| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/RSAKeyGenParameterSpec.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/java/security/spec/PSSParameterSpec.html)   [**NEXT CLASS**](http://docs.google.com/java/security/spec/RSAMultiPrimePrivateCrtKeySpec.html) | [**FRAMES**](http://docs.google.com/index.html?java/security/spec/RSAKeyGenParameterSpec.html)    [**NO FRAMES**](http://docs.google.com/RSAKeyGenParameterSpec.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | [FIELD](#3znysh7) | [CONSTR](#2et92p0) | [METHOD](#tyjcwt) | DETAIL: [FIELD](#1t3h5sf) | [CONSTR](#17dp8vu) | [METHOD](#26in1rg) |

## **java.security.spec**

Class RSAKeyGenParameterSpec

[java.lang.Object](http://docs.google.com/java/lang/Object.html)  
 **java.security.spec.RSAKeyGenParameterSpec**

**All Implemented Interfaces:** [AlgorithmParameterSpec](http://docs.google.com/java/security/spec/AlgorithmParameterSpec.html)

public class **RSAKeyGenParameterSpec**extends [Object](http://docs.google.com/java/lang/Object.html)implements [AlgorithmParameterSpec](http://docs.google.com/java/security/spec/AlgorithmParameterSpec.html)

This class specifies the set of parameters used to generate an RSA key pair.

**Since:** 1.3 **See Also:**[KeyPairGenerator.initialize(java.security.spec.AlgorithmParameterSpec)](http://docs.google.com/java/security/KeyPairGenerator.html#initialize(java.security.spec.AlgorithmParameterSpec))

| **Field Summary** | |
| --- | --- |
| static [BigInteger](http://docs.google.com/java/math/BigInteger.html) | [**F0**](http://docs.google.com/java/security/spec/RSAKeyGenParameterSpec.html#F0)            The public-exponent value F0 = 3. |
| static [BigInteger](http://docs.google.com/java/math/BigInteger.html) | [**F4**](http://docs.google.com/java/security/spec/RSAKeyGenParameterSpec.html#F4)            The public exponent-value F4 = 65537. |

| **Constructor Summary** | |
| --- | --- |
| [**RSAKeyGenParameterSpec**](http://docs.google.com/java/security/spec/RSAKeyGenParameterSpec.html#RSAKeyGenParameterSpec(int,%20java.math.BigInteger))(int keysize, [BigInteger](http://docs.google.com/java/math/BigInteger.html) publicExponent)            Constructs a new RSAParameterSpec object from the given keysize and public-exponent value. |

| **Method Summary** | |
| --- | --- |
| int | [**getKeysize**](http://docs.google.com/java/security/spec/RSAKeyGenParameterSpec.html#getKeysize())()            Returns the keysize. |
| [BigInteger](http://docs.google.com/java/math/BigInteger.html) | [**getPublicExponent**](http://docs.google.com/java/security/spec/RSAKeyGenParameterSpec.html#getPublicExponent())()            Returns the public-exponent value. |

| **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)) |

| **Field Detail** |
| --- |

### F0

public static final [BigInteger](http://docs.google.com/java/math/BigInteger.html) **F0**

The public-exponent value F0 = 3.

### F4

public static final [BigInteger](http://docs.google.com/java/math/BigInteger.html) **F4**

The public exponent-value F4 = 65537.

| **Constructor Detail** |
| --- |

### RSAKeyGenParameterSpec

public **RSAKeyGenParameterSpec**(int keysize,  
 [BigInteger](http://docs.google.com/java/math/BigInteger.html) publicExponent)

Constructs a new RSAParameterSpec object from the given keysize and public-exponent value.

**Parameters:**keysize - the modulus size (specified in number of bits)publicExponent - the public exponent

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

### getKeysize

public int **getKeysize**()

Returns the keysize.

**Returns:**the keysize.

### getPublicExponent

public [BigInteger](http://docs.google.com/java/math/BigInteger.html) **getPublicExponent**()

Returns the public-exponent value.

**Returns:**the public-exponent value.

| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/RSAKeyGenParameterSpec.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/java/security/spec/PSSParameterSpec.html)   [**NEXT CLASS**](http://docs.google.com/java/security/spec/RSAMultiPrimePrivateCrtKeySpec.html) | [**FRAMES**](http://docs.google.com/index.html?java/security/spec/RSAKeyGenParameterSpec.html)    [**NO FRAMES**](http://docs.google.com/RSAKeyGenParameterSpec.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
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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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