

org.bouncycastle.crypto.signers

## Class DSASigner

java.lang.Object

└─ org.bouncycastle.crypto.signers.DSASigner

### All Implemented Interfaces:

[DSA](#)

```
public class DSASigner
extends java.lang.Object
implements DSA
```

The Digital Signature Algorithm - as described in "Handbook of Applied Cryptography", pages 452 - 453.

## Constructor Summary

[DSASigner\(\)](#)

## Method Summary

java.math.BigInteger[]	<a href="#">generateSignature</a> (byte[] message) generate a signature for the given message using the key we were initialised with.
void	<a href="#">init</a> (boolean forSigning, <a href="#">CipherParameters</a> param) initialise the signer for signature generation or signature verification.
boolean	<a href="#">verifySignature</a> (byte[] message, java.math.BigInteger r, java.math.BigInteger s) return true if the value r and s represent a DSA signature for the passed in message for standard DSA the message should be a SHA-1 hash of the real message to be verified.

### Methods inherited from class java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

## Constructor Detail

### DSASigner

```
public DSASigner()
```

## Method Detail

### init

```
public void init(boolean forSigning,  
                 CipherParameters param)
```

**Description copied from interface:** [DSA](#)

initialise the signer for signature generation or signature verification.

**Specified by:**

[init](#) in interface [DSA](#)

**Parameters:**

forSigning - true if we are generating a signature, false otherwise.

param - key parameters for signature generation.

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### generateSignature

```
public java.math.BigInteger[] generateSignature(byte[] message)
```

generate a signature for the given message using the key we were initialised with. For conventional DSA the message should be a SHA-1 hash of the message of interest.

**Specified by:**

[generateSignature](#) in interface [DSA](#)

**Parameters:**

message - the message that will be verified later.

**Returns:**

two big integers representing the r and s values respectively.

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### verifySignature

```
public boolean verifySignature(byte[] message,  
                                java.math.BigInteger r,  
                                java.math.BigInteger s)
```

return true if the value r and s represent a DSA signature for the passed in message for standard DSA the message should be a SHA-1 hash of the real message to be verified.

**Specified by:**

[verifySignature](#) in interface [DSA](#)

**Parameters:**

message - the message that was supposed to have been signed.

r - the r signature value.

s - the s signature value.

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