

# SYSRPC - Server Command Execution - RPC 5.1

## Only applicable to Natural RPC Version 5.1.

The SYSRPC utility provides the server execution commands Ping and Terminate. They are used to control active servers that have been defined in the Service Directory. The Ping command sends an internal message to verify a server connection. Terminate sends an internal message to terminate a server.

In addition, when the Ping or Terminate command is issued, the Message Display window that appears displays:

- Physical node and server names defined for a logical service, or
- Physical node names defined for logical nodes.

Below is information on:

- Message Display Window
  - Pinging a Server
  - Terminating a Server
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## Message Display Window

The Ping and Terminate commands invoke the Message Display window. The Message Display window provides the columns Message, Node and Server to display the message returned from the server and the physical names of the node or server selected (see the instructions below).

Physical names are also displayed for logical specifications: a logical node name is resolved into the physical node name and a logical service is resolved into the physical node and server name as defined in the service directory.

However, logical specifications will **not** be resolved if the following applies:

- Logical service:  
The pinged or terminated logical service is not active, or the physical node(s) and server(s) defined for the logical service have not been defined in the Location Transparency directory of the EntireX Broker.  
In this case, the Message Display window display a corresponding message from the server, the term \*LOCTRAN in the Node column and the logical service name (as defined in the service directory) in the Server column.
- Logical node:  
The pinged or terminated logical node is not active, or the physical node defined for the logical node has not been defined in the Location Transparency directory of the EntireX Broker.  
In this case, the Message Display window displays a corresponding message from the server and the entry LOGBROKER=*node-name* (as defined in the service directory) in the Node column.

## Pinging a Server

### To ping a server

- In the Service Directory tree, right-click the name of a Server or a Node and choose Ping.  
Or choose CTRL+F9.  
Or click the following toolbar button:



Clicking an EntireX Broker node will ping all servers that belong to this node. The Message Display window appears displaying the physical names of the node(s) and server(s) and the message returned from the server(s).

If the pinged server(s) is active, the server(s) returns the message: "*Server V.R.S.PL on operating system*", where

*Server* denotes the type of server;  
*V.R.S.PL* is the 1-digit version, *R* the 1-digit release, *S* the 1-digit system maintenance level and *PL* the 1- or 2-digit patch level of the server;  
*operating system* denotes on which operating system the server runs.

Example message: Natural RPC Server 5.1.1.0 on WNT-x86.

## Terminating a Server

### To terminate a server

- In the Service Directory tree, right-click a Server node and choose Terminate.

Or click the following toolbar button:



The Message Display window appears displaying the names of the node, server(s) and the message returned from the server(s).

If a server is terminated, the server(s) returns the message "*Terminating Server V.R.S.PL on operating system*", where

*Server* denotes the type of server;  
*V.R.S.PL* is the 1-digit version, *R* the 1-digit release, *S* the 1-digit system maintenance level and *PL* the 1- or 2-digit patch level of the server;  
*operating system* denotes on which operating system the server runs.

Example message: Terminating Natural RPC Server 5.1.1.0 on WNT-x86.

If the LOGON option has been set for a server or a node, logon data (user ID, password and library name) are sent to the server with the Terminal command, as is usual for the CALLNAT. The Security Token Data window pops up to request user ID and password if no Natural Security is installed on the client side and no logon data are set with the USR1071P user exit for the current Natural session.

If LOGONRQ=ON (see also Using Natural RPC with Natural Security in the Natural RPC documentation) has been set on the server side, logon data must be sent from the client with the Terminate command.

If Natural Security is installed on the server, the logon data transferred must enable a logon to the library SYSRPC.

## Terminating a Server with Replicates

When you are running a server with replicates you must terminate each replicate separately using the Terminate command as described above.

Alternatively, the server can be terminated with the EntireX Broker Control Center or the EntireX System Management Hub.