

Sterling Control Center



Configuration Management Guide

Version 54

Sterling Control Center



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Note

Before using this information and the product it supports, read the information in "Notices" on page 89.

This edition applies to version 5.4 of IBM Sterling Control Center and to all subsequent releases and modifications until otherwise indicated in new editions.

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Chapter 1. About configuration management

IBM® Sterling Control Center can manage many types of IBM Sterling Connect:Direct® server configuration objects.

These objects include:

- Functional authorities (UNIX, Microsoft Windows, and z/OS)
- Initialization parameters (UNIX, Microsoft Windows, and z/OS)
- Netmap nodes (UNIX, Microsoft Windows, and z/OS)
- Netmap modes (Microsoft Windows)
- Netmap communication paths (Microsoft Windows)
- IBM Sterling Connect:Direct Secure Plus nodes (UNIX, Microsoft Windows, and z/OS)
- Sterling Connect:Direct Secure Plus key certificates (UNIX, Microsoft Windows, and z/OS)
- Sterling Connect:Direct Secure Plus trusted certificates (UNIX, Microsoft Windows, and z/OS)
- Sterling Connect:Direct Secure Plus cipher suites (UNIX, Microsoft Windows, and z/OS)
- User proxies (UNIX and Microsoft Windows)

You can also use the IBM Sterling Control Center API (CCAPI) to programmatically create and maintain objects. See *Create and maintain objects with the CCAPI* in *System Administration*.

Sterling Control Center stores versions of managed server objects locally. The number and age of versions kept by Sterling Control Center is controlled through the Services tab in System Settings. You can set up Sterling Control Center, through the Services system settings, to know whether and when to look for local updates to managed objects, and, if a change to those objects is detected, how to create a new, local version of them.

Note: When you are performing configuration management on a node, that node must be up and contacted. When you are using the object from another node as a starting place for configuration, the object comes from the Sterling Control Center database. As a result, Sterling Control Center does not contact that node; therefore, the status of that node is not relevant.

About the Configuration Manager

You manage Sterling Connect:Direct server configurations through the Sterling Control Center Configuration Manager. You can reach this window through the Configure Servers option on the menu bar.

To manage configuration objects, you select the type of object you want to work with using the Manage drop-down list on the Configuration Manager window. You select a server with the For Server drop-down list, and finally select the version of an object type with the Version drop-down list. The version identifier of an object type is indicated with an asterisk (*). For example, if you are configuring netmap nodes, the version identifier pertains to the netmap nodes object type, not just one

node. The filtering capability of Sterling Control Center makes working with listings of configuration objects easier to manage.

Based on these choices, you select an action to take on the object by using the Select an action menu. The actions available vary depending on the type of object, but they include:

- Copying an object from one server to another
- Copying selected parameters of an object to one on another server
- Creating an object
- Duplicating an object (as a quick way of creating one on the same server)
- Viewing and updating the properties of an object
- Deleting an object
- Comparing two objects
- Displaying the available versions of an object and comparing them
- Refreshing the Sterling Control Center copy with the copy on the server

The Compare action is a powerful feature of the Configuration Manager. You can use Compare to compare two different objects, such as two communication paths, or two versions of the same object. When you do a Compare, the Configuration Object Comparison window shows both objects or versions side by side and highlights the differences between them in red.

Work with templates

You can set up templates for many configuration objects. By setting up a template, you can begin with the typical settings for an object, change them, and save the result as a new object. Templates add efficiency to the process of creating new objects.

In this documentation, use of templates is covered as it pertains to each of the configuration object types.

Work with the Job Viewer

Using the Job Viewer, you can see what configuration jobs are queued, scheduled, and waiting to be submitted, and what jobs are complete.

Changes to configuration objects, including the creation and deletion of objects, are submitted as jobs. You can submit a change to an object as a job to be run immediately, or placed in the Held Job queue to run later. With this mechanism, you can change a held job over time, based on factors such as your schedule and the need to conduct further research. You can also schedule a job to run automatically at a later time. After all changes to the object are in place, you can start the held job to submit the job to accomplish all the changes at one time.

You can view jobs in the Job Viewer by selecting Queued Configuration Jobs or Completed Configuration Jobs on the Configure Servers menu. When you submit a job that involves more than one server, Sterling Customer Center creates a separate job for each server.

For a queued job (shown on the Queued tab of the Job Viewer), you can do these tasks:

- View job properties

- Change those properties
- View and run component job steps
- Start a job
- Hold a job for later
- Cancel a job

For a completed job (including a failed one), you can view and change job properties or job step properties, rerun the job, or rerun individual steps. For more information, see *Use the Job Viewer*. For jobs with a non-zero return code, the entire row for that job is highlighted in color.

Searching configuration objects

About this task

You can search configuration objects for servers managed centrally by Sterling Control Center.

Note: Depending on the type of database being used, only the first 4,000 characters of values stored can be searched.

To search on configuration objects:

Procedure

1. Click **Configure Servers > Search**.
2. Choose an option in the **Search For Values That** list:
 - contain
 - match
 - begin with
 - end with
 - do not match
 - do not contain
3. Type a search argument in the text box.
4. Narrow your search by selecting the type of objects to search on. Options include:
 - All Objects
 - Netmap Nodes
 - Netmap Modes
 - Netmap Commpaths
 - Functional Authorities
 - User Proxies
 - Secure+
5. Specify whether to search among **Versioned objects only**, **Templates only**, or **Both**.
6. Specify whether to search only **Current** versions or **All** versions of objects.
7. Specify **Other Search Options** by selecting from Parameter, Server, Server Group, or Object ID, then selecting an operator, and entering text to further narrow the search.

8. Click **Search** to initiate the search. Click **Reset** to clear all values and reset them to their default state.

Copying Multiple Configuration Objects

You can copy multiple configuration objects to one or more Sterling Connect:Direct servers or server groups.

About this task

To copy multiple configuration objects to one or more servers or server groups:

Procedure

1. In the Configuration Manager listing for an object type, press and hold the **Ctrl** key to select multiple objects from the list.
2. From the Select an action drop-down list, select **Copy To**.
3. Select one or more Sterling Connect:Direct servers or server groups to which to copy the objects.

Using the Audit Log

The Audit Log provides a clear trail of the changes that have been made to configuration objects. The Audit Log is available on the Tools menu on the menu bar. The Audit Log shows every change made to every configuration object property. The Audit Log makes it possible to track all actions taken on configuration objects on servers Sterling Control Center centrally manages. The Audit Log also tracks other, non-configuration objects as well.

About this task

To show the Audit Log Viewer:

Procedure

Click **Tools > Audit Log**.

The Audit Log Viewer shows changes made to all objects, including this information:

- Object ID
- Object Type
- Property Type
- Value Before
- Value After
- Date/Time
- Server
- User

Refresh configuration objects

Using the Refresh action on the Configuration Manager, you can refresh the Sterling Control Center copy of configuration objects to ensure that Sterling Control Center has the latest version.

Chapter 2. Manage functional authorities

Functional authorities control user access to Sterling Connect:Direct and control which Sterling Connect:Direct commands and statements users can employ. You can use Sterling Control Center to view, add, update, or delete functional authority records on Sterling Connect:Direct for z/OS®, UNIX or Microsoft Windows servers.

Note: Configuration Option authorities are determined by Sterling Control Center when it signs on to the Sterling Connect:Direct node. If you use Sterling Control Center to change the functional authority of the user ID that Sterling Control Center is using, pause and resume monitoring of the node after the functional authority changes.

Creating a functional authority

Use Sterling Control Center to create a functional authority to control user access to Sterling Connect:Direct.

About this task

For more information, see *Functional authorities field definitions*.

To create a functional authority for a user:

Procedure

1. In the Sterling Control Center window, right-click the server where the functional authority is to be created, and click **Configure Server > Functional Authorities**.
2. Select the action **Create New**.
3. Optionally, select one or more Sterling Connect:Direct servers or server groups to which to apply the definition. Click **Next**.
4. Take one of these steps:
 - To create a functional authority definition by typing all information, select **Enter all new Functional Authority details**.
 - To create a definition by copying a functional authority:
 - a. Select **Start from an existing Functional Authority entry on another server**.
 - b. In the **Server** field, select the server where the definition is located.
 - c. In the **Functional Authority** field, select the node to copy.
 - To create a node definition from an existing template, select **Start from a template** and select the template to copy in the **Template** field.
5. Click **Next**.
6. Define information about the new functional authority. Click **Next** to move through each screen.
7. To create a functional authority on the destination server even if it exists there, select **Overwrite object if it already exists on the server**.
8. In the **Job Name** field, type a name for the configuration job. In the **Job Description** field, type a description of the configuration job.
9. Select a timing option for running the job:

- **Now** to initiate the functional authority creation job immediately.
- **Hold for later** to send the job to the job queue with a status of Held.

Note: Select **Hold for later** if you are not ready to initiate the functional authority creation job.

- **Schedule for later** and then specify a time zone and date/time when the job is to run. This option sends the job to the job queue with a status of Scheduled.

Click **Next**.

10. Click **Finish**.
11. If you selected **Hold for later** as the job timing option, write down the job number so you can run it at a later time.
12. To rerun the job, or a step within the job, or to view information about the completed job, click **Go To Job Viewer**; otherwise, click **Close**.

Viewing functional authorities

You can use Sterling Control Center to view functional authorities defined in Sterling Connect:Direct, modify values in a functional authorities record, or delete a functional authorities record.

About this task

For more information, see *Functional authorities field definitions*. To view functional authorities for a server:

Procedure

1. Right-click the Sterling Connect:Direct server where the functional authorities are located and click **Configure Server > Functional Authorities**.
2. Double-click the functional authorities record to view.
3. Click **Cancel** if you did not make any changes.

Updating functional authorities for a server

Use Sterling Control Center to update functional authorities for a Sterling Connect:Direct server.

About this task

For more information, see *Functional authorities field definitions*.

To update functional authorities:

Procedure

1. Right-click the Sterling Connect:Direct server where the functional authorities are located and click **Configure Server > Functional Authorities**.
2. Double-click the Functional Authorities record to update.
A functional authorities Properties window with several tabs is displayed.
3. Change the values of the functional authorities fields as required.
4. Click **Update**.

5. To update the functional authorities record only if it matches the copy on Sterling Control Center, select **Update only if the object on the server matches Control Center's copy**.
6. In the **Job Name** field, type a name for the configuration job. In the **Job Description** field, type a description of the configuration job.
7. Select a timing option for running the job:
 - **Now** to update the functional authorities immediately.
 - **Hold for later** to send the job to the job queue with a status of Held.

Note: Select **Hold for later** if you are not ready to initiate the functional authority creation job.

- **Schedule for later** and then specify a time zone and date/time when the job is to run. This option sends the job to the job queue with a status of Scheduled.

Click **Next**.

8. Click **OK**. If you select **Hold for later** as the job timing option, write down the job number so that you can run it at a later time.
9. To run the job or view information about the completed job, click **Go To Job Viewer** or click **Close**.

Copying functional authorities parameters

You can select and copy parameters from one functional authority to another.

About this task

To copy parameters from one functional authority to another:

Procedure

1. Right-click the Sterling Connect:Direct server where the functional authority is located and click **Configure Server > Functional Authorities**.
2. Highlight the functional authorities user record to copy parameters from.
3. Select the **Copy Parameters To** action.
4. Select the Sterling Connect:Direct server groups or servers to which you want to apply this copy. Click **Next** to go to the next page.
5. Select the node entry to which to copy the parameters. Click **Next**.
6. Select the functional authorities parameters to copy. Click **Next**.
7. To copy these functional authorities parameters only if the functional authorities object matches the Sterling Control Center copy, select **Update only if the object on the server matches Control Center's copy**.
8. In the **Job Name** field, type a name for the configuration job. In the **Job Description** field, type a description of the configuration job.
9. Select a timing option for running the job:
 - **Now** to initiate the functional authority parameter copy job immediately.
 - **Hold for later** to send the job to the job queue with a status of Held.

Note: Select **Hold for later** if you are not ready to initiate the functional authority copy job.

- **Schedule for later** and then specify a time zone and date/time when the job is to run. This option sends the job to the job queue with a status of Scheduled.

Click **Next**.

10. Click **Finish**.
11. If you selected **Hold for later** as the job timing option, write down the job number so you can run it at a later time.
12. To rerun the job, or a step within the job, or to view information about the completed job, click **Go To Job Viewer**; otherwise, click **Close**.

Copying functional authorities from one server to another

You can copy functional authorities created on one server to another server of the same type. This method provides a quick way to update functional authorities on additional servers on the same operating system as an initial server.

About this task

To copy functional authorities to another server:

Procedure

1. Right-click the Sterling Connect:Direct server where the functional authorities are located and click **Configure Server > Functional Authorities**.
2. Highlight the functional authorities user record to copy.
3. Select the action **Copy To**.
4. Select the Sterling Connect:Direct server groups or servers to which you want to apply this copy. Click **Next** to go to the next page.
5. To copy these functional authorities over ones that exist on a server, select **Overwrite object if it already exists on the server**.
6. In the **Job Name** field, type a name for the configuration job. In the **Description** field, type a description of the configuration job.
7. Select a timing option for running the job:
 - **Now** to initiate the functional authority copy job immediately.
 - **Hold for later** to send the job to the job queue with a status of Held.

Note: Select Hold for later if you are not ready to initiate the functional authority copy job.

- **Schedule for later** and then specify a time zone and date/time when the job is to run. This option sends the job to the job queue with a status of Scheduled.

Click **Next**.

8. Click **Finish**.
9. If you selected **Hold for later** as the job timing option, write down the job number so you can run it at a later time.
10. To rerun the job, or a step within the job, or to view information about the completed job, click **Go To Job Viewer**; otherwise, click **Close**.

Duplicating functional authorities

You can duplicate an existing functional authority to create another one.

About this task

To duplicate functional authorities:

Procedure

1. Right-click the Sterling Connect:Direct server where the functional authorities are located and click **Configure Server > Functional Authorities**.
2. Highlight the functional authorities record to duplicate.
3. Select the action **Duplicate**.
4. Type a unique name for the functional authority in the **User ID** field.
5. If necessary, change functional authority field values on the Process Control, Process Statements, Server Control, Configuration, Overrides, and Directory panels, clicking **Next** to go the next panel.
6. To copy these functional authorities over ones that might exist on a server, select **Overwrite object if it already exists on the server**.
7. In the **Job Name** field, type a name for the configuration job. In the **Job Description** field, type a description of the configuration job.
8. Select a timing option for running the job:
 - **Now** to initiate the functional authority duplication job immediately.
 - **Hold for later** to send the job to the job queue with a status of Held.

Note: Select Hold for later if you are not ready to initiate the functional authority duplication job.

- **Schedule for later** and then specify a time zone and date/time when the job is to run. This option sends the job to the job queue with a status of Scheduled.

Click **Next**.

9. Click **Finish**.
10. If you selected **Hold for later** as the job timing option, write down the job number so you can run it at a later time.
11. To rerun the job, or a step within the job, or to view information about the completed job, click **Go To Job Viewer**; otherwise, click **Close**.

Removing functional authorities

Use the delete function to remove functional authorities from a Sterling Connect:Direct server.

About this task

To remove functional authorities:

Procedure

1. Right-click the Sterling Connect:Direct server where the functional authorities are located and click **Configure Server > Functional Authorities**.
2. Highlight the functional authorities records to delete. Press and hold the **Ctrl** key to select more than one record.
3. Select the action **Delete**.
4. To identify server groups and servers to delete the specified functional authorities from, double-click the item. Click **Next**.

5. To delete functional authorities only if they match the Sterling Control Center copy, select **Delete only if the object on the server matches Control Center's copy**.
 6. In the **Job Name** field, type a name for the configuration job. In the **Job Description** field, type a description of the configuration job.
 7. Select a timing option for running the job:
 - **Now** to update the file immediately.
 - **Hold for later** to send the job to the job queue with a status of Held.
 - **Schedule for later** and then specify a time zone and date/time when the job is to run. This option sends the job to the job queue with a status of Scheduled.
- Click **Next**.
8. Review the delete choices you selected and click **Finish**.
 9. If you select **Hold for later** as the job timing option, write down the job number so that you can run it at a later time.
 10. To run the job or view information about the completed job, click **Go To Job Viewer** or click **Close**.

Functional authorities field definitions

The following table contains descriptions of the functional authority fields

Field	Description	Valid Values
ACL Update	Microsoft Windows only. Grants authority to define access-allowed and access-denied entries in the Access Control List (ACL) for a file created using a copy Process.	No Yes
Admin	Determines if the user has administrative privileges. (UNIX, Microsoft Windows)	No Yes
CRC	Enables the user to override the default settings by using the keyword CRC in a Process statement. No prevents the user from overriding system default settings. The default is No. Yes lets the user override system default settings.	No Yes
Change	Grants authority to change Processes in the TCQ. Yes specifies that you can change your own Processes; All specifies that you can change Processes of any user.	No Yes All
Confirm Delete	Show confirmation prompt for Delete, Flush, and Suspend commands. (z/OS only)	No Yes
Confirm Delete Off	Grants authority to user to turn off confirmation prompting for Delete, Flush, and Suspend commands. (z/OS only)	No Yes
Contact Name	Name of the user. (UNIX only)	Alphanumeric string.
Copy	Determines if a user can copy files from one node to another. (z/OS, UNIX)	No Yes
Copy Receive	Enables receives. (UNIX only)	No Yes

Field	Description	Valid Values
Copy Send	Enables sends. (UNIX only)	No Yes
Copy ulimit	The action taken when the limit on a user output file size is exceeded during a copy operation. The value for this parameter overrides the equivalent value in the initialization parameters file. (UNIX only)	No Yes Number of KB Yes honors the user file size limit. If this limit is exceeded during a copy operation, the operation fails. No ignores the limit. The default is n. nnnnnnnn, nnnnnnnnK, nnnnnnnnM, or nnnnG establishes a default output file size limit for all copy operations. K denotes 1024 bytes. M denotes 1048576 bytes. G denotes 1073741824 bytes. The maximum value you can specify is 1 TB.
Delete	Grants authority to delete Processes from the TCQ. Yes specifies that you can delete your own Processes; All specifies that you can delete Processes of any user.	No Yes All
Description	Description of the user. (UNIX only)	Alphanumeric string.
Download (directory)	Specifies the directory that the user can copy files to and use as a destination directory. (UNIX, Microsoft Windows)	
Download (Process statements)	Determines if the user can receive files to this local node. If a file open exit is in use, this parameter is passed to the exit, but it is not enforced. (Microsoft Windows)	No Yes
Event Commands	Specifies whether the user can use the Event Services Support commands. (z/OS only)	No Yes
Execution Priority	Microsoft Windows only. Grants authority to override the default execution priority in a Process.	No Yes All
File Attributes	Microsoft Windows only. Grants authority to override system default file attributes when creating files using a copy Process.	No Yes
Flush	Grants authority to remove a Process being run from the TCQ. (z/OS, UNIX)	No Yes All
Functional Authority Update	Specifies whether the user can update a user in the Sterling Connect:Direct authorization file. (z/OS only)	No Yes

Field	Description	Valid Values
Functional Authority Insert	Specifies whether the user can add a user to the Sterling Connect:Direct authorization file. (z/OS only)	No Yes
Functional Authority Delete	Specifies whether the user can delete a user in the Sterling Connect:Direct authorization file. (z/OS only)	No Yes
Functional Authority Select	Specifies whether the user can select a user in the Sterling Connect:Direct authorization file. (z/OS only)	No Yes
Inherent Rights	Microsoft Windows only.	No Yes
Max Signon Attempts	The maximum number of signon attempts the user can try per hour. Zero (0) indicates no maximum number. (z/OS only)	The range is 0–99. The default is 60.
Modals	Specifies whether the user can use the modal statements IF, ELSE, EIF, GOTO, and EXIT. (z/OS only)	No Yes
Monitor	Grants access to the Process Monitor function. Yes - specifies that you can monitor your own Processes All - specifies that you can monitor Processes of any user (UNIX, Microsoft Windows)	No Yes All
Netmap	Grants authority to update the netmap. (Microsoft Windows only)	No Yes
Netmap Select	Grants authority to view the network map. (z/OS only)	No Yes
Netmap Update	Specifies whether the user can update the netmap. (z/OS only)	No Yes
Passticket Data	The values required for the Stage 2 security exit to rewrite a RACF PassTicket password. APPL prof name is the value specified when the profile is defined for the PTICDATA class. (z/OS only)	The first field is the PassTicket application profile name while the second field is the PassTicket security signon key.
Password	The initial password for the user ID. (z/OS only)	1–64 character alphanumeric string.
Phone Number	The phone number associated with the user. (z/OS, UNIX)	
Process	Specifies the directory from which the user can submit a Process. (UNIX, Microsoft Windows)	
Program	Specifies the directory from which the user can run a program. (UNIX, Microsoft Windows)	
Refresh	Microsoft Windows only. Grants authority to refresh the Sterling Connect:Direct server initialization parameters.	No Yes
Remote Node ID	Grants authority to use the remote node ID parameter on the Process statement or when submitting the Process Submit command. (UNIX, Microsoft Windows)	No Yes
Reset Signon	Grants authority to reset signons. (z/OS only)	No Yes

Field	Description	Valid Values
Run Job	Grants authority to use run job Process statements.	No Yes
Run Task	Grants authority to use run task Process statements.	No Yes
Secure+ Admin	Specifies whether the user can update the Sterling Connect:Direct Secure Plus parameters file. (z/OS only)	No Yes
Secure+ Configuration	Specifies whether the user can update the Sterling Connect:Direct Secure Plus parameters file. (UNIX only)	No Yes
Secure Plus	Specifies whether the user can update the Sterling Connect:Direct Secure Plus parameters file. (Microsoft Windows only)	No Yes
Security ID	The security ID to identify the file authorization of the user. Security support includes CA-ACF2, CA-TOP SECRET, and IBM RACF. This ID must meet the standards of the security subsystem at the user location. (z/OS only)	1–64 character security system ID for the user
Security ID Password	The 1–64 character security system password for the user. This password must meet the standards of the security subsystem at the location of the user. (z/OS only)	1–64 characters.
Security ID Password Verify	Retype the 1–64 character security system password for the user to verify its value. (z/OS only)	1–64 characters.
Select Process	Grants authority to use the Select Process command. (z/OS only)	No Yes
Stat Commands	Grants authority to use the Statistics commands. (z/OS only)	No Yes
Statistics	Grants authority to access Process statistics using the Select Statistics command. Yes specifies that you can access statistics for your own Processes; All specifies that you can access statistics for the Processes of any user.	No Yes All
Stop	Grants authority to stop a Sterling Connect:Direct node. (UNIX, Microsoft Windows, z/OS)	No Yes
Submit	Grants authority to submit Processes to the TCQ using the Submit Process command. Yes specifies that you can submit your own Processes.	No Yes
Submit within Process	Grants authority to submit within another Process statement.	No Yes
Trace	Grants authority to access the Trace utility. (UNIX, Microsoft Windows, z/OS)	No Yes
Trace and Refresh Initialization Parameters	Grants authority to modify initialization parameters. (z/OS only)	No Yes

Field	Description	Valid Values
Translation Table	Grants authority to update the translation tables. (Microsoft Windows only)	No Yes
Trustee Assign	Microsoft Windows only.	No Yes
Type	The type of functional authority. (Microsoft Windows)	User Group
Type Delete	Specifies whether the user can delete type records. (z/OS only)	No Yes
Type Insert	Specifies whether the user can create new type records. (z/OS only)	No Yes
Type Select	Specifies whether the user can select new type records. (z/OS only)	No Yes
Type Update	Specifies whether the user can update type records. (z/OS only)	No Yes
Update APKEY	Specifies whether the user can update the license management key (also known as the asset protection key file). (z/OS only)	No Yes
Update Initialization Parameters	Grants authority to update initialization parameters. (z/OS only)	No Yes
Upload (directory)	Specifies the directory that the user can copy files from and use as a source directory. (UNIX, Microsoft Windows)	
Upload (process statements)	Determines if the user can send files from this local node. If a file open exit is in use, this parameter is passed to the exit, but it is not enforced. (Microsoft Windows)	No Yes
User Authority	Grants authority to update local user Sterling Connect:Direct functional authorities. (Microsoft Windows only)	No Yes
User ID	User identification.	1-64 characters
User Name	The full name of the user. (z/OS only)	1-20 characters.
User Node	The user node of the user record. (z/OS only)	1-16 character alphanumeric string.
User Proxy	Grants authority to update user proxies. (Microsoft Windows only)	No Yes
Verify Password	Retype the password to verify the value. (z/OS only)	1-64 character alphanumeric string.
View Processes	Determines if the user can issue the view Process command. No - Prevents the user from issuing the command. The default is No. Yes - Lets the user issue the command. All - Lets the user issue the command against targets owned by all users.	No Yes All

Creating a functional authority template

You can create a functional authority template to define the most commonly used values. Then use the template to quickly create a definition for a server. Create a template by copying a functional authority definition from a server or an existing template or by defining all values in the template.

About this task

To create a functional authorities template:

Procedure

1. From the menu bar, select **Configure Servers > Templates > Functional Authorities**.
2. Select the action **Create New**.
3. Take one of these steps:
 - To create a template and manually type all values, ensure that **Enter new Functional Authority details** is selected.
 - To create a template from an existing definition, select **Start from an existing Functional Authority entry on another server**. Identify the server where the definition is located in the **Server** field and the functional authority entry to copy in the **Functional Authority** field.
 - To create a template from an existing template, select **Start from a template** and select the template to copy in the **Template** field.
4. Click **Next**.
5. Take one of these steps:
 - For a new template, define all functional authority fields.
 - For a template created from an existing template or entry, assign a unique name to the template. Change the other field values as necessary.
6. Click **Next** to move through the dialog boxes for each authority.
7. Review the template details in the Confirm Choices dialog box. Click **Finish**.
8. Click **Close**.

Duplicating a functional authority template

Follow this procedure to duplicate a functional authority template.

About this task

To duplicate a functional authority template:

Procedure

1. From the menu bar, select **Configure Servers > Templates > Functional Authorities**.
2. Highlight the template to duplicate.
3. Select the action **Duplicate**.
4. Type a unique name for the template in the **Template Name** field.
5. If necessary, change functional authority field values and click **Next**.
6. Review the template details in the Confirm Choices dialog box and click **Finish**.
7. Click **Close**.

Copying functional authority parameters from a template to a server

Follow this procedure to copy functional authority parameters from a template.

About this task

To copy functional authority parameters from a template:

Procedure

1. From the menu bar, select **Configure Servers > Templates > Functional Authorities**.
 2. Highlight the template to copy.
 3. Select the action **Copy Parameters To**.
 4. Select the Sterling Connect:Direct server groups or servers to which you want to apply this copy and click **Next**.
 5. In the Destination Node Entry(s) window, select the functional authorities definitions where the parameters are to be copied and click **Next**.
 6. In the General Details window, select the parameters to copy and click **Next**.
 7. To update the values only if the functional authorities file matches the file on Sterling Control Center, select **Update only if the object on the server matches Control Center's copy**.
 8. In the **Job Name** field, type a name for the configuration job. In the **Job Description** field, type a description of the configuration job.
 9. Select a timing option for running the job:
 - **Now** to update the file immediately.
 - **Hold for later** to send the job to the job queue with a status of Held.
 - **Schedule for later** and then specify a time zone and date/time when the job is to run. This option sends the job to the job queue with a status of Scheduled.
- Click **Next**.
10. Click **Finish**.
 11. If you selected **Hold for later** as the job timing option, write down the job number so that you can run it at a later time.
 12. To run the job or view information about the completed job, click **Go To Job Viewer** or click **Close**.

Deleting a functional authority template

Follow this procedure to delete a functional authority template.

About this task

To delete a functional authority template:

Procedure

1. From the menu bar, select **Configure Servers > Templates > Functional Authorities**.
2. Highlight the template to delete.
3. Select the action **Delete**.
4. At the confirmation window, click **OK**.

Chapter 3. Manage initialization parameters

Initialization parameters are defined when you install Sterling Connect:Direct and determine startup settings for a server and default values for Sterling Connect:Direct functions. You can change the default Sterling Connect:Direct settings by changing an initialization parameter value.

Use Sterling Control Center to view, update, or delete an initialization parameter value on UNIX, Microsoft Windows, or z/OS servers.

Viewing Initialization Parameters

Initialization parameters are defined when you install Sterling Connect:Direct. Use Sterling Control Center to view initialization parameters defined in Sterling Connect:Direct, modify parameters in an initialization parameters file, or delete a value assigned to a parameter.

About this task

Use one of these views to look at or update values in the initialization parameters file:

- **Table view**—Shows details about initialization parameters including a description and its value and details about the syntax of parameters. It is useful for a less experienced operator who needs help updating parameters.
- **Full text view**—If you are experienced with initialization parameters, use Full Text view to view and directly change the initialization parameters file. Syntax checking is also available in Full Text view. Invalid values are highlighted in red, and help is provided as with Table view.

Note: When the Sterling Connect:Direct for z/OS server is a Sterling Connect:Direct/Plex server, the global initialization parameters and all local initialization parameters are displayed. The global parameters are identified by the section header [GLOBAL]. The local initialization parameters of each server are identified by a separate header. Example: [LOCAL MANAGER=YES] for the manager and [LOCAL SERVER=SERVER1] for the member called SERVER1.

To view initialization parameters for a server:

Procedure

1. Right-click the Sterling Connect:Direct server where the initialization parameters file is located and click **Configure Server > Initialization Parameters**.
2. Double-click the initialization parameters file to view. A table view is displayed.
3. To view the text view, click the **Full Text View** tab.
4. If the server is a UNIX computer, initialization parameters with no value assigned are not displayed. To view all parameters including parameters with no value, select **Show All Parameters**.
5. Click **Cancel**.

Updating initialization parameters for a server

In Sterling Control Center, you can update the initialization parameters of a server.

About this task

If you change a parameter it is validated before the change is applied. If the change is not valid an error message is displayed and the change is not made.

To update initialization parameters values:

Procedure

1. Right-click the Sterling Connect:Direct server where the initialization parameters file is located and click **Configure Server > Initialization Parameters**.
2. Double-click the initialization parameters file to update. A table view of the initialization parameters is displayed.
3. To update an initialization parameters field from the table view:
 - a. Double-click the parameter to modify.
 - b. In the **Value** field, type the new parameter value.
 - c. See the help in the product or the Sterling Connect:Direct documentation for the platform you are updating.
 - d. To move to the next initialization parameter in the file, click the down arrow.
4. To update an initialization parameters file from full-text view:
 - a. Click the **Full Text View** tab.
 - b. Highlight the parameter to modify and change the value.
 - c. To locate a parameter, type the value in the **Find** field. The first value that matches the string you typed is highlighted in green. Click the up or down arrow until you find the parameter to update.
 - d. Click **Update** to close the Initialization Parameters Properties window.
5. To update the initialization parameters only if they match the copy on Sterling Control Center, select **Update only if the object on the server matches Control Center's copy**.
6. In the **Job Name** field, type a name for the configuration job. In the **Job Description** field, type a description of the configuration job.
7. Select a timing option for running the job:
 - **Now** to update the file immediately.
 - **Hold for later** to send the job to the job queue with a status of Held.

Note: Select Hold for later if you are unsure of your changes or are not finished changing parameters.

- **Schedule for later** and then specify a time zone and date/time when the job is to run. This option sends the job to the job queue with a status of Scheduled.

Click **Next**.

8. If you select **Hold for later** as the job timing option, write down the job number so you can easily find the job in the job queue later.
9. To run the job or view information about the completed job, click **Go To Job Viewer** or click **Close**.

Copying initialization parameters from one server to another

You can copy initialization parameters created on one server to another server.

About this task

This method provides a quick way to update parameters on additional servers on the same operating system as an initial server.

To copy initialization parameters to another server:

Procedure

1. Right-click the Sterling Connect:Direct server where the initialization parameters file is located and click **Configure Server > Initialization Parameters**.
2. Highlight the initialization parameters file to copy.
3. Select the action **Copy Parameters To**.
4. Select the Sterling Connect:Direct server groups or servers to which you want to copy parameters. Click **Next** to go to the next page.
5. In the Initialization Parameters Details window, select the parameters to copy and click **Next**.
6. To allow values of existing parameters to change only if the initialization parameters file on Sterling Control Center matches that on the server, click **Update Initialization Parameters only if the object on the server matches Control Center's copy**.
7. In the **Job Name** field, type a name for the configuration job. In the **Job Description** field, type a description of the configuration job.
8. Select a timing option for running the job:
 - **Now** to update the file immediately.
 - **Hold for later** to send the job to the job queue with a status of Held.
 - **Schedule for later** and then specify a time zone and date/time when the job is to run. This option sends the job to the job queue with a status of Scheduled.Click **Next**.
9. Review the copy parameters you selected and click **Finish**.
10. If you selected **Hold for later** as the job timing option, write down the job number so you can easily find the job in the job queue later.
11. To run the job or view information about the completed job, click **Go To Job Viewer** or click **Close**.

Removing an initialization parameter value

You can remove a value assigned to an initialization parameter.

About this task

The parameter is not removed; however, it has no value assigned to it.

To remove an initialization parameters value:

Procedure

1. Right-click the Sterling Connect:Direct server where the initialization parameters file is located and click **Configure Server > Initialization Parameters**.
 2. Double-click the initialization parameters file to view. A table view is displayed.
 3. Right-click the parameter to clear and click **Remove Parameter Value**.
On Microsoft Windows servers, the parameter value is reset to **<None>**. For UNIX and z/OS servers, the value is removed.
 4. Click **Update**.
 5. To update the parameter only if the initialization parameters file on Sterling Control Center matches the file at the Sterling Connect:Direct server, select **Update only if the object on the server matches Control Center's copy**.
 6. In the **Job Name** field, type a name for the configuration job. In the **Job Description** field, type a description of the configuration job.
 7. Select a timing option for running the job:
 - **Now** to update the file immediately.
 - **Hold for later** to send the job to the job queue with a status of Held.
 - **Schedule for later** and then specify a time zone and date/time when the job is to run. This option sends the job to the job queue with a status of Scheduled.
- Click **Next**.
8. If you selected **Hold for later** as the job timing option, write down the job number so you can easily find the job in the job queue later.
 9. To run the job or view information about the completed job, click **Go To Job Viewer** or click **Close**.

Creating an initialization parameters template

You can create an initialization parameters template to define the most commonly used initialization parameters values. Then use the template to quickly update initialization parameters for a server. Create a template by copying an initialization parameters file from another server or from an existing template.

About this task

To create an initialization parameters template:

Procedure

1. From the menu bar, select **Configure Servers > Templates > Initialization Parameters**.
2. Select the action **Create New**.
3. Take one of these steps:
 - To create a template from an existing initialization parameters file on another server, select **Start from existing initparms on another server**. Select the server where the initialization parameters file is located and the file to copy in the **Node entry** field.
 - To create a template from an existing template, select **Start from an initparms template** and select the template to copy in the **Template entry** field.
4. Click **Next**.
5. Type a name for the template in the **Template Name** field and click **Next**.

- Important:** Because you are copying an existing template or initialization parameters file, the operating system associated with the template cannot be changed. Valid initialization parameters vary for each operating system.
- Update any initialization parameters values as needed and click **Next**.
See the help in the product or the Sterling Connect:Direct documentation for the platform you are updating.
 - Review the template details in the Confirm Choices dialog box. Click **Finish**.
 - Click **Close**.

Duplicating an initialization parameters template

You can duplicate an initialization parameters template to create a template based on an existing template.

About this task

To duplicate an initialization parameters template:

Procedure

- From the menu bar, select **Configure Servers > Templates > Initialization Parameters**.
- Highlight the template to duplicate.
- Select the action **Duplicate**.
- Type a unique name for the template in **Template Name** and click **Next**.

Important: Because you are copying an existing template, the operating system associated with the template cannot be changed. Valid initialization parameters vary for each operating system.

- If necessary update initialization parameters values and click **Next**.
See the help in the product or the Sterling Connect:Direct documentation for the platform you are updating.
- Review the template details in the Confirm Choices dialog box and click **Finish**.
- Click **Close**.

Copying initialization parameters from a template to a server

You can copy initialization parameters created in a template to a server.

About this task

To copy initialization parameters from a template:

Procedure

- From the menu bar, select **Configure Servers > Templates > Initialization Parameters**.
- Highlight the initialization parameters template to copy.
- Select the action **Copy Parameters To**.
- Select the Sterling Connect:Direct server groups or servers to which you want to apply this copy. Click **Next** to go to the next page.
- In the Initialization Parameters Details window, select the parameters to copy. Click **Next**.

6. In the **Job Name** field, type a name for the configuration job. In the **Job Description** field, type a description of the configuration job.
 7. Select a timing option for running the job:
 - **Now** to update the file immediately.
 - **Hold for later** to send the job to the job queue with a status of Held.
 - **Schedule for later** and then specify a time zone and date/time when the job is to run. This option sends the job to the job queue with a status of Scheduled.
- Click **Next**.
8. Review the parameters you selected and click **Finish**.
 9. If you selected **Hold for later** as the job timing option, write down the job number so you can easily find the job in the job queue later.
 10. To run the job or view information about the completed job, click **Go To Job Viewer** or click **Close**.

Deleting an initialization parameters template

Follow this procedure to delete an initialization parameters template.

About this task

To delete an initialization parameters template:

Procedure

1. From the menu bar, select **Configure Servers > Templates > Initialization Parameters**.
2. Highlight the template to delete.
3. Select the action **Delete**.
4. At the confirmation window, click **OK**.

Chapter 4. Manage netmap nodes

The network map of a Sterling Connect:Direct server identifies the remote nodes it can communicate with and the communications information needed to establish a connection.

Sterling Control Center lets you view, add, modify, or delete netmap node definitions for Sterling Connect:Direct servers, or create a netmap node template to use to create them.

Viewing and updating a netmap node definition

Netmap nodes can be viewed and updated in Sterling Connect:Direct or in Sterling Control Center.

About this task

For more information, see *Netmap node field definitions*.

To view and update a netmap node:

Procedure

1. In the Sterling Control Center window, right-click the server where the node is located and click **Configure Server > Netmap > Netmap Nodes**.
 2. Double-click the node name.
 3. Click tabs to view all netmap node information.
 4. Click **Cancel** to close without saving changes, or to update the netmap node definition, click **Update**.
 5. Click **Update only if the object on the server matches Control Center's copy** if you want to update the node definition only under this condition.
 6. In the Initialization Parameters Details window, select the parameters to copy. Click **Next**.
 7. In the **Job Name** field, type a name for the configuration job. In the **Job Description** field, type a description of the configuration job.
 8. Select a timing option for running the job and click **Next**:
 - **Now** to initiate the netmap node update job immediately.
 - **Hold for later** to send the job to the job queue with a status of Held.
- Tip:** Select **Hold for later** if you are not ready to initiate the node update job.
- **Schedule for later** and then specify a time zone and date/time when the job is to run. This option sends the job to the job queue with a status of Scheduled.
9. If you selected **Hold for later** as the job timing option, write down the job number so that you can run it at a later time.
 10. To rerun the job, or a step within the job, or to view information about the completed job, click **Go To Job Viewer**; otherwise, click **Close**.

Creating a netmap node definition

Use Sterling Control Center to create a netmap node entry by defining all parameters.

About this task

You can also copy parameters from an existing netmap node on another server or from a template to create a netmap node entry.

For more information, see *Netmap node field definitions*.

To create a netmap node entry:

Procedure

1. In the Sterling Control Center window, right-click the server where the netmap node is to be created and click **Configure Server > Netmap > Netmap Nodes**.
2. Select the action **Create New**.
3. Select one or more Sterling Connect:Direct servers or server groups to which to add the node. Click **Next**.

Note: By selecting servers here, Sterling Control Center can prompt later for the appropriate parameters.

4. Take one of these steps:
 - To create a node definition by typing all information, select **Enter all node details**.
 - To create a node definition by copying an existing node, select **Start from existing node entry on another server**. In the **Server** field, select the server where the node definition is located. In the **Node entry** field, select the node to copy.
 - To create a node definition from an existing template, select **Start from a Node template** and select the template to copy in the **Template entry** field.
5. Click **Next**.
6. Define information about the new node, including Node Name and click **Next**.
7. Define platform-specific information about the new node and click **Next**.
8. To replace an existing netmap node definition on the destination node, select **Overwrite object if it already exists on the server**.
9. In the **Job Name** field, type a name for the configuration job. In the **Job Description** field, type a description of the configuration job.
10. Select a timing option for running the job:
 - **Now** to initiate the netmap node creation immediately.
 - **Hold for later** to send the job to the job queue with a status of Held.

Note: Select **Hold for later** if you are not ready to initiate the netmap node creation job.

- **Schedule for later** and then specify a time zone and date/time when the job is to run. This option sends the job to the job queue with a status of Scheduled.

Click **Next**.

11. Click **Finish**.
12. If you selected **Hold for later** as the job timing option, write down the job number so you can run it at a later time.
13. To rerun the job, or a step within the job, or to view information about the completed job, click **Go To Job Viewer**; otherwise, click **Close**.

Copying netmap node parameters to another node entry

You can copy netmap node parameters from one node entry to another.

About this task

To copy parameters from one node entry to another:

Procedure

1. In the Sterling Control Center window, right-click the server where the node is to be copied, and click **Configure Server > Netmap > Netmap Nodes**.
2. Highlight the netmap node to copy parameters from.
3. Select the action **Copy Parameters To**.
4. Select one or more Sterling Connect:Direct servers or server groups to which to apply the definition. Click **Next**.
5. Select the netmap node entries on which to copy the parameters. Click **Next**.
6. Select the parameters to copy to the destination netmap node entries. You can select parameters individually, a group of parameters by section, or all parameters. Click **Next**.
7. To copy the parameters to the node only if it matches the copy on Sterling Control Center, select **Update only if the object on the server matches Control Center's copy**.
8. In the **Job Name** field, type a name for the configuration job. In the **Job Description** field, type a description of the configuration job.
9. Select a timing option for running the job:
 - **Now** to initiate the netmap node parameter copy immediately.
 - **Hold for later** to send the job to the job queue with a status of Held.

Note: Select **Hold for later** if you are not ready to initiate the parameter copy.

- **Schedule for later** and then specify a time zone and date/time when the job is to run. This option sends the job to the job queue with a status of Scheduled.

Click **Next**.

10. Click **Finish**.
11. If you selected **Hold for later** as the job timing option, write down the job number so you can run it at a later time.
12. To rerun the job, or a step within the job, or to view information about the completed job, click **Go To Job Viewer**; otherwise, click **Close**.

Copying a netmap node entry

You can copy a full netmap node entry to netmaps in selected servers, and servers within server groups.

About this task

To copy a netmap node entry to another server:

Procedure

1. In the Sterling Control Center window, right-click the server where the node is located and click **Configure Server > Netmap > Netmap Nodes**.
 2. Highlight the netmap node or nodes to copy.
 3. Select the action **Copy To**.
 4. Select one or more Sterling Connect:Direct servers or server groups to which to copy the netmap node entry. Click **Next** on both wizard pages.
 5. Change basic node entry details and click **Next**. For more information, see *Netmap node field definitions*.
 6. Change platform-specific node entry details and click **Next**.
 7. To update the node entry only if it matches the copy on Sterling Control Center, select **Update only if the object on the server matches Control Center's copy**.
 8. In the **Job Name** field, type a name for the configuration job. In the **Job Description** field, type a description of the configuration job.
 9. Select a timing option for running the job:
 - **Now** to initiate the netmap node entry copy immediately.
 - **Hold for later** to send the job to the job queue with a status of Held.
- Note:** Select **Hold for later** if you are not ready to initiate the netmap node entry copy job.
- **Schedule for later** and then specify a time zone and date/time when the job is to run. This option sends the job to the job queue with a status of Scheduled.
- Click **Next**.
10. Click **Finish**.
 11. If you selected **Hold for later** as the job timing option, write down the job number so you can run it at a later time.
 12. To rerun the job, or a step within the job, or to view information about the completed job, click **Go To Job Viewer**; otherwise, click **Close**.

Duplicating a netmap node entry

You can duplicate a netmap node entry to create a node entry on the same server.

About this task

To duplicate a netmap node entry on the same server:

Procedure

1. In the Sterling Control Center window, right-click the server to duplicate and click **Configure Server > Netmap > Netmap Nodes**.
2. Select the netmap node entry to duplicate.
3. Select the action **Duplicate**.
4. On the Basic Node Details screen, type a unique node name in the **Node Name** field. Modify other fields as necessary, and click **Next**.
5. Change platform-specific node entry details as necessary. Click **Next**.

6. To add the duplicated node entry even if it is already defined on the destination node, select **Overwrite object if it already exists on the server**.
7. In the **Job Name** field, type a name for the configuration job. In the **Job Description** field, type a description of the configuration job.
8. Select a timing option for running the job:
 - **Now** to initiate the netmap node duplication job immediately.
 - **Hold for later** to send the job to the job queue with a status of Held.

Note: Select **Hold for later** if you are not ready to initiate duplication of the netmap node.

- **Schedule for later** and then specify a time zone and date/time when the job is to run. This option sends the job to the job queue with a status of Scheduled.

Click **Next**.

9. Click **Finish**.
10. If you selected **Hold for later** as the job timing option, write down the job number so you can run it at a later time.
11. To rerun the job, or a step within the job, or to view information about the completed job, click **Go To Job Viewer**; otherwise, click **Close**.

Deleting a netmap node entry

You can delete a netmap node entry from a Sterling Connect:Direct server that is managed by Sterling Control Center.

About this task

To delete a netmap node entry:

Procedure

1. In the Sterling Control Center window, right-click the server where the node entry is defined and click **Configure Server > Netmap > Netmap Nodes**.
2. Highlight the netmap node or nodes to delete.
3. Select the action **Delete**.
4. Select servers or server groups from which to delete the netmap node entry.
5. To delete the node entry only if it matches Sterling Control Center copy, select **Delete object only if it matches Control Center's copy**.
6. In the **Job Name** field, type a name for the configuration job. In the **Job Description** field, type a description of the configuration job.
7. Select a timing option for running the job:
 - **Now** to initiate the netmap node deletion immediately.
 - **Hold for later** to send the job to the job queue with a status of Held.

Note: Select **Hold for later** if you are not ready to initiate deletion of the netmap node.

- **Schedule for later** and then specify a time zone and date/time when the job is to run. This option sends the job to the job queue with a status of Scheduled.

Click **Next**.

8. Click **Finish**.

9. If you selected **Hold for later** as the job timing option, write down the job number so you can run it at a later time.

Netmap node field definitions

The following table describes the fields used in creating a netmap node entry or template.

The fields you use depend on the platform on which the node is defined.

Field	Description	Valid Values
API Max Connects	Maximum number of concurrent API connections permitted for the local node.	A numeric value in the range of 1–256.
APPC Mode	The session type of APPC mode.	APPC Mode.
Alt Comm Outbound	<p>Alternative communication address (communication path) used for outbound Processes. This parameter provides the alternative addresses for a remote node with multiple NIC cards. When the local node is the PNODE, the alternative addresses are tried (starting with the first IP address listed) if an initial attempt fails. After a connection is established, if the connection is later lost, attempts to reestablish it through retry use the same address as the initial connection.</p> <p>When the local node is the SNODE, the alternative addresses are used in the netmap check.</p> <p>Note: Do not use this parameter in a Sterling Connect:Direct for Microsoft Windows outbound Process if the SNODE is Sterling Connect:Direct/ Plex.</p>	<p>Fully qualified host name or IP address and port number.</p> <p>A comma separates the list of alternative communication paths as shown in this example: salmon;9400, 10.20.40.65;9500</p> <p>The list is processed from left to right.</p>

Field	Description	Valid Values
Alternate Comminfo	<p>Support for establishing netmap-checked sessions with high-availability (especially load balancing) systems with multiple IP addresses, such as Sterling Connect:Direct/Plex for z/OS. Use this parameter to list all IP addresses or host names that are part of the multiple IP address environment.</p> <p>For Sterling Connect:Direct/Plex, include the address of each Sterling Connect:Direct/Server with a different IP address from the Sterling Connect:Direct/Plex Manager.</p> <p>If a remote node has more than one outgoing IP address (as in a load balancing environment), specify outgoing addresses of all possible remote nodes in the Alternate Comminfo field. The outgoing IP addresses are then contained in the local node netmap entry for that remote node. Doing so lets netmap checking succeed when the remote node connects to the local node using any of the possible outgoing IP addresses.</p>	<p>Hostname1/IP address, Hostname2/IP address, Hostname3/IP address</p> <p>Host name—Host name associated with the IP address. For example:</p> <p>hops (where hops is a computer on the local domain)</p> <p>hops.csg.stercomm.com (fully qualified host name)</p> <p>nnn.nnn.nnn.nnn or nnnn:nnnn:nnnn:nnnn:nnnn:nnnn:nnnn:nnnn IP address of a computer running Sterling Connect:Direct</p>
Buffer Size	The buffer size for transmitting data to and from a Sterling Connect:Direct for UNIX node. This value overrides the value in the initialization parameters file.	<p>A numeric value in the range of 256–65536.</p> <p>The default is 65535.</p>
Communication Path	Transport and protocol information about the available communication paths and their attributes.	Each communication path definition specifies a default communication mode.
Conn Retry Exhaust Action	Action to take after the specified numbers of short and long-term attempts have been made.	<p>hold places Processes in the Hold queue in Held in Error status after all additional attempts are made. hold is the default value.</p> <p>delete causes the Processes to be deleted from the TCQ.</p>
Contact Name	The name of the Sterling Connect:Direct administrator or operator for the node.	A one- to 49-character (alphanumeric) string.
Contact Phone	The phone number of the administrator or operator for the node. Do not use blanks in this string.	A one- to 39-character (alphanumeric) string.
Default Class	The default session class used to start session managers. A Process runs on the specified class or any higher session class. This value overrides the equivalent value for this node in the initialization parameters.	A numeric value from 1 to the value of maximum concurrent local node connections (sess.pnode.max). The default value is 1. The value cannot be greater than the maximum number of local sessions with primary control.
Description	A description of the node entry.	A 1- to 127-character (alphanumeric) string
LU62 Profile Name	The profile name to identify the name of an SNA configuration profile for the remote connection.	A profile name, up to 8 characters.

Field	Description	Valid Values
LU62 writex wait	If you are using SNA on an IBM AIX operating system, use this parameter to identify how long to wait before retrying the connection.	Numeric value in seconds. The default value is 1.
LU62 writex attempts	If you are using SNA on an IBM AIX operating system, use this parameter to identify how many times to attempt a connection.	0–2,147,483,647 The default value is 0.
Long Term Retries	The number of additional attempts if a long-term connection fails.	A numeric value in the range of 1–255. The default is 10 for Microsoft Windows, 6 for UNIX.
Long Term Retry Interval	The amount of time to wait between each long-term retry attempt. A 24-hour time value formatted as hh:mm:ss.	A 24-hour time value formatted as hh:mm:ss. The maximum value is 23:59:59. The default is 00:03:00, or 3 minutes, for Microsoft Windows, 00:10:00, or 10 minutes, for UNIX.
Max PNODE Sessions	The maximum number of concurrent connections to this node that can be initiated. The maximum number of concurrent sessions is limited to the lesser of the values defined in the initialization parameters file and the network map definition for a node.	A numeric value 0 - 255. The default is 255 for UNIX, 1 for Microsoft Windows. For a workstation version of Sterling Connect:Direct for Microsoft Windows, maximum PNODE sessions is limited to 1.
Max SNODE Sessions	The maximum number of concurrent connections from this node that can be initiated. The maximum number of concurrent sessions is limited to the lesser of the values defined in the initialization parameters file and the network map definition for a node.	A numeric value 0 - 255. The default is 255 for UNIX, 1 for Microsoft Windows. For a workstation version of Sterling Connect:Direct for Microsoft Windows, maximum SNODE sessions is limited to 2.
Netmap Check	Enhanced security testing performed on the SNODE. For TCP/IP connections, the remote IP address of the incoming socket connection is compared to the comm.info record of the netmap.cfg file. These values must match for an Sterling Connect:Direct session to be established. The comm.info record can be the official network name, an alias name listed in the appropriate file (for example, /etc/hosts, if the system is not running NIS or DNS), or the IP address. For all connections, the remote node name must be in the netmap.cfg.	TRUE FALSE LOCAL REMOTE TRUE—Specifies that the security checks are made to verify that the remote node name is in the netmap.cfg file. FALSE—Specifies that none of these security checks are made. LOCAL—Checks the network map only for nodes that the local Sterling Connect:Direct will initiate sessions with. REMOTE—Checks the network map only for remote nodes that will communicate with this node. The default value is FALSE
Network Name	Name of the SNA network to which the remote Sterling Connect:Direct node is connected.	SNA network name
Node Name	A name to assign to the node entry.	A one- to 16-character (alphanumeric) string
Operating System	The operating system of the remote node.	MVS Netware Open VMS VMS Wrap OS/390 OS 400 HP NonStop UNIX VM VS VSE Windows

Field	Description	Valid Values
Outgoing Address	If running in a high availability environment, this parameter enables you to specify the virtual IP address for the remote node to use for network map checking and prevents the process from failing when initiated from within a high availability environment. Specify the IP address for this value and network map checking verifies the address instead of the value set in comm.info in the SNODE network map record.	IPV4 or IPV6 address
Pacing Send Count	The number of send operations to perform before automatically waiting for a pacing response from the remote node. The value for this parameter has no effect on LU6.2 connections.	No limit exists for the size of this value. The default is 0, which indicates no pacing of this type.
Pacing Send Delay	The time to wait between send operations to the remote node. The decimal number is the number of milliseconds between the end of one packet and the beginning of the next packet. Time-based pacing does not contribute to network traffic. The value for this parameter has no effect on LU6.2 connections.	The format is nnn. The size of this number has no limit. The default is 0, which indicates no pacing of this type.
Parallel Sessions	The maximum number of simultaneous DTF-to-DTF sessions that the local Sterling Connect:Direct node can initiate with this adjacent node.	For z/OS, the range is 2–255. For Microsoft Windows and UNIX, the range is 0–255.
Partner LU	Name of the partner node to be used as the remote connection end point for the LU-to-LU session. This field is the VTAM APPLID for host connections or partner LU name for LU 6.2 only.	An 1–8 character alphanumeric string
Proxy Attempt	Enables the ID subparameter of snodeid to contain a proxy, or dummy user ID to be used for translation to a local user ID on the remote system. Using a dummy user ID improves security because neither the local system nor the remote system requires a valid user ID from the other side.	TRUE FALSE TRUE—Specifies that the remote users can specify a dummy user ID in snodeid parameter. FALSE—Specifies that the remote users cannot specify dummy user ID in snodeid parameter. The default is FALSE.
Runstep Max Time to Wait	The maximum time to wait for remote run steps to complete. Remote run steps include remote run task, run job, or submit statements. This wait time is different from the wait time specified by the tcp.max.time.to.wait parameter. Using runstep.max.time.to.wait prevents a Process from failing when a remote step takes longer to complete than specified in tcp.max.time.to.wait. The value is in seconds.	The default value is 0.

Field	Description	Valid Values
Session Type	The type of communications session used to connect to the remote node.	APPC TCP/IP UDT33 APPC and TCP/IP APPC and UDT33 TCP/IP and UDT33 APPC and TCP/IP and UDT33 z/OS: TCP SNA SNUF CTCA UDT33
Short Term Retries	The number of additional attempts to connect if a short-term connection fails. Long-term parameters are used after the number of short-term attempts you specify has been reached.	A numeric value in the range of 1–255. The default is 10 for Microsoft Windows, 3 for UNIX.
Short Term Retry Interval	The amount of time to wait between each short-term retry attempt. A 24-hour time value formatted as hh:mm:ss.	The maximum value is 23:59:59. The default is 00:00:10 or 10 seconds for Microsoft Windows, 00:00:30 or 30 seconds for UNIX.
TCP CRC	Turn on or off the CRC function for TCP/IP processes on the remote node.	Yes No
TCP Address	The host name or IP address of the node. Alias names are not supported.	A numeric value in the format nnn.nnn.nnn.nnn (IPv4) or nnnn:nnnn:nnnn:nnnn:nnnn:nnnn:nnnn:nnnn (IPv6) or the host name.
TCP API Address	The host name or IP address to listen for API connections. (UNIX local.node only).	A numeric value in the format nnn.nnn.nnn.nnn (IPv4) or nnnn:nnnn:nnnn:nnnn:nnnn:nnnn:nnnn:nnnn (IPv6) or the host name. Note: Separate multiple TCP API addresses with commas.
TCP API Buff Size	The buffer size for transmitting data to and from a Sterling Connect:Direct CLI/API.	No limit exists for the size of this value.
TCP API Inactivity Timeout	The maximum time a CMGR waits before exiting when it has not received a command from a client program.	A numeric value in the range of 0–86399.
TCP API Port	The port used to listen for API connections. (UNIX local.node only).	A numeric value in the format nnnnn, where nnnnn is a positive integer from 1 to 65535. Note: Separate multiple TCP API ports with commas.
TCP Max Time To Wait	The maximum time the local node waits for a message from the remote node when using TCP/IP. When the time expires, the Process is moved to the Timer queue and Sterling Connect:Direct attempts to re-establish a session with the remote node. When set to 0, wait time is unlimited unless limited by the operating system. Note: This parameter also applies to the UDT protocol.	The value is in seconds. The default value is 180.
TCP Mode	The Sterling Connect:Direct for Microsoft Windows netmap mode.	
TCP Port	The port number to use to attempt to connect to the node	A numeric value in the format nnnnn, where nnnnn is a positive integer from 1 to 65535.

Creating a netmap node entry template

You can create a netmap node entry template by typing all information or by copying information from an existing node entry or template.

About this task

To create a netmap node entry template:

Procedure

1. On the menu bar, select **Configure Servers > Templates > Netmap Nodes**.
2. Select the action **Create New**.
3. Take one of these steps:
 - To create a template by typing all the information, select **Enter all node details**.
 - To create a template from an existing node entry, select **Start from an existing node entry on another server**. Select the server name in the **Server** field and the node entry name in the **Node Entry** field.
 - To create a template from an existing template, select **Start from a Node template**. Select the template from the **Template entry** field.
4. Click **Next**.
5. Type the name of the new template.
6. Type values in the other fields as necessary, and click **Next**.
7. On the Node Details for each platform, type the values in the fields as necessary. Click **Next** to move through each platform detail screen.
8. At the Confirm Choices screen, click **Finish**.
9. Click **Close**.

Viewing a netmap node template

You can view the properties of an existing netmap node entry template.

About this task

To view a netmap node template:

Procedure

1. On the menu bar, select **Configure Servers > Templates > Netmap Nodes**.
2. Double-click the template to view.
3. Click the **Summary** tab.
4. Click **Cancel**.

Duplicating a netmap node entry template

If you want to create a template based on an existing template, use the duplicate function.

About this task

To duplicate a netmap node entry template:

Procedure

1. On the menu bar, select **Configure Servers > Templates > Netmap Nodes**.
2. Highlight the node template to duplicate and select the action **Duplicate**.
3. On the Basic Node Details screen, type a unique node name in the **Node Name** field. Modify other fields as necessary, and click **Next**.

4. On the Node Details for each platform, type the values in the fields as necessary. Click **Next** to move through each platform detail screen.
5. Click **Finish**.
6. Click **Close**.

Copying parameters from a netmap node entry template to a node definition

After you create a template, you can use the template to update netmap node parameters.

About this task

To copy parameters from a netmap node template to a node:

Procedure

1. On the menu bar, select **Configure Servers > Templates > Netmap Nodes**.
 2. Highlight the template to copy.
 3. Select the action **Copy Parameters To**.
 4. Select one or more Sterling Connect:Direct servers or server groups to which to apply the definition. Click **Next**.
 5. Select the destination nodes and click **Next**.
 6. Select the parameters to copy to the destination nodes. Click **Next**.
 7. To update the parameter file only if the netmap node on the server now matches the copy on Sterling Control Center, select **Update only if the object on the server matches Control Center's copy**.
 8. Select a timing option for running the job:
 - **Now** to update the file immediately.
 - **Hold for later** to send the job to the job queue with a status of Held.
- Note:** Select **Hold for later** if you are not ready to initiate copy of the netmap node parameters to the node definition.
- **Schedule for later** and then specify a time zone and date/time when the job is to run. This option sends the job to the job queue with a status of Scheduled.
- Click **Next**.
9. Click **Finish**.
 10. To rerun the job, or a step within the job, or to view information about the completed job, click **Go To Job Viewer**; otherwise click **Close**.
 11. If you selected **Hold for later** as the job timing option, write down the job number so you can run it at a later time.

Deleting a netmap node entry template

You can delete a netmap node entry template.

About this task

To delete a netmap node entry template:

Procedure

1. On the menu bar, select **Configure Servers > Templates > Netmap Nodes**.
2. Highlight the node template to delete.
3. Select the action **Delete**.
4. Click **OK** to confirm the deletion, or click **Cancel**.

Chapter 5. Manage netmap modes

Define netmap modes to identify information relating to session characteristics for a Sterling Connect:Direct for Microsoft Windows protocol, such as TCP/IP or APPC mode information.

A netmap mode can be associated with one or more communication paths or remote node definitions.

Viewing and updating netmap mode properties

You can view and update properties associated with a netmap mode.

About this task

For more information, see *Netmap mode field definitions*.

To view and update the properties of a mode:

Procedure

1. Right-click a Sterling Connect:Direct for Microsoft Windows server or server group and select **Configure Server > Netmap > Netmap Modes** to show the modes associated with the selected server or server group.
2. Double-click the mode.
3. Click tabs to view all netmap mode information.
4. Click **Cancel** to close without updating. Or, to update the mode definition, change mode information and click **Update**.
5. Select **Update only if the object on the server matches Control Center's copy** if you want to update the mode definition only under this condition.
6. In the **Job Name** field, type a name for the configuration job. In the **Job Description** field, type a description of the configuration job.
7. Select a timing option for running the job:
 - **Now** to initiate the mode update job immediately.
 - **Hold for later** to send the job to the job queue with a status of Held.

Note: Select **Hold for later** if you are not ready to initiate the mode update job.

- **Schedule for later** and then specify a time zone and date/time when the job is to run. This option sends the job to the job queue with a status of Scheduled.

Click **Next**.

8. To rerun the job, or a step within the job, or to view information about the completed job, click **Go To Job Viewer**; otherwise, click **Close**.

Creating a netmap mode

You can create a netmap mode.

About this task

For more information, see *Netmap mode field definitions*.

To create a netmap mode:

Procedure

1. Right-click a Sterling Connect:Direct for Microsoft Windows server or server group and select **Configure Server > Netmap > Netmap Modes**.
2. In the Configuration Manager window, choose the action **Create New**. The Create Mode Entry wizard is displayed.
3. Optionally, select one or more Sterling Connect:Direct for Microsoft Windows servers or server groups to which to apply the definition. Click **Next**.
4. Take one of these steps:
 - To create a mode definition by typing all information, select **Enter all Mode details**.
 - To create a definition by copying an existing mode, select **Start from an existing Mode entry on another server**. Select the server where the mode definition is located in the **Server** field and the mode to copy in the **Mode Entry** field.
 - To create a mode definition from an existing template, select **Start from a Mode Template** and select the template to copy in the **Template Entry** field.
5. Click **Next**.
6. Define information about the new mode and click **Next**.
7. To update an existing mode entry on a server, select **Overwrite object if it already exists on the server**.
8. In the **Job Name** field, type a name for the configuration job. In the **Job Description** field, type a description of the configuration job.
9. Select a timing option for running the job:
 - **Now** to initiate the netmap mode creation job immediately.
 - **Hold for later** to send the job to the job queue with a status of Held.

Note: Select **Hold for later** if you are not ready to initiate the mode creation job.

 - **Schedule for later** and then specify a time zone and date/time when the job is to run. This option sends the job to the job queue with a status of Scheduled.
- Click **Next**.
10. Click **Finish**.
11. If you selected **Hold for later** as the job timing option, write down the job number so you can run it at a later time.
12. To rerun the job, or a step within the job, or to view information about the completed job, click **Go To Job Viewer**; otherwise, click **Close**.

Duplicating a netmap mode

To create a mode while avoiding much of the data entry, you can duplicate a netmap mode in the list of modes. You must supply a unique name for the new mode.

About this task

To duplicate a netmap mode:

Procedure

1. Right-click a Sterling Connect:Direct for Microsoft Windows server or server group and select **Configure Server > Netmap > Netmap Modes**.
2. From the mode listing, select the mode you want to duplicate.
3. Select the action **Duplicate**. The Duplicate Mode Entry wizard shows the values for the mode you chose to duplicate.
4. Enter a unique name in **Mode Name** for the new mode.
5. Change any other entries as needed and click **Next**.
6. To update an existing mode entry on a server, select **Overwrite object if it already exists on the server**.
7. In the **Job Name** field, type a name for the configuration job. In the **Job Description** field, type a description of the configuration job.
8. Select a timing option for running the job:
 - **Now** to initiate the netmap mode duplication job immediately.
 - **Hold for later** to send the job to the job queue with a status of Held.

Note: Select **Hold for later** if you are not ready to initiate the mode duplication job.

- **Schedule for later** and then specify a time zone and date/time when the job is to run. This option sends the job to the job queue with a status of Scheduled.

Click **Next**.

9. Click **Finish**.
10. If you selected **Hold for later** as the job timing option, write down the job number so you can run it at a later time.
11. To rerun the job, or a step within the job, or to view information about the completed job, click **Go To Job Viewer**; otherwise, click **Close**.

Copying a netmap mode to a server or server group

You can copy a netmap mode to other, managed servers.

About this task

To copy a mode to other servers:

Procedure

1. Right-click a Sterling Connect:Direct for Microsoft Windows server or server group and select **Configure Server > Netmap > Netmap Modes**.
2. Click the mode to copy and select the action **Copy To**.
3. On the Select Server Groups and Select Server wizard pages, select the servers or server groups you want to copy the mode to. Click **Next** to go to the next wizard page.
4. Change any other entries on this page and remaining wizard pages, clicking **Next** to advance to the next page.
5. To update an existing mode entry on a server, select **Overwrite object if it already exists on the server**.

6. In the **Job Name** field, type a name for the configuration job. In the **Job Description** field, type a description of the configuration job.
7. Select a timing option for running the job:
 - **Now** to initiate the netmap mode copy job immediately.
 - **Hold for later** to send the job to the job queue with a status of Held.

Note: Select **Hold for later** if you are not ready to initiate the mode copy job.

- **Schedule for later** and then specify a time zone and date/time when the job is to run. This option sends the job to the job queue with a status of Scheduled.

Click **Next**.

8. Click **Finish**.
9. If you selected **Hold for later** as the job timing option, write down the job number so you can run it at a later time.
10. To rerun the job, or a step within the job, or to view information about the completed job, click **Go To Job Viewer**; otherwise, click **Close**.

Copying mode parameters to other modes

You can copy selected mode parameters from one mode to another.

About this task

To copy parameters from one mode to another:

Procedure

1. Select a Sterling Connect:Direct for Microsoft Windows server or server group.
2. Click **Configure Server > Netmap > Netmap Modes** to show the Configuration Manager and the modes associated with the selected server or server group.
3. To select a mode, select the action **Copy Parameters To**.
4. On the first two pages of the wizard, select the server groups or individual servers to copy the parameters to. Click **Next** to go to the next page.
5. On the Destination Mode Entry(s) page, select the mode entries to which to copy the mode parameters, and click **Next**.
6. Check the parameters that you want to be copied to the modes you selected and click **Next**.
7. If you do not want parameters to be copied when there is a disparity in mode parameters between the selected servers or server groups and Sterling Control Center, click **Update only if the object on the server matches Control Center's copy**.
8. In the **Job Name** field, type a name for the configuration job. In the **Job Description** field, type a description of the configuration job.
9. Select a timing option for running the job:
 - **Now** to update the file immediately.
 - **Hold for later** to send the job to the job queue with a status of Held.

Note: Select **Hold for later** if you are not ready to initiate the mode parameter copy job.

- **Schedule for later** and then specify a time zone and date/time when the job is to run. This option sends the job to the job queue with a status of Scheduled.

Click **Next**.

10. Click **Finish** to submit the job.
11. To rerun the job, or a step within the job, or to view information about the completed job, click **Go To Job Viewer**; otherwise, click **Close**.

Deleting a netmap mode

You can delete a netmap mode from a managed Sterling Connect:Direct for Microsoft Windows server.

About this task

To delete a netmap mode:

Procedure

1. Right-click a Sterling Connect:Direct for Microsoft Windows server or server group and select **Configure Server > Netmap > Netmap Modes**.
2. Highlight the mode to delete in the mode listing.
3. Select the action **Delete**.
4. In the Delete Mode Entry wizard, optionally select one or more server groups or servers to delete the mode from. Click **Next** on both pages.
5. Select **Delete only if the object on the server matches Control Center's copy** if you want to delete the mode only under this condition.
6. In the **Job Name** field, type a name for the configuration job. In the **Job Description** field, type a description of the configuration job.
7. Select a timing option for running the job:
 - **Now** to update the file immediately.
 - **Hold for later** to send the job to the job queue with a status of Held.

Note: Select **Hold for later** if you are not ready to initiate the mode deletion job.

- **Schedule for later** and then specify a time zone and date/time when the job is to run. This option sends the job to the job queue with a status of Scheduled.

Click **Next**.

8. Confirm your choices and submit the job by clicking **Finish**.
9. To run the job or view information about the completed job, click **Go To Job Viewer** or click **Close**.

Netmap mode field definitions

Sterling Connect:Direct contains many netmap mode fields.

The following table includes descriptions of the netmap mode fields:

Field	Description	Valid Values
Mode Name	Name assigned to the mode definition.	May enter 1-48 characters including the following characters: <ul style="list-style-type: none"> • A-Z • a-z • 0-9 • @ • # • \$ • _ (underscore) • - (dash) • . (period)
Protocol	Type of communications protocol.	TCP/IP APPC UDT33 TCP/IP is the default.
Buffersize	Buffer size for transmitting data to and from the remote Sterling Connect:Direct node. This value overrides the value in the initialization parameters file.	A numeric value 256 - 65536. The default is 65535.
Pacing Send Count	Number of send operations to perform before automatically waiting for a pacing response from the remote Sterling Connect:Direct node. A value of 0 indicates that there is no pacing. This value overrides the value in the initialization parameters file.	A numeric value 0 - 63. The default is 0.
Pacing Send Delay	Amount of time Sterling Connect:Direct waits before sending each outbound data buffer to the remote node. Setting this value can prevent flooding of the network. A value of 0 indicates that Sterling Connect:Direct sends each data buffer as soon as possible. This value overrides the value in the initialization parameters file.	An integer 0 - 86400. The default is 0.
CRC	Turns on CRC checking. The default value for the local node is OFF. The default value for the remote node is blank. The remote node defaults to blank to simplify the use of the <code>crc.override</code> parameter. When <code>crc.override</code> is enabled in the initialization parameter, only the nodes that require a different configuration must be changed.	OFF ON blank

Creating a netmap mode entry template

You can create a netmap mode entry templates by typing all information or by copying information from an existing node entry or template.

About this task

To create a netmap mode entry template:

Procedure

1. On the menu bar, select **Configure Servers > Templates > Netmap Modes**.
2. Select the action **Create New**.
3. Take one of these steps:
 - To create a template by typing all the information, select **Enter all Mode details**.
 - To create a template from an existing mode entry, select **Start from an existing Mode entry on another server**. Select the server name in the **Server** field and the mode entry name in the **Mode Entry** field.
 - To create a template from an existing template, select **Start from a Mode Template**. Select the template from the **Template Entry** field.
4. Click **Next**.
5. Type the name of the new template in the **Mode Name** field.
6. Type values in the other fields as necessary, and click **Next**.
7. At the Confirm Choices screen, click **Finish**.
8. Click **Close**.

Viewing a netmap node entry template

You can view the properties of an existing netmap mode entry template.

About this task

To view a netmap node entry template:

Procedure

1. On the menu bar, select **Configure Servers > Templates > Netmap Nodes**.
2. Double-click the template to view.
3. Click the **Summary** tab.
4. Click **Cancel**.

Duplicating a netmap mode entry template

If you want to create a template based on an existing template, use the duplicate function.

About this task

To duplicate a netmap mode entry template:

Procedure

1. On the menu bar, select **Configure Servers > Templates > Netmap Modes**.
2. Highlight the mode template to duplicate.
3. Select the action **Duplicate**.
4. On the Mode Detailsscreen, type a unique mode name in the **Mode Name** field. Modify other fields as necessary, and click **Next**. For more information, see *Netmap modes field definitions*.
5. Click **Finish**.
6. Click **Close**.

Copying parameters from a netmap mode entry template to a mode definition

After you create a template, you can use the template to update netmap mode parameters.

About this task

To copy parameters from a netmap mode entry template to a mode:

Procedure

1. On the menu bar, select **Configure Servers > Templates > Netmap Modes**.
2. Highlight the template to copy.
3. Select the action **Copy Parameters To**.
4. Select one or more Sterling Connect:Direct for Microsoft Windows servers or server groups to which to apply the definition. Click **Next**.
5. Select the destination modes and click **Next**.
6. Select the parameters to copy to the destination modes. Click **Next**.
7. To update the parameter only if it matches the copy on Sterling Control Center, select **Update only if the object on the server matches Control Center's copy**.
8. Select a timing option for running the job:
 - **Now** to update the file immediately.
 - **Hold for later** to send the job to the job queue with a status of Held.
 - **Schedule for later** and then specify a time zone and date/time when the job is to run. This option sends the job to the job queue with a status of Scheduled.Click **Next**.
9. Click **Finish**.
10. To run the job or view information about the completed job, click **Go To Job Viewer** or click **Close**.

Deleting a netmap mode entry template

You can delete a netmap mode entry template.

About this task

To delete a netmap mode entry template:

Procedure

1. On the menu bar, select **Configure Servers > Templates > Netmap Modes**.
2. Highlight the mode template to delete.
3. Select the action **Delete**.
4. Click **OK** to confirm the deletion.

Chapter 6. Manage Netmap Communication Paths

For Sterling Connect:Direct for Microsoft Windows servers, you can define communication path definitions that identify the transport and protocol information used to establish sessions with a remote Sterling Connect:Direct node.

If more than one transport is available to a remote node, define additional communication path definitions. Associate all available communication path definitions with a server and place the definitions in the order in which to attempt a connection. Sterling Connect:Direct tries each communication path named, in the order listed, until either a session is established or all paths have been tried.

Viewing a communication path definition

You can view a communication path definition on a managed Sterling Connect:Direct server.

About this task

For more information, see *Communication path field definitions*.

To view a communication path definition:

Procedure

1. Right-click the Sterling Connect:Direct server where the communication path definition is located and click **Configure Server > Netmap > Netmap Communication Paths**
2. Double-click the definition to view.
3. Click **Netmap Communication Path Details** to view properties and click **Summary** to view a read-only summary of properties.
4. Click **Cancel if no changes are made to the definition**.

Creating a communication path definition

You can create a communication path definition on a managed Sterling Connect:Direct server.

About this task

For more information, see *Communication path field definitions*.

To create a communication path definition:

Procedure

1. Right-click the Sterling Connect:Direct server where the communication path definition is located and click **Configure Server > Netmap > Netmap Communication Paths**.
2. Choose the action **Create New**.
3. Optionally, select one or more Sterling Connect:Direct for Microsoft Windows servers or server groups to which to apply the definition. Click **Next**.
4. Take one of these steps:

- To create a communication path definition by typing all information, select **Enter All Netmap Communication Path details**.
 - To create a definition by copying an existing communication path definition, select **Start from an existing Netmap Communication Path entry on another server**. Select the server where the definition is located in the **Server** field and the communication path to copy in the **Netmap Communication Path Entry** field.
 - To create a communication path definition from an existing template, select **Start from a Netmap Communication Path Template entry** and select the template to copy in the **Netmap Communication Path Template Entry** field.
5. Click **Next**.
 6. Complete the fields on the Netmap Communication Path Details panel.
 7. To overwrite communication path entries that exist on a specified server, select **Overwrite object if it already exists on the server**.
 8. In the **Job Name** field, type a name for the configuration job. In the **Job Description** field, type a description of the configuration job.
 9. Select a timing option for running the job:
 - **Now** to initiate the communication path creation job immediately.
 - **Hold for later** to send the job to the job queue with a status of Held.

Note: Select **Hold for later** if you are not ready to initiate the communication path job.

 - **Schedule for later** and then specify a time zone and date/time when the job is to run. This option sends the job to the job queue with a status of Scheduled.

Click **Next**.
 10. Click **Finish**.
 11. If you selected **Hold for later** as the job timing option, write down the job number so you can run it at a later time.
 12. To rerun the job, or a step within the job, or to view information about the completed job, click **Go To Job Viewer**; otherwise, click **Close**.

Updating a communication path definition

You can update a communication path definition on a managed Sterling Connect:Direct server.

About this task

For more information, see *Communication path field definitions*.

To update a communication path definition:

Procedure

1. Right-click the Sterling Connect:Direct server where the communication path definition is located and click **Configure Server > Netmap > Netmap Communication Paths**
2. Double-click the definition to update.
3. Change values as required.
4. Click **Update**.

5. Select **Update only if the object on the server matches Control Center's copy** if you want to update the communication path definition only under this condition.
6. In the **Job Name** field, type a name for the configuration job. In the **Job Description** field, type a description of the configuration job.
7. Select a timing option for running the job:
 - **Now** to initiate the communication path update job immediately.
 - **Hold for later** to send the job to the job queue with a status of Held.

Note: Select **Hold for later** if you are not ready to initiate the communication path update job.

- **Schedule for later** and then specify a time zone and date/time when the job is to run. This option sends the job to the job queue with a status of Scheduled.

Click **Next**.

8. To rerun the job, or a step within the job, or to view information about the completed job, click **Go To Job Viewer**; otherwise, click **Close**.

Duplicating a communication path definition

You can duplicate a communication path definition to create a definition based on an existing one.

About this task

To duplicate a communication path definition:

Procedure

1. Right-click the Sterling Connect:Direct server where the communication path definition is located and click **Configure Server > Netmap > Netmap Communication Paths**.
2. Highlight the communication path to duplicate and select the action **Duplicate**.
3. Assign a unique name to the communication path definition in the **Communication Path Name** field.
4. If necessary, change the value for the protocol and mode and click **Next**.
5. To overwrite a definition that exists, select **Overwrite object if it already exists on the server**.
6. In the **Job Name** field, type a name for the configuration job. In the **Job Description** field, type a description of the configuration job.
7. Select a timing option for running the job:
 - **Now** to initiate the communication path duplication job immediately.
 - **Hold for later** to send the job to the job queue with a status of Held.

Note: Select **Hold for later** if you are not ready to initiate the communication path duplication job.

- **Schedule for later** and then specify a time zone and date/time when the job is to run. This option sends the job to the job queue with a status of Scheduled.

Click **Next**.

8. Click **Finish**.

9. If you selected **Hold for later** as the job timing option, write down the job number so you can run it at a later time.
10. To rerun the job, or a step within the job, or to view information about the completed job, click **Go To Job Viewer**; otherwise, click **Close**.

Copying a communication path definition to a server

After you create a communication path definition on one server, you can copy it to another server or server group. Copying a definition provides a quick way to create a communication path definition on a server.

About this task

To copy a communication path definition to a server:

Procedure

1. Right-click the Sterling Connect:Direct server where the communication path definition is located and click **Configure Server > Netmap > Netmap Communication Paths**
2. Highlight the communication path definition to copy.
3. Select the action **Copy To**.
4. Select one or more Sterling Connect:Direct for Microsoft Windows servers or server groups to which to apply the copy step. Click **Next**.
5. Review the Communication Path Details and change any values as required. Click **Next**.
6. To overwrite a communication path definition that exists, select **Overwrite object if it already exists on the server**.
7. In the **Job Name** field, type a name for the configuration job. In the **Job Description** field, type a description of the configuration job.
8. Select a timing option for running the job:
 - **Now** to initiate the communication path copy job immediately.
 - **Hold for later** to send the job to the job queue with a status of Held.

Note: Select **Hold for later** if you are not ready to initiate the communication path copy job.

- **Schedule for later** and then specify a time zone and date/time when the job is to run. This option sends the job to the job queue with a status of Scheduled.

Click **Next**.

9. Click **Finish**.
10. If you selected **Hold for later** as the job timing option, write down the job number so you can run it at a later time.
11. To rerun the job, or a step within the job, or to view information about the completed job, click **Go To Job Viewer**; otherwise, click **Close**.

Copying Communication Path Parameters to a Server or Server Group

After you create a communication path definition on one server, you can copy selected parameters to a definition on another server or server group.

About this task

To copy selected communication path definition parameters:

Procedure

1. Right-click the Sterling Connect:Direct server where the communication path definition is located and click **Configure Server > Netmap > Netmap Communication Paths**.
2. Highlight the communication path to copy and select the action **Copy Parameters To**.
3. Select one or more Sterling Connect:Direct for Microsoft Windows servers and server groups to which the parameters are to be copied. Click **Next**.
4. Select the communication path definitions to update in the Destination Node Entry(s) dialog box and click **Next**.
5. On the General Details page, select the communication path parameters to copy to the servers or server groups and click **Next**.
6. On the Other Options wizard page, select **Update only if the object on the server matches Sterling Control Center's copy** if you want to copy parameters only under this condition.
7. In the **Job Name** field, type a name for the configuration job. In the **Job Description** field, type a description of the configuration job.
8. Select a timing option for running the job:
 - **Now** to initiate the parameter copy job immediately.
 - **Hold for later** to send the job to the job queue with a status of Held.

Note: Select Hold for later if you are not ready to initiate the parameter copy job.

- **Schedule for later** and then specify a time zone and date/time when the job is to run. This option sends the job to the job queue with a status of Scheduled.

Click **Next**.

9. Click **Finish**.
10. If you selected **Hold for later** as the job timing option, write down the job number so you can run it at a later time.
11. To rerun the job, or a step within the job, or to view information about the completed job, click **Go To Job Viewer**; otherwise, click **Close**.

Deleting a communication path definition

You can delete a communication path definition from a managed Sterling Connect:Direct server.

About this task

To delete a communication path definition:

Procedure

1. Right-click the Sterling Connect:Direct server where the communication path definition is located and click **Configure Server > Netmap > Netmap Communication Paths**.
2. Highlight the communication path to delete and select the action **Delete**.

3. Optionally, select one or more Sterling Connect:Direct for Microsoft Windows servers or server groups to which to apply the deletion. Click **Next**.
4. On the Other Options wizard page, select **Delete only if the object on the server matches Sterling Control Center's copy** if you want to delete the definition only under this condition.
5. In the **Job Name** field, type a name for the configuration job. In the **Job Description** field, type a description of the configuration job.
6. Select **Now** to initiate the delete job immediately, or **Hold for later** to send the job to the job queue with a status of Held. Click **Next**.
7. Confirm your choices by clicking **Finish**.
8. To run the job or view information about the completed job, click **Go To Job Viewer** or click **Close**.

Communication path field definitions

Sterling Connect:Direct contains several netmap communication path fields.

This table defines the communication path fields.

Field	Description	Valid Values
Communication Path Name	The name of the communication path. This field is required.	A one- to 49-character (alphanumeric) string
Protocol	The type of communication protocol.	TCP/IP APPC UDT33
Mode	The communication path mode. This field is required.	
Adapter Number	Indicates whether the token ring adapter number to be used for this connection is Primary or Alternate. (APPC only.)	Primary Alternate
Remote Address	The token ring address of the remote node. This address consists of hexadecimal digits. Enter all zeros if the local node is the same as the remote node. (APPC only.)	Valid remote node token ring address.
Local SNA Network	The SNA network name of the local Sterling Connect:Direct node. This name must match the name of the SNA network to which the local Sterling Connect:Direct node is connected. (APPC only.)	Valid SNA network name
LU Name	The name of a local APPC LU configured within Microsoft SNA Server. Required. (APPC only.)	Valid LU alias name

Creating a communication path definition template

You can create a communication path definition template to define the most commonly used communication path values. Then use the template to quickly create a communication path definition for a server. Create a template by copying a communication path definition from a server or an existing template or by defining all values in the template.

About this task

To create a communication path definition template:

Procedure

1. From the menu bar, select **Configure Server > Templates > Netmap Communication Paths**
2. Select the action **Create New**.
3. Take one of these steps:
 - To create a template and manually type all values, ensure that **Enter All Communication Path details** is selected.
 - To create a template from an existing definition, select **Start from an existing Communication Path entry on another server**. Identify the server where the communication path definition is located in the **Server** field and the communication path entry to copy in the **Communication Path Entry** field.
 - To create a template from an existing template, select **Start from a Communication Path Template entry** and select the template to copy in the **Communication Path Template Entry** field.
4. Click **Next**.
5. Take one of these steps:
 - For a new template, define all communication path fields.
 - For a template created from an existing template or entry, assign a unique Communication Path Name to the template. Change the communication path field values as necessary. For more information, see *Communication path field definitions*.
6. Click **Next**.
7. Review the template details in the Confirm Choices dialog box. Click **Finish**.
8. Click **Close**.

Duplicating a communication path template

You can duplicate a netmap communication path template.

About this task

To duplicate a communication path template:

Procedure

1. From the menu bar, select **Configure Server > Templates > Netmap Communication Paths**
2. Highlight the template to duplicate and select the action **Duplicate**.
3. Type a unique name for the template in the **Communication Path Name** field.
4. If necessary, change communication path field values and click **Next**.
5. Review the template details in the Confirm Choices dialog box and click **Finish**.
6. Click **Close**.

Copying communication path parameters from a template to a server

You can copy communication path parameters from a template.

About this task

To copy communication path parameters from a template:

Procedure

1. From the menu bar, select **Configure Server > Templates > Netmap Communication Paths**.
2. Highlight the template to copy and select the action **Copy Parameters To**.
3. Select the Sterling Connect:Direct server groups and servers that contain the communication paths to which the parameters are to be copied and click **Next**.
4. In the Destination Nodes Entry(s) window, select the communication paths definitions where the parameters are to be copied and click **Next**.
5. In the General Details window, select the communication paths parameters to copy and click **Next**.
6. To update the values only if the communication path file matches the file on Sterling Control Center, select **Update only if the object on the server matches Control Center's copy**.
7. Select a timing option for running the job:
 - **Now** to update the file immediately.
 - **Hold for later** to send the job to the job queue with a status of Held.
 - **Schedule for later** and then specify a time zone and date/time when the job is to run. This option sends the job to the job queue with a status of Scheduled.Click **Next**.
8. Click **Finish**.
9. If you selected **Hold for later** as the job timing option, write down the job number so that you can run it at a later time.
10. To run the job or view information about the completed job, click **Go To Job Viewer** or click **Close**.

Deleting a communication path template

You can delete a communication path template.

About this task

To delete a communication path template:

Procedure

1. From the menu bar, select **Configure Server > Templates > Netmap Communication Paths**.
2. Highlight the template to delete and select the action **Delete**.
3. At the confirmation window, click **OK**.

Chapter 7. Manage Sterling Connect:Direct Secure Plus nodes

Using the Configuration Manager, you can configure Sterling Connect:Direct Secure Plus node entries in your Sterling Connect:Direct server configuration.

Note: To configure Sterling Connect:Direct Secure Plus objects on a Sterling Connect:Direct server, you should first secure the connection between the Sterling Control Center engine and the Sterling Connect:Direct server. You can configure Sterling Connect:Direct Secure Plus over an unsecured connection, but this practice is discouraged due to the possible security ramifications. For more information, see *Configuring a Secure Connection* in *Getting Started*.

The Sterling Connect:Direct Secure Plus parameters file contains information that determines the protocol and encryption method used during security-enabled Sterling Connect:Direct operations. To configure Sterling Connect:Direct Secure Plus, each site must have a parameters file with one local node record and at least one remote node record. The local node record defines the most commonly used security and protocol settings for the node at the site. Each remote node record defines the specific security and protocol used by a trading partner. You create a remote node record in the Sterling Connect:Direct Secure Plus parameters file for each Sterling Connect:Direct node that you communicate with.

To use a different certificate to authenticate a trading partner, you must add that information to the remote node record. Likewise, to use a different trusted root file to validate the trusted source that issues certificates, you must add that information to the remote node record.

Viewing Sterling Connect:Direct Secure Plus node properties

You can view the properties of any Sterling Connect:Direct Secure Plus node entry.

About this task

For more information, see *Sterling Connect:Direct Secure Plus node field definitions*.

To view properties of a node entry:

Procedure

1. Right-click the Sterling Connect:Direct server or server group and select **Configure Server > Secure+ > Secure+ Nodes**.

Note: If this option is disabled, it is likely due to the fact the server requires a secure connection and one is not being used by Sterling Control Center.

2. Double-click the Sterling Connect:Direct Secure Plus node to view in the listing.
3. Click **Cancel** to close the Sterling Connect:Direct Secure Plus Node Entries Properties window.

Creating a Sterling Connect:Direct Secure Plus node entry

Using Sterling Control Center, you can create a Sterling Connect:Direct Secure Plus node entry.

About this task

For more information, see *Sterling Connect:Direct Secure Plus node field definitions*.

To create a Sterling Connect:Direct Secure Plus node entry:

Procedure

1. Right-click the Sterling Connect:Direct server or server group and select **Configure Server > Secure+ > Secure+ Nodes**.

Note: If this option is disabled, it is likely due to the fact the server requires a secure connection and one is not being used by Sterling Control Center.

2. In the Configuration Manager window, choose the action **Create New**. The Create Secure+ Node Entry wizard is displayed.
3. On the first two wizard pages, optionally select the server groups or servers to which you want to apply this Sterling Connect:Direct Secure Plus node. Normally you can skip these pages because of your selection in step 1. Click **Next** to go to the next page.
4. On the Node Details Options page, select one of these creation methods:
 - **Enter all node details**
 - **Start from an existing node entry on another server.** For this option, choose a server and one of the Sterling Connect:Direct Secure Plus node entries attached to it.
 - **Start from a Node template.** For this option, choose an existing template for the applicable operating system. You can view the template properties by clicking **Properties**.
5. Click **Next**.
6. On the Node Entry Details page, enter a unique name for the Sterling Connect:Direct Secure Plus node entry.
7. Provide values for the remaining fields and click **Next**.
8. To update a parameter value if the value is already defined on the destination node, select **Overwrite object if it already exists on the server**.
9. In the **Job Name** field, type a name for the configuration job. In the **Job Description** field, type a description of the configuration job.
10. Select a timing option for running the job:
 - **Now** to update the file immediately.
 - **Hold for later** to send the job to the job queue with a status of Held.

Note: Select **Hold for later** if you are not ready to initiate the Sterling Connect:Direct Secure Plus node entry creation job.

- **Schedule for later** and then specify a time zone and date/time when the job is to run. This option sends the job to the job queue with a status of Scheduled.

Click **Next**.

11. Click **Finish**.
12. If you selected **Hold for later** as the job timing option, write down the job number so you can run it at a later time.
13. To run the job or view information about the completed job, click **Go To Job Viewer** or click **Close**.

Duplicating a Sterling Connect:Direct Secure Plus Node Entry

To simplify creation of a Sterling Connect:Direct Secure Plus node entry, you can duplicate an existing one. Duplicate works only on the server to which the original Sterling Connect:Direct Secure Plus node entry is connected. All properties of the existing entry prefill the input fields in the creation wizard. You must supply a unique name for the duplicated node entry.

About this task

For more information, see *Sterling Connect:Direct Secure Plus node field definitions*.

To duplicate a Sterling Connect:Direct Secure Plus node entry:

Procedure

1. Right-click a Sterling Connect:Direct server or server group and click **Configure Server > Secure+ > Secure+ Nodes**.

Note: If this option is disabled, it is likely due to the fact the server requires a secure connection and one is not being used by Sterling Control Center.

2. In the Configuration Manager window, choose the action **Duplicate**.
3. In the **Node Name** field, type a unique name for the node. This change is the only one you must make.
4. Make any other changes necessary on this wizard page and click **Next**.
5. To update a parameter value if the value is already defined on the destination node, select **Overwrite object if it already exists on the server**.
6. In the **Job Name** field, type a name for the configuration job. In the **Job Description** field, type a description of the configuration job.
7. Select a timing option for running the job:
 - **Now** to update the file immediately.
 - **Hold for later** to send the job to the job queue with a status of Held.

Note: Select **Hold for later** if you are not ready to initiate the Sterling Connect:Direct Secure Plus node entry duplication job.

- **Schedule for later** and then specify a time zone and date/time when the job is to run. This option sends the job to the job queue with a status of Scheduled.

Click **Next**.

8. Click **Finish**.
9. If you selected **Hold for later** as the job timing option, write down the job number so you can run it at a later time.
10. To run the job or view information about the completed job, click **Go To Job Viewer** or click **Close**.

Copying parameters associated with a Sterling Connect:Direct Secure Plus node entry to another Sterling Connect:Direct Secure Plus node entry

You can copy parameters from one Sterling Connect:Direct Secure Plus node entry to another node entry on any server in your netmap.

About this task

To copy parameters from one Sterling Connect:Direct Secure Plus node entry to another Sterling Connect:Direct Secure Plus node entry:

Procedure

1. In the Sterling Control Center window, right-click the server to select and click **Configure Server > Secure+ > Secure+ Nodes**.

Note: If this option is disabled, it is likely due to the fact the server requires a secure connection and one is not being used by Sterling Control Center.

2. Highlight the node the parameters of which you want to copy.
3. Select the action **Copy Parameters To**.
4. Select one or more Sterling Connect:Direct servers or server groups to which to apply the definition. Click **Next**.
5. Select the node entries on which to copy the parameters on the Destination Node Entries page. Click **Next**.
6. Select the parameters to copy to the destination node entries. Click **Next**.
7. To copy parameters to the node entry only if they match the Sterling Control Center copy, select **Update only if the object on the server matches Control Center's copy**.
8. In the **Job Name** field, type a name for the configuration job. In the **Job Description** field, type a description of the configuration job.
9. Select a timing option for running the job:
 - **Now** to the node entry parameter copy immediately.
 - **Hold for later** to send the job to the job queue with a status of Held.

Note: Select **Hold for later** if you are not ready to initiate the Sterling Connect:Direct Secure Plus node entry parameter copy job.

- **Schedule for later** and then specify a time zone and date/time when the job is to run. This option sends the job to the job queue with a status of Scheduled.

Click **Next**.

10. Click **Finish**.
11. If you selected **Hold for later** as the job timing option, write down the job number so you can run it at a later time.
12. To rerun the job, or a step within the job, or to view information about the completed job, click **Go To Job Viewer**; otherwise, click **Close**.

Copying a Sterling Connect:Direct Secure Plus node to another server

You can copy a Sterling Connect:Direct Secure Plus node entry to another server.

About this task

To copy a Sterling Connect:Direct Secure Plus node entry to another server or server group:

Procedure

1. Right-click a Sterling Connect:Direct server or server group and select **Configure Server > Secure+ > Secure+ Nodes**.

Note: If this option is disabled, it is likely due to the fact the server requires a secure connection and one is not being used by Sterling Control Center.

2. Click the node to copy and select the action **Copy To**.
3. On the Select Server or Select Server Group wizard pages, select the servers or server groups that contain the node entries to which the parameters are to be copied. Click **Next** to go to the next wizard page.
4. Change any other entries on this wizard page and click **Next**.
5. To update a parameter value if the value is already defined on the destination node, select **Overwrite object if it already exists on the server**.
6. In the **Job Name** field, type a name for the configuration job. In the **Job Description** field, type a description of the configuration job.
7. Select a timing option for running the job:
 - **Now** to update the file immediately.
 - **Hold for later** to send the job to the job queue with a status of Held.

Note: Select **Hold for later** if you are not ready to initiate the Sterling Connect:Direct Secure Plus node copy job.

- **Schedule for later** and then specify a time zone and date/time when the job is to run. This option sends the job to the job queue with a status of Scheduled.

Click **Next**.

8. Click **Finish**.
9. If you selected **Hold for later** as the job timing option, write down the job number so you can run it at a later time.
10. To run the job or view information about the completed job, click **Go To Job Viewer** or click **Close**.

Creating a Sterling Connect:Direct Secure Plus node alias

You can create a Sterling Connect:Direct Secure Plus node alias.

About this task

To create a Sterling Connect:Direct Secure Plus alias:

Procedure

1. Right-click a Sterling Connect:Direct server or server group and select **Configure Server > Secure+ > Secure+ Nodes**.

Note: If this option is disabled, it is likely due to the fact the server requires a secure connection and one is not being used by Sterling Control Center.

2. Click the node to create an alias for and select the action **Create Alias**.
3. On the Select Server or Select Server Group wizard pages, select the servers or server groups you want to copy the alias to. Click **Next** to go to the next wizard page.
4. Type an alias name in the **Alias Name field** and click **Next**.
5. To update a parameter value if the value is already defined on the destination node, select **Overwrite object if it already exists on the server**.
6. In the **Job Name** field, type a name for the configuration job. In the **Job Description** field, type a description of the configuration job.
7. Select a timing option for running the job:

- **Now** to update the file immediately.
- **Hold for later** to send the job to the job queue with a status of Held.

Note: Select **Hold for later** if you are not ready to initiate the Sterling Connect:Direct Secure Plus Node Alias creation job

- **Schedule for later** and then specify a time zone and date/time when the job is to run. This option sends the job to the job queue with a status of Scheduled.

Click **Next**.

8. Click **Finish**.
9. If you selected **Hold for later** as the job timing option, write down the job number so you can run it at a later time.
10. To run the job or view information about the completed job, click **Go To Job Viewer** or click **Close**.

Deleting a Sterling Connect:Direct Secure Plus node entry

You can delete a Sterling Connect:Direct Secure Plus node entry.

About this task

To delete a Sterling Connect:Direct Secure Plus node entry:

Procedure

1. Right-click a Sterling Connect:Direct server or server group and select **Configure Server > Secure+ > Secure+ Nodes**.

Note: If this option is disabled, it is likely due to the fact the server requires a secure connection and one is not being used by Sterling Control Center.

2. Select a Sterling Connect:Direct Secure Plus node in the node listing and select the action **Delete**.
3. On the Select Server or Select Server Group wizard pages, select the servers or server groups you want to copy the alias to. Click **Next** to go to the next wizard page.
4. Select **Delete only if the object on the server matches Control Center's copy** if you want to delete the mode only under this condition.
5. In the **Job Name** field, type a name for the configuration job. In the **Job Description** field, type a description of the configuration job.
6. Select a timing option for running the job:
 - **Now** to update the file immediately.
 - **Hold for later** to send the job to the job queue with a status of Held.

Note: Select **Hold for later** if you are not ready to initiate the Sterling Connect:Direct Secure Plus Node deletion job.

- **Schedule for later** and then specify a time zone and date/time when the job is to run. This option sends the job to the job queue with a status of Scheduled.

Click **Next**.

7. Confirm your choices and submit the job by clicking **Finish**.
8. To run the job or view information about the completed job, click **Go To Job Viewer** or click **Close**.

Rekeying the Sterling Connect:Direct Secure Plus parameter file

You can rekey a Sterling Connect:Direct for UNIX or Sterling Connect:Direct for Microsoft Windows Secure Plus parameter file.

About this task

Note: You cannot rekey a Sterling Connect:Direct for z/OS Secure Plus parameter file.

To rekey the Sterling Connect:Direct Secure Plus parameter file:

Procedure

1. Right-click a Sterling Connect:Direct server or server group and select **Configure Server > Secure+ > Secure+ Nodes**.

Note: If this option is disabled, it is likely due to the fact the server requires a secure connection and one is not being used by Sterling Control Center.

2. Select the action **Re-key Parm File**.
3. Enter at least 32 characters for a passphrase in the window. It is not necessary to remember these characters for future use. Click **OK**.

Syncing the Sterling Connect:Direct Secure Plus parameter file

You can synchronize a Sterling Connect:Direct Secure Plus parameter file for Sterling Connect:Direct for UNIX or Sterling Connect:Direct for Microsoft Windows with the network map of the corresponding server. You can use this action to resolve differences between the parameter file and the network map.

About this task

Note: You cannot sync a Sterling Connect:Direct for z/OS Secure Plus parameter file.

To sync the Sterling Connect:Direct Secure Plus parameter file with the network map:

Procedure

1. Right-click a Sterling Connect:Direct server or server group and select **Configure Server > Secure+ > Secure+ Nodes**.

Note: If this option is disabled, it is likely due to the fact the server requires a secure connection and one is not being used by Sterling Control Center.

2. In the Configuration Manager, select the action **Sync Parm File**.

The wizard shows two listings. The first shows entries found in the netmap file but not the parameter file, and the second shows the opposite: entries found in the parameter file but not in the netmap file.

3. In the first listing, check those entries that you want to add to the parameter file. In the second listing, check the entries to delete from the parameter file.
4. Click **Next**.
5. In the **Job Name** field, type a name for the configuration job. In the **Job Description** field, type a description of the configuration job.
6. Select a timing option for running the job:

- **Now** to submit the job immediately.
- **Hold for later** to send the job to the job queue with a status of Held.

Note: Select **Hold for later** if you are not ready to initiate the Sync parameter file job.

- **Schedule for later** and then specify a time zone and date/time when the job is to run. This option sends the job to the job queue with a status of Scheduled.

Click **Next**.

7. Click **Finish** to confirm your choices.

Validating the Sterling Connect:Direct Secure Plus parameter file

You can validate a Sterling Connect:Direct Secure Plus parameter file.

About this task

Note: You cannot validate a Sterling Connect:Direct Secure Plus parameter file for a Sterling Connect:Direct for z/OS server.

To validate the Sterling Connect:Direct Secure Plus parameter file:

Procedure

1. Right-click a Sterling Connect:Direct server or server group and select **Configure Server > Secure+ > Secure+ Nodes**.

Note: If this option is disabled, it is likely due to the fact the server requires a secure connection and one is not being used by Sterling Control Center.

2. Select the action **Validate Parm File**.
3. In the **Job Name** field, type a name for the configuration job. In the **Job Description** field, type a description of the configuration job.
4. Select a timing option for running the job:
 - **Now** to submit the job immediately.
 - **Hold for later** to send the job to the job queue with a status of Held.

Note: Select **Hold for later** if you are not ready to initiate the Validate Parameter file job.

- **Schedule for later** and then specify a time zone and date/time when the job is to run. This option sends the job to the job queue with a status of Scheduled.

Click **Next**.

5. Click **Go to Job Viewer** to see the job submitted and view the results of the validation, or click **Close**.

Manage Sterling Connect:Direct Secure Plus Certificate Expiry

You can set up Sterling Control Center to notify you when your Sterling Connect:Direct Secure Plus trusted or key certificates are going to expire.

You accomplish this task by defining these variables:

- The number of days before expiry that Sterling Control Center begins generating events. Use the “Start certificate expiry notification” parameter in System

Settings (the global setting for the system) or individual server settings. For more information, see *Manage Servers* and *Sterling Control Center System Settings in System Administration*.

- Rules to notify you when certificate expiry warning events are generated. Sterling Control Center ships with a predefined Certificate Expiry Warning rule to assist you in setting up notification for these events. For more information, see *How Can I Know When My Sterling Connect:Direct Secure Plus Certificates Are About To Expire?* in *How-To*.

Sterling Connect:Direct Secure Plus node field definitions

The following fields are used when you are managing Sterling Connect:Direct Secure Plus nodes.

Field	Description	Valid Values
Authentication Timeout	The maximum time, in seconds, that the system waits to receive Sterling Connect:Direct control blocks exchanged during the Sterling Connect:Direct Secure Plus authentication process. If you specify a value of 0, Sterling Connect:Direct waits indefinitely to receive the next message. Specify a time to prevent malicious entry from taking as much time as necessary to attack the authentication process.	A number equal to or greater than 0, ranging from 0 to 3600. The default is 120 seconds.
Certificate Label	A label to identify the certificate being imported.	1–900 characters
Certificate Validation Definition	The name of the CVD defined in Sterling External Authentication Server.	The name of a CVD defined in Sterling External Authentication Server.
Cipher Suites	The cipher suites to enable.	Select from list Default to local node
Client Authentication	Turn on client authentication.	Yes No Default to Local Node
Common Name	To perform common name checking, type a common name to check for. To blank out a common name in Sterling Connect:Direct Secure Plus for Microsoft Windows or Sterling Connect:Direct Secure Plus for UNIX, enter NULL in the Common Name field.	
Enabled Protocol	The security protocol to use to ensure that data is securely transmitted.	TLS SSL None Default to Local Node
Encrypt Data	Specifies if the data is to be encrypted.	Yes No Default to Local Node
FIPS Enabled	Enable FIPS mode (Microsoft Windows and UNIX only).	Yes No Default to Local Node
Host Name	Host name for Sterling External Authentication Server.	Valid Sterling External Authentication Server host name

Field	Description	Valid Values
Node Name	The node name.	.local= the local node record .client=the client api record .seaserver (or .easerver)=the External Authorization record .password=the strong password record None of these records can be deleted.
Override	Enables the ability to override values in the local node record with values in the remote node record.	Yes No Default to Local Node
Passphrase	The passphrase you specified when you created the certificate.	
Port Number	Port where Sterling External Authentication Server is listening. The default is 61366.	Valid Sterling External Authentication Server port number
Trusted Cert Label	A label to identify the trusted certificate being imported.	1–900 characters
Type	The current record type.	L=Local record R=Remote record A=Alias This field is not editable.
Use External Authentication	Determine if IBM Sterling External Authentication Server is used for certificate authentication.	Yes No Default to Local Node

Importing a key certificate

If you want to use a different certificate to authenticate a trading partner, import that information into the remote node record.

About this task

Sterling Control Center supports these certificates:

- Microsoft Windows and UNIX, Base64-encoded key certificate file
- z/OS, Base64-encoded PKCS12

To import a key certificate:

Procedure

1. Right-click a Sterling Connect:Direct server or server group and select **Configure Server > Secure+ > Secure+ Key Certificates**.

Note: If this option is disabled, it is likely due to the fact the server requires a secure connection and one is not being used by Sterling Control Center.

2. In the Configuration Manager, select the action **Import**.

3. Select one or more Sterling Connect:Direct servers or server groups to which to import the certificates. Click **Next**.
4. Take one of these steps:
 - To identify all certificate information, select **Enter Key Certificate details**.
 - To import a certificate that exists on another server, select **Start from an existing Key Certificate on another server**. Identify the server where the certificate is located and the name of the certificate.
5. Click **Next**.
6. Provide a label name for the certificate and type the passphrase.
7. Click **File** and locate the certificate. Click **Next**.
8. To update a parameter value if the value is already defined on the destination node, enable **Overwrite Key Certificate if it already exists on the server**.
9. In the **Job Name** field, type a name for the configuration job. In the **Job Description** field, type a description of the configuration job.
10. Identify when the certificate is to be imported:
 - **Now** to import the certificate immediately.
 - **Hold for later** to send the job to the job queue with a status of Held.

Note: Select **Hold for later** if you are not ready to initiate the Import certificate job.

 - **Schedule for later** and then specify a time zone and date/time when the job is to run. This option sends the job to the job queue with a status of Scheduled.

Click **Next**.
11. Click **Finish**.
12. If you selected **Hold for later** as the job timing option, write down the job number so you can run it at a later time.
13. To run the job or view information about the completed job, click **Go To Job Viewer** or click **Close**.

Results

Only key certificates referenced by a Sterling Connect:Direct Secure Plus node entry are displayed in Sterling Connect:Direct for z/OS. If you import a certificate but no Sterling Connect:Direct Secure Plus node refers to it, the certificate is not displayed in the list of key certificates.

Duplicating a key certificate

To simplify creation of a Sterling Connect:Direct Secure Plus key certificate, you can duplicate an existing one.

About this task

Note: You cannot create a duplicate key certificate on Sterling Connect:Direct for z/OS.

Duplicate works only on the server where the original Sterling Connect:Direct Secure Plus certificate is located. All properties of the existing entry prefill the input fields in the creation wizard of the duplicate. You must supply Label Name with a unique value and the passphrase of the key certificate. To duplicate a Sterling Connect:Direct Secure Plus key certificate:

Procedure

1. Right-click a Sterling Connect:Direct server or server group and select **Configure Server > Secure+ > Secure+ Nodes**.

Note: If this option is disabled, it is likely due to the fact the server requires a secure connection and one is not being used by Sterling Control Center.

2. Select the certificate to duplicate and choose the action **Duplicate**.
3. In the **Label Name** field, type a unique value. Type the passphrase for the certificate.
4. Make any other changes necessary on this and remaining wizard pages, clicking **Next** to advance to the next page.
5. To update a parameter value if the value is already defined on the destination node, select **Overwrite Key Certificate if it already exists on the server**.
6. In the **Job Name** field, type a name for the configuration job. In the **Job Description** field, type a description of the configuration job.
7. Identify when the certificate is to be duplicated:
 - **Now** to duplicate the certificate immediately.
 - **Hold for later** to send the job to the job queue with a status of Held.

Note: Select **Hold for later** if you are not ready to initiate the Duplicate Key certificate job.

- **Schedule for later** and then specify a time zone and date/time when the job is to run. This option sends the job to the job queue with a status of Scheduled.

Click **Next**.

8. Click **Finish**.
9. If you selected **Hold for later** as the job timing option, write down the job number so you can run it at a later time.
10. To run the job or view information about the completed job, click **Go To Job Viewer** or click **Close**.

Delete Key Certificates

Sterling Control Center cannot delete key certificates located on a Sterling Connect:Direct server.

This stipulation also means that you cannot use Sterling Control Center to revert to a previous version of certificates. You also cannot make a specific version of certificates the current version. To perform these functions, see the documentation for the Sterling Connect:Direct server.

Importing a trusted certificate

To use a different trusted root file to validate the identity of the trusted source, import that information to the remote node record. Sterling Control Center supports Base 64-encoded key certificate files.

About this task

To import one or more trusted certificates:

Procedure

1. Right-click a Sterling Connect:Direct server or server group and select **Configure Server > Secure+ > Secure+ Nodes**.

Note: If this option is disabled, it is likely due to the fact the server requires a secure connection and one is not being used by Sterling Control Center.

2. Highlight the trusted certificates to import and select the action **Import**.
3. Select one or more Sterling Connect:Direct servers or server groups to which to import the certificates. Click **Next**.
4. Take one of these steps:
 - To identify all certificate information, select **Enter Trusted Certificate details**.
 - To import a certificate that exists on another server, select **Start from an existing Trusted Certificate on another server**. Identify the server where the certificate is located and the name of the certificate.
5. Click **Next**.
6. Provide a label name for the certificate and type the passphrase.
7. Click **File** and locate the certificate. Click **Next**.
8. To update a parameter value if the value is already defined on the destination node, select **Overwrite Trusted Certificate if it already exists on the server**.
9. In the **Job Name** field, type a name for the configuration job. In the **Job Description** field, type a description of the configuration job.
10. Identify when the certificate is to be imported:
 - **Now** to import the certificate immediately.
 - **Hold for later** to send the job to the job queue with a status of Held.

Note: Select **Hold for later** if you are not ready to initiate the Import trusted certificate job.

- **Schedule for later** and then specify a time zone and date/time when the job is to run. This option sends the job to the job queue with a status of Scheduled.

Click **Next**.

11. Click **Finish**.
12. If you selected **Hold for later** as the job timing option, write down the job number so you can run it at a later time.
13. To run the job or view information about the completed job, click **Go To Job Viewer** or click **Close**.

Duplicating a Trusted Certificate

To simplify creation of a Sterling Connect:Direct Secure Plus trusted certificate, you can duplicate an existing one.

About this task

Duplicating works only on the server where the original Sterling Connect:Direct Secure Plus certificate is located. All properties of the existing entry prefill the input fields in the creation wizard. You must supply Label Name with a unique value.

Note: You cannot create a duplicate trusted certificate Sterling Connect:Direct for z/OS.

To duplicate a Sterling Connect:Direct Secure Plus trusted certificate:

Procedure

1. Right-click a Sterling Connect:Direct server or server group and select **Configure Server > Secure+ > Secure+ Nodes**.

Note: If this option is disabled, it is likely due to the fact the server requires a secure connection and one is not being used by Sterling Control Center.

2. Select the trusted certificates to import and select the action **Duplicate**. The Duplicate Secure+ Trusted Certificate wizard is displayed.
3. In the **Label Name** field, type a unique value. This change is the only one you must make.
4. Make any other changes necessary on this and wizard page and click **Next**.
5. To update a parameter value if the value is already defined on the destination node, select **Overwrite Trusted Certificate if it already exists on the server**.
6. In the **Job Name** field, type a name for the configuration job. In the **Job Description** field, type a description of the configuration job.
7. Identify when the certificate is to be imported:
 - **Now** to import the certificate immediately.
 - **Hold for later** to send the job to the job queue with a status of Held.

Note: Select **Hold for later** if you are not ready to initiate the Duplicate trusted certificate job.

- **Schedule for later** and then specify a time zone and date/time when the job is to be run. This option sends the job to the job queue with a status of Scheduled.

Click **Next**.

8. Click **Finish**.
9. If you selected **Hold for later** as the job timing option, write down the job number so you can run it at a later time.
10. To run the job or view information about the completed job, click **Go To Job Viewer** or click **Close**.

Copying a trusted certificate to another Sterling Connect:Direct Secure Plus server

You can copy a Sterling Connect:Direct Secure Plus trusted certificate to another Sterling Connect:Direct Secure Plus node on any server in your netmap.

About this task

To copy a Sterling Connect:Direct Secure Plus trusted certificate to another node:

Procedure

1. Right-click a Sterling Connect:Direct server or server group and select **Configure Server > Secure+ > Secure+ Nodes**.

Note: If this option is disabled, it is likely due to the fact the server requires a secure connection and one is not being used by Sterling Control Center.

2. Highlight the trusted certificate to copy and select the action **Copy To**.
3. Select one or more Sterling Connect:Direct servers or server groups to which to apply the update. Click **Next**.
4. To update a parameter value already defined on the destination node, select **Overwrite Trusted Certificate if it already exists on the server**.
5. In the **Job Name** field, type a name for the configuration job. In the **Job Description** field, type a description of the configuration job.
6. Specify when the node is to be updated:
 - **Now** to update the file immediately.
 - **Hold for later** to send the job to the job queue with a status of Held.

Note: Select **Hold for later** if you are not ready to initiate the Copy trusted certificate job.

- **Schedule for later** and then specify a time zone and date/time when the job is to run. This option sends the job to the job queue with a status of Scheduled.

Click **Next**.

7. Click **Finish**.
8. If you selected **Hold for later** as the job timing option, write down the job number so you can run it at a later time.
9. To run the job or view information about the completed job, click **Go To Job Viewer** or click **Close**.

Delete trusted certificates

Sterling Control Center cannot delete trusted certificates located on a Sterling Connect:Direct server. This also means that you cannot use Sterling Control Center to revert to a previous version of certificates.

You also cannot make a specific version of certificates the current version. To perform these functions, see the documentation for the Sterling Connect:Direct server.

Chapter 8. Manage user proxies

User proxies control remote user access to Sterling Connect:Direct and determine which Sterling Connect:Direct commands and statements remote users can use. User proxies also map remote Sterling Connect:Direct users on remote nodes to local Sterling Connect:Direct users on the local server.

Use Sterling Control Center to view, update, or delete user proxy records on UNIX or Microsoft Windows servers.

Viewing a user proxy

You can use Sterling Control Center to view user proxies that have been defined in Sterling Connect:Direct.

About this task

For more information, see *User proxy field definitions*.

To view user proxies for a server:

Procedure

1. Right-click the Sterling Connect:Direct server where the user proxies are located and click **Configure Server > User Proxies**.
2. Double-click the user proxy record to view. A User Proxy Properties window is displayed.
3. Click **OK**.

Creating a User Proxy Definition

Create a user proxy definition to enable a remote user to access the local Sterling Connect:Direct server and issue commands and statements.

About this task

For more information, see *User proxy field definitions*.

To create a user proxy definition:

Procedure

1. Right-click the Sterling Connect:Direct server where the user proxy is to be defined and click **Configure Server > User Proxies**.
2. Choose the action **Create User Proxy**.
3. Optionally, select one or more Sterling Connect:Direct servers or server groups on which to create the definition. Click **Next**.
4. Take one of these steps:
 - To create a user proxy definition by typing all information, select **Enter all User Proxy details**.

- To create a definition by copying an existing user proxy, select **Start from an existing User Proxy entry on another server**. Select the server where the definition is located in the **Server** field and the user proxy to copy in the **User Proxy** field.
 - To create a user proxy definition from an existing template, select **Start from a User Proxy template** and select the template to copy in the **Template entry** field.
5. Complete the user proxy definition fields. Click **Next** to move through the definition panels.
 6. To overwrite entries that exist, select **Overwrite User Proxy entry if it already exists on the server**.
 7. In the **Job Name** field, type a name for the configuration job. In the **Job Description** field, type a description of the configuration job.
 8. Identify when the proxy definition is to be created:
 - **Now** to update the file immediately.
 - **Hold for later** to send the job to the job queue with a status of Held.

Note: Select Hold for later if you are not ready to initiate the User Proxy creation job.

- **Schedule for later** and then specify a time zone and date/time when the job is to run. This option sends the job to the job queue with a status of Scheduled.

Click **Next**.

9. Click **Finish**.
10. To run the job or view information about the completed job, click **Go To Job Viewer** or click **Close**.

Entering an LCU encrypted password for user proxies

When you are creating and updating Sterling Connect:Direct for Microsoft Windows user proxies, you can enter a Logon Connection Utility (LCU) encrypted password.

About this task

To enter an LCU encrypted password when you are creating or updating user proxies in the Configuration Manager:

Procedure

On the General Details dialog box, in the **Local Password** and **Verify Password** fields, type the password in the following format:

LCU=(*encrypted value*)

Updating user proxies for a server

Use Sterling Control Center to update user proxy records for a server.

About this task

For more information, see *User proxy field definitions*.

If you change a value, it is validated before the change is applied. If the change is not valid, an error message is displayed and the change is not made.

To update user proxy records:

Procedure

1. Right-click the Sterling Connect:Direct server where the user proxies are located and click **Configure Server > User Proxies**.
2. Double-click the user proxy record to update.
A User Proxy Properties window is displayed.
3. Change the value of the user proxy record fields as required.
4. Click **Update** to close the User Proxy Properties window.
5. To update the user proxy record only if it matches the copy in Sterling Control Center, select **Update only if the object on the server matches Control Center's copy**.
6. In the **Job Name** field, type a name for the configuration job. In the **Job Description** field, type a description of the configuration job.
7. Identify when the user proxies are to be updated:
 - **Now** to update the file immediately.
 - **Hold for later** to send the job to the job queue with a status of Held.
 - **Schedule for later** and then specify a time zone and date/time when the job is to run. This option sends the job to the job queue with a status of Scheduled.Click **Next**.
8. Click **Finish**.
9. If you select **Hold for later**, write down the job number so that you can run it at a later time.
10. To run the job or view information about the completed job, click **Go To Job Viewer** or click **Close**.

Copying a user proxy from one server to another

You can copy user proxies created on one server to another server of the same type. This method provides a quick way to update user proxies on additional servers on the same operating system.

About this task

To copy user proxies to another server:

Procedure

1. Right-click the Sterling Connect:Direct server where the user proxies are located and click **Configure Server > User Proxies**.
2. Highlight the user proxy records to copy.
3. Select the action **Copy To**.
4. Select the Sterling Connect:Direct server groups or servers (of the same type) to which you want to apply this copy. Click **Next** to go to the next panel.
5. To overwrite user proxies that exist, select **Overwrite User Proxy entry if it already exists on the server**.
6. In the **Job Name** field, type a name for the configuration job. In the **Job Description** field, type a description of the configuration job.

7. Identify when the user proxy is to be copied:
 - **Now** to update the file immediately.
 - **Hold for later** to send the job to the job queue with a status of Held.

Note: Select Hold for later if you are not ready to initiate the user proxy copy job.

- **Schedule for later** and then specify a time zone and date/time when the job is to run. This option sends the job to the job queue with a status of Scheduled.

Click **Next**.

8. Click **Finish**.
9. If you selected **Hold for later** as the job timing option, write down the job number so you can run it at a later time.
10. To rerun the job, or a step within the job, or to view information about the completed job, click **Go To Job Viewer**; otherwise, click **Close**.

Duplicating a user proxy

You can duplicate an existing user proxy to create a new one.

About this task

For more information, see *User proxy field definitions*.

To duplicate a user proxy:

Procedure

1. Select a Sterling Connect:Direct server or server group and click **Configure Server > User Proxies**.
2. Highlight a user proxy record and select the Action **Duplicate**.
3. Type a unique name for the user proxy in the **Remote User ID** field.
4. Update any user proxy values as necessary.
5. Review the details in the Confirm Choices dialog box. Click **Finish**.
6. Click **Close**.

Copying user proxy parameters

You can copy selected user proxy parameters from one node to another node of the same type.

About this task

To copy user proxy parameters from one node to another:

Procedure

1. Select a Sterling Connect:Direct server or server group and click **Configure Server > User Proxies**.
2. Highlight a user proxy record and select the Action **Copy Parameters To**.
3. On the first two pages of the resulting wizard, select the server groups and individual servers to copy the parameters to. Click **Next** to go to the next page.

4. On the Destination Node Entry(s) page, select the node entries to which to copy the user proxy parameters.
5. Select the parameters that you want to be copied to the nodes you selected and click **Next**.
6. If you do not want to copy parameters when the parameters differ between the two sources, click **Update only if the object on the server matches Control Center's copy**.
7. In the **Job Name** field, type a name for the configuration job. In the **Job Description** field, type a description of the configuration job.
8. Identify when the parameters are to be copied:
 - **Now** to update the file immediately.
 - **Hold for later** to send the job to the job queue with a status of Held.

Tip: Select **Hold for later** if you are not ready to initiate the parameter copy job.

 - **Schedule for later** and then specify a time zone and date/time when the job is to run. This option sends the job to the job queue with a status of Scheduled.

Click **Next**.
9. Click **Finish**.
10. If you selected **Hold for later** as the job timing option, write down the job number so you can run it at a later time.
11. To rerun the job, or a step within the job, or to view information about the completed job, click **Go To Job Viewer**; otherwise, click **Close**.

Removing a user proxy

You can use Sterling Control Center to delete a user proxy record.

About this task

To remove a user proxy:

Procedure

1. Right-click the Sterling Connect:Direct server where the user proxy is located and click **Configure Server > User Proxies**.
2. Highlight the user proxy record or records to delete. Press and hold the **Ctrl** key to select more than one record.
3. Selection the action **Delete**.
4. Select the Sterling Connect:Direct server groups or servers to which you want to apply the delete. Click **Next** to go to the next page.
5. To delete only user proxies that match Sterling Control Centers copy, select **Delete only if the object on the server matches Control Center's copy**.
6. In the **Job Name** field, type a name for the configuration job. In the **Job Description** field, type a description of the configuration job.
7. Select **Now** to initiate the job immediately, or **Hold for later** to send the job to the job queue with a status of Held. Click **OK**.
8. Identify when the user proxy is to be removed:
 - **Now** to update the file immediately.
 - **Hold for later** to send the job to the job queue with a status of Held.

- **Schedule for later** and then specify a time zone and date/time when the job is to run. This option sends the job to the job queue with a status of Scheduled.

Click **Next**.

- Review the delete choices you made and click **Finish**.
- If you selected **Hold for later** as the job timing option, write down the job number so that you can run it at a later time.
- To rerun the job, or a step within the job, or to view information about the completed job, click **Go To Job Viewer**; otherwise, click **Close**.

User proxy field definitions

The following fields are used to define user proxies in IBM Sterling Control Center.

Field	Description	Valid Values
Copy	The user can issue the copy command, or permissions for the proxy user are the same as for the real user (User). (UNIX)	No Yes Default to Local User ID
Copy Send	The proxy user has permission to perform Copy Send operations. Or, permissions for the proxy user are the same as for the real user (User). (Microsoft Windows)	No Yes User
Copy Receive	The proxy user has permission to perform Copy Receive operations. Or, the permissions for the proxy user are the same as for the real user (User). (Microsoft Windows)	No Yes User
Description	Description. (UNIX)	
Download	The user can download files, or the permissions for the proxy user are the same as for the real user (User). (UNIX)	No Yes Default to Local User ID
Download Directory	The directory the user can use to copy files to and use a destination directory. If no directory is specified, restriction defaults to the local user ID specified for the proxy. (Microsoft Windows, UNIX)	
Local Password	The password associated with the local user ID to which the proxy is mapped. Required. (Microsoft Windows)	
Local User ID	The local user ID to map to the remote node or a specific user ID. Required. (Microsoft Windows)	
Process Directory	The directory containing the Processes the user has authority to submit. If no directory is specified, restriction defaults to the local user ID specified for the proxy. (Microsoft Windows, UNIX)	
Program Directory	The directory containing the programs the user has authority to run. If no directory is specified, restriction defaults to the local user ID specified for the proxy. (Microsoft Windows, UNIX)	
Remote User ID	The remote node user ID or select <ANY USER> to define a generic user ID. Required.	
Remote Node	The name of the remote node. Required.	
Run Job	Whether the user can issue the run job statement or if the permissions for the proxy user are the same as for the real user (User). (UNIX)	No Yes Default to Local User ID

Field	Description	Valid Values
Run Task	The user can issue the run task statement, or the permissions for the proxy user are the same as for the real user (User). (UNIX)	No Yes Default to Local User ID
Submit	Specifies whether the user can issue the submit statement or if the permissions for the proxy user are the same as for the real user (User). (UNIX)	No Yes Default to Local User ID
Upload	The user can upload files, or if the permissions for the proxy user are the same as for the real user (User). (UNIX)	No Yes Default to Local User ID
Upload Directory	The directory the user can use to copy files from and use as a source directory. If no directory is specified, restriction defaults to the local user ID specified for the proxy. (Microsoft Windows, UNIX)	
Verify Password	Retype the password to verify it. Required. (Microsoft Windows)	

Creating a user proxy template

You can create a user proxy template to define the most commonly used user proxies values. Then use the template to quickly update user proxies for a server. Create a template by copying a user proxies file from another server or from an existing template.

About this task

To create a user proxy template:

Procedure

1. From the menu bar, select **Configure Servers > Template > User Proxies**.
2. Select the action **Create New**.
3. Take one of these steps:
 - To create a template by typing all information, select **Enter user proxy details**.
 - To create a template from an existing user proxies file on another server, select **Start from an existing User Proxy entry on another server**. Select the server where the user proxies file is located in the **Server** field and the user proxy to copy in the **Node entry** field.
 - To create a template from an existing template, select **Start from a User Proxy template** and select the template to copy in the **Template entry** field.
4. Click **Next**.
5. Type a name for the template in the **Template Name** field and click **Next**.

Note: Because you are copying an existing template or user proxies file, the operating system associated with the template cannot be changed. Valid user proxies vary for each operating system.

6. Update any user proxy values. Click **Next**.
7. Review the template details in the Confirm Choices dialog box. Click **Finish**.
8. Click **Close**.

Duplicating a user proxy template

You can duplicate a user proxy template to create a template based on an existing one.

About this task

To duplicate a user proxy template:

Procedure

1. From the menu bar, select **Configure Servers > Templates > User Proxies**.
2. Highlight the template to duplicate.
3. Select the action **Duplicate**.
4. Type a unique name for the template in the **Template Name** field.

Note: Because you are copying an existing template, the operating system associated with the template cannot be changed. Valid User Proxies vary for each operating system.

5. Update any user proxy values as necessary. For more information, see *User proxy field definitions*.
6. Review the template details in the Confirm Choices dialog box. Click **Finish**.
7. Click **Close**.

Copying user proxy parameters from a template to a server

You can copy user proxy parameters created in a template to a server.

About this task

You must select a server group or server. To copy a user proxy parameter from a template:

Procedure

1. From the menu bar, select **Configure Server > Templates > User Proxies**.
2. Highlight the template to copy.
3. Select the action **Copy Parameters To**.
4. Select the Sterling Connect:Direct server groups or servers to which you want to apply this copy. Click **Next** to go to the next page.
5. In the Copy User Proxy Parameters window, select the destination nodes. Click **Next**.
6. In the General Details window, select the parameters to copy. Click **Next**.
7. To change the user proxies that exist, select **Overwrite object if it already exists on the server**.
8. In the **Job Name** field, type a name for the configuration job. In the **Description** field, type a description of the configuration job.
9. Identify when the user proxy parameters are to be copied:
 - **Now** to update the file immediately.
 - **Hold for later** to send the job to the job queue with a status of Held.
 - **Schedule for later** and then specify a time zone and date/time when the job is to run. This option sends the job to the job queue with a status of Scheduled.

Click **Next**.

10. Review the parameters you selected and click **Finish**.
11. If you selected **Hold for later** as the job timing option, write down the job number so that you can run it at a later time.
12. To run the job or view information about the completed job, click **Go To Job Viewer** or click **Close**.

Deleting a user proxy template

Delete a user proxy template when it is no longer useful.

About this task

To delete a user proxy template:

Procedure

1. From the menu bar, select **Configure Servers > Templates > User Proxies**.
2. Highlight the template to delete.
3. Select the action **Delete**.
4. At the confirmation window, click **OK**.

Chapter 9. Use the Job Viewer

When you create, update, or delete a configuration item, you can initiate the change immediately, create a job for the hold queue to start later, or schedule a job for later.

Sometimes you know only some of the changes you want to make. If so, change what you know you must change, then hold the job until you can update and start it later. If you select **Hold for later**, write down the job number so you can run the job at a convenient time. The Job Viewer for both queued and completed jobs is limited to only show the most recent jobs. You can use the filter option to retrieve jobs not shown in the default view.

Note: If the Return Code is greater than 0 for a job displayed in the Job Viewer, the entire row is colored.

Associating a job name and description with a node configuration job

You can associate a job name and description with Sterling Control Center node configuration jobs.

About this task

Job names and descriptions enable users to see more descriptive information about a node configuration job in the Queued and Completed Job Viewer listings. As a result, configuration jobs can be released using their assigned name, not just their system-assigned Job ID. You can add a job name and job description to any Sterling Connect:Direct node configuration job you create, update, or delete.

Procedure

You can specify a job name and job description in the following ways:

- When you are creating, updating, or deleting a node configuration job, you can specify a job name, job description, or both on the Other Options dialog box.
- In the Queued Job Viewer, view job properties and specify a job name, job description, or both on the Other Options dialog box.

Results

The Queued Job Viewer and Completed Job Viewer job listings display the job name and job description you specified for the job.

Note: If the Return Code is greater than 0 for a job displayed in the Job Viewer, the entire row is shaded.

Running a job

If you create a configuration update and select the job option **Hold for later**, you must manually start the job at a later time.

About this task

To run a job that has been queued:

Procedure

1. Select **Configure Servers > Queued Configuration Jobs**.
2. Highlight the job to run and click **Start**.

Viewing completed jobs

After a configuration job has been run, you can view the job details.

About this task

To view a completed job:

Procedure

1. Select **Configure Servers > Completed Configuration Jobs**.
2. Highlight the job to view and click **View Steps**.

This job information is displayed:

Field	Description
#	Row number in the table.
Operation	The operation that took place in the step.
Server ID	The server affected by the job.
Started	The date and time the step began.
Completed	The date and time the step completed.
Object ID	The name of the object affected by the step.
Object Type	The type of configuration object affected by the step.
Message ID	The message ID assigned to the step. For more information about message IDs, see <i>System Administration</i> .
Message Text	The message text associated with the message ID.
Return Code	The return code assigned to the step.
User ID	The ID of the user who requested the configuration change.

Note: If the Return Code is greater than 0 for a job displayed in the Job Viewer, the entire row is colored.

3. Double-click the step to view all step information.
4. Click **Close**.

Viewing queued jobs

You can view a list of queued jobs, jobs that were held, or jobs that have yet to complete.

Procedure

From the menu bar, select **Configure Servers > Queued Configuration Jobs**. The Queued Job Viewer is displayed. This information is included in the Queued Job Viewer:

- Row number
- Job ID
- Object IDs
- Server IDs
- Operation Type
- Object Type
- Percent Complete
- Submitting Time
- Scheduled Time
- Message ID
- Message
- Return Code
- User
- Status

Note: If the Return Code is greater than 0 for a job displayed in the Job Viewer, the entire row is shaded.

Updating queued jobs

Jobs that have been held to run later can be updated before running.

About this task

To update a queued job:

Procedure

1. On the **Queued** tab of the Job Viewer, select a job with a status of Job Held.
2. Click **Properties**.
3. Change properties of the job as needed.
4. Click **Update**.

Canceling queued jobs

You can cancel a list of queued jobs, jobs that were held, or jobs that have yet to complete. Jobs that have been held to run later can be canceled before they run.

About this task

To cancel a queue job:

Procedure

1. On the **Queued** tab of the Job Viewer, select a job with a status of Job Held.
2. Click **Cancel Job**. The job is canceled immediately.

Chapter 10. Manage object versions

Sterling Control Center keeps versions of the configuration objects it can manage for the servers it manages. When Sterling Control Center detects that a change has been made to a configuration object (whether instigated by Sterling Control Center or updated locally), it creates a version of the objects of that type.

For example, when a netmap node is updated locally or through Sterling Control Center, a version of the netmap nodes is created.

The number of versions of each object type kept by Sterling Control Center is controlled through **System Settings**. Also, authorized users can make Sterling Control Center automatically check for local updates to configuration objects once per day at a time of their choosing using System Settings.

You can manage versions of these objects:

- Netmap nodes
- Netmap modes
- Netmap communication paths
- Initialization parameters
- Sterling Connect:Direct Secure Plus nodes
- Sterling Connect:Direct Secure Plus key certificates
- Sterling Connect:Direct Secure Plus trusted certificates
- Sterling Connect:Direct Secure Plus cipher suites
- Functional authorities
- User proxies

Comparing versions

To determine differences between versions of configuration objects, use the compare function.

About this task

To compare versions of configuration objects on a server:

Procedure

1. Right-click the Sterling Connect:Direct server for which you want to compare configuration objects and click **Configure Server** > *configuration object*.
2. Select the action **Versions**.
3. Highlight the versions you want to compare. Hold down **Ctrl** to highlight versions.
4. Select the action **Compare**. The Configuration Object Comparison window shows the objects in each version. Parameters that differ between versions are highlighted in red. An entire row is highlighted in red for objects that differ due to a change in their parameters (add, delete, or update). Objects with no counterpart to compare with are also shown in red.

Note: This step is not necessary if you are comparing initialization parameter versions.

5. To select a configuration object to compare to another configuration object or template:

Click **Entry**.

Highlight the server where the configuration object is located.

The current version of the configuration object is automatically selected. To view an older version, select it from the **Select a Version** listing.

Highlight the configuration object to view and click **OK**.

6. To select a template to compare to another template or configuration object:

Click **Template**.

Highlight the template to view and click **OK**.

Note: Templates are not available for Sterling Connect:Direct Secure Plus key certificates, trusted certificates, or cipher suites.

7. In the second window, repeat step 5 and step 6 to identify the configuration object or template you want to compare to the first item selected.
8. To show only configuration objects that are different, select **Show only rows with differences**.
9. To remove a configuration object or template selected for comparison, click **Remove**.
10. To change which items you are comparing, take one of these steps:
 - Click **Entry** to select another configuration object for comparison.
 - Click **Template** to select a different template for comparison.

Making a version the current version

You can replace the current version of a set of configuration objects on a Sterling Connect:Direct server with another version. For example, when you make a version of netmap nodes the current version, all netmap node entries on the Sterling Connect:Direct server are replaced with the entries from the selected version.

About this task

Note: This function is not available for certificates.

To change the current version of a set of configuration objects on a server:

Procedure

1. Right-click the Sterling Connect:Direct server for which you want to make a set of configuration objects the current version and select **Configure Server > configuration object**.
2. Select **Versions**.
3. Highlight the version you want to make the current version.
4. Select **Make Current**.
5. To make the selected version of the configuration object the current version only if it matches the copy on Sterling Control Center, enable **Make current only if the Version on the server matches Control Center's copy**.
6. In the **Job Name** field, type a name for the configuration job. In the **Job Description** field, type a description of the configuration job.

7. Specify a **Job Timing** option when you want the file updated and click **OK**.
 - Select **Now** to update the file immediately.
 - Select **Hold for later** to send the job to the job queue with a status of Held.

If you selected **Hold for later** as the job timing option, write down the job number so that you can run it at a later time.

8. To run the job or view information about the completed job, click **Go To Job Viewer** or click **Close**.

Deleting a version

You can delete a version of a set of configuration objects. Deleting a version of configuration objects does not affect the server they were deleted from. Only the Sterling Control Center data store where the objects are stored is affected.

About this task

To delete a version of a set of configuration objects:

Procedure

1. Right-click the Sterling Connect:Direct server from which you want to delete a set of configuration objects and click **Configure Server > configuration object**.
2. Select **Versions**.
3. Highlight the version you want to delete.
4. Select **Delete**.
5. At the confirmation window, click **OK**.

Viewing version properties

You can view version properties of a configuration object on a server.

About this task

To view version properties of a configuration object on a server:

Procedure

1. Right-click the Sterling Connect:Direct server for which you want to view the properties of a configuration objects and click **Configure Server > configuration object**.
2. Select the action **Versions**.
3. Highlight the version for which you want to view object properties.
4. Select the action **Properties**.

The Configuration Manager window is displayed with the version selected.

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