| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/XAException.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   [**NEXT CLASS**](http://docs.google.com/javax/transaction/xa/XAResource.html) | [**FRAMES**](http://docs.google.com/index.html?javax/transaction/xa/XAException.html)    [**NO FRAMES**](http://docs.google.com/XAException.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | [FIELD](#3znysh7) | [CONSTR](#2et92p0) | [METHOD](#3dy6vkm) | DETAIL: [FIELD](#4d34og8) | [CONSTR](#32hioqz) | METHOD |

## **javax.transaction.xa**

Class XAException

[java.lang.Object](http://docs.google.com/java/lang/Object.html)  
 [java.lang.Throwable](http://docs.google.com/java/lang/Throwable.html)  
 [java.lang.Exception](http://docs.google.com/java/lang/Exception.html)  
 **javax.transaction.xa.XAException**

**All Implemented Interfaces:** [Serializable](http://docs.google.com/java/io/Serializable.html)

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

The XAException is thrown by the Resource Manager (RM) to inform the Transaction Manager of an error encountered by the involved transaction.

**See Also:**[Serialized Form](http://docs.google.com/serialized-form.html#javax.transaction.xa.XAException)

| **Field Summary** | |
| --- | --- |
| int | [**errorCode**](http://docs.google.com/javax/transaction/xa/XAException.html#errorCode)            The error code with which to create the SystemException. |
| static int | [**XA\_HEURCOM**](http://docs.google.com/javax/transaction/xa/XAException.html#XA_HEURCOM)            The transaction branch has been heuristically committed. |
| static int | [**XA\_HEURHAZ**](http://docs.google.com/javax/transaction/xa/XAException.html#XA_HEURHAZ)            The transaction branch may have been heuristically completed. |
| static int | [**XA\_HEURMIX**](http://docs.google.com/javax/transaction/xa/XAException.html#XA_HEURMIX)            The transaction branch has been heuristically committed and rolled back. |
| static int | [**XA\_HEURRB**](http://docs.google.com/javax/transaction/xa/XAException.html#XA_HEURRB)            The transaction branch has been heuristically rolled back. |
| static int | [**XA\_NOMIGRATE**](http://docs.google.com/javax/transaction/xa/XAException.html#XA_NOMIGRATE)            Resumption must occur where the suspension occurred. |
| static int | [**XA\_RBBASE**](http://docs.google.com/javax/transaction/xa/XAException.html#XA_RBBASE)            The inclusive lower bound of the rollback codes. |
| static int | [**XA\_RBCOMMFAIL**](http://docs.google.com/javax/transaction/xa/XAException.html#XA_RBCOMMFAIL)            Indicates that the rollback was caused by a communication failure. |
| static int | [**XA\_RBDEADLOCK**](http://docs.google.com/javax/transaction/xa/XAException.html#XA_RBDEADLOCK)            A deadlock was detected. |
| static int | [**XA\_RBEND**](http://docs.google.com/javax/transaction/xa/XAException.html#XA_RBEND)            The inclusive upper bound of the rollback error code. |
| static int | [**XA\_RBINTEGRITY**](http://docs.google.com/javax/transaction/xa/XAException.html#XA_RBINTEGRITY)            A condition that violates the integrity of the resource was detected. |
| static int | [**XA\_RBOTHER**](http://docs.google.com/javax/transaction/xa/XAException.html#XA_RBOTHER)            The resource manager rolled back the transaction branch for a reason not on this list. |
| static int | [**XA\_RBPROTO**](http://docs.google.com/javax/transaction/xa/XAException.html#XA_RBPROTO)            A protocol error occurred in the resource manager. |
| static int | [**XA\_RBROLLBACK**](http://docs.google.com/javax/transaction/xa/XAException.html#XA_RBROLLBACK)            Indicates that the rollback was caused by an unspecified reason. |
| static int | [**XA\_RBTIMEOUT**](http://docs.google.com/javax/transaction/xa/XAException.html#XA_RBTIMEOUT)            A transaction branch took too long. |
| static int | [**XA\_RBTRANSIENT**](http://docs.google.com/javax/transaction/xa/XAException.html#XA_RBTRANSIENT)            May retry the transaction branch. |
| static int | [**XA\_RDONLY**](http://docs.google.com/javax/transaction/xa/XAException.html#XA_RDONLY)            The transaction branch was read-only and has been committed. |
| static int | [**XA\_RETRY**](http://docs.google.com/javax/transaction/xa/XAException.html#XA_RETRY)            Routine returned with no effect and may be reissued. |
| static int | [**XAER\_ASYNC**](http://docs.google.com/javax/transaction/xa/XAException.html#XAER_ASYNC)            There is an asynchronous operation already outstanding. |
| static int | [**XAER\_DUPID**](http://docs.google.com/javax/transaction/xa/XAException.html#XAER_DUPID)            The XID already exists. |
| static int | [**XAER\_INVAL**](http://docs.google.com/javax/transaction/xa/XAException.html#XAER_INVAL)            Invalid arguments were given. |
| static int | [**XAER\_NOTA**](http://docs.google.com/javax/transaction/xa/XAException.html#XAER_NOTA)            The XID is not valid. |
| static int | [**XAER\_OUTSIDE**](http://docs.google.com/javax/transaction/xa/XAException.html#XAER_OUTSIDE)            The resource manager is doing work outside a global transaction. |
| static int | [**XAER\_PROTO**](http://docs.google.com/javax/transaction/xa/XAException.html#XAER_PROTO)            Routine was invoked in an inproper context. |
| static int | [**XAER\_RMERR**](http://docs.google.com/javax/transaction/xa/XAException.html#XAER_RMERR)            A resource manager error has occurred in the transaction branch. |
| static int | [**XAER\_RMFAIL**](http://docs.google.com/javax/transaction/xa/XAException.html#XAER_RMFAIL)            Resource manager is unavailable. |

| **Constructor Summary** | |
| --- | --- |
| [**XAException**](http://docs.google.com/javax/transaction/xa/XAException.html#XAException())()            Create an XAException. |
| [**XAException**](http://docs.google.com/javax/transaction/xa/XAException.html#XAException(int))(int errcode)            Create an XAException with a given error code. |
| [**XAException**](http://docs.google.com/javax/transaction/xa/XAException.html#XAException(java.lang.String))([String](http://docs.google.com/java/lang/String.html) s)            Create an XAException with a given string. |

| **Method Summary** | |
| --- | --- |

| **Methods inherited from class java.lang.**[**Throwable**](http://docs.google.com/java/lang/Throwable.html) |
| --- |
| [fillInStackTrace](http://docs.google.com/java/lang/Throwable.html#fillInStackTrace()), [getCause](http://docs.google.com/java/lang/Throwable.html#getCause()), [getLocalizedMessage](http://docs.google.com/java/lang/Throwable.html#getLocalizedMessage()), [getMessage](http://docs.google.com/java/lang/Throwable.html#getMessage()), [getStackTrace](http://docs.google.com/java/lang/Throwable.html#getStackTrace()), [initCause](http://docs.google.com/java/lang/Throwable.html#initCause(java.lang.Throwable)), [printStackTrace](http://docs.google.com/java/lang/Throwable.html#printStackTrace()), [printStackTrace](http://docs.google.com/java/lang/Throwable.html#printStackTrace(java.io.PrintStream)), [printStackTrace](http://docs.google.com/java/lang/Throwable.html#printStackTrace(java.io.PrintWriter)), [setStackTrace](http://docs.google.com/java/lang/Throwable.html#setStackTrace(java.lang.StackTraceElement%5B%5D)), [toString](http://docs.google.com/java/lang/Throwable.html#toString()) |

| **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()), [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)) |

| **Field Detail** |
| --- |

### errorCode

public int **errorCode**

The error code with which to create the SystemException.

### XA\_RBBASE

public static final int **XA\_RBBASE**

The inclusive lower bound of the rollback codes.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#javax.transaction.xa.XAException.XA_RBBASE)

### XA\_RBROLLBACK

public static final int **XA\_RBROLLBACK**

Indicates that the rollback was caused by an unspecified reason.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#javax.transaction.xa.XAException.XA_RBROLLBACK)

### XA\_RBCOMMFAIL

public static final int **XA\_RBCOMMFAIL**

Indicates that the rollback was caused by a communication failure.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#javax.transaction.xa.XAException.XA_RBCOMMFAIL)

### XA\_RBDEADLOCK

public static final int **XA\_RBDEADLOCK**

A deadlock was detected.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#javax.transaction.xa.XAException.XA_RBDEADLOCK)

### XA\_RBINTEGRITY

public static final int **XA\_RBINTEGRITY**

A condition that violates the integrity of the resource was detected.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#javax.transaction.xa.XAException.XA_RBINTEGRITY)

### XA\_RBOTHER

public static final int **XA\_RBOTHER**

The resource manager rolled back the transaction branch for a reason not on this list.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#javax.transaction.xa.XAException.XA_RBOTHER)

### XA\_RBPROTO

public static final int **XA\_RBPROTO**

A protocol error occurred in the resource manager.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#javax.transaction.xa.XAException.XA_RBPROTO)

### XA\_RBTIMEOUT

public static final int **XA\_RBTIMEOUT**

A transaction branch took too long.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#javax.transaction.xa.XAException.XA_RBTIMEOUT)

### XA\_RBTRANSIENT

public static final int **XA\_RBTRANSIENT**

May retry the transaction branch.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#javax.transaction.xa.XAException.XA_RBTRANSIENT)

### XA\_RBEND

public static final int **XA\_RBEND**

The inclusive upper bound of the rollback error code.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#javax.transaction.xa.XAException.XA_RBEND)

### XA\_NOMIGRATE

public static final int **XA\_NOMIGRATE**

Resumption must occur where the suspension occurred.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#javax.transaction.xa.XAException.XA_NOMIGRATE)

### XA\_HEURHAZ

public static final int **XA\_HEURHAZ**

The transaction branch may have been heuristically completed.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#javax.transaction.xa.XAException.XA_HEURHAZ)

### XA\_HEURCOM

public static final int **XA\_HEURCOM**

The transaction branch has been heuristically committed.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#javax.transaction.xa.XAException.XA_HEURCOM)

### XA\_HEURRB

public static final int **XA\_HEURRB**

The transaction branch has been heuristically rolled back.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#javax.transaction.xa.XAException.XA_HEURRB)

### XA\_HEURMIX

public static final int **XA\_HEURMIX**

The transaction branch has been heuristically committed and rolled back.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#javax.transaction.xa.XAException.XA_HEURMIX)

### XA\_RETRY

public static final int **XA\_RETRY**

Routine returned with no effect and may be reissued.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#javax.transaction.xa.XAException.XA_RETRY)

### XA\_RDONLY

public static final int **XA\_RDONLY**

The transaction branch was read-only and has been committed.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#javax.transaction.xa.XAException.XA_RDONLY)

### XAER\_ASYNC

public static final int **XAER\_ASYNC**

There is an asynchronous operation already outstanding.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#javax.transaction.xa.XAException.XAER_ASYNC)

### XAER\_RMERR

public static final int **XAER\_RMERR**

A resource manager error has occurred in the transaction branch.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#javax.transaction.xa.XAException.XAER_RMERR)

### XAER\_NOTA

public static final int **XAER\_NOTA**

The XID is not valid.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#javax.transaction.xa.XAException.XAER_NOTA)

### XAER\_INVAL

public static final int **XAER\_INVAL**

Invalid arguments were given.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#javax.transaction.xa.XAException.XAER_INVAL)

### XAER\_PROTO

public static final int **XAER\_PROTO**

Routine was invoked in an inproper context.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#javax.transaction.xa.XAException.XAER_PROTO)

### XAER\_RMFAIL

public static final int **XAER\_RMFAIL**

Resource manager is unavailable.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#javax.transaction.xa.XAException.XAER_RMFAIL)

### XAER\_DUPID

public static final int **XAER\_DUPID**

The XID already exists.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#javax.transaction.xa.XAException.XAER_DUPID)

### XAER\_OUTSIDE

public static final int **XAER\_OUTSIDE**

The resource manager is doing work outside a global transaction.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#javax.transaction.xa.XAException.XAER_OUTSIDE)

| **Constructor Detail** |
| --- |

### XAException

public **XAException**()

Create an XAException.

### XAException

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

Create an XAException with a given string.

**Parameters:**s - The String object containing the exception message.

### XAException

public **XAException**(int errcode)

Create an XAException with a given error code.

**Parameters:**errcode - The error code identifying the exception.

| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/XAException.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   [**NEXT CLASS**](http://docs.google.com/javax/transaction/xa/XAResource.html) | [**FRAMES**](http://docs.google.com/index.html?javax/transaction/xa/XAException.html)    [**NO FRAMES**](http://docs.google.com/XAException.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | [FIELD](#3znysh7) | [CONSTR](#2et92p0) | [METHOD](#3dy6vkm) | DETAIL: [FIELD](#4d34og8) | [CONSTR](#32hioqz) | METHOD |

[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).