| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/MessageProp.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/org/ietf/jgss/GSSName.html)   [**NEXT CLASS**](http://docs.google.com/org/ietf/jgss/Oid.html) | [**FRAMES**](http://docs.google.com/index.html?org/ietf/jgss/MessageProp.html)    [**NO FRAMES**](http://docs.google.com/MessageProp.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | FIELD | [CONSTR](#3znysh7) | [METHOD](#2et92p0) | DETAIL: FIELD | [CONSTR](#3dy6vkm) | [METHOD](#2s8eyo1) |

## **org.ietf.jgss**

Class MessageProp

[java.lang.Object](http://docs.google.com/java/lang/Object.html)  
 **org.ietf.jgss.MessageProp**

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

This is a utility class used within the per-message GSSContext methods to convey per-message properties.

When used with the GSSContext interface's wrap and getMIC methods, an instance of this class is used to indicate the desired Quality-of-Protection (QOP) and to request if confidentiality services are to be applied to caller supplied data (wrap only). To request default QOP, the value of 0 should be used for QOP.

When used with the unwrap and verifyMIC methods of the GSSContext interface, an instance of this class will be used to indicate the applied QOP and confidentiality services over the supplied message. In the case of verifyMIC, the confidentiality state will always be false. Upon return from these methods, this object will also contain any supplementary status values applicable to the processed token. The supplementary status values can indicate old tokens, out of sequence tokens, gap tokens or duplicate tokens.

**Since:** 1.4 **See Also:**[GSSContext.wrap(byte[], int, int, org.ietf.jgss.MessageProp)](http://docs.google.com/org/ietf/jgss/GSSContext.html#wrap(byte%5B%5D,%20int,%20int,%20org.ietf.jgss.MessageProp)), [GSSContext.unwrap(byte[], int, int, org.ietf.jgss.MessageProp)](http://docs.google.com/org/ietf/jgss/GSSContext.html#unwrap(byte%5B%5D,%20int,%20int,%20org.ietf.jgss.MessageProp)), [GSSContext.getMIC(byte[], int, int, org.ietf.jgss.MessageProp)](http://docs.google.com/org/ietf/jgss/GSSContext.html#getMIC(byte%5B%5D,%20int,%20int,%20org.ietf.jgss.MessageProp)), [GSSContext.verifyMIC(byte[], int, int, byte[], int, int, org.ietf.jgss.MessageProp)](http://docs.google.com/org/ietf/jgss/GSSContext.html#verifyMIC(byte%5B%5D,%20int,%20int,%20byte%5B%5D,%20int,%20int,%20org.ietf.jgss.MessageProp))

| **Constructor Summary** | |
| --- | --- |
| [**MessageProp**](http://docs.google.com/org/ietf/jgss/MessageProp.html#MessageProp(boolean))(boolean privState)            Constructor which sets the desired privacy state. |
| [**MessageProp**](http://docs.google.com/org/ietf/jgss/MessageProp.html#MessageProp(int,%20boolean))(int qop, boolean privState)            Constructor which sets the values for the qop and privacy state. |

| **Method Summary** | |
| --- | --- |
| int | [**getMinorStatus**](http://docs.google.com/org/ietf/jgss/MessageProp.html#getMinorStatus())()            Retrieves the minor status code that the underlying mechanism might have set for this per-message operation. |
| [String](http://docs.google.com/java/lang/String.html) | [**getMinorString**](http://docs.google.com/org/ietf/jgss/MessageProp.html#getMinorString())()            Retrieves a string explaining the minor status code. |
| boolean | [**getPrivacy**](http://docs.google.com/org/ietf/jgss/MessageProp.html#getPrivacy())()            Retrieves the privacy state. |
| int | [**getQOP**](http://docs.google.com/org/ietf/jgss/MessageProp.html#getQOP())()            Retrieves the QOP value. |
| boolean | [**isDuplicateToken**](http://docs.google.com/org/ietf/jgss/MessageProp.html#isDuplicateToken())()            Tests if this is a duplicate of an earlier token. |
| boolean | [**isGapToken**](http://docs.google.com/org/ietf/jgss/MessageProp.html#isGapToken())()            Tests if an expected token was not received, i.e., one or more predecessor tokens have not yet been successfully processed. |
| boolean | [**isOldToken**](http://docs.google.com/org/ietf/jgss/MessageProp.html#isOldToken())()            Tests if this token's validity period has expired, i.e., the token is too old to be checked for duplication. |
| boolean | [**isUnseqToken**](http://docs.google.com/org/ietf/jgss/MessageProp.html#isUnseqToken())()            Tests if a later token had already been processed. |
| void | [**setPrivacy**](http://docs.google.com/org/ietf/jgss/MessageProp.html#setPrivacy(boolean))(boolean privState)            Sets the privacy state. |
| void | [**setQOP**](http://docs.google.com/org/ietf/jgss/MessageProp.html#setQOP(int))(int qop)            Sets the QOP value. |
| void | [**setSupplementaryStates**](http://docs.google.com/org/ietf/jgss/MessageProp.html#setSupplementaryStates(boolean,%20boolean,%20boolean,%20boolean,%20int,%20java.lang.String))(boolean duplicate, boolean old, boolean unseq, boolean gap, int minorStatus, [String](http://docs.google.com/java/lang/String.html) minorString)            This method sets the state for the supplementary information flags and the minor status in MessageProp. |

| **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** |
| --- |

### MessageProp

public **MessageProp**(boolean privState)

Constructor which sets the desired privacy state. The QOP value used is 0.

**Parameters:**privState - the privacy (i.e. confidentiality) state

### MessageProp

public **MessageProp**(int qop,  
 boolean privState)

Constructor which sets the values for the qop and privacy state.

**Parameters:**qop - the QOP valueprivState - the privacy (i.e. confidentiality) state

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

### getQOP

public int **getQOP**()

Retrieves the QOP value.

**Returns:**an int representing the QOP value**See Also:**[setQOP(int)](http://docs.google.com/org/ietf/jgss/MessageProp.html#setQOP(int))

### getPrivacy

public boolean **getPrivacy**()

Retrieves the privacy state.

**Returns:**true if the privacy (i.e., confidentiality) state is true, false otherwise.**See Also:**[setPrivacy(boolean)](http://docs.google.com/org/ietf/jgss/MessageProp.html#setPrivacy(boolean))

### setQOP

public void **setQOP**(int qop)

Sets the QOP value.

**Parameters:**qop - the int value to set the QOP to**See Also:**[getQOP()](http://docs.google.com/org/ietf/jgss/MessageProp.html#getQOP())

### setPrivacy

public void **setPrivacy**(boolean privState)

Sets the privacy state.

**Parameters:**privState - true is the privacy (i.e., confidentiality) state is true, false otherwise.**See Also:**[getPrivacy()](http://docs.google.com/org/ietf/jgss/MessageProp.html#getPrivacy())

### isDuplicateToken

public boolean **isDuplicateToken**()

Tests if this is a duplicate of an earlier token.

**Returns:**true if this is a duplicate, false otherwise.

### isOldToken

public boolean **isOldToken**()

Tests if this token's validity period has expired, i.e., the token is too old to be checked for duplication.

**Returns:**true if the token's validity period has expired, false otherwise.

### isUnseqToken

public boolean **isUnseqToken**()

Tests if a later token had already been processed.

**Returns:**true if a later token had already been processed, false otherwise.

### isGapToken

public boolean **isGapToken**()

Tests if an expected token was not received, i.e., one or more predecessor tokens have not yet been successfully processed.

**Returns:**true if an expected per-message token was not received, false otherwise.

### getMinorStatus

public int **getMinorStatus**()

Retrieves the minor status code that the underlying mechanism might have set for this per-message operation.

**Returns:**the int minor status

### getMinorString

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

Retrieves a string explaining the minor status code.

**Returns:**a String corresponding to the minor status code. null will be returned when no minor status code has been set.

### setSupplementaryStates

public void **setSupplementaryStates**(boolean duplicate,  
 boolean old,  
 boolean unseq,  
 boolean gap,  
 int minorStatus,  
 [String](http://docs.google.com/java/lang/String.html) minorString)

This method sets the state for the supplementary information flags and the minor status in MessageProp. It is not used by the application but by the GSS implementation to return this information to the caller of a per-message context method.

**Parameters:**duplicate - true if the token was a duplicate of an earlier token, false otherwiseold - true if the token's validity period has expired, false otherwiseunseq - true if a later token has already been processed, false otherwisegap - true if one or more predecessor tokens have not yet been successfully processed, false otherwiseminorStatus - the int minor status code for the per-message operationminorString - the textual representation of the minorStatus 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/MessageProp.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/org/ietf/jgss/GSSName.html)   [**NEXT CLASS**](http://docs.google.com/org/ietf/jgss/Oid.html) | [**FRAMES**](http://docs.google.com/index.html?org/ietf/jgss/MessageProp.html)    [**NO FRAMES**](http://docs.google.com/MessageProp.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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