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

## **javax.crypto.spec**

Class DHGenParameterSpec

[java.lang.Object](http://docs.google.com/java/lang/Object.html)  
 **javax.crypto.spec.DHGenParameterSpec**

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

public class **DHGenParameterSpec**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 for generating Diffie-Hellman (system) parameters for use in Diffie-Hellman key agreement. This is typically done by a central authority.

The central authority, after computing the parameters, must send this information to the parties looking to agree on a secret key.

**Since:** 1.4 **See Also:**[DHParameterSpec](http://docs.google.com/javax/crypto/spec/DHParameterSpec.html)

| **Constructor Summary** | |
| --- | --- |
| [**DHGenParameterSpec**](http://docs.google.com/javax/crypto/spec/DHGenParameterSpec.html#DHGenParameterSpec(int,%20int))(int primeSize, int exponentSize)            Constructs a parameter set for the generation of Diffie-Hellman (system) parameters. |

| **Method Summary** | |
| --- | --- |
| int | [**getExponentSize**](http://docs.google.com/javax/crypto/spec/DHGenParameterSpec.html#getExponentSize())()            Returns the size in bits of the random exponent (private value). |
| int | [**getPrimeSize**](http://docs.google.com/javax/crypto/spec/DHGenParameterSpec.html#getPrimeSize())()            Returns the size in bits of the prime modulus. |

| **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** |
| --- |

### DHGenParameterSpec

public **DHGenParameterSpec**(int primeSize,  
 int exponentSize)

Constructs a parameter set for the generation of Diffie-Hellman (system) parameters. The constructed parameter set can be used to initialize an [AlgorithmParameterGenerator](http://docs.google.com/java/security/AlgorithmParameterGenerator.html) object for the generation of Diffie-Hellman parameters.

**Parameters:**primeSize - the size (in bits) of the prime modulus.exponentSize - the size (in bits) of the random exponent.

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

### getPrimeSize

public int **getPrimeSize**()

Returns the size in bits of the prime modulus.

**Returns:**the size in bits of the prime modulus

### getExponentSize

public int **getExponentSize**()

Returns the size in bits of the random exponent (private value).

**Returns:**the size in bits of the random exponent (private 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/DHGenParameterSpec.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/crypto/spec/DESKeySpec.html)   [**NEXT CLASS**](http://docs.google.com/javax/crypto/spec/DHParameterSpec.html) | [**FRAMES**](http://docs.google.com/index.html?javax/crypto/spec/DHGenParameterSpec.html)    [**NO FRAMES**](http://docs.google.com/DHGenParameterSpec.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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