| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/AttachmentUnmarshaller.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/javax/xml/bind/attachment/AttachmentMarshaller.html)   NEXT CLASS | [**FRAMES**](http://docs.google.com/index.html?javax/xml/bind/attachment/AttachmentUnmarshaller.html)    [**NO FRAMES**](http://docs.google.com/AttachmentUnmarshaller.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | FIELD | [CONSTR](#3znysh7) | [METHOD](#2et92p0) | DETAIL: FIELD | [CONSTR](#3dy6vkm) | [METHOD](#4d34og8) |

## **javax.xml.bind.attachment**

Class AttachmentUnmarshaller

[java.lang.Object](http://docs.google.com/java/lang/Object.html)  
 **javax.xml.bind.attachment.AttachmentUnmarshaller**

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

Enables JAXB unmarshalling of a root document containing optimized binary data formats.

This API enables an efficient cooperative processing of optimized binary data formats between a JAXB 2.0 implementation and MIME-based package processor (MTOM/XOP and WS-I AP 1.0). JAXB unmarshals the body of a package, delegating the understanding of the packaging format being used to a MIME-based package processor that implements this abstract class.

This abstract class identifies if a package requires XOP processing, [isXOPPackage()](http://docs.google.com/javax/xml/bind/attachment/AttachmentUnmarshaller.html#isXOPPackage()) and provides retrieval of binary content stored as attachments by content-id.

## Identifying the content-id, cid, to pass to getAttachment\*(String cid)

* For XOP processing, the infoset representation of the cid is described in step 2a in [Section 3.2 Interpreting XOP Packages](http://www.w3.org/TR/2005/REC-xop10-20050125/#interpreting_xop_packages)
* For WS-I AP 1.0, the cid is identified as an element or attribute of type ref:swaRef specified in [Section 4.4 Referencing Attachments from the SOAP Envelope](http://www.ws-i.org/Profiles/AttachmentsProfile-1.0-2004-08-24.html#Referencing_Attachments_from_the_SOAP_Envelope)

**Since:** JAXB 2.0 **See Also:**[Unmarshaller.setAttachmentUnmarshaller(AttachmentUnmarshaller)](http://docs.google.com/javax/xml/bind/Unmarshaller.html#setAttachmentUnmarshaller(javax.xml.bind.attachment.AttachmentUnmarshaller)), [XML-binary Optimized Packaging](http://www.w3.org/TR/2005/REC-xop10-20050125/), [WS-I Attachments Profile Version 1.0.](http://www.ws-i.org/Profiles/AttachmentsProfile-1.0-2004-08-24.html), [Describing Media Content of Binary Data in XML](http://www.w3.org/TR/xml-media-types/)

| **Constructor Summary** | |
| --- | --- |
| [**AttachmentUnmarshaller**](http://docs.google.com/javax/xml/bind/attachment/AttachmentUnmarshaller.html#AttachmentUnmarshaller())() |

| **Method Summary** | |
| --- | --- |
| abstract  byte[] | [**getAttachmentAsByteArray**](http://docs.google.com/javax/xml/bind/attachment/AttachmentUnmarshaller.html#getAttachmentAsByteArray(java.lang.String))([String](http://docs.google.com/java/lang/String.html) cid)            Retrieve the attachment identified by content-id, cid, as a byte[] |
| abstract  [DataHandler](http://docs.google.com/javax/activation/DataHandler.html) | [**getAttachmentAsDataHandler**](http://docs.google.com/javax/xml/bind/attachment/AttachmentUnmarshaller.html#getAttachmentAsDataHandler(java.lang.String))([String](http://docs.google.com/java/lang/String.html) cid)            Lookup MIME content by content-id, cid, and return as a [DataHandler](http://docs.google.com/javax/activation/DataHandler.html). |
| boolean | [**isXOPPackage**](http://docs.google.com/javax/xml/bind/attachment/AttachmentUnmarshaller.html#isXOPPackage())()            Read-only property that returns true if JAXB unmarshaller needs to perform XOP processing. |

| **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** |
| --- |

### AttachmentUnmarshaller

public **AttachmentUnmarshaller**()

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

### getAttachmentAsDataHandler

public abstract [DataHandler](http://docs.google.com/javax/activation/DataHandler.html) **getAttachmentAsDataHandler**([String](http://docs.google.com/java/lang/String.html) cid)

Lookup MIME content by content-id, cid, and return as a [DataHandler](http://docs.google.com/javax/activation/DataHandler.html).

The returned DataHandler instance must be configured to meet the following required mapping constaint.

| Required Mappings between MIME and Java Types | |
| --- | --- |
| MIME Type | Java Type |
| DataHandler.getContentType() | instanceof DataHandler.getContent() |
| image/gif | java.awt.Image |
| image/jpeg | java.awt.Image |
| text/xml or application/xml | javax.xml.transform.Source |

Note that it is allowable to support additional mappings.

**Parameters:**cid - It is expected to be a valid lexical form of the XML Schema xs:anyURI datatype. If [isXOPPackage()](http://docs.google.com/javax/xml/bind/attachment/AttachmentUnmarshaller.html#isXOPPackage()) ==true, it must be a valid URI per the cid: URI scheme (see [RFC 2387](http://www.ietf.org/rfc/rfc2387.txt)) **Returns:**a [DataHandler](http://docs.google.com/javax/activation/DataHandler.html) that represents the MIME attachment. **Throws:** [IllegalArgumentException](http://docs.google.com/java/lang/IllegalArgumentException.html) - if the attachment for the given cid is not found.

### getAttachmentAsByteArray

public abstract byte[] **getAttachmentAsByteArray**([String](http://docs.google.com/java/lang/String.html) cid)

Retrieve the attachment identified by content-id, cid, as a byte[]

.

**Parameters:**cid - It is expected to be a valid lexical form of the XML Schema xs:anyURI datatype. If [isXOPPackage()](http://docs.google.com/javax/xml/bind/attachment/AttachmentUnmarshaller.html#isXOPPackage()) ==true, it must be a valid URI per the cid: URI scheme (see [RFC 2387](http://www.ietf.org/rfc/rfc2387.txt)) **Returns:**byte[] representation of attachment identified by cid. **Throws:** [IllegalArgumentException](http://docs.google.com/java/lang/IllegalArgumentException.html) - if the attachment for the given cid is not found.

### isXOPPackage

public boolean **isXOPPackage**()

Read-only property that returns true if JAXB unmarshaller needs to perform XOP processing.

This method returns true when the constraints specified in [Identifying XOP Documents](http://www.w3.org/TR/2005/REC-xop10-20050125/#identifying_xop_documents) are met. This value must not change during the unmarshalling process.

**Returns:**true when MIME context is a XOP Document.

| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/AttachmentUnmarshaller.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/javax/xml/bind/attachment/AttachmentMarshaller.html)   NEXT CLASS | [**FRAMES**](http://docs.google.com/index.html?javax/xml/bind/attachment/AttachmentUnmarshaller.html)    [**NO FRAMES**](http://docs.google.com/AttachmentUnmarshaller.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | FIELD | [CONSTR](#3znysh7) | [METHOD](#2et92p0) | DETAIL: FIELD | [CONSTR](#3dy6vkm) | [METHOD](#4d34og8) |

[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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