

# SYSRPC - Server Command Execution

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.

This section covers the following topics:

- Invoking Server Command Execution
- Pinging a Server
- Terminating a Server

## Invoking Server Command Execution

### To invoke Server Command Execution

- In the Code field of the Client Maintenance screen, enter **XC**.  
The default view of the Server Command Execution screen appears and displays the current definitions as shown in Example 1:

#### Example 1 - Default View

14:09:38	*** NATURAL Remote Procedure Call ***	2002-06-12
	Server Command Execution	SYSRPC
	Node	Server
1	ETB045	Message
2		NRPC001
3		NRPC002
4	*LOCTRAN	
5		NRPC001-LOGICAL
6	LOGBROKER=NODE	
7		NRPC002
<hr/> Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12--- Help ERR Exit < -H +H -P +P TOP BOT> Canc		

The Server Command Execution screen provides two views:

- The default view which displays the columns Node, Server and Message. The fields under the column Message are truncated and display a maximum of 8 characters.
- The extended view of the fields under the column Message which provide a maximum of 50 characters to display more of the message text. The extended view does not display the column Node and the fields under the column Server are truncated and display a maximum of 16 characters (default view shows 30 characters).
- To activate the extended view of the Server Command Execution screen:
  - Choose PF4.
  - Or, in the command line, enter the less than (<) sign.

A screen is displayed similar to Example 2:

**Example 2 - Extended Message View**

```

14:14:08          *** NATURAL Remote Procedure Call ***          2002-06-12
                   Server Command Execution                       SYSRPC

      Server      Message
1
2      NRPC001      Natural RPC Server 5.1.1.0 on WNT-x86
3      NRPC002
4
5      NRPC001-LOGICAL
6
7      NRPC002

-----
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help  ERR  Exit  <   -H   +H   -P   +P   TOP  BOT>   Canc
    
```

- To switch back to the default view of the Server Command Execution screen:
  - Choose PF11.
  - Or, in the command line, enter the greater than (>) sign.

## Pinging a Server

You can ping a server from the default or extended view of the Server Command Execution screen. The example instruction below shows how to ping a server from the default view.

 **To ping a server**

- In the Code field of the Client Maintenance screen, enter **XC**.  
The default view of the Server Command Execution screen is displayed.
- In the empty column between the sequence number and the column Node, in the line(s) which belong to the server(s) to be pinged, enter the command **PI** as shown in Example 3:

**Example 3 - Pinging a Server**

```

09:49:41          *** NATURAL Remote Procedure Call ***          2002-06-13
                   Server Command Execution                       SYSRPC

      Node      Server      Message
1      ETB045
2      pi      NRPC001
3      NRPC002
4      *LOCTRAN
5      pi      NRPC001-LOGICAL
6      LOGBROKER=NODE
7      NRPC002
    
```

- Choose ENTER.  
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.

- To display more of the message text which appears truncated on the default view of the Server Command Execution screen:
  - Choose PF4.
  - Or, in the command line, enter the less than (<) sign.

## Terminating a Server

You can terminate a server from the default or extended view of the Server Command Execution screen. Below is an example of how to terminate a server from the default view.

### To terminate a server

1. In the Code field of the Client Maintenance screen, enter **XC**.  
The default view of the Server Command Execution screen is displayed.
2. In the empty column between sequence number and column Node, in the line(s) which belongs to the server(s) to be terminated, enter the command **TE**; this is similar to entering the command **PI** as show in Example 3 above.
3. Choose ENTER.

The server 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.

4. To display more of the message text which appears truncated on the default view of the Server Command Execution screen:
  - Choose PF4.
  - Or, in the command line, enter the less than (<) sign.

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 TE terminate 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 TE 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 TE or Terminate command as described above.

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