| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/PKIXCertPathBuilderResult.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/PKIXBuilderParameters.html)   [**NEXT CLASS**](http://docs.google.com/java/security/cert/PKIXCertPathChecker.html) | [**FRAMES**](http://docs.google.com/index.html?java/security/cert/PKIXCertPathBuilderResult.html)    [**NO FRAMES**](http://docs.google.com/PKIXCertPathBuilderResult.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | FIELD | [CONSTR](#3znysh7) | [METHOD](#2et92p0) | DETAIL: FIELD | [CONSTR](#4d34og8) | [METHOD](#17dp8vu) |

## **java.security.cert**

Class PKIXCertPathBuilderResult

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

**All Implemented Interfaces:** [Cloneable](http://docs.google.com/java/lang/Cloneable.html), [CertPathBuilderResult](http://docs.google.com/java/security/cert/CertPathBuilderResult.html), [CertPathValidatorResult](http://docs.google.com/java/security/cert/CertPathValidatorResult.html)

public class **PKIXCertPathBuilderResult**extends [PKIXCertPathValidatorResult](http://docs.google.com/java/security/cert/PKIXCertPathValidatorResult.html)implements [CertPathBuilderResult](http://docs.google.com/java/security/cert/CertPathBuilderResult.html)

This class represents the successful result of the PKIX certification path builder algorithm. All certification paths that are built and returned using this algorithm are also validated according to the PKIX certification path validation algorithm.

Instances of PKIXCertPathBuilderResult are returned by the build method of CertPathBuilder objects implementing the PKIX algorithm.

All PKIXCertPathBuilderResult objects contain the certification path constructed by the build algorithm, the valid policy tree and subject public key resulting from the build algorithm, and a TrustAnchor describing the certification authority (CA) that served as a trust anchor for the certification path.

**Concurrent Access**

Unless otherwise specified, the methods defined in this class are not thread-safe. Multiple threads that need to access a single object concurrently should synchronize amongst themselves and provide the necessary locking. Multiple threads each manipulating separate objects need not synchronize.

**Since:** 1.4 **See Also:**[CertPathBuilderResult](http://docs.google.com/java/security/cert/CertPathBuilderResult.html)

| **Constructor Summary** | |
| --- | --- |
| [**PKIXCertPathBuilderResult**](http://docs.google.com/java/security/cert/PKIXCertPathBuilderResult.html#PKIXCertPathBuilderResult(java.security.cert.CertPath,%20java.security.cert.TrustAnchor,%20java.security.cert.PolicyNode,%20java.security.PublicKey))([CertPath](http://docs.google.com/java/security/cert/CertPath.html) certPath, [TrustAnchor](http://docs.google.com/java/security/cert/TrustAnchor.html) trustAnchor, [PolicyNode](http://docs.google.com/java/security/cert/PolicyNode.html) policyTree, [PublicKey](http://docs.google.com/java/security/PublicKey.html) subjectPublicKey)            Creates an instance of PKIXCertPathBuilderResult containing the specified parameters. |

| **Method Summary** | |
| --- | --- |
| [CertPath](http://docs.google.com/java/security/cert/CertPath.html) | [**getCertPath**](http://docs.google.com/java/security/cert/PKIXCertPathBuilderResult.html#getCertPath())()            Returns the built and validated certification path. |
| [String](http://docs.google.com/java/lang/String.html) | [**toString**](http://docs.google.com/java/security/cert/PKIXCertPathBuilderResult.html#toString())()            Return a printable representation of this PKIXCertPathBuilderResult. |

| **Methods inherited from class java.security.cert.**[**PKIXCertPathValidatorResult**](http://docs.google.com/java/security/cert/PKIXCertPathValidatorResult.html) |
| --- |
| [clone](http://docs.google.com/java/security/cert/PKIXCertPathValidatorResult.html#clone()), [getPolicyTree](http://docs.google.com/java/security/cert/PKIXCertPathValidatorResult.html#getPolicyTree()), [getPublicKey](http://docs.google.com/java/security/cert/PKIXCertPathValidatorResult.html#getPublicKey()), [getTrustAnchor](http://docs.google.com/java/security/cert/PKIXCertPathValidatorResult.html#getTrustAnchor()) |

| **Methods inherited from class java.lang.**[**Object**](http://docs.google.com/java/lang/Object.html) |
| --- |
| [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()), [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)) |

| **Methods inherited from interface java.security.cert.**[**CertPathBuilderResult**](http://docs.google.com/java/security/cert/CertPathBuilderResult.html) |
| --- |
| [clone](http://docs.google.com/java/security/cert/CertPathBuilderResult.html#clone()) |

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

### PKIXCertPathBuilderResult

public **PKIXCertPathBuilderResult**([CertPath](http://docs.google.com/java/security/cert/CertPath.html) certPath,  
 [TrustAnchor](http://docs.google.com/java/security/cert/TrustAnchor.html) trustAnchor,  
 [PolicyNode](http://docs.google.com/java/security/cert/PolicyNode.html) policyTree,  
 [PublicKey](http://docs.google.com/java/security/PublicKey.html) subjectPublicKey)

Creates an instance of PKIXCertPathBuilderResult containing the specified parameters.

**Parameters:**certPath - the validated CertPathtrustAnchor - a TrustAnchor describing the CA that served as a trust anchor for the certification pathpolicyTree - the immutable valid policy tree, or null if there are no valid policiessubjectPublicKey - the public key of the subject **Throws:** [NullPointerException](http://docs.google.com/java/lang/NullPointerException.html) - if the certPath, trustAnchor or subjectPublicKey parameters are null

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

### getCertPath

public [CertPath](http://docs.google.com/java/security/cert/CertPath.html) **getCertPath**()

Returns the built and validated certification path. The CertPath object does not include the trust anchor. Instead, use the [getTrustAnchor()](http://docs.google.com/java/security/cert/PKIXCertPathValidatorResult.html#getTrustAnchor()) method to obtain the TrustAnchor that served as the trust anchor for the certification path.

**Specified by:**[getCertPath](http://docs.google.com/java/security/cert/CertPathBuilderResult.html#getCertPath()) in interface [CertPathBuilderResult](http://docs.google.com/java/security/cert/CertPathBuilderResult.html) **Returns:**the built and validated CertPath (never null)

### toString

public [String](http://docs.google.com/java/lang/String.html) **toString**()

Return a printable representation of this PKIXCertPathBuilderResult.

**Overrides:**[toString](http://docs.google.com/java/security/cert/PKIXCertPathValidatorResult.html#toString()) in class [PKIXCertPathValidatorResult](http://docs.google.com/java/security/cert/PKIXCertPathValidatorResult.html) **Returns:**a String describing the contents of this PKIXCertPathBuilderResult

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