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

Class Timestamp

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

**All Implemented Interfaces:** [Serializable](http://docs.google.com/java/io/Serializable.html)

public final class **Timestamp**extends [Object](http://docs.google.com/java/lang/Object.html)implements [Serializable](http://docs.google.com/java/io/Serializable.html)

This class encapsulates information about a signed timestamp. It is immutable. It includes the timestamp's date and time as well as information about the Timestamping Authority (TSA) which generated and signed the timestamp.

**Since:** 1.5 **See Also:**[Serialized Form](http://docs.google.com/serialized-form.html#java.security.Timestamp)

| **Constructor Summary** | |
| --- | --- |
| [**Timestamp**](http://docs.google.com/java/security/Timestamp.html#Timestamp(java.util.Date,%20java.security.cert.CertPath))([Date](http://docs.google.com/java/util/Date.html) timestamp, [CertPath](http://docs.google.com/java/security/cert/CertPath.html) signerCertPath)            Constructs a Timestamp. |

| **Method Summary** | |
| --- | --- |
| boolean | [**equals**](http://docs.google.com/java/security/Timestamp.html#equals(java.lang.Object))([Object](http://docs.google.com/java/lang/Object.html) obj)            Tests for equality between the specified object and this timestamp. |
| [CertPath](http://docs.google.com/java/security/cert/CertPath.html) | [**getSignerCertPath**](http://docs.google.com/java/security/Timestamp.html#getSignerCertPath())()            Returns the certificate path for the Timestamping Authority. |
| [Date](http://docs.google.com/java/util/Date.html) | [**getTimestamp**](http://docs.google.com/java/security/Timestamp.html#getTimestamp())()            Returns the date and time when the timestamp was generated. |
| int | [**hashCode**](http://docs.google.com/java/security/Timestamp.html#hashCode())()            Returns the hash code value for this timestamp. |
| [String](http://docs.google.com/java/lang/String.html) | [**toString**](http://docs.google.com/java/security/Timestamp.html#toString())()            Returns a string describing this timestamp. |

| **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()), [finalize](http://docs.google.com/java/lang/Object.html#finalize()), [getClass](http://docs.google.com/java/lang/Object.html#getClass()), [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)) |

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

### Timestamp

public **Timestamp**([Date](http://docs.google.com/java/util/Date.html) timestamp,  
 [CertPath](http://docs.google.com/java/security/cert/CertPath.html) signerCertPath)

Constructs a Timestamp.

**Parameters:**timestamp - is the timestamp's date and time. It must not be null.signerCertPath - is the TSA's certificate path. It must not be null. **Throws:** [NullPointerException](http://docs.google.com/java/lang/NullPointerException.html) - if timestamp or signerCertPath is null.

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

### getTimestamp

public [Date](http://docs.google.com/java/util/Date.html) **getTimestamp**()

Returns the date and time when the timestamp was generated.

**Returns:**The timestamp's date and time.

### getSignerCertPath

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

Returns the certificate path for the Timestamping Authority.

**Returns:**The TSA's certificate path.

### hashCode

public int **hashCode**()

Returns the hash code value for this timestamp. The hash code is generated using the date and time of the timestamp and the TSA's certificate path.

**Overrides:**[hashCode](http://docs.google.com/java/lang/Object.html#hashCode()) in class [Object](http://docs.google.com/java/lang/Object.html) **Returns:**a hash code value for this timestamp.**See Also:**[Object.equals(java.lang.Object)](http://docs.google.com/java/lang/Object.html#equals(java.lang.Object)), [Hashtable](http://docs.google.com/java/util/Hashtable.html)

### equals

public boolean **equals**([Object](http://docs.google.com/java/lang/Object.html) obj)

Tests for equality between the specified object and this timestamp. Two timestamps are considered equal if the date and time of their timestamp's and their signer's certificate paths are equal.

**Overrides:**[equals](http://docs.google.com/java/lang/Object.html#equals(java.lang.Object)) in class [Object](http://docs.google.com/java/lang/Object.html) **Parameters:**obj - the object to test for equality with this timestamp. **Returns:**true if the timestamp are considered equal, false otherwise.**See Also:**[Object.hashCode()](http://docs.google.com/java/lang/Object.html#hashCode()), [Hashtable](http://docs.google.com/java/util/Hashtable.html)

### toString

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

Returns a string describing this timestamp.

**Overrides:**[toString](http://docs.google.com/java/lang/Object.html#toString()) in class [Object](http://docs.google.com/java/lang/Object.html) **Returns:**A string comprising the date and time of the timestamp and its signer's certificate.

| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/Timestamp.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*** |
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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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