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

**Uses of Class**

**java.security.AlgorithmParameters**

| Packages that use [AlgorithmParameters](http://docs.google.com/java/security/AlgorithmParameters.html) | |
| --- | --- |
| [**java.security**](#3znysh7) | Provides the classes and interfaces for the security framework. |
| [**javax.crypto**](#2et92p0) | Provides the classes and interfaces for cryptographic operations. |

| Uses of [AlgorithmParameters](http://docs.google.com/java/security/AlgorithmParameters.html) in [java.security](http://docs.google.com/java/security/package-summary.html) | |
| --- | --- |

| Methods in [java.security](http://docs.google.com/java/security/package-summary.html) that return [AlgorithmParameters](http://docs.google.com/java/security/AlgorithmParameters.html) | |
| --- | --- |
| protected abstract  [AlgorithmParameters](http://docs.google.com/java/security/AlgorithmParameters.html) | **AlgorithmParameterGeneratorSpi.**[**engineGenerateParameters**](http://docs.google.com/java/security/AlgorithmParameterGeneratorSpi.html#engineGenerateParameters())()            Generates the parameters. |
| protected  [AlgorithmParameters](http://docs.google.com/java/security/AlgorithmParameters.html) | **SignatureSpi.**[**engineGetParameters**](http://docs.google.com/java/security/SignatureSpi.html#engineGetParameters())()            This method is overridden by providers to return the parameters used with this signature engine, or null if this signature engine does not use any parameters. |
| [AlgorithmParameters](http://docs.google.com/java/security/AlgorithmParameters.html) | **AlgorithmParameterGenerator.**[**generateParameters**](http://docs.google.com/java/security/AlgorithmParameterGenerator.html#generateParameters())()            Generates the parameters. |
| static [AlgorithmParameters](http://docs.google.com/java/security/AlgorithmParameters.html) | **AlgorithmParameters.**[**getInstance**](http://docs.google.com/java/security/AlgorithmParameters.html#getInstance(java.lang.String))([String](http://docs.google.com/java/lang/String.html) algorithm)            Returns a parameter object for the specified 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 [AlgorithmParameters](http://docs.google.com/java/security/AlgorithmParameters.html) | **AlgorithmParameters.**[**getInstance**](http://docs.google.com/java/security/AlgorithmParameters.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 parameter object for the specified algorithm. |
| [AlgorithmParameters](http://docs.google.com/java/security/AlgorithmParameters.html) | **Signature.**[**getParameters**](http://docs.google.com/java/security/Signature.html#getParameters())()            Returns the parameters used with this signature object. |

| Uses of [AlgorithmParameters](http://docs.google.com/java/security/AlgorithmParameters.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 [AlgorithmParameters](http://docs.google.com/java/security/AlgorithmParameters.html) | |
| --- | --- |
| protected abstract  [AlgorithmParameters](http://docs.google.com/java/security/AlgorithmParameters.html) | **CipherSpi.**[**engineGetParameters**](http://docs.google.com/javax/crypto/CipherSpi.html#engineGetParameters())()            Returns the parameters used with this cipher. |
| [AlgorithmParameters](http://docs.google.com/java/security/AlgorithmParameters.html) | **EncryptedPrivateKeyInfo.**[**getAlgParameters**](http://docs.google.com/javax/crypto/EncryptedPrivateKeyInfo.html#getAlgParameters())()            Returns the algorithm parameters used by the encryption algorithm. |
| [AlgorithmParameters](http://docs.google.com/java/security/AlgorithmParameters.html) | **Cipher.**[**getParameters**](http://docs.google.com/javax/crypto/Cipher.html#getParameters())()            Returns the parameters used with this cipher. |

| Methods in [javax.crypto](http://docs.google.com/javax/crypto/package-summary.html) with parameters of type [AlgorithmParameters](http://docs.google.com/java/security/AlgorithmParameters.html) | |
| --- | --- |
| protected abstract  void | **CipherSpi.**[**engineInit**](http://docs.google.com/javax/crypto/CipherSpi.html#engineInit(int,%20java.security.Key,%20java.security.AlgorithmParameters,%20java.security.SecureRandom))(int opmode, [Key](http://docs.google.com/java/security/Key.html) key, [AlgorithmParameters](http://docs.google.com/java/security/AlgorithmParameters.html) params, [SecureRandom](http://docs.google.com/java/security/SecureRandom.html) random)            Initializes this cipher with a key, a set of algorithm parameters, and a source of randomness. |
| protected abstract  void | **ExemptionMechanismSpi.**[**engineInit**](http://docs.google.com/javax/crypto/ExemptionMechanismSpi.html#engineInit(java.security.Key,%20java.security.AlgorithmParameters))([Key](http://docs.google.com/java/security/Key.html) key, [AlgorithmParameters](http://docs.google.com/java/security/AlgorithmParameters.html) params)            Initializes this exemption mechanism with a key and a set of algorithm parameters. |
| void | **Cipher.**[**init**](http://docs.google.com/javax/crypto/Cipher.html#init(int,%20java.security.Key,%20java.security.AlgorithmParameters))(int opmode, [Key](http://docs.google.com/java/security/Key.html) key, [AlgorithmParameters](http://docs.google.com/java/security/AlgorithmParameters.html) params)            Initializes this cipher with a key and a set of algorithm parameters. |
| void | **Cipher.**[**init**](http://docs.google.com/javax/crypto/Cipher.html#init(int,%20java.security.Key,%20java.security.AlgorithmParameters,%20java.security.SecureRandom))(int opmode, [Key](http://docs.google.com/java/security/Key.html) key, [AlgorithmParameters](http://docs.google.com/java/security/AlgorithmParameters.html) params, [SecureRandom](http://docs.google.com/java/security/SecureRandom.html) random)            Initializes this cipher with a key, a set of algorithm parameters, and a source of randomness. |
| void | **ExemptionMechanism.**[**init**](http://docs.google.com/javax/crypto/ExemptionMechanism.html#init(java.security.Key,%20java.security.AlgorithmParameters))([Key](http://docs.google.com/java/security/Key.html) key, [AlgorithmParameters](http://docs.google.com/java/security/AlgorithmParameters.html) params)            Initializes this exemption mechanism with a key and a set of algorithm parameters. |

| Constructors in [javax.crypto](http://docs.google.com/javax/crypto/package-summary.html) with parameters of type [AlgorithmParameters](http://docs.google.com/java/security/AlgorithmParameters.html) | |
| --- | --- |
| [**EncryptedPrivateKeyInfo**](http://docs.google.com/javax/crypto/EncryptedPrivateKeyInfo.html#EncryptedPrivateKeyInfo(java.security.AlgorithmParameters,%20byte%5B%5D))([AlgorithmParameters](http://docs.google.com/java/security/AlgorithmParameters.html) algParams, byte[] encryptedData)            Constructs an EncryptedPrivateKeyInfo from the encryption algorithm parameters and the encrypted data. |

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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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