

# **PDF-AS 4.0 Documentation**

EGIZ E-Government Innovationszentrum

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Package

**at.gv.egiz.pdfas.lib.api**

# at.gv.egiz.pdfas.lib.api Class ByteArrayDataSink

java.lang.Object

└─at.gv.egiz.pdfas.lib.api.ByteArrayDataSink

All Implemented Interfaces:

[DataSink](#)

public class **ByteArrayDataSink**  
extends Object  
implements [DataSink](#)

A simple byte array data sink

## Field Summary

protected	<a href="#">bos</a>
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## Constructor Summary

public	<a href="#">ByteArrayDataSink()</a>
--------	-------------------------------------

## Method Summary

OutputStream	<a href="#">createOutputStream()</a>
--------------	--------------------------------------

byte[]	<a href="#">getData()</a> Returns the output data
--------	--

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

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

### Methods inherited from interface [at.gv.egiz.pdfas.lib.api.DataSink](#)

[createOutputStream](#)

## Fields

### **bos**

protected java.io.ByteArrayOutputStream **bos**

## Constructors

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## ByteArrayDataSink

```
public ByteArrayDataSink()
```

## Methods

### createOutputStream

```
public OutputStream createOutputStream()
```

---

### getData

```
public byte[] getData()
```

Returns the output data

**Returns:**

the output data

# at.gv.egiz.pdfas.lib.api Class ByteArrayDataSource

java.lang.Object

└─at.gv.egiz.pdfas.lib.api.ByteArrayDataSource

All Implemented Interfaces:

[DataSource](#)

public class **ByteArrayDataSource**  
extends Object  
implements [DataSource](#)

A simple byte array data source

## Constructor Summary

public	<a href="#">ByteArrayDataSource</a> (byte[] data)
--------	---

## Method Summary

byte[]	<a href="#">getBytesData</a> ()
--------	---------------------------------

String	<a href="#">getMimeType</a> ()
--------	--------------------------------

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

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

### Methods inherited from interface [at.gv.egiz.pdfas.lib.api.DataSource](#)

[getBytesData](#), [getMimeType](#)

## Constructors

### ByteArrayDataSource

public **ByteArrayDataSource**(byte[] data)

## Methods

### getMimeType

public String **getMimeType**()

## **getBytesData**

```
public byte[] getBytesData()
```

# at.gv.egiz.pdfas.lib.api Interface Configuration

public interface **Configuration**  
extends

Configuration interface This interface is used to configure one PDF-AS run. It contains the configuration values from the configuration file. Use this interface to override properties during runtime.

## Method Summary

String	<a href="#">getValue</a> (String key) Gets a specific Value
boolean	<a href="#">hasValue</a> (String key) Is the configuration key set
void	<a href="#">setValue</a> (String key, String value) Sets or overrides a configuration value

## Methods

### getValue

```
public String getValue(String key)
```

Gets a specific Value

**Parameters:**

key - The configuration key

**Returns:**

The configured value

### hasValue

```
public boolean hasValue(String key)
```

Is the configuration key set

**Parameters:**

key - The configuration key

**Returns:**

true | false

### setValue

```
public void setValue(String key,  
String value)
```

Sets or overrides a configuration value

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**Parameters:**

key - The configuration key

value - The configuration value



# at.gv.egiz.pdfas.lib.api Interface DataSink

All Known Implementing Classes:

[ByteArrayDataSink](#)

---

```
public interface DataSink  
extends
```

Data Sink interface.

---

## Method Summary

OutputStream	<a href="#">createOutputStream()</a> Creates an output stream to receive the data
--------------	--

---

## Methods

### **createOutputStream**

```
public OutputStream createOutputStream()
```

Creates an output stream to receive the data

**Returns:**

an output stream for the data

# at.gv.egiz.pdfas.lib.api Interface DataSource

All Known Implementing Classes:  
[ByteArrayDataSource](#)

public interface **DataSource**  
extends

Data Source interface All data sources in PDF-AS implement this interface. Also custom data sources have to implement this interface to allow PDF-AS to use them.

## Method Summary

byte[]	<a href="#">getBytesData()</a> Gets the contained data
String	<a href="#">getMimeType()</a> Gets the MIME Type of the contained data.

## Methods

### getMimeType

```
public String getMimeType()
```

Gets the MIME Type of the contained data.

**Returns:**

MIME Type

### getBytesData

```
public byte[] getBytesData()
```

Gets the contained data

**Returns:**

the contained data

## at.gv.egiz.pdfas.lib.api Interface IConfigurationConstants

public interface **IConfigurationConstants**  
extends

### Field Summary

public static final	<a href="#">DEFAULT</a> Value: <b>default</b>
public static final	<a href="#">DEFAULT_SIGNATURE_PROFILE</a> Value: <b>sig_obj.type.default</b>
public static final	<a href="#">FALSE</a> Value: <b>false</b>
public static final	<a href="#">LEGACY_POSITIONING</a> Value: <b>.legacy.pos</b>
public static final	<a href="#">MAIN</a> Value: <b>main</b>
public static final	<a href="#">PLACEHOLDER_SEARCH_ENABLED</a> Value: <b>enable_placeholder_search</b>
public static final	<a href="#">POS</a> Value: <b>pos</b>
public static final	<a href="#">SEPERATOR</a> Value: <b>.</b>
public static final	<a href="#">SIG_OBJECT</a> Value: <b>sig_obj</b>
public static final	<a href="#">TABLE</a> Value: <b>table</b>
public static final	<a href="#">TRUE</a> Value: <b>true</b>
public static final	<a href="#">TYPE</a> Value: <b>type</b>

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## Fields

### TRUE

```
public static final java.lang.String TRUE
```

Constant value: **true**

### FALSE

```
public static final java.lang.String FALSE
```

Constant value: **false**

### SIG\_OBJECT

```
public static final java.lang.String SIG_OBJECT
```

Constant value: **sig\_obj**

### TYPE

```
public static final java.lang.String TYPE
```

Constant value: **type**

### TABLE

```
public static final java.lang.String TABLE
```

Constant value: **table**

### MAIN

```
public static final java.lang.String MAIN
```

Constant value: **main**

### POS

```
public static final java.lang.String POS
```

Constant value: **pos**

### DEFAULT

```
public static final java.lang.String DEFAULT
```

Constant value: **default**

(continued from last page)

## **SEPERATOR**

```
public static final java.lang.String SEPERATOR
```

Constant value: `.`

---

## **LEGACY\_POSITIONING**

```
public static final java.lang.String LEGACY_POSITIONING
```

Constant value: `.legacy.pos`

---

## **PLACEHOLDER\_SEARCH\_ENABLED**

```
public static final java.lang.String PLACEHOLDER_SEARCH_ENABLED
```

Constant value: `enable_placeholder_search`

---

## **DEFAULT\_SIGNATURE\_PROFILE**

```
public static final java.lang.String DEFAULT_SIGNATURE_PROFILE
```

Constant value: `sig_obj.type.default`

# at.gv.egiz.pdfas.lib.api Interface PdfAs

public interface **PdfAs**  
extends

## Method Summary

<a href="#">SignResult</a>	<a href="#">finishSign(<a href="#">StatusRequest</a> statusRequest)</a> Finishes a signature process
<a href="#">Configuration</a>	<a href="#">getConfiguration()</a> Gets a copy of the PDF-AS configuration, to allow the application to override configuration parameters at runtime.
<a href="#">StatusRequest</a>	<a href="#">process(<a href="#">StatusRequest</a> statusRequest)</a> Continues an ongoing signature process
<a href="#">SignResult</a>	<a href="#">sign(<a href="#">SignParameter</a> parameter)</a> Signs a PDF document using PDF-AS.
<a href="#">StatusRequest</a>	<a href="#">startSign(<a href="#">SignParameter</a> parameter)</a> Starts a signature process After the process has to be startet the status request has to be services by the user application
List	<a href="#">verify(<a href="#">VerifyParameter</a> parameter)</a> Verifies a document with (potentially multiple) PDF-AS signatures.

## Methods

### sign

```
public SignResult sign(SignParameter parameter)
    throws PdfAsException
```

Signs a PDF document using PDF-AS.

**Parameters:**

parameter

**Returns:**

### verify

```
public List verify(VerifyParameter parameter)
    throws PdfAsException
```

Verifies a document with (potentially multiple) PDF-AS signatures.

**Parameters:**

parameter - The verification parameter

(continued from last page)

**Returns:**

A list of verification Results

---

## getConfiguration

```
public Configuration getConfiguration()
```

Gets a copy of the PDF-AS configuration, to allow the application to override configuration parameters at runtime.

**Returns:**

A private copy of the pdf as configuration

---

## startSign

```
public StatusRequest startSign(SignParameter parameter)
    throws PdfAsException
```

Starts a signature process After the process has to be startet the status request has to be services by the user application

**Parameters:**

`parameter` - The sign parameter

**Returns:**

A status request

**Throws:**`PdfAsException`

---

## process

```
public StatusRequest process(StatusRequest statusRequest)
    throws PdfAsException
```

Continues an ongoing signature process

**Parameters:**

`statusRequest` - The current status

**Returns:**

A status request

**Throws:**`PdfAsException`

---

## finishSign

```
public SignResult finishSign(StatusRequest statusRequest)
    throws PdfAsException
```

Finishes a signature process

**Parameters:**

`statusRequest` - The current status

**Returns:**

A signature result

**Throws:**`PdfAsException`

# at.gv.egiz.pdfas.lib.api

## Class PdfAsFactory

java.lang.Object

↳ at.gv.egiz.pdfas.lib.api.PdfAsFactory

public class **PdfAsFactory**  
extends Object

### Constructor Summary

public	<a href="#">PdfAsFactory()</a>
--------	--------------------------------

### Method Summary

static <a href="#">PdfAs</a>	<a href="#">createPdfAs</a> (File configuration) Create a new instance of PDF-AS
static <a href="#">SignParameter</a>	<a href="#">createSignParameter</a> ( <a href="#">Configuration</a> configuration, <a href="#">DataSource</a> dataSource) Creates a sign parameter
static <a href="#">VerifyParameter</a>	<a href="#">createVerifyParameter</a> ( <a href="#">Configuration</a> configuration, <a href="#">DataSource</a> dataSource) Creates a verification parameter
static void	<a href="#">deployDefaultConfiguration</a> (File targetDirectory) Deploy default configuration to targetDirectory The targetDirectory will be deleted and
static void	<a href="#">dontConfigureLog4j</a> ()
static String	<a href="#">getSCMRevision</a> () Gets the PDF-AS SCM Revision
static String	<a href="#">getVersion</a> () Gets the PDF-AS Version

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

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

### Constructors

#### **PdfAsFactory**

public **PdfAsFactory**()

### Methods



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## dontConfigureLog4j

```
public static void dontConfigureLog4j()
```

---

## createPdfAs

```
public static PdfAs createPdfAs(File configuration)
```

Create a new instance of PDF-AS

**Parameters:**

configuration - The PDF-AS configuration

**Returns:**

---

## createSignParameter

```
public static SignParameter createSignParameter(Configuration configuration,  
DataSource dataSource)
```

Creates a sign parameter

**Parameters:**

configuration - The configuration to be used

dataSource - The data source to be used

**Returns:**

---

## createVerifyParameter

```
public static VerifyParameter createVerifyParameter(Configuration configuration,  
DataSource dataSource)
```

Creates a verification parameter

**Parameters:**

configuration - The configuration to be used

dataSource - The data source to be used

**Returns:**

---

## deployDefaultConfiguration

```
public static void deployDefaultConfiguration(File targetDirectory)  
throws Exception
```

Deploy default configuration to targetDirectory The targetDirectory will be deleted and

**Parameters:**

targetDirectory

**Throws:**

Exception

## **getSCMRevision**

```
public static String getSCMRevision()
```

Gets the PDF-AS SCM Revision

**Returns:**

---

## **getVersion**

```
public static String getVersion()
```

Gets the PDF-AS Version

**Returns:**

PDF-AS Verison string

# at.gv.egiz.pdfas.lib.api Interface PdfAsParameter

All Subinterfaces:

[VerifyParameter](#), [SignParameter](#)

public interface **PdfAsParameter**  
extends

## Method Summary

<a href="#">Configuration</a>	<a href="#">getConfiguration()</a> Gets the configuration associated with the parameter
<a href="#">DataSource</a>	<a href="#">getDataSource()</a> Gets the data source of the parameter
void	<a href="#">setConfiguration(<a href="#">Configuration</a> configuration)</a> Sets the configuration associated with the parameter
void	<a href="#">setDataSource(<a href="#">DataSource</a> dataSource)</a> Sets the data source of the parameter

## Methods

### getConfiguration

public [Configuration](#) **getConfiguration()**

Gets the configuration associated with the parameter

**Returns:**

### setConfiguration

public void **setConfiguration([Configuration](#) configuration)**

Sets the configuration associated with the parameter

**Parameters:**

configuration

### getDataSource

public [DataSource](#) **getDataSource()**

Gets the data source of the parameter

**Returns:**

## setDataSource

```
public void setDataSource(DataSource dataSource)
```

Sets the data source of the parameter

### Parameters:

dataSource

# at.gv.egiz.pdfas.lib.api Interface SignaturePosition

public interface **SignaturePosition**  
extends

## Method Summary

float	<a href="#">getHeight()</a> Returns the height of the signature.
int	<a href="#">getPage()</a> Returns the page on which the signature was placed.
float	<a href="#">getWidth()</a> Returns the width of the signature.
float	<a href="#">getX()</a> Returns the x position.
float	<a href="#">getY()</a> Returns the y position.

## Methods

### getPage

public int **getPage()**

Returns the page on which the signature was placed.

**Returns:**

Returns the page on which the signature was placed.

### getX

public float **getX()**

Returns the x position.

**Returns:**

Returns the x position.

### getY

public float **getY()**

Returns the y position.

**Returns:**

Returns the y position.

## **getWidth**

```
public float getWidth()
```

Returns the width of the signature.

**Returns:**

Returns the width of the signature.

---

## **getHeight**

```
public float getHeight()
```

Returns the height of the signature.

**Returns:**

Returns the height of the signature.

---

# at.gv.egiz.pdfas.lib.api Interface StatusRequest

public interface **StatusRequest**  
extends

Status of a signature process

## Method Summary

byte[]	<a href="#">getSignatureData()</a> Gets the data to be signed
int[]	<a href="#">getSignatureDataByteRange()</a> Gets the byte range of the data to be signed
boolean	<a href="#">isReady()</a> If true finishSign in PdfAs can be called to retrieve the signed pdf
boolean	<a href="#">needCertificate()</a> If true PDF-AS requires the signature certificate Retrieve the signing certificate and set it via setCertificate
boolean	<a href="#">needSignature()</a> If true PDF-AS requires a the CADES signature use getSignatureData() and getSignatureDataByteRange() to retrieve the data to be signed and set the signature via setSignature
void	<a href="#">setCertificate(byte[] encodedCertificate)</a> Sets the signing certificate
void	<a href="#">setSignature(byte[] signatureValue)</a> Sets the signature

## Methods

### needCertificate

public boolean **needCertificate()**

If true PDF-AS requires the signature certificate Retrieve the signing certificate and set it via setCertificate

**Returns:**

### needSignature

public boolean **needSignature()**

If true PDF-AS requires a the CADES signature use getSignatureData() and getSignatureDataByteRange() to retrieve the data to be signed and set the signature via setSignature

**Returns:**

## isReady

```
public boolean isReady()
```

If true finishSign in PdfAs can be called to retrieve the signed pdf

**Returns:**

---

## getSignatureData

```
public byte[] getSignatureData()
```

Gets the data to be signed

**Returns:**

---

## getSignatureDataByteRange

```
public int[] getSignatureDataByteRange()
```

Gets the byte range of the data to be signed

**Returns:**

---

## setCertificate

```
public void setCertificate(byte[] encodedCertificate)  
    throws java.security.cert.CertificateException
```

Sets the signing certificate

**Parameters:**

encodedCertificate

**Throws:**

CertificateException

---

## setSignature

```
public void setSignature(byte[] signatureValue)
```

Sets the signature

**Parameters:**

signatureValue

---



---

Package

**at.gv.egiz.pdfas.lib.api.sign**

## at.gv.egiz.pdfas.lib.api.sign Interface IPlainSigner

public interface **IPlainSigner**  
extends

Signer interface PDF-AS uses an IPlainSigner instance to create the signature. Also custom IPlainSigner may be used to sign PDF-AS documents.

### Method Summary

X509Certificate	<a href="#">getCertificate()</a> Gets the signing certificate
String	<a href="#">getPDFFilter()</a> Gets the PDF Filter for this signer
String	<a href="#">getPDFSubFilter()</a> Gets the PDF Subfilter for this signer
byte[]	<a href="#">sign(byte[] input, int[] byteRange)</a> Sign the document

### Methods

#### getCertificate

```
public X509Certificate getCertificate()
    throws PdfAsException
```

Gets the signing certificate

**Returns:**

**Throws:**

PdfAsException

#### sign

```
public byte[] sign(byte[] input,
    int[] byteRange)
    throws PdfAsException
```

Sign the document

**Parameters:**

input  
byteRange

**Returns:**

(continued from last page)

**Throws:**

PdfAsException

---

**getPDFSubFilter**

```
public String getPDFSubFilter()
```

Gets the PDF Subfilter for this signer

**Returns:**

---

**getPDFFilter**

```
public String getPDFFilter()
```

Gets the PDF Filter for this signer

**Returns:**

---

# at.gv.egiz.pdfas.lib.api.sign Interface SignParameter

All Superinterfaces:

[PdfAsParameter](#)

public interface **SignParameter**

extends [PdfAsParameter](#)

## Method Summary

<a href="#">DataSink</a>	<a href="#">getOutput()</a> Gets the data sink for the signature process
<a href="#">IPlainSigner</a>	<a href="#">getPlainSigner()</a> Gets the signer to use.
String	<a href="#">getSignaturePosition()</a> Gets the signature position
String	<a href="#">getSignatureProfileId()</a> Gets the signature profile to use
void	<a href="#">setOutput(DataSink output)</a> Sets the data sink for the signature process
void	<a href="#">setPlainSigner(IPlainSigner signer)</a> Sets the signer to use
void	<a href="#">setSignaturePosition(String signaturePosition)</a> Sets the signature position
void	<a href="#">setSignatureProfileId(String signatureProfileId)</a> Sets the signature profile to use

Methods inherited from interface [at.gv.egiz.pdfas.lib.api.PdfAsParameter](#)

[getConfiguration](#), [getDataSource](#), [setConfiguration](#), [setDataSource](#)

## Methods

### getSignatureProfileId

public String **getSignatureProfileId()**

Gets the signature profile to use

**Returns:**

---

(continued from last page)

## setSignatureProfileId

```
public void setSignatureProfileId(String signatureProfileId)
```

Sets the signature profile to use

**Parameters:**

signatureProfileId - The signature profile

---

## getSignaturePosition

```
public String getSignaturePosition()
```

Gets the signature position

**Returns:**

---

## setSignaturePosition

```
public void setSignaturePosition(String signaturePosition)
```

Sets the signature position

**Parameters:**

signaturePosition - The signature position string

---

## setOutput

```
public void setOutput(DataSink output)
```

Sets the data sink for the signature process

**Parameters:**

output

---

## getOutput

```
public DataSink getOutput()
```

Gets the data sink for the signature process

**Returns:**

---

## setPlainSigner

```
public void setPlainSigner(IPlainSigner signer)
```

Sets the signer to use

**Parameters:**

signer

---

## getPlainSigner

```
public IPlainSigner getPlainSigner()
```

---

(continued from last page)

Gets the signer to use.

**Returns:**

## at.gv.egiz.pdfas.lib.api.sign Interface SignResult

public interface **SignResult**  
extends

### Method Summary

<a href="#">DataSink</a>	<a href="#">getOutputDocument()</a> Returns the filled output data sink.
<a href="#">SignaturePosition</a>	<a href="#">getSignaturePosition()</a> Returns the position where the signature is finally placed.
java.security.cert.X509Certificate	<a href="#">getSignerCertificate()</a> Returns the certificate of the signer.

### Methods

#### getOutputDocument

public [DataSink](#) **getOutputDocument()**

Returns the filled output data sink.

**Returns:**

Returns the filled output data sink.

#### getSignerCertificate

public java.security.cert.X509Certificate **getSignerCertificate()**

Returns the certificate of the signer.

**Returns:**

Returns the certificate of the signer.

#### getSignaturePosition

public [SignaturePosition](#) **getSignaturePosition()**

Returns the position where the signature is finally placed.

This information can be useful for post-processing the document.

Consult the PDF-AS documentation section Commandline for further information about positioning.

**Returns:**

Returns the position where the signature is finally placed. May return null if no position information is available.

---

Package

**at.gv.egiz.pdfas.lib.api.verify**



## at.gv.egiz.pdfas.lib.api.verify Interface SignatureCheck

public interface **SignatureCheck**  
extends

### Method Summary

int	<a href="#">getCode()</a> Returns the response code of the check.
String	<a href="#">getMessage()</a> Returns the textual response message of the check (corresponding to the code).

### Methods

#### getCode

public int **getCode()**

Returns the response code of the check.

**Returns:**

Returns the response code of the check.

#### getMessage

public String **getMessage()**

Returns the textual response message of the check (corresponding to the code).

**Returns:**

Returns the textual response message of the check (corresponding to the code).

# at.gv.egiz.pdfas.lib.api.verify Interface VerifyParameter

All Superinterfaces:  
[PdfAsParameter](#)

public interface **VerifyParameter**  
extends [PdfAsParameter](#)

## Method Summary

Date	<a href="#">getVerificationTime()</a> Gets the verification time
int	<a href="#">getWhichSignature()</a> Gets which signature should be verified This is a 0 based index of the signatures
void	<a href="#">setVerificationTime(Date verificationTime)</a> Sets the verification time.
void	<a href="#">setWhichSignature(int which)</a> Sets which signature should be verified This is a 0 based index of the signatures

Methods inherited from interface [at.gv.egiz.pdfas.lib.api.PdfAsParameter](#)

[getConfiguration](#), [getDataSource](#), [setConfiguration](#), [setDataSource](#)

## Methods

### getWhichSignature

```
public int getWhichSignature()
```

Gets which signature should be verified This is a 0 based index of the signatures

**Returns:**

### setWhichSignature

```
public void setWhichSignature(int which)
```

Sets which signature should be verified This is a 0 based index of the signatures

**Parameters:**

which - The index

### getVerificationTime

```
public Date getVerificationTime()
```

(continued from last page)

Gets the verification time

**Returns:**

---

## **setVerificationTime**

```
public void setVerificationTime(Date verificationTime)
```

Sets the verification time.

**Parameters:**

verificationTime

## at.gv.egiz.pdfas.lib.api.verify Interface VerifyResult

public interface **VerifyResult**  
extends

### Method Summary

<a href="#">SignatureCheck</a>	<a href="#">getCertificateCheck()</a> Returns the result of the certificate check.
<a href="#">SignatureCheck</a>	<a href="#">getManifestCheckCode()</a> Returns the result of the manifest check.
byte[]	<a href="#">getSignatureData()</a> Gets the signed data for the signature
X509Certificate	<a href="#">getSignerCertificate()</a> Gets the signer certificate
<a href="#">SignatureCheck</a>	<a href="#">getValueCheckCode()</a> Returns the result of the value (and hash) check.
PdfAsException	<a href="#">getVerificationException()</a> Returns a verification exception if any.
boolean	<a href="#">isQualifiedCertificate()</a> Returns true, if the signer's certificate is a qualified certificate.
boolean	<a href="#">isVerificationDone()</a> Returns if the verification was possible or could not even be started.

### Methods

#### isVerificationDone

public boolean **isVerificationDone()**

Returns if the verification was possible or could not even be started. see [getVerificationException\(\)](#) for details.

**Returns:**

#### getVerificationException

public PdfAsException **getVerificationException()**

Returns a verification exception if any. Shows that the verification could not be started. See [isVerificationDone\(\)](#).

**Returns:**

## getCertificateCheck

```
public SignatureCheck getCertificateCheck()
```

Returns the result of the certificate check.

**Returns:**

Returns the result of the certificate check.

---

## getValueCheckCode

```
public SignatureCheck getValueCheckCode()
```

Returns the result of the value (and hash) check.

**Returns:**

Returns the result of the value (and hash) check.

---

## getManifestCheckCode

```
public SignatureCheck getManifestCheckCode()
```

Returns the result of the manifest check.

**Returns:**

Returns the result of the manifest check.

---

## isQualifiedCertificate

```
public boolean isQualifiedCertificate()
```

Returns true, if the signer's certificate is a qualified certificate.

**Returns:**

Returns true, if the signer's certificate is a qualified certificate.

---

## getSignerCertificate

```
public X509Certificate getSignerCertificate()
```

Gets the signer certificate

**Returns:**

---

## getSignatureData

```
public byte[] getSignatureData()
```

Gets the signed data for the signature

**Returns:**

---

# Index

## B

bos 3  
ByteArrayDataSink 3  
ByteArrayDataSource 5

## C

createOutputStream 4, 9  
createPdfAs 17  
createSignParameter 17  
createVerifyParameter 17

## D

DEFAULT 12  
DEFAULT\_SIGNATURE\_PROFILE 13  
deployDefaultConfiguration 17  
dontConfigureLog4j 16

## F

FALSE 12  
finishSign 15

## G

getByteData 6, 10  
getCertificate 26  
getCertificateCheck 37  
getCode 33  
getConfiguration 15, 19  
getData 4  
getDataSource 19  
getHeight 22  
getManifestCheckCode 37  
getMessage 33  
getMIMEType 5, 10  
getOutput 29  
getOutputDocument 31  
getPage 21  
getPDFFilter 27  
getPDFSubFilter 27

getPlainSigner 29  
getSCMRevision 18  
getSignatureData 24, 37  
getSignatureDataByteRange 24  
getSignaturePosition 29, 31  
getSignatureProfileId 28  
getSignerCertificate 31, 37  
getValue 7  
getValueCheckCode 37  
getVerificationException 36  
getVerificationTime 34  
getVersion 18  
getWhichSignature 34  
getWidth 22  
getX 21  
getY 21

## H

hasValue 7

## I

isQualifiedCertificate 37  
isReady 24  
isVerificationDone 36

## L

LEGACY\_POSITIONING 13

## M

MAIN 12

## N

needCertificate 23  
needSignature 23

## P

PdfAsFactory 16  
PLACEHOLDER\_SEARCH\_ENABLED 13  
POS 12

process 15

## S

SEPERATOR 12

setCertificate 24

setConfiguration 19

setDataSource 20

setOutput 29

setPlainSigner 29

setSignature 24

setSignaturePosition 29

setSignatureProfileId 28

setValue 7

setVerificationTime 35

setWhichSignature 34

SIG\_OBJECT 12

sign 14, 26

startSign 15

## T

TABLE 12

TRUE 11

TYPE 12

## V

verify 14