

IBM Sterling Connect:Direct Browser User Interface

System Administration Guide

Version 1.5



This edition applies to the 1.5 Version of IBM® Sterling Connect:Direct® Browser User Interface and to all subsequent releases and modifications until otherwise indicated in new editions.

Before using this information and the product it supports, read the information in *Notices*, on page 87.

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IBM® Sterling Connect:Direct® Browser User Interface

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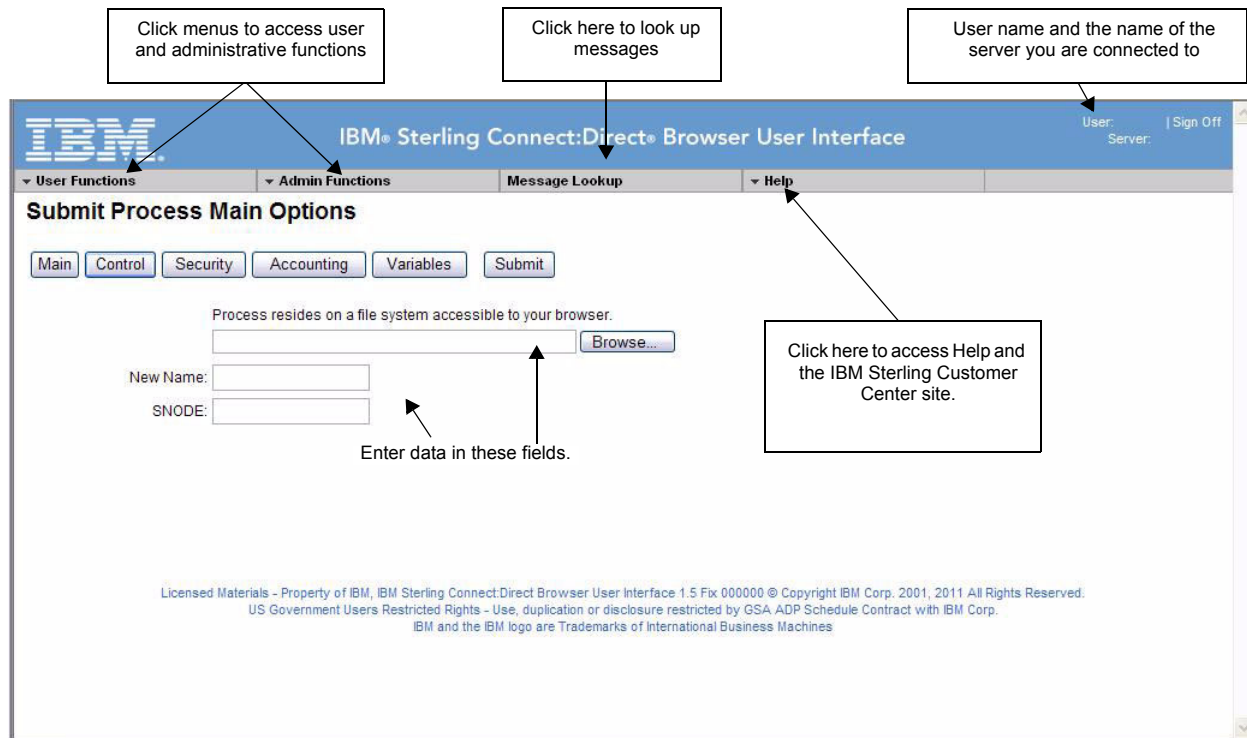
About Sterling Connect:Direct Browser User Interface

The IBM® Sterling Connect:Direct® Browser User Interface allows you to create, submit, and monitor Sterling Connect:Direct Processes from an Internet browser.

You can also perform Sterling Connect:Direct system administration tasks, such as viewing and changing the network map or initialization parameters, from the Sterling Connect:Direct Browser User Interface if you have the appropriate authority. The specific administration tasks that you can perform depend on the Sterling Connect:Direct platform that your browser is signed on to, in addition to your security level.

Sterling Connect:Direct Browser User Interface Functions

The Sterling Connect:Direct Browser User Interface uses standard browser functionality to create, submit, and monitor Processes and perform system administration. The following sample Submit Process page shows the layout of a typical Sterling Connect:Direct Browser User Interface page.



When you sign on to the Sterling Connect:Direct Browser User Interface, functions are available in the menus at the top of the screen. The functions available vary according to the following criteria:

- ◆ The Sterling Connect:Direct authority for the user ID that you signed on with. For example, if the user ID does not have authority to submit Processes, the **Submit Process** function is not displayed.
- ◆ The Sterling Connect:Direct platform and release you are signed on to. For example, IBM® Sterling Connect:Direct® for z/OS® administrators cannot update user proxies.
- ◆ Whether you are signed on. Most functions are not displayed until you sign on.

Clicking **User Functions** displays the following user functions. This table also shows the applicable platforms for each function

Function	Description	Sterling Connect:Direct for z/OS	Sterling Connect:Direct for Microsoft Windows	Sterling Connect:Direct for UNIX	Sterling Connect:Direct for HP NonStop
Submit Process	Submits a predefined Process. You can specify various processing options, such as start date and start time, processing priority, security and accounting information, and variables.	X	X	X	X
Copy File	Builds and submits a Process to transmit a file from one Sterling Connect:Direct node to another. You can then save the Process for future use.	X	X	X	X
Process Builder	A graphical interface that you use to build new Processes or modify existing ones.	X Release 4.4.00	X Release 4.2.00	X Release 3.6.00	X Release 3.4.00
Select Process	Shows summary and detail status for one or more Processes. You can also change, delete, or suspend a Process from this function.	X	X	X	X
Select Statistics	Shows summary and detail Process statistical information.	X	X	X	X
Process Control	Enables you to change Process parameters, suspend Processes, or delete Processes.	X	X	X	X

Clicking **Admin Functions** displays the following system administration functions. This table also shows the applicable platforms for each function.

Function	Description	Sterling Connect:Direct for z/OS	Sterling Connect:Direct for Microsoft Windows	Sterling Connect:Direct for UNIX	Sterling Connect:Direct for HP NonStop
Netmap	Displays network map (Netmap) information.	X Release 4.3.00 (with maintenance) or later	X	X Release 3.5.00 or later only	X
	Adds, changes, or deletes network map information.	X Release 4.3.00 (with maintenance) or later	X	X Release 3.5.00 or later only	X
	Adds, changes, or deletes communications modes.		X		X
	Adds, changes, or deletes communications path information.		X		X
Initparm	Displays initialization parameters.	X Release 4.3.00 (with maintenance) or later	X	X Release 3.5.00 or later only	X
	Updates initialization parameters.		X	X Release 3.5.00 or later only	
Native Command	Issues Sterling Connect:Direct commands.	X Release 4.3.00 (with maintenance) or later			X
User Auth	Displays, adds, changes, or deletes user authorities.	X Release 4.3.00 (with maintenance) or later	X	X Release 3.6.00 or later only	X
Proxy	Displays, adds, changes, or deletes user proxies.		X	X Release 3.6.00 or later only	X
Tracing	Displays and updates Sterling Connect:Direct tracing parameters.	X Release 4.3.00 (with maintenance) or later	X	X	

Function	Description	Sterling Connect:Direct for z/OS	Sterling Connect:Direct for Microsoft Windows	Sterling Connect:Direct for UNIX	Sterling Connect:Direct for HP NonStop
Trans. Table	Displays, adds, and changes a Sterling Connect:Direct translation table.		X		
Typekey	Defines file attributes for new files on Sterling Connect:Direct for HP NonStop systems. These attributes are used when you specify a particular typekey as part of a COPY statement in a Process.				X
Configuration	Configures the Sterling Connect:Direct Browser User Interface. Access to this function is restricted by user ID and password.	X	X	X	X

Clicking **Message Lookup** functions. This table also shows the applicable platforms for each function.

Function	Description	Sterling Connect:Direct for z/OS	Sterling Connect:Direct for Microsoft Windows	Sterling Connect:Direct for UNIX	Sterling Connect:Direct for HP NonStop
Select Message	Displays the short and long message text for a specified message ID.	X	X	X	X

Clicking **Help** displays the following system administration functions. This table also shows the applicable platforms for each function.

Function	Description	Sterling Connect:Direct for z/OS	Sterling Connect:Direct for Microsoft Windows	Sterling Connect:Direct for UNIX	Sterling Connect:Direct for HP NonStop
Help Topics	Displays Sterling Connect:Direct Browser User Interface Help.	X	X	X	X

International Language Support

Sterling Connect:Direct Browser User Interface is distributed with English language displays, messages, and Help. The *IBM Sterling Connect:Direct Browser User Interface Configuration Guide* describes how to add support for additional languages.

About Processes

A Sterling Connect:Direct Process is a series of statements that allows you to transfer files, run programs, and submit jobs or other Processes.

Processes contain parameters that control Process attributes such as Process name, Process execution start time, user notification, security, and accounting data. These Process parameters can be specified within the actual Process or you can specify them when you submit the Process. Any parameters you provide when you submit a Process override the parameters coded in the Process.

You can submit a Process to any Sterling Connect:Direct node. Typically, the primary node (PNODE) is where the Process resides. The secondary node (SNODE) is the other node that the Process connects to. The two nodes work together to execute the Process.

You can use a Sterling Connect:Direct Process to:

- ◆ Exchange text or binary files with other Sterling Connect:Direct nodes using the COPY statement.
- ◆ Start executables or send jobs to queues on a z/OS, OpenVMS, i5/OS, HP NonStop, Microsoft Windows, or UNIX server using the RUN JOB or RUN TASK statements coded within a Process.
- ◆ Execute Microsoft Windows or UNIX commands as if they were entered on the system console by using the RUN TASK statement coded within a Process.
- ◆ Submit a Process to another Sterling Connect:Direct node.

See the *IBM Sterling Connect:Direct Process Statements Guide* for Process examples.

User Security and the Sterling Connect:Direct Browser User Interface

The Sterling Connect:Direct Browser User Interface user signs on using a Sterling Connect:Direct ID and password. This ID and password is passed to the Sterling Connect:Direct server, which identifies what tasks the user is allowed to perform on the server.

For example, if Sterling Connect:Direct for z/OS security does not permit a user to perform a SELECT STATISTICS task in Sterling Connect:Direct for z/OS, that user cannot perform this task through the Sterling Connect:Direct Browser User Interface. The Sterling Connect:Direct security must be modified to give the user the necessary permissions.

For more information about Sterling Connect:Direct user security, see the documentation for the appropriate Sterling Connect:Direct platform.

There is an administrative user ID and password that you use to configure the Sterling Connect:Direct Browser User Interface. This user ID and password is part of the Sterling Connect:Direct Browser User Interface and are separate from any security associated with a Sterling Connect:Direct server.

Task Overview

The following table directs you to the information to perform the Sterling Connect:Direct Browser User Interface tasks documented in this guide:

Task	For More Information, See
Signing on to Sterling Connect:Direct Browser User Interface	Chapter 2, <i>Starting Sterling Connect:Direct Browser User Interface</i>
Viewing and updating a Sterling Connect:Direct Network Map	Chapter 3, <i>Viewing and Updating the Network Map</i>
Viewing and changing Sterling Connect:Direct initialization parameters	Chapter 4, <i>Viewing and Changing Initialization Parameters</i>
Viewing and updating Sterling Connect:Direct user authorities	Chapter 5, <i>Viewing and Updating User Authorities</i>
Viewing and updating Sterling Connect:Direct user proxies	Chapter 6, <i>Viewing and Updating User Proxies</i>

Task	For More Information, See
Issuing native Sterling Connect:Direct for z/OS commands	Chapter 7, <i>Issuing Native Commands</i>
Viewing and Updating Typekeys	Chapter 8, <i>Viewing and Updating Typekeys</i>
Running Sterling Connect:Direct traces	Chapter 9, <i>Running Traces</i>
Modifying Sterling Connect:Direct translation tables	Chapter 10, <i>Modifying Translation Tables</i>

Starting Sterling Connect:Direct Browser User Interface

Before the Sterling Connect:Direct Browser User Interface can be opened in a browser, it must be started from the server side. After it is started, you can sign on. Use the following procedures to start Sterling Connect:Direct Browser User Interface and to sign on.

Starting Sterling Connect:Direct Browser User Interface on a UNIX, Linux zSeries, or z/OS System

Use the following procedure for UNIX, Linux zSeries, or z/OS:

1. To start Sterling Connect:Direct Browser User Interface, navigate to the **bin** subdirectory in the installation directory and type **runBrowser.sh**.
2. Provide the URL in the following format to all users of Sterling Connect:Direct Browser User Interface.

```
http://host:port/cdbrowser/html/main.html
```

where *host* is the host name where the Sterling Connect:Direct Browser User Interface is installed and *port* is the port number specified during installation (default=8080).

Starting Sterling Connect:Direct Browser User Interface as a Service on a Microsoft Windows System

Use the following procedure to start the Sterling Connect:Direct Browser User Interface as a Microsoft Windows service:

1. From the Start menu, select **Settings>Control Panel**.
2. Open the **Administrative Tools** folder.

3. Launch **Services**.
4. Right-click **IBM Sterling Connect Direct Browser 1.5** and select **Start**.
5. To set Sterling Connect:Direct Browser User Interface to start automatically when you start your computer:
 - a. Right-click **IBM Sterling Connect Direct Browser 1.5** and select **Properties**.
 - b. In the **Startup type** field, select **Automatic**.
6. Click **OK**.
7. Close the Services application.
8. Provide the URL in the following format to all users of Sterling Connect:Direct Browser User Interface.

```
http://host:port/cdbrowser/html/main.html
```

where *host* is the host name where the Sterling Connect:Direct Browser User Interface is installed and *port* is the port number specified during installation (default=8080).

Starting Sterling Connect:Direct Browser User Interface Locally on a Microsoft Windows System

Use this method to start Sterling Connect:Direct Browser User Interface if you do not have administrative access to your Microsoft Windows system.

1. From the Start menu, select **Programs>IBM Sterling Connect Direct Browser V1.5>Start Servlet Container in New Window**. A command screen is displayed that details the startup routine. This command screen must stay open for the Sterling Connect:Direct Browser User Interface to function. You will need to perform this procedure each time you start your computer.
2. Access the Sterling Connect:Direct Browser User Interface with the following URL:

```
http://host:port/cdbrowser/html/main.html
```

where *host* is the host name where the Sterling Connect:Direct Browser User Interface is installed and *port* is the port number specified during installation (default=8080).

Signing On and Off

To sign on to a Sterling Connect:Direct node using the Sterling Connect:Direct Browser User Interface:

1. Access the the URL Sterling Connect:Direct Browser User Interface. Acquire this URL from the system administrator.
2. Select the Sterling Connect:Direct node to sign on to from the Select Node box, or type the node name. If the node you are signing on to is not configured in the Sterling Connect:Direct Browser User Interface, leave this field blank.

Note: The node must be configured on the Configure Node Properties page, and the Display Configured Nodes selection on the Configure System Properties page must be Yes, for a node to display the Select Node box. See *Changing a System Property File* on page 10 of the *IBM Sterling Connect:Direct Browser User Interface Configuration Guide* for more information.

3. Type the IP address or host name of the Sterling Connect:Direct system that you want to sign on to. If the node you are signing on to is configured in the Sterling Connect:Direct Browser User Interface, leave this field blank.
4. Type the port number of the Sterling Connect:Direct system that you want to sign on to. If the node you are signing on to is configured in the Sterling Connect:Direct Browser User Interface, leave this field blank.
5. Specify the protocol to use. Default specifies to use the value defined in the node. If there is no node definition, default specifies to use TCP/IP.
6. Type your user ID.
7. Type your password.

Note: Your system administrator may configure your system so that only the user ID is required.

8. Click **Sign On**.

You can open a new browser window if you want an additional Sterling Connect:Direct signon. Each browser window is limited to one signon.

See the online Help or *Glossary* for field descriptions.

To sign off from the Sterling Connect:Direct Browser User Interface, click **Sign Off** in the upper right corner of the screen.

Viewing and Updating the Network Map

The network map (netmap) describes each Sterling Connect:Direct node that your Sterling Connect:Direct system communicates with. The Sterling Connect:Direct Browser User Interface Netmap function allows you to:

- ◆ Select a Network Map Node
- ◆ Add a Node to a Sterling Connect:Direct Network Map
- ◆ View Network Map Node Details
- ◆ Export a Network Map Node Entry
- ◆ Import a Network Map Node Entry
- ◆ Change Network Map Node Information
- ◆ Delete a Node from the Network Map

If you are signed on to a Sterling Connect:Direct Browser User Interface for Microsoft Windows system you can also:

- ◆ Maintain Sterling Connect:Direct for Microsoft Windows Communications Modes
- ◆ Maintain Sterling Connect:Direct for Microsoft Windows Communications Paths

If you are signed on to an Sterling Connect:Direct Browser User Interface for HP NonStop system you can also:

- ◆ Maintain Sterling Connect:Direct for HP NonStop Logmodes
- ◆ Maintain Sterling Connect:Direct for HP NonStop LU Entries
- ◆ Maintain Sterling Connect:Direct for HP NonStop API Managers
- ◆ Maintain Sterling Connect:Direct for HP NonStop Relations

These tasks are described in the following sections.

Select a Network Map Node

Perform the following procedure to select a node in a Sterling Connect:Direct for z/OS, Sterling Connect:Direct for Microsoft Windows, Sterling Connect:Direct for UNIX, or Sterling

Connect:Direct for HP NonStop network map. After you select a node, you can then add a new node to the network map, change or view node information, or delete a node from the network map.

1. From the **Admin Functions** menu, select **Network Map**.
2. Click **Select Node** to display the Node Entry page for all nodes in your system.







If you want to look at a specific node, type the node name and click **Select Nodes** to display the Node Entry page for the specified node.

If you are signed on to a Sterling Connect:Direct for z/OS, Sterling Connect:Direct for UNIX, or Sterling Connect:Direct for HP NonStop system and want to look at several nodes, type a 1–16 character node name followed by an * (asterisk), then click **Select Node** to display the Node Entry page for the specified nodes. For example, typing SAN* displays all nodes beginning with the letters SAN.

The following information is displayed on the Node Entry page.

Field	Description
Node	Specifies the 1–16 alphanumeric character Sterling Connect:Direct node name.
Operating System	Sterling Connect:Direct for Microsoft Windows and Sterling Connect:Direct for HP NonStop only. Specifies the node's operating system.
Address	Sterling Connect:Direct for Microsoft Windows, Sterling Connect:Direct for UNIX, and Sterling Connect:Direct for HP NonStop only. Specifies the IP address or alias name to establish a session with TCP/IP nodes.
Port	Sterling Connect:Direct for Microsoft Windows, Sterling Connect:Direct for UNIX, and Sterling Connect:Direct for HP NonStop only. Specifies the TCP/IP port number used to communicate with the node.

Click one of the following icons to perform an action on a record.

Icon	Description
	Click to add a new node to the network map. See <i>Add a Node to a Sterling Connect:Direct Network Map</i> on page 21 for more information.
	Click to import a network map. See <i>Import a Network Map Node Entry</i> on page 47 for more information.
	Click to change a network map node. See <i>Change Network Map Node Information</i> on page 31 for more information.
	Click to export a network map. See <i>Export a Network Map Node Entry</i> on page 47 for more information.
	Click to delete a node from the network map. See <i>Delete a Node from the Network Map</i> on page 32 for more information.
	Click to display detailed network map information about the node.



Add a Node to a Sterling Connect:Direct Network Map

This section describes how to add a new node to a Sterling Connect:Direct for z/OS, Sterling Connect:Direct for UNIX, Sterling Connect:Direct for HP NonStop, or Sterling Connect:Direct for Microsoft Windows network map.

This function is not available if you are signed on to a Sterling Connect:Direct for z/OS 4.2.00 system or a Sterling Connect:Direct for UNIX 3.4.00 system.

Add a Node to a Sterling Connect:Direct for z/OS Network Map

To add a node to a Sterling Connect:Direct for z/OS network map:

1. Access the Node Entry page (see *Select a Network Map Node* on page 19).
2. Click  at the top of the page for a blank New Node Entry page, or click  preceding a node name for a New Node Entry page based on that node's information.
3. Type a **name** for this node.
4. Complete the remaining fields on this page.

The exact entries you supply vary depending on the node platform. The following table summarizes the field entries. For more detailed information about these fields, see the *IBM Sterling Connect:Direct for z/OS Administration Guide*.

Field	Description
Communication Name	Specifies the optional 1–8 character network name of the partner Sterling Connect:Direct.
Channel Range Start Addr	
NETEX Host Name	Specifies the host or library name. This field is used for NETEX, OS/400, and TCP/IP nodes only.
Remote Library Name	
IP Address or Alias Addr Count	
Session Type	Specifies the protocol type used for communications with the node. Session types are SNA, SNUF, LU 6.2, NETEX, and TCP.
Security Node Type	Classifies the node as an internal or external node for trusted node security. This field is optional if you do not use trusted node security.

Field	Description
Data Direction	Specifies the how this node interacts with the local node. Values are: <ul style="list-style-type: none"> ◆ RECEIVE indicates this node can receive data from the local node. ◆ SEND indicates this node can send data to the local node. ◆ BOTH indicates this node can send data to and receive data from the local node. ◆ NONE indicates this node can neither send data to nor receive data from the local node.
Parallel Sessions	The first value specifies the maximum number of simultaneous sessions that the local node can have with this node. The second value specifies the class assigned to a Process if none is specified when the Process is submitted. The default value for both fields is 1.
LDNS	Specifies the 1–256 character host name for this node. This field is valid for TCP session types only. If you use this field, do not supply an entry for the Remote Library IP Address or Alias field.
Environment	Specifies the node's operating system environment.
Logmode	Specifies the VTAM logmode entry that defines the communications protocol for this node. This field is only required for LU 6.2 nodes. It is not used for TCP/IP nodes or CTCA connections.
APPLIDs	Specifies the 8-character VTAM APPLIDs used by the batch, TSO, and CICS user interfaces. Do not specify the APPLIDs in this field if you also specify the APPLIDs in the Batch APPLIDs, CICS APPLIDs, and TSO APPLIDs fields.
Batch APPLIDs	Specifies the 8-character VTAM APPLIDs used by the batch user interface (DMBATCH and DMCHLAPI). Do not specify the APPLIDs in this field if you also specify the APPLIDs in the APPLIDs field.
CICS APPLIDs	Specifies the 8-character VTAM APPLIDs used by the CICS user interface. Do not specify the APPLIDs in this field if you also specify the APPLIDs in the APPLIDs field.
TSO APPLIDs	Specifies the 8-character VTAM APPLIDs used by the TSO user interface. Do not specify the APPLIDs in this field if you also specify the APPLIDs in the APPLIDs field.
Network ID	Specifies the 1–8 character network ID for this node. (For a CTCA connection in a Sterling Connect:Direct/Plex, this field specifies the 1–8 character name of the Sterling Connect:Direct/Server.) This field is optional. If specified, it is used for Process and session verification. See the <i>IBM Sterling Connect:Direct for z/OS Administration Guide</i> for more details.
PNODE LUs	Specifies the logical units used by a remote node to initiate a session with this node. This field is used for only OpenVMS nodes. Do not specify an entry in the communications name when you use this field.
SNODE LUs	For OpenVMS nodes, this field specifies the logical unit names used by the local node to start a session with this node.



Field	Description
Plexclass	<p>Specifies a default PLEXCLASS for the PNODE (the first value) and SNODE (the second value). In a Sterling Connect:Direct/Plex environment, the Sterling Connect:Direct/Server checks the PLEXCLASS value to determine if it can run a submitted Process.</p> <p>Each PLEXCLASS name is 1–8 characters. An asterisk (*) is the default value, which indicates that the Sterling Connect:Direct/Server supports any Process that does not specify a PLEXCLASS, or specifies a PLEXCLASS of “*”.</p>
Use Server Node	<p>Specifies whether a Sterling Connect:Direct/Server should identify itself with its CDPLEX.SERVER.NODE initialization parameter when communicating with this node.</p> <p>Check this box if the server should use its CDPLEX.SERVER.NODE initialization parameter as identification when communicating with this node. If you leave this box unchecked, the Sterling Connect:Direct/Server identifies itself to this node as the same local node as all other members of the Sterling Connect:Direct/Plex.</p> <p>This field is ignored in a Sterling Connect:Direct/Stand-alone Server.</p>
CRC	<p>Select Yes to override the CRC initialization parameter setting.</p>
TCPAPI	<p>Specifies the adjacent node’s communications address used by an external API that communicates with the node through TCP. This value must be the same as the TCP.API.PORTNUM initialization parameter of the node that you communicate with.</p> <p>If the adjacent node is an SNA node, specify both the port number and IP address. If the adjacent node is a TCP node, specify the port number, but you do not need to specify the IP address. If you do not supply the IP address, you must define the IP address in the adjacent node record.</p>

Field	Description
Alt.Comm	<p>Specifies alternate remote node addresses for outbound Processes or network map checking. Alt.Comm is used for outbound Processes when:</p> <ul style="list-style-type: none"> ◆ The ALT.USE.OUT parameter is Yes. ◆ This node is the PNODE. ◆ The Process is not restarting. ◆ The Process is not PNODE=SNODE or PNODE=TCPNAME. <p>The Alt.Comm format is: (ALT.ADDR=<i>alternate address</i> ALT.NODEDEF=<i>alternate node</i>, ALT.PORT, ALT.TYPE=SNA TCP LU62, ALT.LOG, ALT.USE.OUT=Yes No), ALT.DIR=BALANCE TOP</p> <p>You must specify either ALT.ADDR or ALT.NODEDEF:</p> <ul style="list-style-type: none"> ◆ ALT.ADDR specifies either a TCP/IP or SNA address. If ALT.TYPE is SNA or LU62, ALT.ADDR must be a 1–8 character APPLID. If ALT.TYPE is TCP, ALT.ADDR must be a 15-character TCP/IP address or a 1–256 character LDNS name. ◆ ALT.NODEDEF specifies an alternate node definition referencing another network map entry. ◆ ALT.PORT specifies the alternate address port number if the alternate address is TCP/IP. This parameter is optional. The default is 1364. ◆ ALT.TYPE specifies the alternate address protocol. Valid values are SNA, TCP, LU62. This parameter is required with ALT.ADDR. ◆ ALT.LOG specifies an SNA logmode used when ALT.TYPE is SNA or LU62. This parameter is required for LU62 if the adjacent node is not defined as LU62. ◆ ALT.USE.OUT specifies whether to use the communications path for outbound Processes, if the other criteria are met. Valid values are Yes (default) and No. ◆ ALT.DIR specifies the communications path direction. BALANCE (default) indicates that all current sessions are scanned and the least used path is selected as the primary path for the Process. TOP indicates that the paths are processed from the top down. <p>The following is an example of alternate TCP/IP addresses for outbound Processes:</p> <pre>((ALT.NODEDEF=CD.PLEX.CD.PLEX., ALT.USE.OUT=YES) (ALT.ADDR=10.20.204.4, ALT.PORT=01363, ALT.TYPE=TCP, ALT.USE.OUT=YES) (ALT.ADDR=10.20.204.3, ALT.PORT=01363, ALT.TYPE=TCP, ALT.USE.OUT=YES) (ALT.ADDR=10.20.204.2, ALT.PORT=01363, ALT.TYPE=TCP, ALT.USE.OUT=YES), ALT.DIR=BALANCE)</pre>
Buffer Size	<p>Specifies the buffer size for the adjacent node. It is only used for UTCP and CTCA session types to override the local node's buffer size during TCP buffer size negotiation, enabling Sterling Connect:Direct to send more data through TCP/IP.</p> <p>Acceptable values are 3072–65536 or 3 KB–64 KB.</p>

5. Click **Add New Node**. The node is added to the network map.

Add a Node to a Sterling Connect:Direct for UNIX Network Map

Perform the following procedure to add a remote node to a Sterling Connect:Direct for UNIX network map.

1. Access the Node Entry page (see *Select a Network Map Node* on page 19).
2. Click  at the top of the page for a blank New Node Entry page, or click  preceding a node name for a New Node Entry page based on that node's information.
3. Type a **name** for this node.
4. Complete the remaining fields on this page.

The following table summarizes the field entries. For more detailed information about these fields, see the *IBM Sterling Connect:Direct for UNIX Administration Guide*.

Field	Description
Node Name	Specifies the 1–16 character node.name parameter that defines the name of the remote node.
Buffer Size	Specifies the comm.bufsize parameter, which is the buffer size for transmitting data to and from a remote node. The value for TCP/IP is unlimited. For LU 6.2, the maximum is below 32K bytes. The default is 4096 bytes.
TCP Address	Specifies the address portion of the comm.info parameter, which is used to monitor connection requests from remote nodes using TCP/IP or LU 6.2. This is a required parameter. The value is one of the following: <ul style="list-style-type: none"> ◆ The host name of the Sterling Connect:Direct host computer. ◆ The IP address of the remote node in nnn.nnn.nnn.nnn format.
TCP Port	Specifies the Sterling Connect:Direct communications port portion of the comm.info parameter. The format is a port name or nnnn, where nnnn is a 1–4 digit number. The default is 1364. This is a required parameter.
Mode Transport	Specifies the comm.transport parameter, which defines the transport protocol for the remote node. Acceptable values are: <ul style="list-style-type: none"> ◆ TCP–TCP/IP connections ◆ LU62–AIX SNA LU 6.2 connections ◆ BLKLU62–other LU 6.2 connections
Long Term Retries	Specifies the 1–4 digit conn.retry.ltempts parameter that defines how many times to attempt connection after a connection failure occurs and all short-term retries have been attempted. The default is 6.
Long Term Retry Int	Specifies the conn.retry.ltwait parameter that defines how long to wait between long-term retries. The format is hh.mm.ss. The maximum value is 23.59.59. The default is 00.10.00 (10 minutes).
Short Term Retries	Specifies the conn.retry.sttempts parameter that defines how many times to attempt connection after a connection failure occurs. There is no maximum value. The default is the conn.retry.sttempts value in the local.node record of the initialization parameters file.

Field	Description
Short Term Retry Int	Specifies the <code>conn.retry.stwait</code> parameter that defines how long to wait between short-term retries. The format is hh.mm.ss. The maximum value is 23.59.59. The default is the <code>conn.retry.stwait</code> value in the <code>local.node</code> record of the initialization parameters file.
Contact Name	Specifies the optional <code>contact.name</code> parameter, which defines the name of the Sterling Connect:Direct administrator or operator on the remote node.
Contact Phone	Specifies the optional <code>contact.phone</code> parameter that defines the contact name's phone number.
Description	Specifies the optional <code>descrip</code> parameter that defines any comments.
Pacing Send Count	Specifies the <code>pacing.send.count</code> parameter that defines the number of send operations to perform before waiting for a pacing response from the remote node. The default is 0, which indicates no pacing. The value for this parameter has no effect on LU 6.2 connections.
Pacing Send Delay	Specifies the <code>pacing.send.delay</code> parameter that defines how long to wait between send operations to the remote node. The value indicates the number of milliseconds between the end of one packet and the beginning of the next. The default is 0, which indicates no delay. The value for this parameter has no effect on LU 6.2 connections.
Runstep Max Time to Wait	Specifies the <code>runstep.max.time.to.wait</code> parameter that defines the maximum number of seconds to wait for remote run steps to complete, including remote run task, run job, or submit statements. Using this parameter prevents a Process from failing when a remote step takes longer to complete than specified in the TCP Max Time to Wait parameter. The default value is 0.
Default Class	Specifies the <code>sess.default</code> parameter that defines the default session class for starting session managers. A Process executes on the specified class or any higher session class. This parameter overrides the equivalent value in the <code>local.node</code> record. The default is 1.
Max PNODE Sessions	Specifies the <code>sess.pnode.max</code> parameter that defines the maximum concurrent connections, when the local node initiates the session. The default is 255.
Max SNODE Sessions	Specifies the <code>sess.snode.max</code> parameter that defines the maximum concurrent connections, when the local node is the secondary node in a session. The default is 255.
Parallel Sessions	Specifies the <code>sess.total</code> parameter that defines the maximum number of concurrent connections between all nodes and the local node. The default is 255.
TCP Max Time to Wait	Specifies the <code>tcp.max.time.to.wait</code> parameter that defines the maximum number of seconds that the local node monitors the remote node for a message to complete when using TCP/IP. When set to 0 (the default), the wait time is unlimited, unless limited by the operating system.



Add a Node to a Sterling Connect:Direct for Microsoft Windows Network Map

A Sterling Connect:Direct for Microsoft Windows system network map consists of three items:

- ◆ The node definition created in this section.

- ◆ A communications mode that defines session protocol characteristics, such as RU size and pacing values. A mode is associated with a communications path. See *Maintain Sterling Connect:Direct for Microsoft Windows Communications Modes* on page 32.
- ◆ A communications path that defines transport and protocol information about the available communications paths and their attributes such as protocol type and specific protocol information. See *Maintain Sterling Connect:Direct for Microsoft Windows Communications Paths* on page 35.

Perform the following procedures to add a node to a Sterling Connect:Direct for Microsoft Windows network map:

1. Access the Node Entry page (see *Select a Network Map Node* on page 19).
2. Click  at the top of the page for a blank New Node Entry page, or click  preceding a node name for a New Node Entry page based on that node's information.
3. Type a **name** for the new node in the Node Name field.
4. Complete the remaining fields on this page. The following table summarizes the field entries. For more detailed information about these fields, see the *IBM Sterling Connect:Direct for Microsoft Windows System Guide*.



Field	Description
Operating System	Specifies the node's operating system environment.
Max PNODE Sessions	Specifies the maximum number of simultaneous sessions that remote nodes can have with this node when it is the PNODE. Acceptable values are 1–255.
Max SNODE Sessions	Specifies the maximum number of simultaneous sessions that remote nodes can have with this node when it is the SNODE. Acceptable values are 1–255.
Default Class	Specifies the preferred session class for the Process. The Process can execute in the class specified or any higher class. Acceptable values are 1 to the maximum number of PNODE sessions as defined in the network map. This value overrides any defaults.
Short Term Retries	Specifies the number of retry attempts for a short-term connection failure. After the number of specified short-term attempts is reached, long-term retry values are used. Acceptable values are 1–255.
Short Term Retry Int	Specifies the amount of time to wait between each short-term retry attempt. It is specified as 24-hour time.
Long Term Retries	Specifies the number of retry attempts after all of the short-time retry attempts are used. Acceptable values are 1–255.
Long Term Retry Int	Specifies the amount of time to wait between each long-term retry attempt. It is specified as 24-hour time.
TCP Address	Specifies the host name or the IP address of the remote Sterling Connect:Direct node. Format is nnn.nnn.nnn.nnn or an alphanumeric host name. Alias names are not supported.

Field	Description
TCP Port	Specifies the TCP/IP port number used to communicate with the node, in format nnnnn.
TCP Mode	Specifies the TCP/IP communications mode that is used to communicate with this node. If this field is not specified, the default is the last TCP/IP mode in the list.
Network Name	Specifies the name of the SNA network where the remote Sterling Connect:Direct node resides.
Partner LU	Specifies the 1–8 character name of the partner node used as the remote connection end point for the LU-to-LU session. This is the VTAM APPLID for host connections or partner LU name for LU 6.2 only.
APPC Mode	Specifies the name of the network map APPC Communications Mode definition record used to communicate with a remote node. If this parameter is not specified, its value defaults to the last APPC mode in the list.
Communication Path	Specifies the defined communications path used to communicate with this node.
Contact Name	Specifies the 1–49 character contact name for this node.
Contact Phone	Specifies the 1–39 character phone number for this node's contact.
Description	Specifies descriptive information for the node. Up to 127 characters can be supplied.

5. Click **Add New Node** when complete. The node is added to the network map.

Add a Node to a Sterling Connect:Direct for HP NonStop Network Map

Perform the following procedure to add a remote node to a Sterling Connect:Direct for HP NonStop network map.

1. Access the Node Entry page (see *Select a Network Map Node* on page 19).
2. Click  at the top of the page for a blank New Node Entry page, or click  preceding a node name for a New Node Entry page based on that node's information.
3. Type a **name** for this node.
4. Complete the remaining fields on this page.

The following table summarizes the field entries. For more detailed information about these fields, see the *IBM Sterling Connect:Direct for HP NonStop Administration Guide*.


Field	Description
Node Name	Specifies the 1–16 character name of the adjacent node with which Sterling Connect:Direct for HP NonStop communicates.
Description	Specifies descriptive information for the node. Up to 127 characters can be supplied.

Field	Description
Type	<p>Identifies the type of adjacent node. The value for TYPE corresponds to the platform of the adjacent node, with the exception of PNODESNO or PS, which indicates that the specified node is both the PNODE and SNO. This type of adjacent node enables you to send data to another file on your node or EXPAND network.</p> <p>Valid values are:</p> <ul style="list-style-type: none"> ◆ PNODESNO ◆ PS ◆ NDM.NonStop ◆ NDM.VMS ◆ NDM.NT ◆ NDM.400 ◆ NDM.zOS ◆ NDM.VM ◆ NDM.VSE ◆ NDM.UNIX ◆ NDM.DOMAIN ◆ NDM.API <p>Note: For Microsoft Windows adjacent nodes use TYPE=NDM.NT.</p>
APPLIDs	<p>Specifies the 1–8 character IBM VTAM application identifier (APPLID) application ID (APPLID) associated with the adjacent node specified in this command. This parameter is required for z/OS, VM, and VSE nodes.</p> <p>Note: If TCP APPLID is required for a network map entry but is not used, define the parameter as APPLID=dummy.</p>
Default Class	<p>Specifies the default class for Processes submitted to run on the specified adjacent node. This value must be less than or equal to the number of LUs related to the adjacent nodes. Each LU has an assigned default class value that enables a Process to execute on an LU having a matching class value or on LUs with higher class values. Class numbers are assigned in the order in which LUs appear in the network map. Defining a value in the CLASS parameter of the PROCESS or SUBMIT statement overrides any default class specified in this parameter. If you specify a class value of 1, a Process runs on the first available LU. The total number of available classes is the number of LUs related to this adjacent node entry.</p>
Max Retry	<p>Specifies how many times to attempt to connect with the adjacent node. The valid range of values for this field is 1–99. The default number of retries is 7. The MAXRETRY parameter for the LU overrides the MAXRETRY parameter on the adjacent node record.</p>
NDM400 Library	<p>Specifies a 1–10 alphanumeric character identifier for the library name for Sterling Connect:Direct on an iSeries node.</p>
IP Addr	<p>Identifies the host name or IP address of the computer running Sterling Connect:Direct, in the format of hostname or nnn.nnn.nnn.nnn, where nnn is the maximum number of characters (1–256). This parameter is valid only for TCP/IP connectivity.</p>

Field	Description
IP Mask	Identifies the IP mask for an adjacent domain node and must be entered as nnn.nnn.nnn.nnn, where 0<=nnn<=255. The IPMASK parameter can also be used if you specified TYPE=NDM.DOMAIN.
Port Num	Identifies the communications port that is monitored for connection requests. The default is 1364. This parameter is valid only for TCP/IP connectivity.
DNS	Identifies the Domain Name System (DNS) for the local node.
PLEXCLASS	Specifies the class representing a type of server in the Sterling Connect:DirectPlex system to which you want to connect.
Volume	Specifies the default destination volume (directory) for incoming data for the adjacent node using the format, Volume.subvolume. This parameter allows the Sterling Connect:Direct administrator to specify default destination volumes for those Sterling Connect:Direct sessions of other platforms and operating systems where no destination volume was provided in the COPY statements. This parameter overrides the Volume parameter on the User record. VOLUME must be entered using the correct syntax of Guardian file naming conventions or a syntax error will occur.
Secure	Specifies that this is a node running under Sterling Connect:Direct Secure Plus for HP NonStop.
TCP Name	Specifies the TCP/IP process name for this adjacent node.
Alloc. Retry Adj	Specifies a list of the Sterling Connect:Direct error messages that are retried as an allocation error, when originated by the adjacent node.
CRC	Indicates whether Cyclic Redundancy Checking (CRC) is enabled for this node.
Netex.Hostid	Specifies the NETEX host name for the remote system. This value must correspond to the actual host name by which the MVS NETEX system is known.

View Network Map Node Details

Perform the following procedure to view details about a Sterling Connect:Direct network map node.

1. Access the Node Entry page as described in *Select a Network Map Node* on page 19.
2. Click  for the node you want to see.






See *Add a Node to a Sterling Connect:Direct for z/OS Network Map* on page 21 for Sterling Connect:Direct for z/OS network map field descriptions.

See *Add a Node to a Sterling Connect:Direct for UNIX Network Map* on page 25, the *Glossary*, or the *IBM Sterling Connect:Direct for HP NonStop Administration Guide* for network map field descriptions.

See *Add a Node to a Sterling Connect:Direct for HP NonStop Network Map* on page 28, or the *IBM Sterling Connect:Direct for UNIX Administration Guide* for Sterling Connect:Direct for UNIX network map field descriptions.

See *Add a Node to a Sterling Connect:Direct for Microsoft Windows Network Map* on page 26 for Sterling Connect:Direct for Microsoft Windows network map field descriptions.

3. Click the navigational symbols to move through the records, or click one of the following icons.


Icon	Description
	Click to add a new node to the network map. See <i>Add a Node to a Sterling Connect:Direct Network Map</i> on page 21 for more information.
	Click to change a network map node. See <i>Change Network Map Node Information</i> on page 31 for more information.
	Click to import a network map. See <i>Import a Network Map Node Entry</i> on page 47 for more information.
	Click to export a network map. See <i>Export a Network Map Node Entry</i> on page 47 for more information.
	Click to delete a node from the network map. See <i>Delete a Node from the Network Map</i> on page 32 for more information.

4. Click another function or your browser's **Back** button when finished.

Change Network Map Node Information

Perform the following procedure to change node information in a Sterling Connect:Direct network map.

This function is not available if you are signed on to a Sterling Connect:Direct for z/OS 4.2.00 system or a Sterling Connect:Direct for UNIX 3.4.00 system.

1. Access the Node Entry page as described in *Select a Network Map Node* on page 19.
2. Click  to select the node you want to change. The Change Node Entry page is displayed.
3. Change the desired fields.

See *Add a Node to a Sterling Connect:Direct Network Map* on page 21 for Sterling Connect:Direct for z/OS network map field descriptions.

See *Add a Node to a Sterling Connect:Direct for UNIX Network Map* on page 25, the *Glossary*, or the *Sterling Connect:Direct for UNIX Administration Guide* for Sterling Connect:Direct for UNIX network map field descriptions.

See *Add a Node to a Sterling Connect:Direct for HP NonStop Network Map* on page 28, or the *Sterling Connect:Direct for UNIX Administration Guide* for Sterling Connect:Direct for UNIX network map field descriptions.

See *Add a Node to a Sterling Connect:Direct for Microsoft Windows Network Map* on page 26 for Sterling Connect:Direct for Microsoft Windows network map field descriptions.

4. Click **Change Node**. A node entry changed message is displayed.
5. Click another function or your browser's **Back** button.

Delete a Node from the Network Map

Perform the following procedure to delete a node from a network map. This procedure deletes the node from the Sterling Connect:Direct system.

1. Access the Node Entry page as described in *Select a Network Map Node* on page 19.
2. Click **X** to select the node you want to delete. The Delete Netmap Entry Request page is displayed.
3. Click **Delete Netmap Entry**. A node entry deleted message is displayed.
4. Click another function or your browser's **Back** button.

Maintain Sterling Connect:Direct for Microsoft Windows Communications Modes

The following sections describe these Sterling Connect:Direct for Microsoft Windows communications mode functions:

- ◆ Select a Communications Mode
- ◆ Add a Communications Mode
- ◆ View Communications Mode Details
- ◆ Change a Communications Mode
- ◆ Delete a Communications Mode

For detailed information about communications modes, see the *IBM Sterling Connect:Direct for Microsoft Windows System Guide*.

Select a Communications Mode





Perform the following procedure to select a communications mode in a Sterling Connect:Direct for Microsoft Windows network map. After you select a mode, you can then add a new mode to the network map, change or view communications mode information, or delete a communications mode from the network map.

1. From the **Admin Functions** menu, select **Network Map**.
2. Click **Select Modes** to display the Mode Entry Results page.

The following information is displayed on the Mode Entry Results page. Click the navigational symbols to move through the records.



Field	Description
Mode Name	Specifies the 1–48 character name of the communications mode.
Protocol	Specifies the type of protocol used in the communications mode, either TCP/IP or APPC.
Buffer Size	Specifies the buffer size for data transmission. This value overrides the initialization parameters.
Pacing Send Count	Specifies the number of send operations to perform before waiting for a pacing response from the remote Sterling Connect:Direct node.
Pacing Send Delay	Specifies the amount of time Sterling Connect:Direct waits before sending each outbound data buffer to the remote node.

Click one of the following icons to perform an action on a record.

Icon	Description
	Click to add a new communications mode to the network map. See <i>Add a Communications Mode</i> on page 33 for more information.
	Click to change an existing communications mode. See <i>Change a Communications Mode</i> on page 34 for more information.
	Click to delete a communications mode from the network map. See <i>Delete a Communications Mode</i> on page 35 for more information.
	Click to display detailed communications mode information. See <i>View Communications Mode Details</i> on page 34 for more information.

Add a Communications Mode

To add a communications mode to a Sterling Connect:Direct for Microsoft Windows network map:

1. Access the Mode Entry Results page (see *Select a Communications Mode* on page 32).
2. Click the  at the top of the page for a blank Add New Mode Entry page, or click the  preceding a mode name for a Add New Mode Entry page based on that node's information.
3. Type a **name** for the mode in the Mode Name field.
4. Select the **protocol**.


Perform steps 5 through 7 for TCP/IP communications only. Perform steps 8 through 10 for APPC communications only.

5. Type the **buffer size**.
6. Type the **pacing send count**.
7. Type the **pacing send delay**.
8. Select the maximum RU size.
9. Type the pacing size.
10. Type the number of maximum sessions.
11. Click **Add New Mode**. The mode is added to the network map.

See the online Help or *Glossary* for field descriptions.




View Communications Mode Details

To view details about a communications mode:

1. Access the Mode Entry Results page as described in *Select a Communications Mode* on page 32.
2. Click  for the communications mode you want to see.

See *Add a Communications Mode* on page 33 for communications mode field descriptions.


3. Click the navigational symbols to move through the records, or click one of the following icons:

Icon	Description
	Click to add a new communications mode to the network map. See <i>Add a Communications Mode</i> on page 33 for more information.
	Click to change an existing communications mode. See <i>Change a Communications Mode</i> on page 34 for more information.
	Click to delete a communications mode from the network map. See <i>Delete a Communications Mode</i> on page 35 for more information.

4. Click another function or your browser's **Back** button when finished.


Change a Communications Mode

To change communications mode information in a Sterling Connect:Direct for Microsoft Windows network map:

1. Access the Mode Entry Results page as described in *Select a Communications Mode* on page 32.
2. Click  to select the communications mode you want to change. The Change Mode Entry page is displayed.
3. Change the desired fields. See *Add a Communications Mode* on page 33 for field descriptions.
4. Click **Change Mode**. A mode entry changed message is displayed.
5. Click another function or your browser's **Back** button.

Delete a Communications Mode

To delete a communications mode from a Sterling Connect:Direct for Microsoft Windows network map:

1. Access the Mode Entry Results page as described in *Select a Communications Mode* on page 32.
2. Click  to select the communications mode you want to delete. The Delete Mode Entry Request page is displayed.
3. Click **Delete Mode Entry**. A mode entry deleted message is displayed.
4. Click another function or your browser's **Back** button.

Maintain Sterling Connect:Direct for Microsoft Windows Communications Paths

The communications path defines the physical communications path between nodes in a Sterling Connect:Direct for Microsoft Windows system.

The following sections describe these Sterling Connect:Direct for Microsoft Windows communications path functions:

- ◆ Select a Communications Path
- ◆ Add a Communications Path
- ◆ View Communications Path Details
- ◆ Change a Communications Path
- ◆ Delete a Communications Path

For detailed information about communications paths, see the *Sterling Connect:Direct for Microsoft Windows System Guide*.

Select a Communications Path





Perform the following procedure to select a communications path in a Sterling Connect:Direct for Microsoft Windows network map. After you select a path you can then add a new communications path to the network map, change or view communications path information, or delete a communications path from the network map.

1. From the **Admin Functions** menu, select **Network Map**.
2. Click **Select Comm Paths** to display the Select Path Results page.

The following information is displayed on the Select Path Results page.



Field	Description
Path Name	The communications path name.
Mode	The communications mode associated with the communications path.
Protocol	The protocol used in the communications path.

Click one of the following icons to perform an action on a record.

Icon	Description
	Click to add a new communications path to the network map. See <i>Add a Communications Path</i> on page 36 for more information.
	Click to change an existing communications path. See <i>Change a Communications Path</i> on page 37 for more information.
	Click to delete a communications path from the network map. See <i>Delete a Communications Path</i> on page 38 for more information.
	Click to display detailed communications path information. See <i>View Communications Path Details</i> on page 37 for more information.

Add a Communications Path

To add a communications path to a Sterling Connect:Direct for Microsoft Windows network map:


1. Access the Select Path Results page (see *Select a Communications Path* on page 36).
2. Click the  at the top of the page for a blank Add New Path Entry page, or click the  preceding a node name for a Add New Path Entry page based on that node's information.
3. Type a 1–48 character name for the communications path.
4. Select the **communication mode**.
5. Select the **protocol** used for the communications path, either TCP/IP or APPC.

Complete steps 6 through 9 for APPC communications only.

6. Select if the Token Ring adapter number used for this connection is the primary or alternate adapter.
7. Type the 12 hexadecimal digit token ring address of the remote node. Type all zeros if the local node is the same as the remote node.
8. Type the SNA network name of the local Sterling Connect:Direct node.
9. Type the name of a local APPC LU configured within Microsoft SNA Server. This parameter is required for APPC communications.
10. Click **Add New Path**. The communications path is added to the network map.




View Communications Path Details

To view details about a communications path:

1. Access the Select Path Results as described in *Select a Communications Path* on page 36.
2. Click  for the communications path you want to see.

See *Add a Communications Path* on page 36 for communications path field descriptions.


3. Click the navigational symbols to move through the records, or click one of the following icons:

Icon	Description
	Click to add a new communications path to the network map. See <i>Add a Communications Path</i> on page 36 for more information.
	Click to change an existing communications path. See <i>Change a Communications Path</i> on page 37 for more information.
	Click to delete a communications path from the network map. See <i>Delete a Communications Path</i> on page 38 for more information.

4. Click another function or your browser's **Back** button when finished.

Change a Communications Path

To change communications path information in a Sterling Connect:Direct for Microsoft Windows network map:

1. Access the Select Path Results page as described in *Select a Communications Path* on page 36.
2. Click  to select the communications path you want to change. The Change Path Entry page is displayed.
3. Change the desired fields. See *Add a Communications Path* on page 36 for field descriptions.
4. Click **Change Path**. A path entry changed message is displayed.
5. Click another function or your browser's **Back** button.

Delete a Communications Path

To delete a communications path from a Sterling Connect:Direct for Microsoft Windows network map:

1. Access the Select Path Results page as described in *Select a Communications Path* on page 36.
2. Click **X** to select the communications path you want to delete. The Delete Path Entry page is displayed.
3. Click **Delete Path**. A path entry deleted message is displayed.
4. Click another function or your browser's **Back** button.

Maintain Sterling Connect:Direct for HP NonStop Logmodes

Refer to the following sections to maintain logmodes for Sterling Connect:Direct for HP NonStop.

- ◆ Select a Logmode
- ◆ Add a Logmode
- ◆ Change a Logmode
- ◆ Delete a Logmode

For detailed information about logmodes, see the *IBM Sterling Connect:Direct for HP NonStop Administration Guide*.

Select a Logmode



If you are signed on to a Sterling Connect:Direct for HP NonStop system, you can select a Logmodes. Use the following procedure:

1. From the **Admin Functions** menu, select **Network Map**.
2. Click **Select Logmodes**. The following information is displayed on the Logmode Entry Results page:

Field	Description
Logmode Name	Specifies the 1–8 alphanumeric character of the LOGMODE record.
Protocol	Specifies the primary protocol of the LOGMODE.
RU Size	Specifies the transmission buffer size or the maximum length of data (request units) in bytes that Sterling Connect:Direct can transmit between the primary and secondary LUs in a session.
PNODE Send Pacing	Specifies the primary send pacing count. Define any hexadecimal number in the range of 0 through 3F.
SNODE Send Pacing	Specifies the secondary send pacing count. Define any hexadecimal number in the range of 0 through 3F. The default value is 00.

Add a Logmode

Perform the following procedure to add a logmode to a Sterling Connect:Direct for HP NonStop network map.


1. Access the Logmode Entry page (see *Select a Logmode* on page 38).
2. Click  at the top of the page for a blank New Logmode Entry page, or click  preceding a node name for a New Logmode Entry page based on the information for that logmode.
3. Type a **name** for this logmode.
4. Complete the remaining fields on this page.

The following table summarizes the field entries. For more detailed information about these fields, see the *IBM Sterling Connect:Direct for HP NonStop Administration Guide*.

Field	Description
Logmode	Specifies the 1–8 alphanumeric character name of the LOGMODE record.
Pservice	Represents the LU presentation services profile and usage field for this logon mode. The default value, in hexadecimal, is 000000000000000000000000. Do not modify this parameter.
Pri Send Pacing	Specifies the primary send pacing count. Define any hexadecimal number in the range of 0 through 3F. The default value is 00.
Sec Send Pacing	Specifies the secondary send pacing count. Define any hexadecimal number in the range of 0 through 3F. The default value is 00.
Sec Receive Pacing	Specifies the secondary receive pacing count. Define any hexadecimal number in the range of 0 through 3F. The default value is 00.
RU Size	Specifies the transmission buffer size or the maximum length of data (request units) in bytes that Sterling Connect:Direct for HP NonStop can transmit between the primary and secondary LUs in a session. The default, in hexadecimal, is 8686. Assign RU sizing on the host node through the RUSIZE entry in the LOGMODE table. Refer to the <i>Sterling Connect:Direct for HP NonStop Installation Guide</i> for acceptable values for the RUSIZE parameter.
Type	Represents the type of NLD to be sent. Valid values are 1 for nonnegotiable (for LU0).
FM Prof	Represents the type of NLD to be sent. Valid values are 1 for nonnegotiable (for LU0).
TS Prof	Specifies the transmission services profile.
Pri Prot	Represents the primary protocol.
Sec Prot	Represents the secondary protocol.
Common LU Prot	Represents the common protocol.


Change a Logmode

To change a logmode on a Sterling Connect:Direct for HP NonStop system:

1. Access the Logmode Entry page (see *Select a Logmode* on page 38).
2. Click  to select the node you want to change. The Change Node Entry page is displayed.
3. Change the desired fields. See *Add a Logmode* on page 39 for field descriptions.
4. Click **Change Node**. A node entry changed message is displayed.
5. Click another function or your browser's **Back** button.

Delete a Logmode

To delete a logmode on a Sterling Connect:Direct for HP NonStop system:

1. Access the Logmode Entry page (see *Select a Logmode* on page 38).
2. Click  to select the node you want to delete. The Delete Netmap Entry Request page is displayed.
3. Click **Delete Netmap Entry**. A node entry deleted message is displayed.
4. Click another function or your browser's **Back** button.

Maintain Sterling Connect:Direct for HP NonStop LU Entries

Refer to the following sections to maintain LU entries for Sterling Connect:Direct for HP NonStop.

- ◆ Select an LU Entry
- ◆ Add an LU Entry
- ◆ Change an LU Entry
- ◆ Delete an LU Entry

For detailed information about LU entries, see the *IBM Sterling Connect:Direct for HP NonStop Administration Guide*.

Select an LU Entry

If you are signed on to a Sterling Connect:Direct for HP NonStop system, you can select an LU entry. Use the following procedure:



1. From the **Admin Functions** menu, select **Network Map**.
2. Click **Select LUs**. The following information is displayed on the LU Entry page:

Field	Description
LU Name	Specifies the 1–25 character name of the LU.

Field	Description
Type	Identifies the communications protocol for the LU. Valid values for this parameter are as follows: <ul style="list-style-type: none"> ◆ SNA or SNA.S—Defines the LU as a secondary LU (SLU). ◆ NETEX—Defines the LU for transmissions using a NETEX interface. ◆ TCP.D—Identifies the LU as a dynamic LU using TCP/IP for connectivity. Dynamic LUs are started by Connect:Direct as needed and automatically stopped upon Process completion. ◆ TCP.S—Identifies the LU as a static LU using TCP/IP for connectivity.
CPU	Identifies the HP NonStop central processing unit (CPU) where processing for the LU is initiated. If this parameter is not specified, the LU is assigned to the CPU running the HP NonStop command interpreter (TACL). <ul style="list-style-type: none"> ◆ cpu—Specifies the HP NonStop CPU where processing for the LU is initiated. ◆ list—Inserts multiple CPU numbers.
Pri	Defines the priority of the LU in the CPU in which it runs. Can facilitate load balancing.

Add an LU Entry

Perform the following procedure to add an LU entry node to a Sterling Connect:Direct for HP NonStop network map.


1. Access the LU Entry page (see *Select an LU Entry* on page 40).
2. Click  at the top of the page for a blank New LU Entry page, or click  preceding an LU name for a New LU Entry page based on that LU entry's information.
3. Type a **name** for this node.
4. Complete the remaining fields on this page.

The following table summarizes the field entries. For more detailed information about these fields, see the *IBM Sterling Connect:Direct for HP NonStop Administration Guide*.

Field	Description
LU Name	Specifies the 1–25 character name of the LU to be inserted into the network map. You must fully qualify the LU name. Insert one LU with each INSERT NETMAP LU command. When TYPE=NETEX, TCP.D, or TCP.S, the LU name is arbitrary.
CPU	Identifies the HP NonStop central processing unit (CPU) where processing for the LU is initiated. If this parameter is not specified, the LU is assigned to the CPU running the HP NonStop command interpreter (TACL). <ul style="list-style-type: none"> ◆ cpu—Specifies the HP NonStop CPU where processing for the LU is initiated. Values range from 0–15 and are dependent on your HP NonStop system. ◆ list—Inserts multiple CPU numbers. Enclose the list in parentheses, and separate each value with a space or comma (,).

Field	Description
Highpin	Specifies whether the session manager runs as a high-PIN Process. The default for high-PIN Processing is ON.
Logmode	Specifies the 1–8 character LOGMODE entry associated with an LU. Specify a VTAM LOGMODE for HP NonStop LUs defined as SNA secondary. Specify a Connect:Direct HP NonStop LOGMODE for HP NonStop LUs defined as SNA primary. Note: The LOGMODE parameter is not valid when the TYPE parameter is equal to TCP.D, TCP.S, NETEX, or PS.
Max Retry	Specifies the number of times to attempt connection to a session with the defined LU. The valid range of values for this field is 0–99. If you do not specify the MAXRETRY parameter and no Process is waiting execution in the TCQ, then Sterling Connect:Direct makes three attempts to start a session manager for this LU. If an error occurs during Process execution and you did not specify MAXRETRY, the number of attempts defaults to the value for MAXRETRY in the adjacent node record. If the value of MAXRETRY is 0, Sterling Connect:Direct retries indefinitely. Note: The MAXRETRY parameter for the LU overrides the MAXRETRY parameter on the adjacent node record.
Pri	Defines the priority of the LU in the CPU in which it runs. Can facilitate load balancing. Values range from 1–199. If left blank, the LU defaults to the server Process priority, minus one.
TCP Name	Specifies the TCP/IP process name for this adjacent node.
Timeout	Specifies the time Sterling Connect:Direct waits for an I/O to complete. Sterling Connect:Direct generates an error when a communications does not complete in the specified time frame. Values for this parameter range from 1 to 30 minutes; the default is 3 minutes. Note: The TIMEOUT value automatically increases to 30 minutes during file open processing. This increase provides additional time for tape mounts.
Type	Identifies the communications protocol for the LU. Valid values for this parameter are as follows: <ul style="list-style-type: none"> ◆ SNA or SNA.S—Defines the LU as a secondary LU (SLU). Note: All SNA-type LUs require the LOGMODE parameter. <ul style="list-style-type: none"> ◆ NETEX—Defines the LU for transmissions using a NETEX interface. ◆ TCP.D—Identifies the LU as a dynamic LU using TCP/IP for connectivity. Dynamic LUs are started by Sterling Connect:Direct as needed and automatically stopped upon Process completion. ◆ TCP.S—Identifies the LU as a static LU using TCP/IP for connectivity. Static LUs are user-controlled and are quiesced and resumed with the MODIFY command.

Change an LU Entry

1. Access the LU Entry page (see *Select an LU Entry* on page 40).
2. Click  to select the node you want to change. The Change Node Entry page is displayed.

3. Change the desired fields. See *Add an LU Entry* on page 41 for field descriptions.
4. Click **Change Node**. A node entry changed message is displayed.
5. Click another function or your browser's **Back** button.

Delete an LU Entry

Perform the following procedure to delete a node from a Sterling Connect:Direct for z/OS or Sterling Connect:Direct for Microsoft Windows network map. This function is not available if you are signed on to a Sterling Connect:Direct for z/OS 4.2.00 system or a Sterling Connect:Direct for UNIX 3.4.00 system.

1. Access the LU Entry page (see *Select an LU Entry* on page 40).
2. Click **X** to select the node you want to delete. The Delete Netmap Entry Request page is displayed.
3. Click **Delete Netmap Entry**. A node entry deleted message is displayed.
4. Click another function or your browser's **Back** button.

Maintain Sterling Connect:Direct for HP NonStop API Managers

Refer to the following sections to maintain API managers for Sterling Connect:Direct for HP NonStop.

- ◆ Select an API Manager
- ◆ Add an API Manager
- ◆ Change an API Manager
- ◆ Delete an API Manager

For detailed information about API managers, see the *IBM Sterling Connect:Direct for HP NonStop Administration Guide*.

Select an API Manager

If you are signed on to a Sterling Connect:Direct for HP NonStop system, you can select an API Manager entry. Use the following procedure:



1. From the **Admin Functions** menu, select **Network Map**.
2. Click **Select API Mgrs**. The following information is displayed on the API Mgr Entry page:

Field	Description
API Mgr Name	Specifies the 1–16 alphanumeric character name of the API manager.

Field	Description
CPU	Identifies the HP NonStop central processing unit (CPU) where processing for the LU is initiated. If this parameter is not specified, the LU is assigned to the CPU running the HP NonStop command interpreter (TACL). <ul style="list-style-type: none"> ◆ cpu—Specifies the HP NonStop CPU where processing for the LU is initiated. ◆ list—Inserts multiple CPU numbers.
Pri	Defines the priority of the LU in the CPU in which it runs. Can facilitate load balancing.
Port Number	Specifies the TCP/IP port number used to communicate with the node.
TCP Name	Defines the TCP Processes used for outbound session initiation over the API managers related to the adjacent node record.

Add an API Manager

Perform the following procedure to add an API manager to a Sterling Connect:Direct for HP NonStop network map.


1. Access the API Mgr Entry page (see *Select an API Manager* on page 43).
2. Click  at the top of the page for a blank New Node API Manager page, or click  preceding an API manager name for a New API Manager Entry page based on that API manager's information.
3. Type a **name** for this API manager.
4. Complete the remaining fields on this page.

The following table summarizes the field entries. For more detailed information about these fields, see the *IBM Sterling Connect:Direct for HP NonStop Administration Guide*.

Field	Description
API Mgr Name	Specifies the 1–25 character name of the API manager to be inserted into the network map. Inserts one API manager record with each INSERT NETMAP AMGR command.
CPU	Identifies the HP NonStop central processing unit (CPU) where processing for the LU is initiated. If this parameter is not specified, the LU is assigned to the CPU running the HP NonStop command interpreter (TACL). <ul style="list-style-type: none"> ◆ cpu—Specifies the HP NonStop CPU where processing for the LU is initiated. Values range from 0–15 and are dependent on your HP NonStop system. ◆ list—Inserts multiple CPU numbers. Enclose the list in parentheses, and separate each value with a space or comma (,).
Highpin	Specifies whether the session manager runs as a high-PIN Process. The default for high-PIN Processing is ON.
Port Num	Identifies the communications port that is monitored for connection requests. The default is 1364. This parameter is valid only for TCP/IP connectivity.


Field	Description
Pri	Defines the priority of the LU in the CPU in which it runs. Can facilitate load balancing. Values range from 1–199. If left blank, the LU defaults to the server Process priority, minus one.
TCP Name	Specifies the TCP/IP process name for this adjacent node.
Timeout	Specifies the time Sterling Connect:Direct waits for an I/O to complete. Connect:Direct generates an error when a communications does not complete in the specified time frame. Values for this parameter range from 1 to 30 minutes; the default is 3 minutes. Note: The TIMEOUT value automatically increases to 30 minutes during file open processing. This increase provides additional time for tape mounts.

Change an API Manager

1. Access the API Mgr Entry page (see *Select an API Manager* on page 43).
2. Click  to select the node you want to change. The Change Node Entry page is displayed.
3. Change the desired fields. See *Add an API Manager* on page 44 for field descriptions.
4. Click **Change Node**. A node entry changed message is displayed.
5. Click another function or your browser's **Back** button.

Delete an API Manager

Perform the following procedure to delete a node from a Sterling Connect:Direct for z/OS or Sterling Connect:Direct for Microsoft Windows network map. This function is not available if you are signed on to a Sterling Connect:Direct for z/OS 4.2.00 system or a Sterling Connect:Direct for UNIX 3.4.00 system.

1. Access the API Mgr Entry page (see *Select an API Manager* on page 43).
2. Click  to select the node you want to delete. The Delete Netmap Entry Request page is displayed.
3. Click **Delete Netmap Entry**. A node entry deleted message is displayed.
4. Click another function or your browser's **Back** button.

Maintain Sterling Connect:Direct for HP NonStop Relations

Refer to the following sections to maintain Sterling Connect:Direct for HP NonStop Relations:

- ◆ Relate Adjacent Nodes to LUs in Sterling Connect:Direct for HP NonStop
- ◆ Relate Adjacent Nodes to API Managers in Sterling Connect:Direct for HP NonStop
- ◆ Delete LU Relations from Adjacent Nodes in Sterling Connect:Direct for HP NonStop

- ◆ Delete API Manager Relations from Adjacent Nodes in Sterling Connect:Direct for HP NonStop

For detailed information about relations, see the *IBM Sterling Connect:Direct for HP NonStop Administration Guide*.

Relate Adjacent Nodes to LUs in Sterling Connect:Direct for HP NonStop

Perform the following procedure to relate LUs to adjacent nodes in a Sterling Connect:Direct for HP NonStop network map.

1. From the **Admin Functions** menu, select **Network Map**.
2. Click **Relate LUs** to display the Relate Netmap page.
3. In the Nodes column, select the adjacent nodes to relate. **Shift-click** or **Control-click** to select multiple nodes. You must select at least one node.
4. In the LUs column, select the LUs to relate to the adjacent nodes in step 4. **Shift-click** or **Control-click** to select multiple LUs. You must select at least one LU.
5. Click **Relate Nodes to LUs**.

Relate Adjacent Nodes to API Managers in Sterling Connect:Direct for HP NonStop

Perform the following procedure to relate adjacent nodes to API managers in a Sterling Connect:Direct for HP NonStop network map.

1. From the **Admin Functions** menu, select **Network Map**.
2. Click **Relate Nodes to API Mgrs** to display the Relate Netmap page.
3. In the Nodes column, select the adjacent nodes to relate. **Shift-click** or **Control-click** to select multiple nodes. You must select at least one node.
4. In the API Mgrs column, select the API managers to relate to the adjacent nodes in step 4. **Shift-click** or **Control-click** to select multiple API managers. You must select at least one API manager.
5. Click **Relate Nodes to API Mgrs**.

Delete LU Relations from Adjacent Nodes in Sterling Connect:Direct for HP NonStop

Perform the following procedure to delete the relationship between LUs and adjacent nodes in a Sterling Connect:Direct for HP NonStop network map.

1. From the **Admin Functions** menu, select **Network Map**.
2. Click **Netmap**.
3. Click **Relate LUs** to display the Relate Netmap page.
4. In the Nodes column, select the adjacent nodes to that you want to delete a relationship from. **Shift-click** or **Control-click** to select multiple nodes. You must select at least one node.
5. In the LUs column, select the LUs to delete from the adjacent nodes in step 4. **Shift-click** or **Control-click** to select multiple LUs. You must select at least one LU.
6. Click **Delete Node to LU Relations**


Delete API Manager Relations from Adjacent Nodes in Sterling Connect:Direct for HP NonStop

Perform the following procedure to delete the relationship between adjacent nodes and API managers in a Sterling Connect:Direct for HP NonStop network map.

1. From the **Admin Functions** menu, select **Network Map**.
2. Click **Relate API Mgrs** to display the Relate Netmap page.
3. In the Nodes column, select the adjacent nodes that you want to delete a relationship from. **Shift-click** or **Control-click** to select multiple nodes. You must select at least one node.
4. In the API Mgrs column, select the API managers to delete from adjacent nodes in step 4. **Shift-click** or **Control-click** to select multiple API managers. You must select at least one API manager.
5. Click **Delete Node to API Mgr Relations**.

Export a Network Map Node Entry

Use the following procedure to export a network map. If you export a network map node entry from one platform and export the same network map node entry from another platform, the information is combined into a single file. You can then import this to any platform supported by Sterling Connect:Direct Browser User Interface.


1. Access the Node Entry page as described in *Select a Network Map Node* on page 19.
2. Click  to select the node you want to export. The Node Entry Export Message page is displayed.
3. The node information is stored as follows:

```
<installation>\work\Jetty__8080__cdbrowser\webapp\property\netmap_node\  
nodename
```

where *<installation>* is the directory where Sterling Connect:Direct Browser User Interface is installed and *nodename* is the name of the node you exported.

Import a Network Map Node Entry

Use the following procedure to import a network map node entry.

1. Access the Node Entry page as described in *Select a Network Map Node* on page 19.
2. Select a file to import from the drop-down list and click  to import a node entry. The Add New Node Entry page is displayed.
3. Update the information you want to change.
4. Click **Add New Node**. A node entry added message is displayed.

Viewing and Changing Initialization Parameters

Initialization parameters determine various Sterling Connect:Direct settings that control system operation. They are established when Sterling Connect:Direct is installed, and can be changed as needed.

The **Initialization Parameters** function allows you to:

- ◆ View Initialization Parameters
- ◆ Change Initialization Parameters (Sterling Connect:Direct for Microsoft Windows and Sterling Connect:Direct for UNIX only)

These tasks are described in the following sections.

View Sterling Connect:Direct Initialization Parameters on page 49

Change Sterling Connect:Direct Initialization Parameters on page 50

View Sterling Connect:Direct Initialization Parameters

Perform the following procedure to view Sterling Connect:Direct initialization parameters. This function is not available if you are signed on to a Sterling Connect:Direct for UNIX 3.4.00 system, or a Sterling Connect:Direct for z/OS 4.2.00 system.

1. From the **Admin Functions** menu, select **Initialization Parameters**.
2. If you are signed on to a Sterling Connect:Direct/Plex system, the Sterling Connect:Direct/Manager initialization parameters are displayed. To see parameters for a specific Sterling Connect:Direct server, type the server name in the Server field and click **Refresh Display**.

The Server field is only displayed if you are signed on to a Sterling Connect:Direct/Plex system.

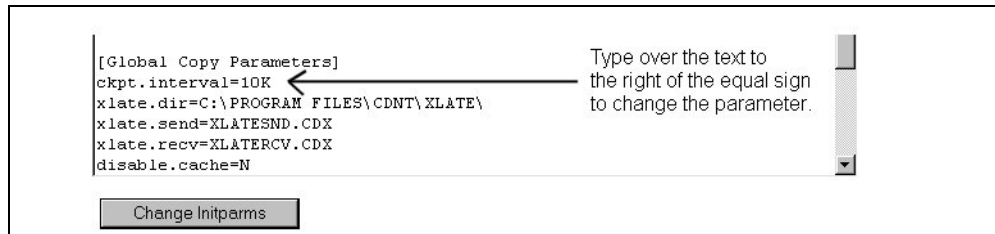
See the Sterling Connect:Direct platform's administration guide for initialization parameters descriptions.

3. Click another function or your browser's **Back** button when finished.

Change Sterling Connect:Direct Initialization Parameters

Perform the following procedure to change initialization parameters when signed on to a Sterling Connect:Direct for Microsoft Windows or Sterling Connect:Direct for UNIX system. This function is not available if you are signed on to a Sterling Connect:Direct for z/OS system or Sterling Connect:Direct for HP NonStop system.

1. From the **Admin Functions** menu, select **Initialization Parameters**.
2. Scroll to the initialization parameter you want to change.
3. Replace the existing value by typing over it. Do not replace any text to the left of the equal sign, as shown in the following example:



For a description of Sterling Connect:Direct for UNIX initialization parameters, see the *IBM Sterling Connect:Direct for UNIX Administration Guide*.

For a description of Sterling Connect:Direct for Microsoft Windows initialization parameters, see the *IBM Sterling Connect:Direct for Microsoft Windows System Guide*.

4. Click **Change Initparms**.

The initialization parameters are updated when Sterling Connect:Direct is restarted.

Viewing and Updating User Authorities

User authorities specify what Sterling Connect:Direct functions a specific Sterling Connect:Direct for z/OS, UNIX, Microsoft Windows, or HP NonStop user ID can perform. For example, you can specify that the user can submit or change a Process.

All user IDs must have a user authority defined. (In a Sterling Connect:Direct for Microsoft Windows or Sterling Connect:Direct for UNIX system, a local user ID can be mapped to a remote user ID to give remote users proxy access to the local Sterling Connect:Direct node. See Chapter 6, *Viewing and Updating User Proxies* for more information on user proxies.)

For more information about Sterling Connect:Direct user authorities, see one of the following documents:

- ◆ *Sterling Connect:Direct for z/OS Administration Guide*
- ◆ *Sterling Connect:Direct for Microsoft Windows System Guide*
- ◆ *Sterling Connect:Direct for UNIX Administration Guide*
- ◆ *Sterling Connect:Direct for HP NonStop Administration Guide*

This chapter describes how to:

- ◆ Select a User Authority
- ◆ Add a User Authority
- ◆ View User Authority Details
- ◆ Change a User Authority
- ◆ Delete a User Authority





Select a User Authority

Perform the following procedure to select a Sterling Connect:Direct user authority. After you select an authority you can then add, change, or delete the authority, or view authority details.

1. From the **Admin Functions** menu, select **User Authority**.

The User Name/User ID specifies the user name or user ID that identifies the user authority.

Click one of the following icons to perform an action on a record.

Icon	Description
	Click to add a new user authority. See <i>Add a User Authority</i> on page 52 for more information.
	Click to change a user authority. See <i>Change a User Authority</i> on page 54 for more information.
	Click to delete a user authority. See <i>Delete a User Authority</i> on page 55 for more information.
	Click to display detailed user authority information. See <i>View User Authority Details</i> on page 54 for more information.



Add a User Authority

This section describes how to add a new Sterling Connect:Direct user authority.

Because the user authority information varies depending on the Sterling Connect:Direct platform, the procedures for adding a user authority to a Sterling Connect:Direct for z/OS system, a Sterling Connect:Direct for HP NonStop system, or a Sterling Connect:Direct for UNIX or Microsoft Windows system are different.

Add a User Authority to a Sterling Connect:Direct for z/OS System

To add a user authority to a Sterling Connect:Direct for z/OS system:

1. Access the Select User Authority Results page (see *Select a User Authority* on page 51).
2. Click  at the top of the page for a blank Add New User Authority page, or click  preceding a user ID for an Add New User Authority page based on that user's information.
3. Type a 1–64 character Sterling Connect:Direct user ID.
4. Type the Sterling Connect:Direct node that the user signs on to.
5. Type an optional 1–20 character string that specifies the full name of the user. Spaces are allowed.
6. Type an optional phone number for the user.
7. Type the user's Sterling Connect:Direct password.
8. Type the user's Sterling Connect:Direct password again to verify it.
9. If the user's location has a security subsystem such as RACF, type the security ID used by that subsystem.
10. If you supplied a security ID in step 9, type the password required by the security subsystem.

11. Type the user's security ID password again to verify it.
12. Type the maximum number of hourly logon attempts for the user.
13. If you use a Stage 2 security exit, specify the values required for the exit to rewrite a RACF PassTicket password. See the Glossary for more information.
14. Select the functions that this user can perform. See *Sterling Connect:Direct for z/OS User Authority Functions* on page 81 for a list of functions.
15. Click **Add New User Auth**. The user authority definition is added to the system.



Add a User Authority to a Sterling Connect:Direct for HP NonStop System

You cannot add a user authority to a Sterling Connect:Direct for HP NonStop system using the Sterling Connect:Direct Browser User Interface. You must add the user directly to the Sterling Connect:Direct for HP NonStop system and log on to NDMCOM using the new user ID. Refer to the *IBM Sterling Connect:Direct for HP NonStop Administration Guide* for information.

After the user is added to the Sterling Connect:Direct for HP NonStop system and initially logged on to NDMCOM the new user ID can sign on to the Sterling Connect:Direct Browser User Interface.


Add a User Authority to a Sterling Connect:Direct for UNIX or Microsoft Windows System

Perform the following procedures to add a user authority to a Sterling Connect:Direct for UNIX or Microsoft Windows system:

1. Access the Select User Authority Results page (see *Select a User Authority* on page 51).
2. Click  at the top of the page for a blank Add New User Authority page, or click  preceding a user ID for an Add New User Authority page based on that user's information.
3. Type a 1–50 character name for the new user. Spaces are not allowed.
4. Select the functions that this user can perform. See *Sterling Connect:Direct for UNIX and Microsoft Windows User Authority Functions* on page 83 for a list of functions.
5. Steps 5 through 8 describe fields restricting the directories from which a user can upload and download files, submit Processes, or run programs. If you do not specify a restriction, the user can perform these functions from any directory that he or she can access.
6. Type a fully qualified path name for the upload directory that the user can copy files from and use as a source directory.
7. Type a fully qualified path name for the download directory that the user can copy files to and use as a destination directory.
8. Type a fully qualified path name for the Process directory that the user can submit a Process from.
9. Type a fully qualified path name for the program directory that the user can submit programs from.
10. Click **Add New User Auth** when complete. The user authority definition is added to the system.

View User Authority Details

Perform the following procedure to view user authority details.




1. Access the Select User Authority Results page as described in *Select a User Authority* on page 51.
2. Click  for the node you want to see.

See *Add a User Authority to a Sterling Connect:Direct for z/OS System* on page 52 for field descriptions for a Sterling Connect:Direct for z/OS user authority.

See *Add a User Authority to a Sterling Connect:Direct for HP NonStop System* on page 53 for field descriptions for a Sterling Connect:Direct for HP NonStop user authority.

See *Add a User Authority to a Sterling Connect:Direct for UNIX or Microsoft Windows System* on page 53 for field descriptions for a Sterling Connect:Direct for UNIX or Microsoft Windows user authority.


3. Click one of the following icons to perform an action on a record.

Icon	Description
	Click to add a new user authority. See <i>Add a User Authority</i> on page 52 for more information.
	Click to change a user authority. See <i>Change a User Authority</i> on page 54 for more information.
	Click to delete a user authority. See <i>Delete a User Authority</i> on page 55 for more information.

4. Click another function or your browser's **Back** button when finished.

Change a User Authority

Perform the following procedure to change a Sterling Connect:Direct user authority.

1. Access the Select User Authority Results page as described in *Select a User Authority* on page 51.
2. Click  to select the user authority you want to change. The Change User Authority Entry page is displayed.
3. Change the desired fields.

See *Add a User Authority to a Sterling Connect:Direct for z/OS System* on page 52 for field descriptions for a Sterling Connect:Direct for z/OS user authority.

See *Add a User Authority to a Sterling Connect:Direct for HP NonStop System* on page 53 for field descriptions for a Sterling Connect:Direct for HP NonStop user authority.

See *Add a User Authority to a Sterling Connect:Direct for UNIX or Microsoft Windows System* on page 53 for field descriptions for a Sterling Connect:Direct for Microsoft Windows user authority.

4. Click **Change User Auth**. A user authority changed message is displayed.
5. Click another function or your browser's **Back** button.

Delete a User Authority

Perform the following procedure to delete a Sterling Connect:Direct user authority.

1. Access the Select User Authority Results page as described in *Select a User Authority* on page 51.
2. Click **X** to select the user authority you want to delete. The Delete User Authority Entry page is displayed.
3. Click **Delete User Auth**. A user authority deleted message is displayed.
4. Click another function or your browser's **Back** button.

Viewing and Updating User Proxies

User proxies define a relationship between a user ID at a remote Sterling Connect:Direct node and a local user ID on a Sterling Connect:Direct for UNIX, HP NonStop, and Microsoft Windows system. This allows remote Sterling Connect:Direct users to submit Processes from their nodes without needing individual user IDs and passwords on the Sterling Connect:Direct system. Several proxies can use the same local user ID account. In Sterling Connect:Direct for HP NonStop, the term **Sec** means the same as proxy.

The user proxy definition contains the following remote user information:

- ◆ Remote Sterling Connect:Direct user ID and remote Sterling Connect:Direct node name. You can also set a generic user ID <ANY USER> and node name <ANY NODE> to allow all remote users to connect through one proxy.
- ◆ Local user ID and password to use with submitted Processes from the remote node. Sterling Connect:Direct for HP NonStop does not use password with proxies.
- ◆ Any directory restrictions for Sterling Connect:Direct operations. Sterling Connect:Direct for HP NonStop does have directory restrictions.

For more information about user proxies, see the *IBM Sterling Connect:Direct for Microsoft Windows System Guide*, the *Sterling Connect:Direct for UNIX Administration Guide*, or the *Sterling Connect:Direct for HP NonStop Administration Guide*.

To use the user proxy functions you must have the necessary Sterling Connect:Direct for Microsoft Windows authority. This function is not available if you are signed on to a Sterling Connect:Direct for z/OS system.

This chapter describes how to:

- ◆ Select a User Proxy
- ◆ Add a User Proxy
- ◆ View User Proxy Details
- ◆ Change a User Proxy
- ◆ Delete a User Proxy

Select a User Proxy





Perform the following procedure to select a Sterling Connect:Direct user proxy. After you select a proxy you can then add a new user proxy, change a user proxy, view user proxy details, or delete a user proxy.

1. From the **Admin Functions** menu, select **Proxy**.

The following information is displayed on the Select Proxies Results page.



Field	Description
Remote User	Specifies the user ID on the remote node.
Remote Node	Specifies the name of the remote node.
Local User	Specifies the local user ID that the remote user is mapped to. The remote user has the same functional authorities granted to this local user ID.

Click one of the following icons to perform an action on a record.

Icon	Description
	Click to add a new user proxy. See <i>Add a User Proxy</i> on page 58 for more information.
	Click to change a user proxy. See <i>Change a User Proxy</i> on page 60 for more information.
	Click to delete a user proxy. See <i>Delete a User Proxy</i> on page 61 for more information.
	Click to display detailed user proxy information. See <i>View User Proxy Details</i> on page 60 for more information.

Add a User Proxy

Perform the following procedures to add a Sterling Connect:Direct for UNIX, Microsoft Windows, or HP NonStop user proxy:

1. Access the Select Proxies Results page (see *Select a User Proxy* on page 58).
2. Click the  at the top of the page for a blank Add New Proxy Entry page, or click the  preceding a remote user ID for an Add New Proxy Entry page based on that user's information.

3. Type a Sterling Connect:Direct user ID for the user on the remote Sterling Connect:Direct node. This can be any valid Sterling Connect:Direct user ID. You can also specify <ANYUSER> to create a generic remote user ID.
4. Type the name of the remote node that this user submits work from. You can specify <ANYNODE> to create a generic remote node.
5. Type the local user ID to associate with the remote ID. This must be a valid Sterling Connect:Direct user ID. Remote users have the functional authorities granted to this local user ID.
6. Type a valid Sterling Connect:Direct local user password.
7. Type the password again to verify it.
8. Select one of the following Upload options for UNIX and Microsoft Windows systems:

Option	Description
Yes	Grants the remote user authority to submit copy Process steps.
No	Denies the remote user authority to submit copy Process steps.
User	Tells the proxy to use the Upload value from the local user authority that the proxy is mapped to.

9. Select one of the following Download options for UNIX and Microsoft Windows systems:


Option	Description
Yes	Grants the remote user authority to receive copy Process steps.
No	Denies the remote user authority to receive copy Process steps.
User	Tells the proxy to use the Download value from the local user authority that the proxy is mapped to.




The remaining fields on this page restrict the directories from which a remote user can upload and download files, submit Processes, or run programs. If you do not specify any restriction, the remote user can perform these functions from any directory that he or she can access.

10. For UNIX and Microsoft Windows systems, type a fully qualified path name for the Upload directory that the remote user can copy files from and use as a source directory.
11. For UNIX and Microsoft Windows systems, type a fully qualified path name for the Download directory that the remote user can copy files to and use as a destination directory.
12. For UNIX and Microsoft Windows systems, type a fully qualified path name for the Process directory that the remote user can submit a Process from.
13. For UNIX and Microsoft Windows systems, type a fully qualified path name for the Program directory that the remote user can submit programs from.
14. Click **Add New Proxy** to add the user proxy.

View User Proxy Details

To view Sterling Connect:Direct for Microsoft Windows or Sterling Connect:Direct for HP NonStop user proxy details:


1. Access the Select Proxies Results page as described in *Select a User Proxy* on page 58.
2. Click  for the proxy you want to see.
See *Add a User Proxy* on page 58 for field descriptions.
3. Click the navigational symbols to move through the records, or click one of the following icons:.

Icon	Description
	Click to add a new user proxy. See <i>Add a User Proxy</i> on page 58 for more information.
	Click to change a user proxy. See <i>Change a User Proxy</i> on page 60 for more information.
	Click to delete a user proxy. See <i>Delete a User Proxy</i> on page 61 for more information.

4. Click another function or your browser's **Back** button when finished.

Change a User Proxy

To change a Sterling Connect:Direct for UNIX, Microsoft Windows, or HP NonStop user proxy:

1. Access the Select Proxies Results page as described in *Select a User Proxy* on page 58.
2. Click  to select the user proxy you want to change. The Change Proxy Entry page is displayed.
3. Change the desired fields.
See *Add a User Proxy* on page 58 for field descriptions.
4. Click **Change Proxy**. A proxy changed message is displayed.
5. Click another function or your browser's **Back** button.

Delete a User Proxy

To delete a Sterling Connect:Direct for UNIX, Microsoft Windows, or HP NonStop user proxy:

1. Access the Select Proxies Results page as described in *Select a User Proxy* on page 58.
2. Click **X** to select the user proxy you want to delete. The Delete Proxy Entry page is displayed.
3. Click **Delete Proxy** to delete the user proxy. A proxy deleted message is displayed.
4. Click another function or your browser's **Back** button.

Issuing Native Commands

The native commands function allows you to issue Sterling Connect:Direct for z/OS and Sterling Connect:Direct for HP NonStop commands in native command format, just as if you were issuing them from a command line, and receive a response in a report format. For Sterling Connect:Direct for z/OS, this function is only available for users signed on to a 4.3.00 or later system with the latest maintenance.

For information about Sterling Connect:Direct for z/OS command formats and reports, see the *IBM Sterling Connect:Direct for z/OS User's Guide* or *IBM Sterling Connect:Direct for z/OS Quick Reference*.

For information about Sterling Connect:Direct for HP NonStop command formats and reports, see the *IBM Connect:Direct HP NonStop Administration Guide* or *IBM Connect:Direct HP NonStop Installation Guide*.

To issue a native Sterling Connect:Direct for z/OS or Connect:Direct HP NonStop command:

1. From the **Admin Functions** menu, select **Native Command**.
2. Type the Sterling Connect:Direct command. For example, type the following command to flush all Processes submitted by a user ID SMITH on the DALLAS node:

```
FLUSH PROC WHERE (SUB=(DALLAS, SMITH))
```

3. Select if the command is case-sensitive.
4. Click **Submit Native Command**.

The command is issued to the Sterling Connect:Direct for z/OS or Sterling Connect:Direct for HP NonStop system, where it is checked for syntax. If the command syntax is incorrect, an error message is displayed on the browser. Correct the syntax and resubmit the command.

If the command syntax is correct, the browser displays the results.

5. Modify the command as necessary and resubmit, or click **Clear Native Command** to clear the command and enter a new one.

Viewing and Updating Typekeys

The typekey function enables you to define the file attributes for new files on Sterling Connect:Direct for HP NonStop systems. These attributes are used when you specify a particular typekey as part of a COPY statement in a Process. Type records are useful when you are not familiar with file allocation parameters at other nodes. For more information about Sterling Connect:Direct typekeys, see the *IBM Sterling Connect:Direct for HP NonStop Administration Guide*.

This chapter describes the following tasks:

- ◆ Select a Typekey
- ◆ Add a Typekey
- ◆ View Typekey Details
- ◆ Change a Typekey
- ◆ Delete a Typekey

Select a Typekey





Perform the following procedure to select a Sterling Connect:Direct user typekey. After you select a typekey you can then add a new user typekey, change a user typekey, view user typekey details, or delete a user typekey.

From the **Admin Functions** menu, select **Typekey**. The following information is displayed on the Select Typekey Results page.

Field	Description
Name	Specifies the 1–8 alphanumeric character typekey of the records you are adding. The first character must be alphabetic.
File Code	Specifies the file code. Values range from 0–65,535, inclusive. The default is 0.



Field	Description
File Type	<p>Specifies the file type. Values include:</p> <ul style="list-style-type: none"> ◆ U or 0—Unstructured file ◆ R or 1—Relative file ◆ E or 2—Entry-sequenced file ◆ K or 3—Key-sequenced file
Odd Unstr	Specifies no upward rounding if an odd byte count occurs.
Record Length	<p>Specifies the length of the records. The default is 80.</p> <p>For relative and entry-sequenced files, values range from 1 to 4072.</p> <p>For key-sequenced files, values range from 1 to 4062.</p> <p>Note: RECLLEN is not valid when the destination file is unstructured.</p> <p>Note: If you are using the HP NonStop BIG FILE format, the maximum record length can be reduced by approximately 32–40 bytes. This restriction is effective starting with NSK Release D46+.</p>
Data Block Length	Specifies the data block length. Values range from 1 to 4096 inclusive. The default is 4096.

Click one of the following icons to perform an action on a record.

Icon	Description
	Click to add a new user typekey. See <i>Add a Typekey</i> on page 66 for more information.
	Click to change a user typekey. See <i>Change a Typekey</i> on page 71 for more information.
	Click to delete a user typekey. See <i>Delete a Typekey</i> on page 71 for more information.
	Click to display detailed user typekey information. See <i>View Typekey Details</i> on page 70 for more information.

Add a Typekey

Perform the following procedures to add a Sterling Connect:Direct for HP NonStop typekey:

1. Access the Select Typekey Results page (see *Select a Typekey* on page 65).
2. Click the  at the top of the page for a blank Add New Typekey Entry page, or click the  preceding a remote user ID for an Add New Typekey Entry page based on that user's information.

3. Complete the fields on this page.

The following table summarizes the field entries. For more detailed information about these fields, see the *IBM Sterling Connect:Direct for HP NonStop Administration Guide*.

Field	Description
Typekey Name	Specifies the 1–8 alphanumeric character typekey of the records you are adding. The first character must be alphabetic.
Alt Create	Specifies whether automatic alternate-key files are created. The default is Yes.
Alt File	Specifies the file number and name of an alternate-key file. Use the format: <i>key.file.number, file.name</i> where: <ul style="list-style-type: none"> ◆ <i>key.file.number</i>—An integer from 0–255. The default is 0. ◆ <i>file.name</i>—The name of the alternate-key file for the <i>key-file-number</i>.
Alt Key	Specifies an alternate key. <i>key-specifier</i> is a two-byte value that uniquely identifies the alternate-key field. <p>FILE—Specifies the key file number, where <i>key.file.number</i> is from 0–255, inclusive. The default is 0.</p> <p>KEYLEN—Specifies the length of the key. This parameter is required to create a key-sequenced file.</p> <p>KEYOFF—Specifies the offset for the key. The default is 0.</p> <p>NULL—Specifies the null value set for the key. Valid entries are an ASCII character in quotation marks or an integer ranging from 0–255.</p> <p>[NO]UNIQUE—Specifies whether the key is unique. The default is NOUNIQUE.</p> <p>[NO]UPDATE—Specifies whether automatic updating is set for the alternate-key file. The default is UPDATE.</p>
Serial Writes	Specifies whether serial or parallel mirror writes occur at file open. The default is No, which results in parallel mirror writes at file open.
Verified Writes	Specifies whether disk writes are verified. The default is No.
Audit Compress	Specifies whether auditing mode generates entire before and after messages or compresses before and after messages. The default is No.
Compress	Specifies whether keys are compressed in both index and data blocks. In data blocks, the key offset must be 0, and the maximum record size is reduced by 1 byte. The default is No.
Buffered	Specifies the mode of handling write requests. To buffer write requests into the disk-process cache, specify Yes. The default for audited files is buffered. The default for nonaudited files is No.
DCompress	Specifies whether keys are compressed in data blocks. The key offset must be 0, and the maximum record size is reduced by 1 byte. The default is No.
ICompress	Specifies whether keys are compressed in index blocks. The default is No.
Buffer Size	Specifies the size in bytes of the internal buffer used when accessing an unstructured file. Values range from 1–4096, inclusive. The default is 4096.

Field	Description
Max Extents	Specifies the maximum number of extents for the file. Values range from 16–n, where n is the maximum value determined by the amount of free space remaining in the file label. The default is 16, and the maximum value allowed is 978. For partitioned files, this value is always 16.
Record Length	Specifies the length of the records. The default is 80. For relative and entry-sequenced files, values range from 1 to 4072. For key-sequenced files, values range from 1 to 4062. Note: RECLEN is not valid when the destination file is unstructured. Note: If you are using the HP NonStop BIG FILE format, the maximum record length can be reduced by approximately 32–40 bytes. This restriction is effective starting with NSK Release D46+.
Data Block Length	Specifies the data block length. Values range from 1 to 4096 inclusive. The default is 4096.
Key Length	Specifies the primary-key length. Values range from 1–255, inclusive. You must specify this parameter to create key-sequenced files.
Key Offset	Specifies the primary-key offset. Values range from 0–2034, inclusive. The default is 0.
Odd Unstr	Specifies no upward rounding if an odd byte count occurs.
Part	Specifies secondary partition specifications for partitioned files. Use the format: <i>sec.partition.num \system.name.\$volume.name pri.ext.size partial.key.value</i> where: sec.partition.num—Specifies a 1–15 character integer that designates the secondary partition. \system.name.\$volume—Specifies the names of the system and volume to contain the partition. pri.ext.size—Specifies the primary extent size. sec.ext.size—Specifies the secondary extent size. partial.key.value—Specifies the lowest key value that can reside in the partition. This value is only for key-sequenced files. Valid entries include the following: <ul style="list-style-type: none"> ◆ A string of characters enclosed in double quotation marks ◆ A list of single characters, each enclosed in double quotation marks and separated by a comma. ◆ Integers representing byte values, from 0–255, and each separated by a comma.
Part Only	Specifies whether subsequent file creations create all partitions of a partitioned file or only a single partition. The default is No.


Field	Description
Xlate	<p>Specifies whether the file being transferred is converted from ASCII to EBCDIC or from EBCDIC to ASCII.</p> <p>If you specify XLATE ON or XLATE YES or you are copying a spooler file or an edit file (unstructured file, code 101), Connect:Direct checks the XLFILE for a table named DEFAULT. If the DEFAULT table is not in XLFILE, the internal English language ASCII/EBCDIC translation table is used.</p> <p>If you are transferring a binary file, set XLATE-NO.</p> <p>Refer to <i>Defining Character Translation Tables</i> in the <i>IBM Sterling Connect:Direct for HP NonStop Administration Guide</i> for details on invoking the translation table utility and defining alternative translation tables.</p> <p>Note: Do not specify XLATE when you are copying a spooler file or an edit file (unstructured file, code 101). Connect:Direct automatically translates these files.</p> <p>ON YES—Converts text from ASCII to EBCDIC or EBCDIC to ASCII, depending on the copy direction.</p> <p>OFF NO—Prevents text conversion during file transfer.</p> <p>table-name—A 1–8 character name of a user-defined translation table.</p>
Fast Load	<p>Invokes the FASTLOAD facility. FASTLOAD is a function that can reduce disk I/O overhead and is valid when the HP NonStop node is the destination. With FASTLOAD, Sterling Connect:Direct passes data through SPI to FUP to load into a destination data file. The feature is particularly useful for key-sequenced files, although FASTLOAD is also supported for entry-sequenced and relative record files. Because edit files are unstructured, they cannot be loaded using the FASTLOAD feature.</p>
Fast Load Sorted	<p>Sets FASTLOAD on and indicates to FUP that the data is sorted. This option, valid only for key-sequenced files, bypasses invocation of FASTSORT by FUP. The default is NO; that is, the data is not assumed to be sorted and FASTSORT is called.</p>
Fast Load CPU	<p>Sets FASTLOAD on and specifies the CPU to use to run FUP. cpunumber can range from 0–15. The default CPU is the CPU of NDMSMGR. SPACE overrides the specified CPU number in the typekey. If SPACE is specified, FUP runs on the same CPU on which NDMSMGR is currently running. This is only valid for the UPDATE TYPE command.</p>
Fast Load Pri	<p>Sets FASTLOAD on and specifies the priority to run FUP. Valid values for priority range from 1 to 199. The default priority is the priority of NDMSMGR. Set this priority higher than that for NDMSMGR.</p>
Audit	<p>Specifies whether the Transaction Monitoring Facility (TMF) audits the file. The default is No.</p>
Code	<p>Specifies the file code. Values range from 0–65,535, inclusive. The default is 0.</p>
Extent Size	<p>Specifies the size of the extents. Use one of the following:</p> <ul style="list-style-type: none"> ◆ extent.size—Specifies the extent size. The default is 1 page (2048 bytes). ◆ pri.ext.size,sec.ext.size—Specifies the sizes of the primary and secondary extents. The default is 1,1 pages.




Field	Description
Like Filename	Sets file attributes to correspond to the specified file name.
Like Type	Sets file attributes to correspond to the specified type record.
File Type	Specifies the file type. Values include: <ul style="list-style-type: none"> ◆ U or 0—Unstructured file ◆ R or 1—Relative file ◆ E or 2—Entry-sequenced file ◆ K or 3—Key-sequenced file
Refresh	Specifies whether the file label is copied to disk each time the file control block is marked as <i>dirty</i> (changed). The default is No.

4. Click **Add New Typekey** to add the user typekey.

View Typekey Details

To view Sterling Connect:Direct for HP NonStop user typekey details:


1. Access the Select Typekey Results page as described in *Select a Typekey* on page 65.
2. Click  for the typekey you want to see.
See *Add a Typekey* on page 66 for field descriptions.
3. Click the navigational symbols to move through the records, or click one of the following icons:.

Icon	Description
	Click to add a new user typekey. See <i>Add a Typekey</i> on page 66 for more information.
	Click to change a user typekey. See <i>Change a Typekey</i> on page 71 for more information.
	Click to delete a user typekey. See <i>Delete a Typekey</i> on page 71 for more information.

4. Click another function or your browser's **Back** button when finished.


Change a Typekey

To change a Sterling Connect:Direct for HP NonStop user typekey:

1. Access the Select Typekey Results page as described in *Select a Typekey* on page 65.
2. Click  to select the user typekey you want to change. The Change Typekey Entry page is displayed.
3. Change the desired fields.
See *Add a Typekey* on page 66 for field descriptions.
4. Click **Change Typekey**. A typekey changed message is displayed.
5. Click another function or your browser's **Back** button.

Delete a Typekey

To delete a Sterling Connect:Direct for HP NonStop user typekey:

1. Access the Select Typekey Results page as described in *Select a Typekey* on page 65.
2. Click  to select the user typekey you want to delete. The Delete Typekey Entry page is displayed.
3. Click **Delete Typekey** to delete the user typekey. A typekey deleted message is displayed.
4. Click another function or your browser's **Back** button.

Delete a Typekey

Running Traces

The trace function enables you to run diagnostic traces to troubleshoot operational problems. To use the trace function you must have Sterling Connect:Direct authority to run traces. You cannot run traces on Sterling Connect:Direct for HP NonStop systems.

This chapter describes the following tasks:

- ◆ Running Sterling Connect:Direct for z/OS Traces
- ◆ Running Sterling Connect:Direct for UNIX Traces
- ◆ Running Sterling Connect:Direct for Microsoft Windows Traces

Running Sterling Connect:Direct for z/OS Traces

Perform the following procedure to modify and run a Sterling Connect:Direct for z/OS trace. This function is only available to users signed on to a Sterling Connect:Direct for z/OS 4.3.00 or later system with the latest maintenance.

1. From the **Admin Functions** menu, select **Tracing**.
2. If you are signed on to a Sterling Connect:Direct/Plex system, a **Server** field is displayed. If you want to start the trace on a specific server, type the server name in this field and click **Refresh Display**. Otherwise, the trace is started on the Sterling Connect:Direct/Manager.

The **Server** field is only displayed if you are signed on to a Sterling Connect:Direct/Plex system.

3. Specify the trace in one of the following ways:
 - ◆ Type the 8-character trace debug value. See Appendix A, *Sterling Connect:Direct for z/OS Debug Values*, for a listing of debug values.
 - ◆ Click the trace options to change the individual debug bits as desired. Note that the output DD is displayed to the right of the related trace bit.
 - ◆ Click **All On** to turn all trace parameters on, or click **All Off** to turn all trace parameters off.

4. Select **Quiesce** to prevent new sessions from starting, **Resume** to resume sessions and allow new sessions as needed, or **Neither**, then type the name of any **nodes** where you want to suspend or resume processing. Separate the node names with a comma.
5. To turn tracing on or off for a specific node:
 - ◆ To turn on tracing for a specific node, type the node name in the Node Trace for field and type the debug value in the Debug field.
 - ◆ To turn off tracing for a specific node, type the node name in the Node Trace Off for field.
 The Current Node Trace field shows nodes currently being traced.
6. Click **Change Tracing** to change the tracing parameters and start the trace.

Running Sterling Connect:Direct for UNIX Traces

To modify and run a Sterling Connect:Direct for UNIX trace:

1. From the **Admin Functions** menu, select **Tracing**.

The trace types are displayed at the top of the page. They are:

Trace Type	Description
CMGR	Specifies a command manager trace that traces the interaction of the server with connected workstations and with the server console.
PGMR	Specifies a Process manager trace that traces the manipulation of Sterling Connect:Direct Processes. This includes submitting, updating, deleting, selecting for processing, and terminating Processes.
SMGR PNODE	Specifies a session manager trace that traces Sterling Connect:Direct Process execution and the interaction between the server and the Sterling Connect:Direct PNODE.
SMGR SNODE	Specifies a session manager trace that traces Sterling Connect:Direct Process execution and the interaction between the server and the Sterling Connect:Direct SNODE.
COMM	Specifies a communications trace that traces interaction with external communications facilities invoked from session manager threads and used to communicate with other Sterling Connect:Direct nodes.

2. Specify the tracing level for each type of trace. The trace levels are:

Level	Description
Full	Function entry and exit, function arguments, and values of internal data structures at key points in the execution flow are traced.

Level	Description
Intermediate	Function entry, function exit, and function arguments are traced.
Basic	Function entry and exit is traced.
Off	Tracing is turned off.

You can do one of the following:

- ◆ Select individual trace levels.
 - ◆ Click **Full Tracing** to set a Full tracing level for all traces.
 - ◆ Click **All Off** to turn off all tracing.
3. Type the fully qualified name of the file to receive the output for the type of trace you are running. The default is CDTRACE.CDT in the Sterling Connect:Direct for UNIX server directory.
 4. Click **Change Tracing** to change the parameters and start the trace.

Running Sterling Connect:Direct for Microsoft Windows Traces

To modify and run a Sterling Connect:Direct for Microsoft Windows trace:

1. From the **Admin Functions** menu, select **Tracing**.

The trace types are displayed at the top of the page. They are:

Trace Type	Description
CMGR	Specifies a command manager trace that traces the interaction of the server with connected workstations and with the Microsoft Windows server console.
PGMR	Specifies a Process manager trace that traces the manipulation of Sterling Connect:Direct Processes. This includes submitting, updating, deleting, selecting for processing, and terminating Processes.
MAIN	Specifies a main trace that traces initialization and termination activity.
STAT	Specifies a statistics traces that traces statistics thread activity.
SMGR	Specifies a session manager trace that traces Sterling Connect:Direct Process execution and the interaction between the server and other Sterling Connect:Direct nodes.
COMM	Specifies a communications trace that traces interaction with external communications facilities invoked from session manager threads and used to communicate with other Sterling Connect:Direct nodes.

2. Specify the tracing level for each trace type. The trace levels are:

Level	Description
Full	Module entry and exit records, function arguments, and selected internal control blocks are traced.
Intermediate	Module entry and exit records and function arguments are traced.
Basic	Module entry and exit records are traced.
Off	Tracing is turned off.

You can do one of the following:

- ◆ Select individual trace levels.
 - ◆ Click **Full Tracing** to set a Full tracing level for all traces.
 - ◆ Click **All Off** to turn off all tracing.
3. Specify the fully qualified name of the file to receive trace output. The default is CDTRACE.CDT in the Sterling Connect:Direct for Microsoft Windows server directory.
 4. Type the maximum size that the output file can reach before the trace terminates. If you select to wrap tracing output, the file begins to wrap when it reaches this size (see step 7). A value of 0 indicates that the file can grow indefinitely.
 5. Select the output file size in megabytes or kilobytes.
 6. Select if you want to wrap output in the trace output file when it reaches the maximum size.
 7. For a session manager (SMGR) trace, select if you want to trace Processes submitted from only the PNODE, from only the SNODE, or from both.
 8. The following fields restrict traces:
 - ◆ To restrict a trace to specific Process names, type up to four **Process names** in the Process Names field. Separate the Process names with commas.
 - ◆ To restrict a trace to specific Process numbers, type up to four **Process numbers** in the Process Numbers field. Separate the Process numbers with commas.
 - ◆ To restrict a trace to specific SNODEs, type up to four **SNODE** names in the Destination SNODE Names field. Separate the SNODE names with commas.
 9. Select if you want to generate a configuration report containing initialization parameters settings, network map information, server properties, and system configuration information. This report is named CDCONFIG.TXT and is output to the Sterling Connect:Direct for Microsoft Windows installation directory.
 10. Click **Change Tracing** to change the parameters and start the trace.

Modifying Translation Tables

Sterling Connect:Direct translates data from one character set to a different character set, such as ASCII to EBCDIC, using character translation tables.

This chapter describes the following tasks:

- ◆ Viewing a Translation Table
- ◆ Modifying a Translation Table
- ◆ Adding a Translation Table

These functions are not available to users signed on to Sterling Connect:Direct for z/OS, Sterling Connect:Direct for UNIX, or Sterling Connect:Direct for HP NonStop systems. Also, you must have Sterling Connect:Direct authority to perform translation table functions.


Viewing a Translation Table

To view a Sterling Connect:Direct translation table:

1. From the **Admin Functions** menu, select **Translation Table** to display the Select Translation Table Results page. A list of translation tables is displayed. The default translation tables are:
 - ◆ XLATERCV.CDX—translates data from EBCDIC to ASCII
 - ◆ XLATESND.CDX—translates data from ASCII to EBCDIC

There is also a blank box where you can specify the name of a custom translation table.

Click the navigational symbols to move through the records.



2. Click  to display detailed translation table information. The Translation Table page is displayed.


The table headings represent the source character sets and the table cells contain the target values. For example, in XLATERCV.CDX the column and row headings are EBCDIC values, while table cells are ASCII values. To find the ASCII equivalent to EBCDIC value 33, find where the 3x row intersects with the x3 column. This shows that the ASCII equivalent is 93.

3. Click another function or your browser's **Back** button when finished.

Modifying a Translation Table

To modify a Sterling Connect:Direct translation table:



1. From the **Admin Functions** menu, select **Translation Table**. A list of translation tables is displayed.
2. Do one of the following:
 - ◆ Click  to select the translation table you want to change. The Change Translation Table page is displayed.
 - ◆ Type the name of the custom translation table in the blank field and click . The Change Translation Table page is displayed.

If you type the name of a translation table that does not exist and click , a new table is displayed with all values set to 00.

3. Select the value in the table you want to modify and type in the new value.
4. Repeat step 4 for every value you want to change.
5. Click **Change Translation Table** when complete.

Adding a Translation Table

Perform the following procedure to add a Sterling Connect:Direct translation table based on an existing table. You can use one of the default tables or a custom table as the template.

1. From the **Admin Functions** menu, select **Translation Table**. A list of translation tables is displayed.
2. Do one of the following:
 - ◆ Click  next to the default table that you want to use as a template.
 - ◆ Type the name of a custom table that you want to use as a template and click .

The Add New Translation Table page is displayed with the new table.

3. Type a fully qualified file name for the new table.
4. Change any values as needed.
5. Click **Add Translation Table** when complete.

Sterling Connect:Direct for z/OS Debug Values

The following table lists Sterling Connect:Direct for z/OS debug values:

DEBUG Value	Trace Type
80000000	COPY Routine and RUN TASK trace
10000000	Full TPCB/SYMBOLICS from DMCBSUBM
08000000	Session manager trace
04000000	Separate trace per task (Example: "R0000005" to trace TASK 5)
02000000	API session trace
01000000	DMGCBSUB trace
00800000	NETEX task termination disconnect trace
00400000	TCQSH from DMCOPYRT
00200000	Make each SVC dump unique
00040000	GETMAIN/FREEMAIN trace
00008000	I/O buffer trace
00004000	WTO all dynamic allocation parameters
00002000	Sterling Connect:Direct Browser User Interface/Plex traces
	ACTION queue manager trace
	CKPT queue manager trace
	TCQ queue manager trace
	STATS queue manager trace
	First REQUEST queue manager trace

DEBUG Value	Trace Type
	Second and subsequent REQUEST queue manager trace. For example, "CDPLXR03" traces the third queue manager. The number of queue manager traces is based on the maximum number of servers from the asset protection (APKEY) file.
	JOIN queue manager trace
00001000	Workload Balancing trace
00000080	RPL trace - long
00000040	RPL trace - short
00000020	Version 2 session trace
00000008	Logon exit trace
00000004	Logon Process or trace
00000002	SCIP exit trace
00000001	SNMP trace

Sterling Connect:Direct User Authority Functions

This topic contains the following topics:

- ◆ Sterling Connect:Direct for z/OS User Authority Functions
- ◆ Sterling Connect:Direct for UNIX and Microsoft Windows User Authority Functions
- ◆ Sterling Connect:Direct for HP NonStop User Authority Functions

Sterling Connect:Direct for z/OS User Authority Functions

The following table lists the functions that a Sterling Connect:Direct for z/OS user can perform. Use this information to set up user authorities. See the *IBM Sterling Connect:Direct for z/OS Administration Guide* for more details.

Function	Description
Flush Process	Specifies whether the user is allowed to use the FLUSH PROCESS and SUSPEND PROCESS commands for all Processes.
Insert User	Specifies whether the user is allowed to insert new records into the Authorization file.
Delete User	Specifies whether the user is allowed to delete records from the Authorization file.
Select User	Specifies whether the user is allowed to read records from the Authorization file.
Update User	Specifies whether the user is allowed to update records in the Authorization file.
Copy Function	Specifies whether the user is allowed to use the COPY statement.
Change Process	Specifies whether the user is allowed to use the CHANGE PROCESS command for all Processes.
Delete Process	Specifies whether the user is allowed to use the DELETE PROCESS command for all Processes.
STAT Command	Specifies whether the user is allowed to use the STATISTICS COMMAND command.

Function	Description
Gen Select Process	Specifies if the user can select any Processes or only Processes that the user submitted. If you select Yes, the user can only select Processes that he or she submitted. This is only valid in the IUI.
Gen Change Process	Specifies if the user can change any Processes or only Processes that he or she submitted. If you select Yes, the user can only change Processes that he or she submitted. This is only valid in the IUI.
Select Netmap	Specifies whether the user is allowed to use the SELECT NETMAP command.
Select Process	Specifies whether the user is allowed to use the SELECT PROCESS command for all Processes.
Submit	Specifies if the user can submit Processes.
Submit within Process	Specifies whether the user is allowed to use the SUBMIT statement to define and submit within a Process.
Runjob Function	Specifies whether the user is allowed to use the RUN JOB statement.
Control Tracing	Specifies if the user can request traces.
Stop C:D	Specifies whether the user is allowed to use the STOP CD command.
Select Statistics	Specifies whether the user is allowed to use the SELECT STATISTICS command for all Processes.
Gen Delete Process	Specifies if the user can delete any Processes or only Processes that he or she submitted. If you select Yes, the user can only delete Processes that he or she submitted. This is only valid in the IUI.
Gen Select Statistics	Specifies if the user can select any statistics or only statistics for Processes that the user submitted. If you select Yes, the user can only select statistics for Processes that he or she submitted. This is only valid in the IUI.
Event Command	Specifies whether the user is allowed to use the Event Services Support commands.
Update Netmap	Specifies whether the user is allowed to use the UPDATE NETMAP command.
Modals Function	Specifies whether the user is allowed to use the modal statements IF, ELSE, EIF, GOTO, and EXIT.
Runtask Function	Specifies whether the user is allowed to use the RUN TASK statement.
Insert Type	Specifies whether the user is allowed to insert new records into the Type Defaults file.
Delete Type	Specifies whether the user is allowed to delete records from the Type Defaults file.
Select Type	Specifies whether the user is allowed to read records from the Type Defaults file.
Update Type	Specifies whether the user is allowed to update records in the Type Defaults file.
Gen Flush Process	Specifies if the user can flush any Processes or only Processes that the user submitted. If you select Yes, the user can only flush Processes that he or she submitted. This is only valid in the IUI.
Reset Signon	Specifies that the user can continue to try to sign on, even if he or she has exceeded the maximum number of signon attempts.

Function	Description
View Process	Specifies if the user can use the VIEW PROCESS command for all Processes.
CRC Overrides	Specifies whether node ID and user ID parameters are case sensitive. This choice overrides the case designation selected at session signon and is in effect only for this command. The default is the designation made at session signon.
Gen View Process	Specifies if the user can only view his or her Processes.

Sterling Connect:Direct for UNIX and Microsoft Windows User Authority Functions

The following table lists the functions that a Sterling Connect:Direct for UNIX or Sterling Connect:Direct for Microsoft Windows user can perform. Use this information to set up user authorities. See the *IBM Sterling Connect:Direct for UNIX Administration Guide* or *IBM Sterling Connect:Direct for Microsoft Windows System Guide* for more details.

Area	Function	Description
Admin	Administrator Authority	This field is only displayed when you sign on to a Sterling Connect:Direct for UNIX node. This field assigns Sterling Connect:Direct for UNIX Administrator authority to the user. If you select this authority, all other authority buttons are greyed out.
Control	Submit	Specifies that the user has authority to submit Processes using the Submit Process command.
	Monitor	Specifies that the user has access to the Process Monitor function <ul style="list-style-type: none"> ◆ Yes specifies that the user can monitor his or her own Processes. ◆ All specifies that the user can monitor anyone's Processes.
	Change	Specifies that the user has authority to change Processes in the Transmission Control Queue (TCQ). <ul style="list-style-type: none"> ◆ Yes specifies that the user can change his or her own Processes. ◆ All specifies that the user can change anyone's Processes.
	Delete	Specifies that the user has authority to delete Processes from the TCQ. <ul style="list-style-type: none"> ◆ Yes specifies that the user can delete his or her own Processes. ◆ All specifies that the user can delete anyone's Processes.

Area	Function	Description
	Statistics	Specifies that the user has authority to access Process statistics using the Select Statistics command. <ul style="list-style-type: none"> ◆ Yes specifies that the user can access statistics for his or her own Processes. ◆ All specifies that the user can access statistics for anyone's Processes.
	View Process	Specifies that the user can issue a command to view Processes in the TCQ.
Server Control	Stop	Specifies that the use has authority to stop the Sterling Connect:Direct execution.
	Refresh	Specifies that the user has authority to refresh the Sterling Connect:Direct server initialization parameters.
	Trace	Specifies that the user has authority to access the Trace utility.
Overrides	Execution Priority	Specifies that the user has authority to override the default execution priority in a Process. <ul style="list-style-type: none"> ◆ Yes specifies that the user can override the default execution priority for his or her own Processes. ◆ All specifies that the user can override the default execution priority for anyone's Processes.
	File Attributes	Specifies that the user has authority to override the system's default file attributes when creating files using a Copy Process.
Configuration	Netmap	Specifies that the user has authority to update the network map
	Translation Table	Specifies that the user has authority to update the translation tables.
	User Authorities	Specifies that the user has authority to update local user Connect:Direct functional authorities.
	User Proxy	Specifies that the user has authority to update user proxies.
Statements	Upload	Specifies that the user has authority to submit Copy Process steps.
	Download	Specifies that the user has authority to receive Copy Process steps.
	Run Job	Specifies that the user has authority to submit Run Job Process steps.
	Run Task	Specifies that the user has authority to submit Run Task Process steps.
	Submit in Process	Specifies that the user has authority to submit Processes from within another Process.
Overrides	Remote Node ID	Specifies that the user has authority to use the remote node ID parameter on the Process or when submitting the Process.
	ACL Update	Specifies that the user has authority to define access-allowed and access-denied entries in the Access Control List (ACL) for a file created using a Copy Process.

Sterling Connect:Direct for HP NonStop User Authority Functions

The following table lists the functions that a Sterling Connect:Direct for HP NonStop user can perform. Use this information to set up user authorities. See the *IBM Sterling Connect:Direct for HP NonStop Administration Guide* for more details.

Function	Description
Change Process	Modifies a Process in the TCQ.
Delete Process	Removes a nonexecuting Process from the TCQ.
Flush Process	Specifies whether the user is allowed to remove an executing Process from the TCQ.
Suspend Process	Specifies whether the user is allowed to suspend an executing Process.
Delete Sec	Specifies whether the user is allowed to remove a user record from the Security file.
Insert Sec	Specifies whether the user is allowed to add a security record to the Security file.
Select Sec	Specifies whether the user is allowed to display or print records in the Security file.
Update Sec	Specifies whether the user is allowed to change a security record in the Security file.
Delete User	Specifies whether the user is allowed to delete records from the Authorization file.
Insert User	Specifies whether the user is allowed to insert new records into the Authorization file.
Select User	Specifies whether the user is allowed to read records from the Authorization file.
Update User	Specifies whether the user is allowed to update records in the Authorization file.
Delete Type	Specifies whether the user is allowed to delete records from the Type Defaults file.
Insert Type	Specifies whether the user is allowed to insert new records into the Type Defaults file.
Select Type	Specifies whether the user is allowed to read records from the Type Defaults file.
Update Type	Specifies whether the user is allowed to update records from the Type Defaults file.
Delete Netmap	Specifies whether the user is allowed to remove a node, LOGMODE, or LU from the network map.
Insert Netmap	Specifies whether the user is allowed to add a node, LOGMODE, or LU to the network map.
Relate Netmap	Specifies whether the user is allowed to assign specific LUs or AMGRs to an adjacent node record.
Select Netmap	Specifies whether the user is allowed to display or print definitions of node, LOGMODE, and LU entries in the network map file.
Update Netmap	Specifies whether the user is allowed to alter a node, LOGMODE, or LU record in the network map.

Function	Description
Alias.Convert	Specifies whether any alias of this user ID can log on without being defined in the AUTHFILE. Valid values = Y or N.
Modify	Specifies whether the user is allowed to run a Sterling Connect:Direct Browser User Interface traces or modifies certain operational functions.
Stop C:D	Specifies whether the user is allowed to Connect:Direct.
Submit	Specifies if the user can submit Processes.
Update Statistics	Specifies whether the user is allowed to dynamically change the percentage setting, deletion criteria, and midnight housekeeping flag in the statistics facility (NDMSTDL).
Update Logging	Specifies whether the user is allowed to modify settings for EMS, STATS, and COLLECTOR.
Statistics	Specifies whether the user is allowed to display or print statistics from the statistics log. Valid values are A, O, and N. Setting STATISTICS=O enables you to view statistics for outbound jobs submitted on the local node. If you do not use this setting, you see only inbound transactions where the REMOTE user ID is mapped to the local user ID.

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Glossary

Term	Definition
Abnormal termination	<p>Specifies the disposition of the file after an abnormal Process step termination results in a non-zero completion code. This subparameter applies to non-VSAM files.</p> <p>The values are:</p> <p>KEEP–The file is kept after the Process step terminates abnormally.</p> <p>DELETE–The file is deleted after the Process step terminates abnormally.</p> <p>CATLG–The file is kept after the Process step terminates abnormally and an entry is placed in the system catalog (z/OS only).</p>
Access	<p>Specifies the status of a file before a Process is executed. The values are:</p> <p>NEW–Creates a new file on the destination node.</p> <p>RPL–Creates a new file on the destination node or, if the file already exists, replaces the named file of the destination node.</p> <p>MOD–Appends data to the end of an existing file for which you have exclusive rights (not used by VSE)</p> <p>SHR–The file exists and the Process does not have exclusive control of the file.</p> <p>OLD–The file exists, and the Process has exclusive control of the file.</p>
Address	<p>A node property that specifies either the fully qualified domain name or IP address (nnn.nnn.nnn.nnn format). This property is required. You can enter up to 64 characters for the domain name; however, only 20 characters are displayed. You can scroll through the field to see the complete name.</p>
Allow only Defined Nodes	<p>A system property that specifies whether the Sterling Connect:Direct Browser User Interface can only access the nodes defined in a node property file or can access any Sterling Connect:Direct node.</p> <p>The values are:</p> <p>Y–Specifies that the Sterling Connect:Direct Browser User Interface can only access nodes defined in the node property files. If you specify Y, you must create at least one node property file.</p> <p>N–Specifies that the Sterling Connect:Direct Browser User Interface can access any Sterling Connect:Direct node. N is the default value.</p>
Allow only Defined Users	<p>A system property that specifies whether only users defined in a user property file can access the Sterling Connect:Direct Browser User Interface, or if any Sterling Connect:Direct user can access the Sterling Connect:Direct Browser User Interface.</p> <p>Y–Specifies that only users defined in user property files can access the Sterling Connect:Direct Browser User Interface.</p> <p>N–Specifies that any Sterling Connect:Direct user can access the Sterling Connect:Direct Browser User Interface. N is the default value.</p>

Term	Definition
BUFND	<p>Specifies the number of I/O buffers VSAM uses for transmitting data between virtual and auxiliary storage. A buffer is the size of a control interval in the data component. Valid values range from 1–510.</p> <p>Increasing this number generally improves the I/O performance on the file but requires more memory.</p>
Buffer Size	<p>Specifies the buffer size for transmitting data to and from a remote Sterling Connect:Direct node. This is a numeric value from 256–32,768. The default is 4096.</p> <p>This field overrides the initialization parameter value.</p>
Checkpoint Restart	<p>Specifies if checkpointing is used. This allows restart of interrupted transmissions at the last valid checkpoint, reducing the time to retransmit a file.</p> <p>The options are:</p> <p>Default—Uses the value specified in the Checkpoint Interval initialization parameter.</p> <p>Check At Every—Performs checkpoints at the specified number of kilobytes or megabytes.</p> <p>Sequential files, VSAM files, or partitioned data sets (PDS) can be checkpointed. Checkpointing of PDS-to-PDS transmissions occurs on each each member. Sequential-to-PDS and PDS-to-sequential transmissions cannot be checkpointed.</p>
Completion Code	<p>Specifies the completion code operator and return code values associated with step termination. Also referred to as the condition code.</p> <p>The completion code operands are Equal to, Greater or Equal to, Greater than, Less or equal to, Less than, and Not Equal to.</p> <p>Valid completion codes are:</p> <ul style="list-style-type: none"> • Any—All values. • 0—Successful execution of the Process. • 4—A warning error was encountered. The statement probably finished normally, but you should verify the execution results. • 8—An error occurred during Process execution. • 16—A severe error occurred during Process execution.

Term	Definition
Compression	<p>Specifies if the file data should be compressed, reducing the amount of data transmitted as the file is copied. The file is then automatically decompressed at its destination.</p> <p>The options are:</p> <p>None—The data is not compressed</p> <p>Primary Char—Compresses text data or single-character repetitive data. Repetitive occurrences (ranging from 2–63) of the primary compression character are compressed to one byte. Repetitive occurrences (ranging from 3–63) of any other character are compressed to two bytes.</p> <p>If you select the Primary Char option, you must specify either the primary compression character or its hexadecimal equivalent. The default value for the primary compression character is a blank (X'40').</p> <p>Extended—Extended searches for repetitive strings of characters in data and compresses them to codes that are transmitted and converted back to the original string during decompression.</p> <p>If you select Extended compression, you must specify the following:</p> <ul style="list-style-type: none"> • Comp Level—The compression level. Level 1 is the fastest compression, but it offers the lowest amount of compression. Selecting a higher value produces more compression, but is slower. • Window—The size of the compression window or history buffer. Specifying a higher window size increases the degree of compression and uses more virtual memory (above the line); for example, window size 8 uses 1 KB of memory, whereas size 15 uses 128 KB of memory. • Memory—Identifies how much virtual memory (above the line) is allocated to compression. Level 1 requires the least memory (1K), but it reduces the amount of compression. Level 9 provides the fastest compression, but it uses the most memory (256K). <p>Compression is CPU-intensive, and its effectiveness is data dependent. It should only be used if its benefits are known.</p>
Condition Code	See Completion Code.
Class	Specifies the preferred session class for the Process. The Process can execute in the class specified or any higher class. Values range from one to the maximum number of PNODE sessions defined in the network map definition. This value overrides any defaults.
Comment Statement	A statement within a Process that contains a descriptive comment.
Conditional Statement	A statement within a Process that controls its execution by testing Process step return codes and directing the next step. Conditional statements are If, Then, Else, EIF, Goto, and Exit.
Copy Statement	A statement within a Process that performs a data transfer. Copy statement parameters include source and destination file names and attributes.
DATAEXIT	Specifies the name of the user-written program called to examine or modify the COPY data.
DCB	Data Control Block. Specifies the attributes used to allocate source and destination files.
Debug	<p>A system property that indicates whether debug tracing for Sterling Connect:Direct Browser User Interface operation is written to the trace data set. This property does not control Process execution debug tracing.</p> <p>The values are:</p> <p>Off—No debug tracing is performed.</p> <p>Minimal—Basic debug tracing is performed.</p> <p>Maximal—Extended debug tracing is performed.</p>
Default Current Directory	Specifies the default directory to browse for a file.
Description	A node or user property that specifies descriptive information about the property file.

Term	Definition
Destination DISP	<p>Specifies what to do with the destination file after a copy is complete.</p> <p>The destination DISP values can be:</p> <p>NEW—Creates a new file on the destination node.</p> <p>RPL—Creates a new file on the destination node or, if the file already exists, replaces the named file on the destination node.</p> <p>MOD—Appends data to the end of an existing file for which you have exclusive rights.</p> <p>OLD—The file exists, and the Process has exclusive control of the file.</p> <p>SHR—The file exists and the Process does not have exclusive control of the file.</p> <p>The exact DISP values displayed depend on the platform.</p>
Destination file	Specifies the name of the destination file that you are copying to. The name should include the full path to the file. The name can be 1–256 characters long (1–8 characters for HP NonStop Kernel).
Direction	Specifies the copy file direction. Selecting Send sends the file to the SNODE. Selecting Receive indicates the file is received from the SNODE.
Display Nodes	Specifies if nodes defined to the Sterling Connect:Direct Browser User Interface are displayed in a list box on the Signon page.
Default Connect:Direct Node	A system and user property that specifies the name of the Sterling Connect:Direct node to connect with, if the node is not specified in a request. This value must be the same as the name of one of the node property files. There is no default value.
Default Connect:Direct User ID	A system or user property that specifies the Sterling Connect:Direct user ID or the user property file name to use if one is not specified in a request. There is no default value.
Exclusion Criteria	<p>Specifies criteria for excluding specific CMS files from a copy operation.</p> <p>The format is:</p> <p>generic member (startrange/stoprange) list</p> <p>generic—Specifies a generic file name.</p> <p>member—Specifies an individual file name.</p> <p>startrange—Specifies the first name in an alphanumeric range of files.</p> <p>stoprange—Specifies the last name in an alphanumeric range of files.</p>
File Type	Specifies the VM file type.
Hold Status	<p>Specifies the Hold status of a Process.</p> <p>The Hold statuses are:</p> <ul style="list-style-type: none"> • No—The Process is not placed in the Hold queue. It is executed as soon as resources are available. • Yes—The Process is held in the Hold queue in Held Initially (HI) status until it is explicitly released. • Call—The Process is held until the SNODE, as specified in the Process SNODE parameter, connects to the PNODE. The Process is then released for execution. The Process is also released when another Process on the PNODE connects to the SNODE.
Host Name	Specifies the 1–256 character host name for the node.
IP Address	Specifies the IP address of the Sterling Connect:Direct system you want to sign on to. It is in the format nnn.nnn.nnn.nnn, for example 127.0.0.1. You do not have to supply an IP address if a node property file is defined for you.

Term	Definition
Label	Specifies the label information for the tape.
Link	<p>Specifies the disk where the CMS file is located. This parameter allows access to the CMS file.</p> <p>The Link information consists of:</p> <p>User ID—The owner ID for the CMS minidisk where the file is located. The valid length ranges from 1–8 characters.</p> <p>Password—The password for the CMS minidisk where the file is located. The maximum length is 256 characters. The default password is ALL.</p> <p>Access mode—the link access mode. The Copy From access modes are:</p> <ul style="list-style-type: none"> • W (primary read/write access) • M (primary multiple access) • R (primary read-only access) • RR (primary and secondary read-only access) • WR (primary read/write access; alternate read-only access) • MR (primary multiple access; alternate read-only access) • MW (primary multiple access; alternate read/write only access) <p>Warning: MW access to CMS format disks can be destructive. If you use MW access, no other VM user or Sterling Connect:Direct Process should have MW, M, or W access to the minidisk. If multiple users or Processes simultaneously write to the disk, the CMS directory on the disk can be destroyed.</p> <p>CUU—The virtual address of the disk where the CMS file is located. Any four-digit number is valid.</p>
Logging	<p>A system property that controls whether Sterling Connect:Direct Browser User Interface activity is logged to the trace data set. This property does not affect Process logging.</p> <p>The values are:</p> <p>Off—No logging is performed.</p> <p>Minimal—Basic logging at key processing points is performed.</p> <p>Maximal—Detailed logging is performed.</p>
Maximum API Connections	Specifies the Sterling Connect:Direct for UNIX <code>api.max.connects.local.node</code> parameter that defines the maximum number of concurrent API connections permitted for the local node. The default is 16.
Maximum Logon Attempts	Specifies the maximum number of signon attempts the user is allowed per hour. The range is 0–99. The default is 60. Zero (0) indicates no maximum number.
Maximum Records	A system property that specifies the maximum number of records that a Sterling Connect:Direct node can return in response to a command. If the number of records exceeds this value, the command continues, but all records returned after the maximum number are will be discarded. The default is an unlimited number of records.
Maximum RU Size	Specifies the maximum RU size for sessions in this group. The default is 4096.
Maximum Sessions	Specifies the maximum number of sessions allowed in this mode group. The default is 8. Specify 1 if you use dependent LUs as the communications path because dependent LUs can only support a single session.
Mode	Specifies the 1–48 character communications mode name.
New Name	Specifies the new name of the Process. The default is the label on the Process statement.
Netmap Check	Specifies the Sterling Connect:Direct for UNIX <code>netmap.check.local.node</code> parameter that determines if security checks are made to verify that a remote node name is in the <code>netmap.cfg</code> file.

Term	Definition
Node	Specifies a 1–16 character name for the Sterling Connect:Direct node, as defined in the network map. Use of this field for login to the Sterling Connect:Direct Browser User Interface is optional; if the node is defined in your user property file, you do not have to supply a node during login.
Normal termination	Specifies the disposition of a file following a normal Process step termination that results in a zero completion code. The values are: KEEP—The file is kept after the Process step finishes. DELETE—The file is deleted after the Process step terminates normally. CATLG—The file is kept after the Process step terminates abnormally and an entry is placed in the system catalog (z/OS only).
Notify	Specifies the user ID to receive Process completion messages. The user ID is notified through a Microsoft Exchange E-mail, a Microsoft Windows dialog box, or a TSO notify.
Old Date	Specifies to use the creation or last modified date and the time of the file being transmitted to set the creation date and time of the file received. If you do not specify to use the old date, the current date and time are used for the creation date and time of the received file. Use this for sequential file transfers between two IBM® Sterling Connect:Direct® for VM/ESA systems, and transfers between a set of CMS files on Sterling Connect:Direct for VM/ESA to a PDS on an IBM® Sterling Connect:Direct® for z/OS® system.
Operator	Specifies the type of comparison to be performed in an If statement. Operators are: <ul style="list-style-type: none"> • EQ specifies equals. • GE specifies must be greater than or equal to • GT specifies must be greater than • LE specifies must be less than or equal • LT specifies must be less • NE specifies does not equal
Pacing Send Count	Specifies the number of send operations to perform before waiting for a pacing response from a remote node. This is a numeric value from 0–63. The default is 0, which indicates no pacing. This field overrides the initialization parameter value.
Pacing Send Delay	Specifies the amount of time Sterling Connect:Direct waits before sending each outbound data buffer to the remote node. This is a 24-hour time value formatted as hh:mm:ss. The default value of 0 indicates that Sterling Connect:Direct sends each data buffer as soon as possible. The maximum value is 23:59:59. This field overrides the initialization parameters value.
Pacing Size	Specifies the largest permissible receive pacing window size for sessions in this mode group. Sterling Connect:Direct sends this number of data buffers before waiting for an acknowledgment from the remote node. The range is 0–63; 0 specifies no pacing. The default is 7.
Parallel Sessions	Specifies the Sterling Connect:Direct for UNIX local.node sess.total parameter that defines the maximum number of concurrent connections between all nodes and the local node. The default is 255.
Passticket Data	Specifies the values required for a Stage 2 security exit to rewrite a RACF PassTicket password. The format is <i>APPL prof name, secured signon key</i> , where: <ul style="list-style-type: none"> • <i>APPL prof name</i> is the value specified when the profile is defined for the PTICDATA class. • <i>Secured signon key</i> is the value associated with the PTICDATA class and the name specified in the APPL Prof name.

Term	Definition
Password	A user node property that specifies the password corresponding to the User ID property value. If no value is specified, the system assumes either that there is no password associated with the user ID, or that a password is specified during logon. If you create a password you cannot later reset it to a null password. Instead, you must delete the user profile, then recreate the profile without a password.
Pend Statement	A statement within a Process that indicates the end of a Process. The Pend statement is only used in Sterling Connect:Direct for UNIX and Sterling Connect:Direct for Microsoft Windows Processes. There are no parameters for the Pend statement.
Port	Specifies the 1–5-digit port number of the Sterling Connect:Direct system you want to sign on to. You do not have to supply a port number if a node property file is defined.
Port property	A node property that specifies the 1–5-digit port number of this Sterling Connect:Direct node. The default listening port is 1363 for API requests.
PNODE	Specifies the Sterling Connect:Direct network node where the Process resides (the primary node).
PNODE Password	Specifies the user password on the PNODE. This field is case-sensitive.
PNODE User ID	Specifies the user ID used as a security ID on the PNODE. This ID must be the name of an existing user account. This field is case-sensitive.
Priority	Specifies the priority of a Process in the Transmission Control queue. Sterling Connect:Direct uses the Priority parameter for Process selection. Values range from 1–15. The lower the number, the higher the priority. A Process with higher priority is selected for execution before a Process with a lower priority. This parameter does not affect the priority during transmission.
Process file name	Specifies the name of the file that contains the Process.
Process Name	Specifies the 1–8 character name of the Process.
Process Number	Specifies the system-assigned number of the Process. The range is 1–99999.
Process Statement	The first statement in a Process. The Process statement defines general Process characteristics, including Process name, primary and secondary nodes, execution date and time, security parameters, accounting data, and symbolic variables.
Protect	Specifies whether an IBM RACF profile is created for a new file.
Protocol	Specifies the type of protocol for a communications mode or path, either TCP/IP or APPC.
Proxy Attempt	Specifies the Sterling Connect:Direct for UNIX local.node proxy.attempt parameter that defines if remote users can specify a dummy user ID in the SNODE ID. The default is no, where neither the local system nor the remote system requires a user ID from the other side.

Term	Definition
Queue	<p>Specifies which queue to select Processes from.</p> <p>The queues are:</p> <ul style="list-style-type: none"> • All–All Processes in the TCQ. • Exec–Processes currently be executed. • Hold–Processes that are either held by the user or operator or held due to execution errors. • Timer–Processes that are scheduled for execution later, or Processes in time retry due to session errors. • Wait–Processes that are eligible for execution and are awaiting selection. <p>The following additional queues are available for HP NonStop:</p> <ul style="list-style-type: none"> • Bad–An error occurred during initialization of Process execution. This error can occur because of a security error or some other unrecoverable error. • Call–The Process executes after a connection is established with the other node. You cannot specify a start date or time. • Initial–A copy of the Process executes when you start the server. • Hold–The Process remains the Hold queue until you release it. • PExc–The Process is pending execution. • Retain–A copy of the Process is retained after execution. You can later release a copy of this Process for execution. • Rettimer–The Process executes periodically, either daily or weekly. A copy of the Process is released for execution at the end of the period specified. • Retry–Process retries after a certain interval if the error that occurred is recoverable. • Suspend–The SUSPEND PROCESS command suspends the Process. You can later release the Process for execution.
Record Categories	<p>Specifies whether the record is related to an event or to a Process. The values are:</p> <ul style="list-style-type: none"> • CAEV–The record is related to a Sterling Connect:Direct event, such as a Sterling Connect:Direct shutdown. • CAPR–The record is related to a Sterling Connect:Direct Process.
Record ID	<p>Specifies the type of statistics record generated. See the <i>Select Statistics Results</i> Help topic for a list of Records IDs</p>
Remote C:D Platform	<p>Specifies the type of Sterling Connect:Direct system on the SNODE.</p>
Replace	<p>Specifies that the files sent replace destination files with the same name.</p>
Retain	<p>Indicates whether Sterling Connect:Direct retains a copy of a Process after it is executed.</p> <p>If you specify Retain with a start time, the Process is released for execution at the specified time. Each time a retained Process is released, Sterling Connect:Direct creates a copy with a new Process number. The copy is executed, and the original Process remains in the queue.</p> <p>The Retain options are:</p> <ul style="list-style-type: none"> • Initial–Specifies to retain the Process in the Hold queue for execution every time that Sterling Connect:Direct initializes. Do not specify a start time if you choose this option. • No–Specifies to not retain the Process after it is executed. • Yes–Specifies to retain the Process in the Hold queue after it is executed. You can release the Process for execution later or delete it. When you specify a start date and start time, set Retain to Yes to continually execute the Process at the scheduled time.
Run Job Statement	<p>A statement within a Process that submits a job to the host operating system. This job executes concurrently with the Process. Any Process statements following the Run Job statement execute without waiting for the Run Job results. The job can execute on either the local or remote node.</p>

Term	Definition
Run Task Statement	<p>A statement within a Process that executes an external program or command. The program or command must complete before any further statements in the Process are executed. Run Task produces a return code as the exit code for the program it calls.</p> <p>Do not call programs with the Run Task statement that require user intervention to complete.</p> <p>Do not use a return code 16 in any programs called by the Run Task statement, or the Run Task will fail.</p>
Security ID	Specifies the 1–64 character security ID used by a security subsystem such as RACF subsystem.
Security Password	Specifies the 1–64 character security password required by a security subsystem such as RACF subsystem.
Select	<p>Specifies selection criteria for copying OpenVMS PDS members.</p> <p>The SELECT parameters are:</p> <p>name—Specifies an individual member name.</p> <p>*—Specifies a global generic indicating that all members of the file are to be included.</p>
Selection Criteria	<p>Specifies selection criteria for copying a set of CMS files.</p> <p>The format is:</p> <p>member generic(*) (member,[newname], [NR R])generic,,[NR R] (startrange/stoprange,, [NR R]) list</p> <p>The values are:</p> <p>member—Specifies an individual file name.</p> <p>generic—Specifies a generic file name.</p> <p>(*)—Specifies a global generic. A global generic indicates that all files in the set of files are to be included.</p> <p>newname—Specifies a new name for a file. The newname parameter must be null if a generic name or range is used in the first subparameter position.</p> <p>NR—Specifies that a file does not replace an existing file of the same name at the receiving set of files. NR overrides the REPLACE option. When used with newname, NR applies to the newname and not to the original file name. When used with a generic name or with a range, NR applies to all files selected for that criterion.</p> <p>R—Specifies that a file replaces an existing file of the same name at the receiving set of files. When used with newname, R applies to the newname and not to the original file name. When used with a generic name or with a range, R applies to all files selected for that criterion.</p> <p>When using a generic and specifying NR or R, ensure that the second positional parameter (newname) is null.</p> <p>startrange—Specifies the first name in an alphanumeric range of files.</p> <p>stoprange—Specifies the last name in an alphanumeric range of files.</p>
Servlet Information	A system property that specifies the servlet information. The default is the Sterling Connect:Direct Browser User Interface.
Session Time-out in Seconds	A system property that specifies the number of seconds before a session terminates when no requests are processed. The default is 1800 seconds.
SNODE	Specifies the secondary node to be used in this Process. The secondary node name is a 1–16 alphanumeric character name that is defined in the network map. The name can be expressed in alphanumerics or nationals (@#)\$ with embedded periods.

Term	Definition
SNODE New Password	Specifies a new password for the SNODE. The user password is changed to the new value on the SNODE if the user ID and old password are correct and the SNODE supports this optional parameter. Sterling Connect:Direct does not support spaces in the password. This field is case-sensitive.
SNODE Password	Specifies the user password on the SNODE. This field is case-sensitive.
SNODE User ID	Specifies the user ID used as a security ID on the SNODE. This field is case-sensitive.
Source DISP	Specifies access to the source file during a copy operation. The values can be: SHR—The file can be opened for read-only access while it is being copied. OLD—The file cannot be opened during the transfer. The exact DISP values displayed depend on the platform.
Source File	Specifies the fully qualified name of the source file being copied. The name can be 1–256 characters long (1–8 characters for HP NonStop Kernel).
Space	Specifies the amount of DASD storage to be allocated for new files on the destination node. Specify Space for all new non-VSAM files unless you specify a Typekey file that includes Space parameters.
Start Date	Specifies the day and date to execute the Process.
Start Time	Specifies the time to execute the Process.
Status	Selects Processes for viewing according to status. Not used for HP NonStop. The statuses are: <ul style="list-style-type: none"> • Execution (EX)—The Process is being executed. • Pending Execution (PE)—The Process is selected for execution and startup is in progress. • Waiting Connection (WC)—The Process is ready to execute, but all available connections to the SNODE are in use. • Waiting Start Time (WS)—The Process is waiting in the Timer queue because it was submitted with a start time or date that has not expired. • Held Suspension (HS)—The operator issued a delete Process request with Hold set to Yes. • Timer Retry (RE)—The Process is in the Timer queue in RE (retry) status with short-term and long-term wait times. • Held for Call (HC)—The Process was submitted with the Hold option set to Call. • Held Due to Error (HE)—A session error or other abnormal condition occurred, and the Process is being held as a result. • Held Initially (HI)—The Process was submitted with the Hold option set to Yes. • Held By Operator (HO)—The Process is held because a Change Process request with Hold set to Yes was issued. • Held By Retain (HR)—The Process was submitted with retain after execution set to Yes or Initial.
Step Label	A 1–8 character user-defined string that identifies a Sterling Connect:Direct statement. The first character must be alphabetic. Step labels are also used by Goto statements to identify branching destinations in a Process.
Stop Date	View Processes ending on this date.
Stop Time	View Processes ending at this time.
Submit Statement	A statement within a Process that submits another Process. The Process can execute on either the local or remote node.

Term	Definition
Submitter	Specifies the node name and user ID of the user that submitted the Process. Separate the node name and user ID with a comma; for example, atlanta, user1. To specify multiple submitters, enclose each node name/user ID combination in parentheses and separate with commas; for example, (atlanta, user1), (atlanta, user2), (atlanta, user3).
Symbolic Variables	Symbolic variables are text strings in a Process which are replaced with predefined values when the Process is executed. This allows you to easily change Processes when these values change. For example, you can define a variable &filename and declare the value to be file1.txt. Whenever the Process encounters the &filename variable, it substitutes file1.txt. If you want to use a different value, just change the &filename definition to the new file name, and the Process will use that instead.
SYSOPTS	Specifies the platform-specific system operations. These parameters specify the data type, translation tables, inherited rights, attributes, and trustees. Separate multiple UNIX SYSOPTS with colons. Separate multiple Microsoft Windows, z/OS, OS/400, OpenVMS, VM, or VSE SYSOPTS with a space. Separate multiple HP Non-Stop SYSOPTS with a comma. Refer to the <i>Sterling Connect:Direct Process Statements Guide</i> for specific SYSOPTS values.
TCP Address	Specifies the Sterling Connect:Direct for UNIX local.node tcp.api parameter that is used to monitor connection requests from the CLI or API using TCP/IP. You can specify either the host name of the Sterling Connect:Direct host computer or the IP address of the Sterling Connect:Direct host computer.
TCP API Buffer size	Specifies the Sterling Connect:Direct for UNIX local.node tcp.api.bufsize parameter that defines the buffer size for transmitting data to and from a Sterling Connect:Direct CLI/API. The default is 4096 bytes.
TCP Max Time to Wait	Specifies the Sterling Connect:Direct for UNIX local.node tcp.max.time.to.wait parameter that defines the maximum number of seconds that the local node waits for a message from the remote node when using TCP/IP. When the time expires, the Process moves to the timer queue and Sterling Connect:Direct attempts to reestablish a session with the remote node. When set to 0, the wait time is unlimited, unless limited by the operating system. The default value is 0.
TCP Port	Specifies the Sterling Connect:Direct port name or number used in TCP/IP communications.
Typekey	Specifies the name of the file that contains the default file attributes used to allocate the destination file. Specify a Typekey only when you request defaults.
Unit	Specifies the unit address, device type, or user-assigned group name where the file resides or will reside. For the OS/400 platform, specifies the unit identifier of the auxiliary storage unit where the storage space for the file and file members is allocated.
Value	Specifies the completion code used for comparison in an If statement. Typically, a completion code less than 4 indicates that the Process completed successfully, completion code of 4 indicates a warning, and a completion code greater than 4 indicates the Process ended with errors.
VOL	Specifies the volume serial numbers containing the file and optional processing associated with the file.
VSAMCAT	Specifies the name of the VSAM catalog where the VSAM file resides.

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