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

## **org.omg.PortableInterceptor**

Interface RequestInfoOperations

**All Known Subinterfaces:** [ClientRequestInfo](http://docs.google.com/org/omg/PortableInterceptor/ClientRequestInfo.html), [ClientRequestInfoOperations](http://docs.google.com/org/omg/PortableInterceptor/ClientRequestInfoOperations.html), [RequestInfo](http://docs.google.com/org/omg/PortableInterceptor/RequestInfo.html), [ServerRequestInfo](http://docs.google.com/org/omg/PortableInterceptor/ServerRequestInfo.html), [ServerRequestInfoOperations](http://docs.google.com/org/omg/PortableInterceptor/ServerRequestInfoOperations.html)

public interface **RequestInfoOperations**

Request Information, accessible to Interceptors.

Each interception point is given an object through which the Interceptor can access request information. Client-side and server-side interception points are concerned with different information, so there are two information objects: ClientRequestInfo is passed to the client-side interception points and ServerRequestInfo is passed to the server-side interception points. But there is information that is common to both, so they both inherit from a common interface: RequestInfo.

**See Also:**[ClientRequestInfo](http://docs.google.com/org/omg/PortableInterceptor/ClientRequestInfo.html), [ServerRequestInfo](http://docs.google.com/org/omg/PortableInterceptor/ServerRequestInfo.html)

| **Method Summary** | |
| --- | --- |
| [Parameter](http://docs.google.com/org/omg/Dynamic/Parameter.html)[] | [**arguments**](http://docs.google.com/org/omg/PortableInterceptor/RequestInfoOperations.html#arguments())()            Returns an array of Parameter objects, containing the arguments on the operation being invoked. |
| [String](http://docs.google.com/java/lang/String.html)[] | [**contexts**](http://docs.google.com/org/omg/PortableInterceptor/RequestInfoOperations.html#contexts())()            Returns an array of String objects describing the contexts that may be passed on this operation invocation. |
| [TypeCode](http://docs.google.com/org/omg/CORBA/TypeCode.html)[] | [**exceptions**](http://docs.google.com/org/omg/PortableInterceptor/RequestInfoOperations.html#exceptions())()            Returns an array of TypeCode objects describing the TypeCodes of the user exceptions that this operation invocation may throw. |
| [Object](http://docs.google.com/org/omg/CORBA/Object.html) | [**forward\_reference**](http://docs.google.com/org/omg/PortableInterceptor/RequestInfoOperations.html#forward_reference())()            Contains the object to which the request will be forwarded, if the reply\_status attribute is LOCATION\_FORWARD. |
| [ServiceContext](http://docs.google.com/org/omg/IOP/ServiceContext.html) | [**get\_reply\_service\_context**](http://docs.google.com/org/omg/PortableInterceptor/RequestInfoOperations.html#get_reply_service_context(int))(int id)            Returns a copy of the service context with the given ID that is associated with the reply. |
| [ServiceContext](http://docs.google.com/org/omg/IOP/ServiceContext.html) | [**get\_request\_service\_context**](http://docs.google.com/org/omg/PortableInterceptor/RequestInfoOperations.html#get_request_service_context(int))(int id)            Returns a copy of the service context with the given ID that is associated with the request. |
| [Any](http://docs.google.com/org/omg/CORBA/Any.html) | [**get\_slot**](http://docs.google.com/org/omg/PortableInterceptor/RequestInfoOperations.html#get_slot(int))(int id)            Returns the data from the given slot of the PortableInterceptor.Current that is in the scope of the request. |
| [String](http://docs.google.com/java/lang/String.html)[] | [**operation\_context**](http://docs.google.com/org/omg/PortableInterceptor/RequestInfoOperations.html#operation_context())()            Returns an array of String objects containing the contexts being sent on the request. |
| [String](http://docs.google.com/java/lang/String.html) | [**operation**](http://docs.google.com/org/omg/PortableInterceptor/RequestInfoOperations.html#operation())()            Returns the name of the operation being invoked. |
| short | [**reply\_status**](http://docs.google.com/org/omg/PortableInterceptor/RequestInfoOperations.html#reply_status())()            Describes the state of the result of the operation invocation. |
| int | [**request\_id**](http://docs.google.com/org/omg/PortableInterceptor/RequestInfoOperations.html#request_id())()            Returns an id that uniquely identifies an active request/reply sequence. |
| boolean | [**response\_expected**](http://docs.google.com/org/omg/PortableInterceptor/RequestInfoOperations.html#response_expected())()            Indicates whether a response is expected. |
| [Any](http://docs.google.com/org/omg/CORBA/Any.html) | [**result**](http://docs.google.com/org/omg/PortableInterceptor/RequestInfoOperations.html#result())()            Returns an any containing the result of the operation invocation. |
| short | [**sync\_scope**](http://docs.google.com/org/omg/PortableInterceptor/RequestInfoOperations.html#sync_scope())()            Defines how far the request shall progress before control is returned to the client. |

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

### request\_id

int **request\_id**()

Returns an id that uniquely identifies an active request/reply sequence. Once a request/reply sequence is concluded this ID may be reused. Note that this id is not the same as the GIOP request\_id. If GIOP is the transport mechanism used, then these IDs may very well be the same, but this is not guaranteed nor required.

### operation

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

Returns the name of the operation being invoked.

### arguments

[Parameter](http://docs.google.com/org/omg/Dynamic/Parameter.html)[] **arguments**()

Returns an array of Parameter objects, containing the arguments on the operation being invoked. If there are no arguments, this attribute will be a zero length array.

Not all environments provide access to the arguments. With the Java portable bindings, for example, the arguments are not available. In these environments, when this attribute is accessed, NO\_RESOURCES will be thrown with a standard minor code of 1.

*Note: Arguments are available for DSI/DII calls.*

**Throws:** NO\_RESOURCES - thrown if arguments are not available.**See Also:** [PortableInterceptor package comments for limitations / unimplemented features](http://docs.google.com/package-summary.html#unimpl)

### exceptions

[TypeCode](http://docs.google.com/org/omg/CORBA/TypeCode.html)[] **exceptions**()

Returns an array of TypeCode objects describing the TypeCodes of the user exceptions that this operation invocation may throw. If there are no user exceptions, this will return a zero length array.

Not all environments provide access to the exception list. With the Java portable bindings, for example, the exception list is not available. In these environments, when this attribute is accessed, NO\_RESOURCES will be thrown with a standard minor code of 1.

*Note: Exceptions are available for DSI/DII calls.*

**Throws:** NO\_RESOURCES - thrown if exceptions are not available.**See Also:** [PortableInterceptor package comments for limitations / unimplemented features](http://docs.google.com/package-summary.html#unimpl)

### contexts

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

Returns an array of String objects describing the contexts that may be passed on this operation invocation. If there are no contexts, this will return a zero length array.

Not all environments provide access to the context list. With the Java portable bindings, for example, the context list is not available. In these environments, when this attribute is accessed, NO\_RESOURCES will be thrown with a standard minor code of 1.

*Note: Contexts are available for DSI/DII calls.*

**Throws:** NO\_RESOURCES - thrown if contexts are not available.**See Also:** [PortableInterceptor package comments for limitations / unimplemented features](http://docs.google.com/package-summary.html#unimpl)

### operation\_context

[String](http://docs.google.com/java/lang/String.html)[] **operation\_context**()

Returns an array of String objects containing the contexts being sent on the request.

Not all environments provide access to the context. With the Java portable bindings, for example, the context is not available. In these environments, when this attribute is accessed, NO\_RESOURCES will be thrown with standard minor code of 1.

*Note: operation\_context is available for DSI/DII calls.*

**Throws:** NO\_RESOURCES - thrown if operation context is not available.**See Also:** [PortableInterceptor package comments for limitations / unimplemented features](http://docs.google.com/package-summary.html#unimpl)

### result

[Any](http://docs.google.com/org/omg/CORBA/Any.html) **result**()

Returns an any containing the result of the operation invocation. If the operation return type is void, this attribute will be an any containing a type code with a TCKind value of tk\_void and no value.

Not all environments provide access to the result. With the Java portable bindings, for example, the result is not available. In these environments, when this attribute is accessed, NO\_RESOURCES will be thrown with a standard minor code of 1.

*Note: Result is available for DSI/DII calls.*

**Throws:** NO\_RESOURCES - thrown if result is not available.**See Also:** [PortableInterceptor package comments for limitations / unimplemented features](http://docs.google.com/package-summary.html#unimpl)

### response\_expected

boolean **response\_expected**()

Indicates whether a response is expected.

On the client, a reply is not returned when response\_expected is false, so receive\_reply cannot be called. receive\_other is called unless an exception occurs, in which case receive\_exception is called.

On the client, within send\_poll, this attribute is true.

### sync\_scope

short **sync\_scope**()

Defines how far the request shall progress before control is returned to the client. This is defined in the Messaging specification, and is pertinent only when response\_expected is false. If response\_expected is true, the value of sync\_scope is undefined. This attribute may have one of the following values:

* Messaging.SYNC\_NONE
* Messaging.SYNC\_WITH\_TRANSPORT
* Messaging.SYNC\_WITH\_SERVER
* Messaging.SYNC\_WITH\_TARGET

On the server, for all scopes, a reply will be created from the return of the target operation call, but the reply will not return to the client. Although it does not return to the client, it does occur, so the normal server-side interception points are followed (i.e., receive\_request\_service\_contexts, receive\_request, send\_reply or send\_exception).

For SYNC\_WITH\_SERVER and SYNC\_WITH\_TARGET, the server does send an empty reply back to the client before the target is invoked. This reply is not intercepted by server-side Interceptors.

**See Also:** [PortableInterceptor package comments for limitations / unimplemented features](http://docs.google.com/package-summary.html#unimpl)

### reply\_status

short **reply\_status**()

Describes the state of the result of the operation invocation. The return value can be one of the following:

* PortableInterceptor.SUCCESSFUL
* PortableInterceptor.SYSTEM\_EXCEPTION
* PortableInterceptor.USER\_EXCEPTION
* PortableInterceptor.LOCATION\_FORWARD
* PortableInterceptor.TRANSPORT\_RETRY

On the client:

* Within the receive\_reply interception point, this will only return SUCCESSFUL

.

* Within the receive\_exception interception point, this will be either SYSTEM\_EXCEPTION or USER\_EXCEPTION.
* Within the receive\_other interception point, this will be any of: SUCCESSFUL, LOCATION\_FORWARD, or TRANSPORT\_RETRY. SUCCESSFUL means an asynchronous request returned successfully. LOCATION\_FORWARD means that a reply came back with LOCATION\_FORWARD as its status. TRANSPORT\_RETRY means that the transport mechanism indicated a retry - a GIOP reply with a status of NEEDS\_ADDRESSING\_MODE, for instance.

On the server:

* Within the send\_reply interception point, this will only be SUCCESSFUL.
* Within the send\_exception interception point, this will be either SYSTEM\_EXCEPTION or USER\_EXCEPTION.
* Within the send\_other interception point, this attribute will be any of: SUCCESSFUL, or LOCATION\_FORWARD. SUCCESSFUL means an asynchronous request returned successfully. LOCATION\_FORWARD means that a reply came back with LOCATION\_FORWARD as its status.

**See Also:**[SUCCESSFUL](http://docs.google.com/org/omg/PortableInterceptor/SUCCESSFUL.html), [SYSTEM\_EXCEPTION](http://docs.google.com/org/omg/PortableInterceptor/SYSTEM_EXCEPTION.html), [USER\_EXCEPTION](http://docs.google.com/org/omg/PortableInterceptor/USER_EXCEPTION.html), [LOCATION\_FORWARD](http://docs.google.com/org/omg/PortableInterceptor/LOCATION_FORWARD.html), [TRANSPORT\_RETRY](http://docs.google.com/org/omg/PortableInterceptor/TRANSPORT_RETRY.html)

### forward\_reference

[Object](http://docs.google.com/org/omg/CORBA/Object.html) **forward\_reference**()

Contains the object to which the request will be forwarded, if the reply\_status attribute is LOCATION\_FORWARD. It is indeterminate whether a forwarded request will actually occur.

### get\_slot

[Any](http://docs.google.com/org/omg/CORBA/Any.html) **get\_slot**(int id)  
 throws [InvalidSlot](http://docs.google.com/org/omg/PortableInterceptor/InvalidSlot.html)

Returns the data from the given slot of the PortableInterceptor.Current that is in the scope of the request.

If the given slot has not been set, then an any containing a type code with a TCKind value of tk\_null is returned.

**Parameters:**id - The SlotId of the slot which is to be returned. **Returns:**The slot data, in the form of an any, obtained with the given identifier. **Throws:** [InvalidSlot](http://docs.google.com/org/omg/PortableInterceptor/InvalidSlot.html) - thrown if the ID does not define an allocated slot.**See Also:**[Current](http://docs.google.com/org/omg/PortableInterceptor/Current.html)

### get\_request\_service\_context

[ServiceContext](http://docs.google.com/org/omg/IOP/ServiceContext.html) **get\_request\_service\_context**(int id)

Returns a copy of the service context with the given ID that is associated with the request.

**Parameters:**id - The IOP.ServiceId of the service context which is to be returned. **Returns:**The IOP.ServiceContext obtained with the given identifier. **Throws:** BAD\_PARAM - thrown with a standard minor code of 26, if the request's service context does not contain an entry for that ID.

### get\_reply\_service\_context

[ServiceContext](http://docs.google.com/org/omg/IOP/ServiceContext.html) **get\_reply\_service\_context**(int id)

Returns a copy of the service context with the given ID that is associated with the reply.

**Parameters:**id - The IOP.ServiceId of the service context which is to be returned. **Returns:**The IOP.ServiceContext obtained with the given identifier. **Throws:** BAD\_PARAM - thrown with a standard minor code of 26 if the request's service context does not contain an entry for that ID.

| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/RequestInfoOperations.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/PortableInterceptor/RequestInfo.html)   [**NEXT CLASS**](http://docs.google.com/org/omg/PortableInterceptor/ServerIdHelper.html) | [**FRAMES**](http://docs.google.com/index.html?org/omg/PortableInterceptor/RequestInfoOperations.html)    [**NO FRAMES**](http://docs.google.com/RequestInfoOperations.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.

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