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

Class CertPathBuilderSpi

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

public abstract class **CertPathBuilderSpi**extends [Object](http://docs.google.com/java/lang/Object.html)

The *Service Provider Interface* (**SPI**) for the [CertPathBuilder](http://docs.google.com/java/security/cert/CertPathBuilder.html) class. All CertPathBuilder implementations must include a class (the SPI class) that extends this class (CertPathBuilderSpi) and implements all of its methods. In general, instances of this class should only be accessed through the CertPathBuilder class. For details, see the Java Cryptography Architecture.

**Concurrent Access**

Instances of this class need not be protected against concurrent access from multiple threads. Threads that need to access a single CertPathBuilderSpi instance concurrently should synchronize amongst themselves and provide the necessary locking before calling the wrapping CertPathBuilder object.

However, implementations of CertPathBuilderSpi may still encounter concurrency issues, since multiple threads each manipulating a different CertPathBuilderSpi instance need not synchronize.

**Since:** 1.4

| **Constructor Summary** | |
| --- | --- |
| [**CertPathBuilderSpi**](http://docs.google.com/java/security/cert/CertPathBuilderSpi.html#CertPathBuilderSpi())()            The default constructor. |

| **Method Summary** | |
| --- | --- |
| abstract  [CertPathBuilderResult](http://docs.google.com/java/security/cert/CertPathBuilderResult.html) | [**engineBuild**](http://docs.google.com/java/security/cert/CertPathBuilderSpi.html#engineBuild(java.security.cert.CertPathParameters))([CertPathParameters](http://docs.google.com/java/security/cert/CertPathParameters.html) params)            Attempts to build a certification path using the specified algorithm parameter set. |

| **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** |
| --- |

### CertPathBuilderSpi

public **CertPathBuilderSpi**()

The default constructor.

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

### engineBuild

public abstract [CertPathBuilderResult](http://docs.google.com/java/security/cert/CertPathBuilderResult.html) **engineBuild**([CertPathParameters](http://docs.google.com/java/security/cert/CertPathParameters.html) params)  
 throws [CertPathBuilderException](http://docs.google.com/java/security/cert/CertPathBuilderException.html),  
 [InvalidAlgorithmParameterException](http://docs.google.com/java/security/InvalidAlgorithmParameterException.html)

Attempts to build a certification path using the specified algorithm parameter set.

**Parameters:**params - the algorithm parameters **Returns:**the result of the build algorithm **Throws:** [CertPathBuilderException](http://docs.google.com/java/security/cert/CertPathBuilderException.html) - if the builder is unable to construct a certification path that satisfies the specified parameters [InvalidAlgorithmParameterException](http://docs.google.com/java/security/InvalidAlgorithmParameterException.html) - if the specified parameters are inappropriate for this CertPathBuilder

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