [Provider](http://docs.google.com/java/security/Provider.html) | **Policy.**[**getProvider**](http://docs.google.com/java/security/Policy.html#getProvider())()            Return the Provider of this Policy. |
| [Provider](http://docs.google.com/java/security/Provider.html) | **MessageDigest.**[**getProvider**](http://docs.google.com/java/security/MessageDigest.html#getProvider())()            Returns the provider of this message digest object. |
| [Provider](http://docs.google.com/java/security/Provider.html) | **SecureRandom.**[**getProvider**](http://docs.google.com/java/security/SecureRandom.html#getProvider())()            Returns the provider of this SecureRandom object. |
| [Provider](http://docs.google.com/java/security/Provider.html) | **Provider.Service.**[**getProvider**](http://docs.google.com/java/security/Provider.Service.html#getProvider())()            Return the Provider of this service. |
| static [Provider](http://docs.google.com/java/security/Provider.html) | **Security.**[**getProvider**](http://docs.google.com/java/security/Security.html#getProvider(java.lang.String))([String](http://docs.google.com/java/lang/String.html) name)            Returns the provider installed with the specified name, if any. |
| static [Provider](http://docs.google.com/java/security/Provider.html)[] | **Security.**[**getProviders**](http://docs.google.com/java/security/Security.html#getProviders())()            Returns an array containing all the installed providers. |
| static [Provider](http://docs.google.com/java/security/Provider.html)[] | **Security.**[**getProviders**](http://docs.google.com/java/security/Security.html#getProviders(java.util.Map))([Map](http://docs.google.com/java/util/Map.html)<[String](http://docs.google.com/java/lang/String.html),[String](http://docs.google.com/java/lang/String.html)> filter)            Returns an array containing all installed providers that satisfy the specified\* selection criteria, or null if no such providers have been installed. |
| static [Provider](http://docs.google.com/java/security/Provider.html)[] | **Security.**[**getProviders**](http://docs.google.com/java/security/Security.html#getProviders(java.lang.String))([String](http://docs.google.com/java/lang/String.html) filter)            Returns an array containing all installed providers that satisfy the specified selection criterion, or null if no such providers have been installed. |

| Methods in [java.security](http://docs.google.com/java/security/package-summary.html) with parameters of type [Provider](http://docs.google.com/java/security/Provider.html) | |
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| static int | **Security.**[**addProvider**](http://docs.google.com/java/security/Security.html#addProvider(java.security.Provider))([Provider](http://docs.google.com/java/security/Provider.html) provider)            Adds a provider to the next position available. |
| static [Policy](http://docs.google.com/java/security/Policy.html) | **Policy.**[**getInstance**](http://docs.google.com/java/security/Policy.html#getInstance(java.lang.String,%20java.security.Policy.Parameters,%20java.security.Provider))([String](http://docs.google.com/java/lang/String.html) type, [Policy.Parameters](http://docs.google.com/java/security/Policy.Parameters.html) params, [Provider](http://docs.google.com/java/security/Provider.html) provider)            Returns a Policy object of the specified type. |
| static [KeyPairGenerator](http://docs.google.com/java/security/KeyPairGenerator.html) | **KeyPairGenerator.**[**getInstance**](http://docs.google.com/java/security/KeyPairGenerator.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 KeyPairGenerator object that generates public/private key pairs for the specified algorithm. |
| static [AlgorithmParameterGenerator](http://docs.google.com/java/security/AlgorithmParameterGenerator.html) | **AlgorithmParameterGenerator.**[**getInstance**](http://docs.google.com/java/security/AlgorithmParameterGenerator.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 an AlgorithmParameterGenerator object for generating a set of parameters to be used with the specified algorithm. |
| static [KeyFactory](http://docs.google.com/java/security/KeyFactory.html) | **KeyFactory.**[**getInstance**](http://docs.google.com/java/security/KeyFactory.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 KeyFactory object that converts public/private keys of the specified algorithm. |
| static [KeyStore](http://docs.google.com/java/security/KeyStore.html) | **KeyStore.**[**getInstance**](http://docs.google.com/java/security/KeyStore.html#getInstance(java.lang.String,%20java.security.Provider))([String](http://docs.google.com/java/lang/String.html) type, [Provider](http://docs.google.com/java/security/Provider.html) provider)            Returns a keystore object of the specified type. |
| static [Signature](http://docs.google.com/java/security/Signature.html) | **Signature.**[**getInstance**](http://docs.google.com/java/security/Signature.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 Signature object that implements the specified signature algorithm. |
| static [AlgorithmParameters](http://docs.google.com/java/security/AlgorithmParameters.html) | **AlgorithmParameters.**[**getInstance**](http://docs.google.com/java/security/AlgorithmParameters.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 parameter object for the specified algorithm. |
| static [MessageDigest](http://docs.google.com/java/security/MessageDigest.html) | **MessageDigest.**[**getInstance**](http://docs.google.com/java/security/MessageDigest.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 MessageDigest object that implements the specified digest algorithm. |
| static [SecureRandom](http://docs.google.com/java/security/SecureRandom.html) | **SecureRandom.**[**getInstance**](http://docs.google.com/java/security/SecureRandom.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 SecureRandom object that implements the specified Random Number Generator (RNG) algorithm. |
| static int | **Security.**[**insertProviderAt**](http://docs.google.com/java/security/Security.html#insertProviderAt(java.security.Provider,%20int))([Provider](http://docs.google.com/java/security/Provider.html) provider, int position)            Adds a new provider, at a specified position. |
| static [KeyStore.Builder](http://docs.google.com/java/security/KeyStore.Builder.html) | **KeyStore.Builder.**[**newInstance**](http://docs.google.com/java/security/KeyStore.Builder.html#newInstance(java.lang.String,%20java.security.Provider,%20java.io.File,%20java.security.KeyStore.ProtectionParameter))([String](http://docs.google.com/java/lang/String.html) type, [Provider](http://docs.google.com/java/security/Provider.html) provider, [File](http://docs.google.com/java/io/File.html) file, [KeyStore.ProtectionParameter](http://docs.google.com/java/security/KeyStore.ProtectionParameter.html) protection)            Returns a new Builder object. |
| static [KeyStore.Builder](http://docs.google.com/java/security/KeyStore.Builder.html) | **KeyStore.Builder.**[**newInstance**](http://docs.google.com/java/security/KeyStore.Builder.html#newInstance(java.lang.String,%20java.security.Provider,%20java.security.KeyStore.ProtectionParameter))([String](http://docs.google.com/java/lang/String.html) type, [Provider](http://docs.google.com/java/security/Provider.html) provider, [KeyStore.ProtectionParameter](http://docs.google.com/java/security/KeyStore.ProtectionParameter.html) protection)            Returns a new Builder object. |

| Constructors in [java.security](http://docs.google.com/java/security/package-summary.html) with parameters of type [Provider](http://docs.google.com/java/security/Provider.html) | |
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| [**AlgorithmParameterGenerator**](http://docs.google.com/java/security/AlgorithmParameterGenerator.html#AlgorithmParameterGenerator(java.security.AlgorithmParameterGeneratorSpi,%20java.security.Provider,%20java.lang.String))([AlgorithmParameterGeneratorSpi](http://docs.google.com/java/security/AlgorithmParameterGeneratorSpi.html) paramGenSpi, [Provider](http://docs.google.com/java/security/Provider.html) provider, [String](http://docs.google.com/java/lang/String.html) algorithm)            Creates an AlgorithmParameterGenerator object. |
| [**AlgorithmParameters**](http://docs.google.com/java/security/AlgorithmParameters.html#AlgorithmParameters(java.security.AlgorithmParametersSpi,%20java.security.Provider,%20java.lang.String))([AlgorithmParametersSpi](http://docs.google.com/java/security/AlgorithmParametersSpi.html) paramSpi, [Provider](http://docs.google.com/java/security/Provider.html) provider, [String](http://docs.google.com/java/lang/String.html) algorithm)            Creates an AlgorithmParameters object. |
| [**KeyFactory**](http://docs.google.com/java/security/KeyFactory.html#KeyFactory(java.security.KeyFactorySpi,%20java.security.Provider,%20java.lang.String))([KeyFactorySpi](http://docs.google.com/java/security/KeyFactorySpi.html) keyFacSpi, [Provider](http://docs.google.com/java/security/Provider.html) provider, [String](http://docs.google.com/java/lang/String.html) algorithm)            Creates a KeyFactory object. |
| [**KeyStore**](http://docs.google.com/java/security/KeyStore.html#KeyStore(java.security.KeyStoreSpi,%20java.security.Provider,%20java.lang.String))([KeyStoreSpi](http://docs.google.com/java/security/KeyStoreSpi.html) keyStoreSpi, [Provider](http://docs.google.com/java/security/Provider.html) provider, [String](http://docs.google.com/java/lang/String.html) type)            Creates a KeyStore object of the given type, and encapsulates the given provider implementation (SPI object) in it. |
| [**Provider.Service**](http://docs.google.com/java/security/Provider.Service.html#Provider.Service(java.security.Provider,%20java.lang.String,%20java.lang.String,%20java.lang.String,%20java.util.List,%20java.util.Map))([Provider](http://docs.google.com/java/security/Provider.html) provider, [String](http://docs.google.com/java/lang/String.html) type, [String](http://docs.google.com/java/lang/String.html) algorithm, [String](http://docs.google.com/java/lang/String.html) className, [List](http://docs.google.com/java/util/List.html)<[String](http://docs.google.com/java/lang/String.html)> aliases, [Map](http://docs.google.com/java/util/Map.html)<[String](http://docs.google.com/java/lang/String.html),[String](http://docs.google.com/java/lang/String.html)> attributes)            Construct a new service. |
| [**SecureRandom**](http://docs.google.com/java/security/SecureRandom.html#SecureRandom(java.security.SecureRandomSpi,%20java.security.Provider))([SecureRandomSpi](http://docs.google.com/java/security/SecureRandomSpi.html) secureRandomSpi, [Provider](http://docs.google.com/java/security/Provider.html) provider)            Creates a SecureRandom object. |

| Uses of [Provider](http://docs.google.com/java/security/Provider.html) in [java.security.cert](http://docs.google.com/java/security/cert/package-summary.html) | |
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| Methods in [java.security.cert](http://docs.google.com/java/security/cert/package-summary.html) that return [Provider](http://docs.google.com/java/security/Provider.html) | |
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| [Provider](http://docs.google.com/java/security/Provider.html) | **CertStore.**[**getProvider**](http://docs.google.com/java/security/cert/CertStore.html#getProvider())()            Returns the provider of this CertStore. |
| [Provider](http://docs.google.com/java/security/Provider.html) | **CertPathValidator.**[**getProvider**](http://docs.google.com/java/security/cert/CertPathValidator.html#getProvider())()            Returns the Provider of this CertPathValidator. |
| [Provider](http://docs.google.com/java/security/Provider.html) | **CertPathBuilder.**[**getProvider**](http://docs.google.com/java/security/cert/CertPathBuilder.html#getProvider())()            Returns the provider of this CertPathBuilder. |
| [Provider](http://docs.google.com/java/security/Provider.html) | **CertificateFactory.**[**getProvider**](http://docs.google.com/java/security/cert/CertificateFactory.html#getProvider())()            Returns the provider of this certificate factory. |

| Methods in [java.security.cert](http://docs.google.com/java/security/cert/package-summary.html) with parameters of type [Provider](http://docs.google.com/java/security/Provider.html) | |
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| static [CertStore](http://docs.google.com/java/security/cert/CertStore.html) | **CertStore.**[**getInstance**](http://docs.google.com/java/security/cert/CertStore.html#getInstance(java.lang.String,%20java.security.cert.CertStoreParameters,%20java.security.Provider))([String](http://docs.google.com/java/lang/String.html) type, [CertStoreParameters](http://docs.google.com/java/security/cert/CertStoreParameters.html) params, [Provider](http://docs.google.com/java/security/Provider.html) provider)            Returns a CertStore object that implements the specified CertStore type. |
| static [CertPathValidator](http://docs.google.com/java/security/cert/CertPathValidator.html) | **CertPathValidator.**[**getInstance**](http://docs.google.com/java/security/cert/CertPathValidator.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 CertPathValidator object that implements the specified algorithm. |
| static [CertPathBuilder](http://docs.google.com/java/security/cert/CertPathBuilder.html) | **CertPathBuilder.**[**getInstance**](http://docs.google.com/java/security/cert/CertPathBuilder.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 CertPathBuilder object that implements the specified algorithm. |
| static [CertificateFactory](http://docs.google.com/java/security/cert/CertificateFactory.html) | **CertificateFactory.**[**getInstance**](http://docs.google.com/java/security/cert/CertificateFactory.html#getInstance(java.lang.String,%20java.security.Provider))([String](http://docs.google.com/java/lang/String.html) type, [Provider](http://docs.google.com/java/security/Provider.html) provider)            Returns a certificate factory object for the specified certificate type. |

| Constructors in [java.security.cert](http://docs.google.com/java/security/cert/package-summary.html) with parameters of type [Provider](http://docs.google.com/java/security/Provider.html) | |
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| [**CertificateFactory**](http://docs.google.com/java/security/cert/CertificateFactory.html#CertificateFactory(java.security.cert.CertificateFactorySpi,%20java.security.Provider,%20java.lang.String))([CertificateFactorySpi](http://docs.google.com/java/security/cert/CertificateFactorySpi.html) certFacSpi, [Provider](http://docs.google.com/java/security/Provider.html) provider, [String](http://docs.google.com/java/lang/String.html) type)            Creates a CertificateFactory object of the given type, and encapsulates the given provider implementation (SPI object) in it. |
| [**CertPathBuilder**](http://docs.google.com/java/security/cert/CertPathBuilder.html#CertPathBuilder(java.security.cert.CertPathBuilderSpi,%20java.security.Provider,%20java.lang.String))([CertPathBuilderSpi](http://docs.google.com/java/security/cert/CertPathBuilderSpi.html) builderSpi, [Provider](http://docs.google.com/java/security/Provider.html) provider, [String](http://docs.google.com/java/lang/String.html) algorithm)            Creates a CertPathBuilder object of the given algorithm, and encapsulates the given provider implementation (SPI object) in it. |
| [**CertPathValidator**](http://docs.google.com/java/security/cert/CertPathValidator.html#CertPathValidator(java.security.cert.CertPathValidatorSpi,%20java.security.Provider,%20java.lang.String))([CertPathValidatorSpi](http://docs.google.com/java/security/cert/CertPathValidatorSpi.html) validatorSpi, [Provider](http://docs.google.com/java/security/Provider.html) provider, [String](http://docs.google.com/java/lang/String.html) algorithm)            Creates a CertPathValidator object of the given algorithm, and encapsulates the given provider implementation (SPI object) in it. |
| [**CertStore**](http://docs.google.com/java/security/cert/CertStore.html#CertStore(java.security.cert.CertStoreSpi,%20java.security.Provider,%20java.lang.String,%20java.security.cert.CertStoreParameters))([CertStoreSpi](http://docs.google.com/java/security/cert/CertStoreSpi.html) storeSpi, [Provider](http://docs.google.com/java/security/Provider.html) provider, [String](http://docs.google.com/java/lang/String.html) type, [CertStoreParameters](http://docs.google.com/java/security/cert/CertStoreParameters.html) params)            Creates a CertStore object of the given type, and encapsulates the given provider implementation (SPI object) in it. |

| Uses of [Provider](http://docs.google.com/java/security/Provider.html) in [javax.crypto](http://docs.google.com/javax/crypto/package-summary.html) | |
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| Methods in [javax.crypto](http://docs.google.com/javax/crypto/package-summary.html) that return [Provider](http://docs.google.com/java/security/Provider.html) | |
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| [Provider](http://docs.google.com/java/security/Provider.html) | **Cipher.**[**getProvider**](http://docs.google.com/javax/crypto/Cipher.html#getProvider())()            Returns the provider of this Cipher object. |
| [Provider](http://docs.google.com/java/security/Provider.html) | **ExemptionMechanism.**[**getProvider**](http://docs.google.com/javax/crypto/ExemptionMechanism.html#getProvider())()            Returns the provider of this ExemptionMechanism object. |
| [Provider](http://docs.google.com/java/security/Provider.html) | **KeyAgreement.**[**getProvider**](http://docs.google.com/javax/crypto/KeyAgreement.html#getProvider())()            Returns the provider of this KeyAgreement object. |
| [Provider](http://docs.google.com/java/security/Provider.html) | **KeyGenerator.**[**getProvider**](http://docs.google.com/javax/crypto/KeyGenerator.html#getProvider())()            Returns the provider of this KeyGenerator object. |
| [Provider](http://docs.google.com/java/security/Provider.html) | **Mac.**[**getProvider**](http://docs.google.com/javax/crypto/Mac.html#getProvider())()            Returns the provider of this Mac object. |
| [Provider](http://docs.google.com/java/security/Provider.html) | **SecretKeyFactory.**[**getProvider**](http://docs.google.com/javax/crypto/SecretKeyFactory.html#getProvider())()            Returns the provider of this SecretKeyFactory object. |

| Methods in [javax.crypto](http://docs.google.com/javax/crypto/package-summary.html) with parameters of type [Provider](http://docs.google.com/java/security/Provider.html) | |
| --- | --- |
| static [Cipher](http://docs.google.com/javax/crypto/Cipher.html) | **Cipher.**[**getInstance**](http://docs.google.com/javax/crypto/Cipher.html#getInstance(java.lang.String,%20java.security.Provider))([String](http://docs.google.com/java/lang/String.html) transformation, [Provider](http://docs.google.com/java/security/Provider.html) provider)            Returns a Cipher object that implements the specified transformation. |
| static [ExemptionMechanism](http://docs.google.com/javax/crypto/ExemptionMechanism.html) | **ExemptionMechanism.**[**getInstance**](http://docs.google.com/javax/crypto/ExemptionMechanism.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 an ExemptionMechanism object that implements the specified exemption mechanism algorithm. |
| static [KeyAgreement](http://docs.google.com/javax/crypto/KeyAgreement.html) | **KeyAgreement.**[**getInstance**](http://docs.google.com/javax/crypto/KeyAgreement.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 KeyAgreement object that implements the specified key agreement algorithm. |
| static [KeyGenerator](http://docs.google.com/javax/crypto/KeyGenerator.html) | **KeyGenerator.**[**getInstance**](http://docs.google.com/javax/crypto/KeyGenerator.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 KeyGenerator object that generates secret keys for the specified algorithm. |
| static [Mac](http://docs.google.com/javax/crypto/Mac.html) | **Mac.**[**getInstance**](http://docs.google.com/javax/crypto/Mac.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 Mac object that implements the specified MAC algorithm. |
| static [SecretKeyFactory](http://docs.google.com/javax/crypto/SecretKeyFactory.html) | **SecretKeyFactory.**[**getInstance**](http://docs.google.com/javax/crypto/SecretKeyFactory.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 SecretKeyFactory object that converts secret keys of the specified algorithm. |
| [PKCS8EncodedKeySpec](http://docs.google.com/java/security/spec/PKCS8EncodedKeySpec.html) | **EncryptedPrivateKeyInfo.**[**getKeySpec**](http://docs.google.com/javax/crypto/EncryptedPrivateKeyInfo.html#getKeySpec(java.security.Key,%20java.security.Provider))([Key](http://docs.google.com/java/security/Key.html) decryptKey, [Provider](http://docs.google.com/java/security/Provider.html) provider)            Extract the enclosed PKCS8EncodedKeySpec object from the encrypted data and return it. |

| Constructors in [javax.crypto](http://docs.google.com/javax/crypto/package-summary.html) with parameters of type [Provider](http://docs.google.com/java/security/Provider.html) | |
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| [**Cipher**](http://docs.google.com/javax/crypto/Cipher.html#Cipher(javax.crypto.CipherSpi,%20java.security.Provider,%20java.lang.String))([CipherSpi](http://docs.google.com/javax/crypto/CipherSpi.html) cipherSpi, [Provider](http://docs.google.com/java/security/Provider.html) provider, [String](http://docs.google.com/java/lang/String.html) transformation)            Creates a Cipher object. |
| [**ExemptionMechanism**](http://docs.google.com/javax/crypto/ExemptionMechanism.html#ExemptionMechanism(javax.crypto.ExemptionMechanismSpi,%20java.security.Provider,%20java.lang.String))([ExemptionMechanismSpi](http://docs.google.com/javax/crypto/ExemptionMechanismSpi.html) exmechSpi, [Provider](http://docs.google.com/java/security/Provider.html) provider, [String](http://docs.google.com/java/lang/String.html) mechanism)            Creates a ExemptionMechanism object. |
| [**KeyAgreement**](http://docs.google.com/javax/crypto/KeyAgreement.html#KeyAgreement(javax.crypto.KeyAgreementSpi,%20java.security.Provider,%20java.lang.String))([KeyAgreementSpi](http://docs.google.com/javax/crypto/KeyAgreementSpi.html) keyAgreeSpi, [Provider](http://docs.google.com/java/security/Provider.html) provider, [String](http://docs.google.com/java/lang/String.html) algorithm)            Creates a KeyAgreement object. |
| [**KeyGenerator**](http://docs.google.com/javax/crypto/KeyGenerator.html#KeyGenerator(javax.crypto.KeyGeneratorSpi,%20java.security.Provider,%20java.lang.String))([KeyGeneratorSpi](http://docs.google.com/javax/crypto/KeyGeneratorSpi.html) keyGenSpi, [Provider](http://docs.google.com/java/security/Provider.html) provider, [String](http://docs.google.com/java/lang/String.html) algorithm)            Creates a KeyGenerator object. |
| [**Mac**](http://docs.google.com/javax/crypto/Mac.html#Mac(javax.crypto.MacSpi,%20java.security.Provider,%20java.lang.String))([MacSpi](http://docs.google.com/javax/crypto/MacSpi.html) macSpi, [Provider](http://docs.google.com/java/security/Provider.html) provider, [String](http://docs.google.com/java/lang/String.html) algorithm)            Creates a MAC object. |
| [**SecretKeyFactory**](http://docs.google.com/javax/crypto/SecretKeyFactory.html#SecretKeyFactory(javax.crypto.SecretKeyFactorySpi,%20java.security.Provider,%20java.lang.String))([SecretKeyFactorySpi](http://docs.google.com/javax/crypto/SecretKeyFactorySpi.html) keyFacSpi, [Provider](http://docs.google.com/java/security/Provider.html) provider, [String](http://docs.google.com/java/lang/String.html) algorithm)            Creates a SecretKeyFactory object. |

| Uses of [Provider](http://docs.google.com/java/security/Provider.html) in [javax.net.ssl](http://docs.google.com/javax/net/ssl/package-summary.html) | |
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| Methods in [javax.net.ssl](http://docs.google.com/javax/net/ssl/package-summary.html) that return [Provider](http://docs.google.com/java/security/Provider.html) | |
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| [Provider](http://docs.google.com/java/security/Provider.html) | **KeyManagerFactory.**[**getProvider**](http://docs.google.com/javax/net/ssl/KeyManagerFactory.html#getProvider())()            Returns the provider of this KeyManagerFactory object. |
| [Provider](http://docs.google.com/java/security/Provider.html) | **SSLContext.**[**getProvider**](http://docs.google.com/javax/net/ssl/SSLContext.html#getProvider())()            Returns the provider of this SSLContext object. |
| [Provider](http://docs.google.com/java/security/Provider.html) | **TrustManagerFactory.**[**getProvider**](http://docs.google.com/javax/net/ssl/TrustManagerFactory.html#getProvider())()            Returns the provider of this TrustManagerFactory object. |

| Methods in [javax.net.ssl](http://docs.google.com/javax/net/ssl/package-summary.html) with parameters of type [Provider](http://docs.google.com/java/security/Provider.html) | |
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| static [KeyManagerFactory](http://docs.google.com/javax/net/ssl/KeyManagerFactory.html) | **KeyManagerFactory.**[**getInstance**](http://docs.google.com/javax/net/ssl/KeyManagerFactory.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 KeyManagerFactory object that acts as a factory for key managers. |
| static [SSLContext](http://docs.google.com/javax/net/ssl/SSLContext.html) | **SSLContext.**[**getInstance**](http://docs.google.com/javax/net/ssl/SSLContext.html#getInstance(java.lang.String,%20java.security.Provider))([String](http://docs.google.com/java/lang/String.html) protocol, [Provider](http://docs.google.com/java/security/Provider.html) provider)            Returns a SSLContext object that implements the specified secure socket protocol. |
| static [TrustManagerFactory](http://docs.google.com/javax/net/ssl/TrustManagerFactory.html) | **TrustManagerFactory.**[**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. |

| Constructors in [javax.net.ssl](http://docs.google.com/javax/net/ssl/package-summary.html) with parameters of type [Provider](http://docs.google.com/java/security/Provider.html) | |
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| [**KeyManagerFactory**](http://docs.google.com/javax/net/ssl/KeyManagerFactory.html#KeyManagerFactory(javax.net.ssl.KeyManagerFactorySpi,%20java.security.Provider,%20java.lang.String))([KeyManagerFactorySpi](http://docs.google.com/javax/net/ssl/KeyManagerFactorySpi.html) factorySpi, [Provider](http://docs.google.com/java/security/Provider.html) provider, [String](http://docs.google.com/java/lang/String.html) algorithm)            Creates a KeyManagerFactory object. |
| [**SSLContext**](http://docs.google.com/javax/net/ssl/SSLContext.html#SSLContext(javax.net.ssl.SSLContextSpi,%20java.security.Provider,%20java.lang.String))([SSLContextSpi](http://docs.google.com/javax/net/ssl/SSLContextSpi.html) contextSpi, [Provider](http://docs.google.com/java/security/Provider.html) provider, [String](http://docs.google.com/java/lang/String.html) protocol)            Creates an SSLContext object. |
| [**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. |

| Uses of [Provider](http://docs.google.com/java/security/Provider.html) in [javax.security.auth.login](http://docs.google.com/javax/security/auth/login/package-summary.html) | |
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| Methods in [javax.security.auth.login](http://docs.google.com/javax/security/auth/login/package-summary.html) that return [Provider](http://docs.google.com/java/security/Provider.html) | |
| --- | --- |
| [Provider](http://docs.google.com/java/security/Provider.html) | **Configuration.**[**getProvider**](http://docs.google.com/javax/security/auth/login/Configuration.html#getProvider())()            Return the Provider of this Configuration. |

| Methods in [javax.security.auth.login](http://docs.google.com/javax/security/auth/login/package-summary.html) with parameters of type [Provider](http://docs.google.com/java/security/Provider.html) | |
| --- | --- |
| static [Configuration](http://docs.google.com/javax/security/auth/login/Configuration.html) | **Configuration.**[**getInstance**](http://docs.google.com/javax/security/auth/login/Configuration.html#getInstance(java.lang.String,%20javax.security.auth.login.Configuration.Parameters,%20java.security.Provider))([String](http://docs.google.com/java/lang/String.html) type, [Configuration.Parameters](http://docs.google.com/javax/security/auth/login/Configuration.Parameters.html) params, [Provider](http://docs.google.com/java/security/Provider.html) provider)            Returns a Configuration object of the specified type. |

| Uses of [Provider](http://docs.google.com/java/security/Provider.html) in [javax.xml.crypto.dsig](http://docs.google.com/javax/xml/crypto/dsig/package-summary.html) | |
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| Methods in [javax.xml.crypto.dsig](http://docs.google.com/javax/xml/crypto/dsig/package-summary.html) that return [Provider](http://docs.google.com/java/security/Provider.html) | |
| --- | --- |
| [Provider](http://docs.google.com/java/security/Provider.html) | **XMLSignatureFactory.**[**getProvider**](http://docs.google.com/javax/xml/crypto/dsig/XMLSignatureFactory.html#getProvider())()            Returns the provider of this XMLSignatureFactory. |
| [Provider](http://docs.google.com/java/security/Provider.html) | **TransformService.**[**getProvider**](http://docs.google.com/javax/xml/crypto/dsig/TransformService.html#getProvider())()            Returns the provider of this TransformService. |

| Methods in [javax.xml.crypto.dsig](http://docs.google.com/javax/xml/crypto/dsig/package-summary.html) with parameters of type [Provider](http://docs.google.com/java/security/Provider.html) | |
| --- | --- |
| static [XMLSignatureFactory](http://docs.google.com/javax/xml/crypto/dsig/XMLSignatureFactory.html) | **XMLSignatureFactory.**[**getInstance**](http://docs.google.com/javax/xml/crypto/dsig/XMLSignatureFactory.html#getInstance(java.lang.String,%20java.security.Provider))([String](http://docs.google.com/java/lang/String.html) mechanismType, [Provider](http://docs.google.com/java/security/Provider.html) provider)            Returns an XMLSignatureFactory that supports the requested XML processing mechanism and representation type (ex: "DOM"), as supplied by the specified provider. |
| static [TransformService](http://docs.google.com/javax/xml/crypto/dsig/TransformService.html) | **TransformService.**[**getInstance**](http://docs.google.com/javax/xml/crypto/dsig/TransformService.html#getInstance(java.lang.String,%20java.lang.String,%20java.security.Provider))([String](http://docs.google.com/java/lang/String.html) algorithm, [String](http://docs.google.com/java/lang/String.html) mechanismType, [Provider](http://docs.google.com/java/security/Provider.html) provider)            Returns a TransformService that supports the specified algorithm URI (ex: [Transform.XPATH2](http://docs.google.com/javax/xml/crypto/dsig/Transform.html#XPATH2)) and mechanism type (ex: DOM) as supplied by the specified provider. |

| Uses of [Provider](http://docs.google.com/java/security/Provider.html) in [javax.xml.crypto.dsig.keyinfo](http://docs.google.com/javax/xml/crypto/dsig/keyinfo/package-summary.html) | |
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| Methods in [javax.xml.crypto.dsig.keyinfo](http://docs.google.com/javax/xml/crypto/dsig/keyinfo/package-summary.html) that return [Provider](http://docs.google.com/java/security/Provider.html) | |
| --- | --- |
| [Provider](http://docs.google.com/java/security/Provider.html) | **KeyInfoFactory.**[**getProvider**](http://docs.google.com/javax/xml/crypto/dsig/keyinfo/KeyInfoFactory.html#getProvider())()            Returns the provider of this KeyInfoFactory. |

| Methods in [javax.xml.crypto.dsig.keyinfo](http://docs.google.com/javax/xml/crypto/dsig/keyinfo/package-summary.html) with parameters of type [Provider](http://docs.google.com/java/security/Provider.html) | |
| --- | --- |
| static [KeyInfoFactory](http://docs.google.com/javax/xml/crypto/dsig/keyinfo/KeyInfoFactory.html) | **KeyInfoFactory.**[**getInstance**](http://docs.google.com/javax/xml/crypto/dsig/keyinfo/KeyInfoFactory.html#getInstance(java.lang.String,%20java.security.Provider))([String](http://docs.google.com/java/lang/String.html) mechanismType, [Provider](http://docs.google.com/java/security/Provider.html) provider)            Returns a KeyInfoFactory that supports the requested XML processing mechanism and representation type (ex: "DOM"), as supplied by the specified provider. |

| Uses of [Provider](http://docs.google.com/java/security/Provider.html) in [org.ietf.jgss](http://docs.google.com/org/ietf/jgss/package-summary.html) | |
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| Methods in [org.ietf.jgss](http://docs.google.com/org/ietf/jgss/package-summary.html) with parameters of type [Provider](http://docs.google.com/java/security/Provider.html) | |
| --- | --- |
| abstract  void | **GSSManager.**[**addProviderAtEnd**](http://docs.google.com/org/ietf/jgss/GSSManager.html#addProviderAtEnd(java.security.Provider,%20org.ietf.jgss.Oid))([Provider](http://docs.google.com/java/security/Provider.html) p, [Oid](http://docs.google.com/org/ietf/jgss/Oid.html) mech)            This method is used to indicate to the GSSManager that the application would like a particular provider to be used if no other provider can be found that supports the given mechanism. |
| abstract  void | **GSSManager.**[**addProviderAtFront**](http://docs.google.com/org/ietf/jgss/GSSManager.html#addProviderAtFront(java.security.Provider,%20org.ietf.jgss.Oid))([Provider](http://docs.google.com/java/security/Provider.html) p, [Oid](http://docs.google.com/org/ietf/jgss/Oid.html) mech)            This method is used to indicate to the GSSManager that the application would like a particular provider to be used ahead of all others when support is desired for the given mechanism. |

| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | [**Class**](http://docs.google.com/java/security/Provider.html) | **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*** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| PREV   NEXT | [**FRAMES**](http://docs.google.com/index.html?java/security//class-useProvider.html)    [**NO FRAMES**](http://docs.google.com/Provider.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |

[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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