

Q: How does a server that registers like:

```
[NXConnection registerRoot:self withName: "myname"];
```

get notification of a client that has disconnected? The delegate method **connection:didConnect:** indicates when the client connects, but not when it disconnects. Specifically, I want the server to know when a client application has been killed or crashed.

A: In order to receive invalidation notification you must select the object that is to be notified and register it for invalidation notification. This object then must conform to the **NXSenderIsInvalid** protocol. For example, one of your server objects (probably the one that called **registerRoot:withName:**) should conform to the **NXSenderIsInvalid** protocol. The method you need to implement to conform to this protocol is: **-senderIsInvalid:**. When the client connection dies, **senderIsInvalid:** will be called passing that connection.

You will also need to call **worryAboutPortInvalidation** (NXPort class method) which spawns a thread that listens for a Port death and will message **senderIsInvalid:**. The code would look something like:

```
NXConnection *primary = [NXConnection registerRoot: rootObj  withName: "foo"];
[primary setDelegate:self];
[NXPort worryAboutPortInvalidation];
[primary run];
```

Finally, in your **connection:didConnect:** delegate method you should call **registerForInvalidationNotification:**. You should register on the second connection passed to this method.

**Note:** The above information assumes a non-AppKit program. If you are using the AppKit, this notification mechanism is already in place. Another important distinction is that in the AppKit case,

there is not a separate thread, so there is less worrying that needs to be done about multi-threaded access.

**See also:** The introduction to Distributed Objects which is online in:  
GeneralRef/06\_DistributedObjects/IntroDistObjects.rtf and the Distributed Objects release notes.

QA877

Valid for 3.0