

Ice-ServantLocator

Ice::ServantLocator

Overview

local interface ServantLocator

A servant locator is called by an object adapter to locate a servant that is not found in its active servant map.

Derived Classes and Interfaces

- [Freeze::Evictor](#)

Used By

- [Ice::ObjectAdapter::addServantLocator](#)
- [Ice::ObjectAdapter::findServantLocator](#)
- [Ice::ObjectAdapter::removeServantLocator](#)

See Also

- [Ice::ObjectAdapter](#)
- [Ice::ObjectAdapter::addServantLocator](#)
- [Ice::ObjectAdapter::findServantLocator](#)

Operation Index

[locate](#) — Called before a request is dispatched if a servant cannot be found in the object adapter's active servant map.

[finished](#) — Called by the object adapter after a request has been made.

[deactivate](#) — Called when the object adapter in which this servant locator is installed is deactivated.

Operations

Object locate([Ice::Current](#) curr, out LocalObject cookie)

Called before a request is dispatched if a servant cannot be found in the object adapter's active servant map. Note that the object adapter does not automatically insert the returned servant into its active servant map. This must be done by the servant locator implementation, if this is desired. [locate](#) can throw any user exception. If it does, that exception is marshaled back to the client. If the Slice definition for the corresponding operation includes that user exception, the client receives that user exception; otherwise, the client receives [Ice::UnknownUserException](#). If [locate](#) throws any exception, the Ice run time does *not* call [finished](#).

If you call [locate](#) from your own code, you must also call [finished](#) when you have finished using the servant, provided that [locate](#) returned a non-null servant; otherwise, you will get undefined behavior if you use servant locators such as the [Freeze::Evictor](#).

Parameters

`curr` — Information about the current operation for which a servant is required.

`cookie` — A "cookie" that will be passed to [finished](#).

Return Value

The located servant, or null if no suitable servant has been found.

See Also

- [Ice::ObjectAdapter](#)
- [Ice::Current](#)
- [finished](#)

void finished([Ice::Current](#) curr, Object servant, LocalObject cookie)

Called by the object adapter after a request has been made. This operation is only called if [locate](#) was called prior to the request and returned a non-null servant. This operation can be used for cleanup purposes after a request. [finished](#) can throw any user exception. If it does, that exception is marshaled back to the client. If the Slice definition for the corresponding operation includes that user exception, the client receives that user exception; otherwise, the client receives [Ice::UnknownUserException](#). If both the operation and [finished](#) throw an exception, the exception thrown by [finished](#) is marshaled back to the client.

Parameters

`curr` — Information about the current operation call for which a servant was located by [locate](#).
`servant` — The servant that was returned by [locate](#).
`cookie` — The cookie that was returned by [locate](#).

See Also

- [Ice::ObjectAdapter](#)
- [Ice::Current](#)
- [locate](#)

void deactivate(string category)

Called when the object adapter in which this servant locator is installed is deactivated.

Parameters

`category` — Indicates for which category the servant locator is being deactivated.

See Also

- [Ice::ObjectAdapter::deactivate](#)
 - [Ice::Communicator::shutdown](#)
 - [Ice::Communicator::destroy](#)
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