| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/CodecOperations.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/omg/IOP/CodecFactoryOperations.html)   [**NEXT CLASS**](http://docs.google.com/org/omg/IOP/CodeSets.html) | [**FRAMES**](http://docs.google.com/index.html?org/omg/IOP/CodecOperations.html)    [**NO FRAMES**](http://docs.google.com/CodecOperations.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | FIELD | CONSTR | [METHOD](#3znysh7) | DETAIL: FIELD | CONSTR | [METHOD](#2et92p0) |

## **org.omg.IOP**

Interface CodecOperations

**All Known Subinterfaces:** [Codec](http://docs.google.com/org/omg/IOP/Codec.html)

public interface **CodecOperations**

The formats of IOR components and service context data used by ORB services are often defined as CDR encapsulations encoding instances of IDL defined data types. The Codec provides a mechanism to transfer these components between their IDL data types and their CDR encapsulation representations.

A Codec is obtained from the CodecFactory. The CodecFactory is obtained through a call to ORB.resolve\_initial\_references( "CodecFactory" ).

| **Method Summary** | |
| --- | --- |
| [Any](http://docs.google.com/org/omg/CORBA/Any.html) | [**decode\_value**](http://docs.google.com/org/omg/IOP/CodecOperations.html#decode_value(byte%5B%5D,%20org.omg.CORBA.TypeCode))(byte[] data, [TypeCode](http://docs.google.com/org/omg/CORBA/TypeCode.html) tc)            Decodes the given byte array into an Any based on the given TypeCode and the encoding format effective for this Codec. |
| [Any](http://docs.google.com/org/omg/CORBA/Any.html) | [**decode**](http://docs.google.com/org/omg/IOP/CodecOperations.html#decode(byte%5B%5D))(byte[] data)            Decodes the given byte array into an Any based on the encoding format effective for this Codec. |
| byte[] | [**encode\_value**](http://docs.google.com/org/omg/IOP/CodecOperations.html#encode_value(org.omg.CORBA.Any))([Any](http://docs.google.com/org/omg/CORBA/Any.html) data)            Converts the given any into a byte array based on the encoding format effective for this Codec. |
| byte[] | [**encode**](http://docs.google.com/org/omg/IOP/CodecOperations.html#encode(org.omg.CORBA.Any))([Any](http://docs.google.com/org/omg/CORBA/Any.html) data)            Converts the given any into a byte array based on the encoding format effective for this Codec. |

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

### encode

byte[] **encode**([Any](http://docs.google.com/org/omg/CORBA/Any.html) data)  
 throws [InvalidTypeForEncoding](http://docs.google.com/org/omg/IOP/CodecPackage/InvalidTypeForEncoding.html)

Converts the given any into a byte array based on the encoding format effective for this Codec.

**Parameters:**data - The data, in the form of an any, to be encoded into a byte array. **Returns:**A byte array containing the encoded Any. This byte array contains both the TypeCode and the data of the type. **Throws:** InvalidTypeForEncoding - thrown if the type is not valid for the encoding format effective for this Codec.

### decode

[Any](http://docs.google.com/org/omg/CORBA/Any.html) **decode**(byte[] data)  
 throws [FormatMismatch](http://docs.google.com/org/omg/IOP/CodecPackage/FormatMismatch.html)

Decodes the given byte array into an Any based on the encoding format effective for this Codec.

**Parameters:**data - The data, in the form of a byte array, to be decoded into an Any. **Returns:**An Any containing the data from the decoded byte array. **Throws:** FormatMismatch - is thrown if the byte array cannot be decoded into an Any.

### encode\_value

byte[] **encode\_value**([Any](http://docs.google.com/org/omg/CORBA/Any.html) data)  
 throws [InvalidTypeForEncoding](http://docs.google.com/org/omg/IOP/CodecPackage/InvalidTypeForEncoding.html)

Converts the given any into a byte array based on the encoding format effective for this Codec. Only the data from the Any is encoded, not the TypeCode.

**Parameters:**data - The data, in the form of an Any, to be encoded into a byte array. **Returns:**A byte array containing the data from the encoded any. **Throws:** InvalidTypeForEncoding - thrown if the type is not valid for the encoding format effective for this Codec.

### decode\_value

[Any](http://docs.google.com/org/omg/CORBA/Any.html) **decode\_value**(byte[] data,  
 [TypeCode](http://docs.google.com/org/omg/CORBA/TypeCode.html) tc)  
 throws [FormatMismatch](http://docs.google.com/org/omg/IOP/CodecPackage/FormatMismatch.html),  
 [TypeMismatch](http://docs.google.com/org/omg/IOP/CodecPackage/TypeMismatch.html)

Decodes the given byte array into an Any based on the given TypeCode and the encoding format effective for this Codec.

**Parameters:**data - The data, in the form of a byte array, to be decoded into an Any.tc - The TypeCode to be used to decode the data. **Returns:**An Any containing the data from the decoded byte array. **Throws:** FormatMismatch - thrown if the byte array cannot be decoded into an Any. [TypeMismatch](http://docs.google.com/org/omg/IOP/CodecPackage/TypeMismatch.html)

| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/CodecOperations.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/omg/IOP/CodecFactoryOperations.html)   [**NEXT CLASS**](http://docs.google.com/org/omg/IOP/CodeSets.html) | [**FRAMES**](http://docs.google.com/index.html?org/omg/IOP/CodecOperations.html)    [**NO FRAMES**](http://docs.google.com/CodecOperations.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | FIELD | CONSTR | [METHOD](#3znysh7) | DETAIL: FIELD | CONSTR | [METHOD](#2et92p0) |

[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.

Copyright 2006 Sun Microsystems, Inc. All rights reserved. Use is subject to [license terms](http://docs.google.com/legal/license.html). Also see the [documentation redistribution policy](http://java.sun.com/docs/redist.html).