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

## **java.security.spec**

Class ECPublicKeySpec

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

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

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

This immutable class specifies an elliptic curve public key with its associated parameters.

**Since:** 1.5 **See Also:**[KeySpec](http://docs.google.com/java/security/spec/KeySpec.html), [ECPoint](http://docs.google.com/java/security/spec/ECPoint.html), [ECParameterSpec](http://docs.google.com/java/security/spec/ECParameterSpec.html)

| **Constructor Summary** | |
| --- | --- |
| [**ECPublicKeySpec**](http://docs.google.com/java/security/spec/ECPublicKeySpec.html#ECPublicKeySpec(java.security.spec.ECPoint,%20java.security.spec.ECParameterSpec))([ECPoint](http://docs.google.com/java/security/spec/ECPoint.html) w, [ECParameterSpec](http://docs.google.com/java/security/spec/ECParameterSpec.html) params)            Creates a new ECPublicKeySpec with the specified parameter values. |

| **Method Summary** | |
| --- | --- |
| [ECParameterSpec](http://docs.google.com/java/security/spec/ECParameterSpec.html) | [**getParams**](http://docs.google.com/java/security/spec/ECPublicKeySpec.html#getParams())()            Returns the associated elliptic curve domain parameters. |
| [ECPoint](http://docs.google.com/java/security/spec/ECPoint.html) | [**getW**](http://docs.google.com/java/security/spec/ECPublicKeySpec.html#getW())()            Returns the public point W. |

| **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** |
| --- |

### ECPublicKeySpec

public **ECPublicKeySpec**([ECPoint](http://docs.google.com/java/security/spec/ECPoint.html) w,  
 [ECParameterSpec](http://docs.google.com/java/security/spec/ECParameterSpec.html) params)

Creates a new ECPublicKeySpec with the specified parameter values.

**Parameters:**w - the public point.params - the associated elliptic curve domain parameters. **Throws:** [NullPointerException](http://docs.google.com/java/lang/NullPointerException.html) - if w or params is null. [IllegalArgumentException](http://docs.google.com/java/lang/IllegalArgumentException.html) - if w is point at infinity, i.e. ECPoint.POINT\_INFINITY

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

### getW

public [ECPoint](http://docs.google.com/java/security/spec/ECPoint.html) **getW**()

Returns the public point W.

**Returns:**the public point W.

### getParams

public [ECParameterSpec](http://docs.google.com/java/security/spec/ECParameterSpec.html) **getParams**()

Returns the associated elliptic curve domain parameters.

**Returns:**the EC domain parameters.

| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/ECPublicKeySpec.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/ECPrivateKeySpec.html)   [**NEXT CLASS**](http://docs.google.com/java/security/spec/EllipticCurve.html) | [**FRAMES**](http://docs.google.com/index.html?java/security/spec/ECPublicKeySpec.html)    [**NO FRAMES**](http://docs.google.com/ECPublicKeySpec.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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