IBM Sterling Connect:Direct Browser User Interface

Configuration Guide

Version 1.5

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

Before using this information and the product it supports, read the information in *Notices* on page 31.

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Preface

The *IBM Sterling Connect:Direct Browser User Interface System Configuration Guide* is for programmers and network operations staff who configure and maintain IBM® Sterling Connect:Direct® Browser User Interface version 1.5.

Task Overview

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

Task	For More Information, See
Signing on to and signing off from the Sterling Connect:Direct Browser User Interface	Chapter 1, *Signing On and Off*
Configuring the property files that control system-wide Sterling Connect:Direct Browser User Interface properties.	Chapter 2, *Configuring the System Properties*
Configuring a secure connection between Sterling Connect:Direct Browser User Interfaceand a Sterling Connect:Direct server	Chapter 3, *Configuring Security Properties*
Configuring the property files that control node connections	Chapter 4, *Configuring the Node Properties*
Configuring the property files that control user sign on properties	Chapter 5, *Configuring the User Properties*
Configuring the property files that control Sterling B2B Integrator link configuration	Chapter 6, *Configuring the Interface to Sterling B2B Integrator Process Information*
Configuring the Sterling Connect:Direct Browser User Interface for languages other than English	Chapter 7, *Configuring Internationalization Support*

Chapter 1

Signing On and Off

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

1. Access the the URL Sterling Connect:Direct Browser User Interface. Aquire this URL from the system administrator.

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

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

3. Type the IP address or host name of the Sterling Connect:Direct system that you want to sign on to. If the node you are signing on to is configured in the Sterling Connect:Direct Browser User Interface, leave this field blank.

4. Type the port number of the Sterling Connect:Direct system that you want to sign on to. If the node you are signing on to is configured in the Sterling Connect:Direct Browser User Interface, leave this field blank.

5. Specify the protocol to use. Default specifies to use the value defined in the node. If there is no node definition, default specifies to use TCP/IP.

6. Type your user ID.

7. Type your password.

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

8. Click **Sign On**.

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

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

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

Configuring the System Properties

The Sterling Connect:Direct Browser User Interface system property file contains the system-wide Sterling Connect:Direct Browser User Interface configuration values and certain default values. There is only one system property file for each installation of the Sterling Connect:Direct Browser User Interface on a Web server (each Sterling Connect:Direct Browser User Interface servlet). This property file also stores the administrator ID and password. You should change the administrator ID and password from their defaults (*admin/admin*) as soon as possible.

The default values in a property file are used if the values are not specified at the next level or during logon. For example, if you do not specify a Sterling Connect:Direct node during logon, the Sterling Connect:Direct Browser User Interface uses the node value from the user property file. If no value exists in the user property file for this user, the Sterling Connect:Direct Browser User Interface then uses the node value from the system property file.

You control the property files with the Configure function from the Sterling Connect:Direct Browser User Interface page. Access to this function is restricted by user ID and password.

Note: When you select any other function in the Sterling Connect:Direct Browser User Interface, you are automatically signed off of the Configuration utility and must sign on again to use it.

Changing the Administrator ID and Password

You should change the administrator ID and password from their defaults (*admin/admin*) as soon as possible. To change the administrator ID and password:

1. Select **Configuration** from the **Admin Functions** menu.

2. Enter the administrator ID and password and click **Sign On**.

   The Configure Node Properties page is displayed.

3. Click **System**.

   The Configure System Properties page is displayed.

4. Type over the current administrator ID with a new one.

5. Type the current administrator password.

6. Type the new administrator password.

7. Type the new administrator password again to verify it.

8. Click **Update**.

Changing a System Property File

To change a system property file:

1. Select **Configuration** from the **Admin Functions** menu.

2. Enter the administrator ID and password and click **Sign On**.

   The Configure System Properties page is displayed.

3. Click **System**.

   The Configure System Properties page is displayed.

4. Type the values for the property file. The following table summarizes the field entries.

Field	Description
Logging	A system property that controls whether Sterling Connect:Direct Browser User Interface activity is logged to the trace data set. This property does not affect Process logging. The values are: Off–No logging is performed. Minimal–Basic logging at key processing points is performed. Maximal–Detailed logging is performed.
Debug	Indicates whether debug tracing for Sterling Connect:Direct Browser User Interface operation is written to the trace data set. This property does not control Process execution debug tracing. The values are: Off–No debug tracing is performed. Minimal–Basic debug tracing is performed. Maximal–Extended debug tracing is performed.
Allow Only Defined	Users–Specifies that only users defined in user property files can access the Sterling Connect:Direct Browser User Interface. Nodes–Specifies that the Sterling Connect:Direct Browser User Interface can only access nodes defined in the node property files. If you specify Y, you must create at least one node property file.
Display Nodes	Specifies if nodes defined to the Sterling Connect:Direct Browser User Interface are displayed in a list box on the Signon page.

Field	Description
Default Connect:Direct Node	Specifies the name of the Sterling Connect:Direct node to connect with, if the node is not specified in a request. This value must be the same as the name of one of the node property files. There is no default value.
Default Connect:Direct User	Specifies the Sterling Connect:Direct user ID or the user property file name to use if one is not specified in a request. There is no default value.
Servlet Information	Specifies the Sterling Connect:Direct user ID or the user property file name to use if one is not specified in a request. There is no default value.
Session Timeout in Seconds	Specifies the number of seconds before a session terminates when no requests are processed. The default is 1800 seconds.
Maximum Records	Specifies the maximum number of records that a Sterling Connect:Direct node can return in response to a command. If the number of records exceeds this value, the command continues, but all records returned after the maximum number are will be discarded. The default is an unlimited number of records.

5. Click **Update**.

Enabling Nodes to Display on the Sign On Page

To enable the Sterling Connect:Direct Browser User Interface to display a node list box on the Sign On page:

1. Select **Configuration** from the **Admin Functions** menu.

2. Enter the administrator ID and password and click **Sign On**.

    The Configure Node Properties page is displayed.

3. Click **System**.

    The Configure System Properties page is displayed.

4. Select **Yes** for the Display Nodes field.

5. Click **Update**.

Chapter 3

Configuring Security Properties

There are two secure connections for the Sterling Connect:Direct Browser User Interface. The first type of connection is set up automatically during installation. It is an HTTPS connection between your browser and the Sterling Connect:Direct Browser User Interface servlet. The second is a JSSE connection between the Sterling Connect:Direct Browser User Interface servlet and a Sterling Connect:Direct system running the IBM® Sterling Sterling Connect:Direct® Secure Plus. Both secure connections increase the security of transactions. Neither secure connection is required for operation. Use the procedures in this chapter to reconfigure the HTTPS connection, or to configure the SSL or TLS connection.

Configuring an HTTPS Connection

The HTTP secure connection is automatically configured during installation. Use the following procedure if you want to change the key store, key store password, or key certificate password used by the Jetty server. The default key store is stored in the bin subdirectory of the Sterling Connect:Direct Browser User Interface.

1. Select **Configuration** from the **Admin Functions** menu.

   The Configure Site Properties page is displayed.

2. Enter the administrator ID and password and click **Sign On**.

   The Configure Node Properties page is displayed.

3. Click **Security**.

   The Configure Security Properties page is displayed.

4. Complete the fields on this page. The following table summarizes the field entries.

Field	Description
Key Store	Specifies the file name of the key store. Default is keystore.jks. This file is used by the Jetty server to access the secure port that was specified during installation.
Key Store Password	Specifies the password used by the Jetty server to access the key store. The default is changeit.
Key Store Password Verification	Retype the key store password.
Key Cert Password	Specifies the password used by the Jetty server to access the key certificate. The default is changeit.
Key Cert Password Verification	Retype the key cert password.

5. Click **Update**.

Note: You can create a new key store using the keytool utility located in the *<installation>*/jre/bin folder. For complete documentation of the keytool utility, refer to the Sun Microsystems web site at http://java.sun.com/.

Configure the SSL or TLS Connection

To configure a secure connection between Sterling Connect:Direct Browser User Interface servlet and a Sterling Connect:Direct system running Sterling Connect:Direct Secure Plus, you need a trust store containing a trusted root certificate. Your Sterling Connect:Direct Secure Plus administrator can give you the trusted root certificate. After you obtain the trusted root certificate, use the following procedure to add it to the trust store using the keytool utility:

1. Navigate to the following directory:

```
<installation>/jre/bin
```

2. Type the following command and press **Enter**:

```
keytool -import -v -file trustedroot.crt -alias mycert -keystore browsercerts
-storepass password
```

The following table describes the parameter values:

Value	Description
trustedroot.crt	Path and file name of the trusted root certificate provided by the Sterling Connect:Direct Secure Plus administrator.
mycert	Alias name that will be used to identify the trusted root certificate in the trust store. This must be unique to each trusted root certificate in the trust store.
browsercerts	Path and file name of the trust store. If this file already exists, the trusted root certificate will be added. If this file does not exist, it is created and the trusted root certificate is added.
password	Password associated with the trusted root certificate.

Note: For complete documentation of the keytool utility, refer to the Sun Microsystems web site at http://java.sun.com/.

After you have the added the trusted root certificate to the trust store, use the following procedure to configure Sterling Connect:Direct Browser User Interface.

1. Select **Configuration** from the **Admin Functions** menu.

   The Configure Site Properties page is displayed.

2. Enter the administrator ID and password and click **Sign On**.

   The Configure Node Properties page is displayed.

3. Click **Security**.

   The Configure Security Properties page is displayed.

4. Complete the fields on this page. The following table summarizes the field entries.

Field	Description
Trust Store	The file name of the trust store. This file is used for secure connections from the Sterling Connect:Direct Browser User Interfaceto a Sterling Connect:Direct server that is using Sterling Connect:Direct Secure Plus. You must acquire the certificate from the Sterling Connect:Direct server and place it in the trust store.
Trust Store Password	Specifies the password used to access the trust store. The default is changeit.
Trust Store Password Verification	Retype the trust store password.

5. Click **Update**.

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Configuring the Node Properties

The Sterling Connect:Direct Browser User Interface Node property file defines the properties of nodes that you will connect to. This property file is optional. The default values in the node property file are used if the values are not specified during logon. Configuring node properties is restricted by user ID and password.

Adding a New Node Property File

To add a new node property file:

1. Select **Configuration** from the **Admin Functions** menu.

2. Enter the administrator ID and password and click **Sign On**.

   The Configure Node Properties page is displayed.

3. Type the new node name that you want to add.

4. Type the remaining values for the node property file. The following table summarizes the field entries.

Field	Description
Node	Specifies a 1–16 character name for the Sterling Connect:Direct node, as defined in the network map.
	Use of this field for login to the Sterling Connect:Direct Browser User Interface is optional; if the node is defined in your user property file, you do not have to supply a node during login.
Address	Specifies the host name or the IP address of the remote Sterling Connect:Direct node. Format is nnn.nnn.nnn.nnn or an alphanumeric host name. Alias names are not supported.
Port	Specifies the TCP/IP port number used to communicate with the node, in format nnnnn.

Field	Description
Protocol	Specifies the default protocol for the node. You can override this value when signing on.
Description	Specifies descriptive information for the node. Up to 127 characters can be supplied.

5. Click **Add**.

Changing a Node Property File

To change a node property file:

1. Select **Configuration** from the **Admin Functions** menu.
2. Enter the administrator ID and password and click **Sign On**.

    The Configure Node Properties page is displayed.
3. Select the node property file you want to change from the list.

    The values for that property file are displayed.
4. Type the values you want to change. See *Adding a New Node Property File* on page 17 for field descriptions.
5. Click **Update**.

Deleting a Node Property File

To delete a node property file:

1. Select **Configuration** from the **Admin Functions** menu.
2. Enter the administrator ID and password and click **Sign On**.

    The Configure Node Properties page is displayed.
3. Select the property file you want to delete from the list.
4. Click **Remove**.

Configuring the User Properties

The Sterling Connect:Direct Browser User Interface User property file contains user identification information. This property file is optional. If you use this property file, you can create one for each Sterling Connect:Direct Browser User Interface user or user group.

The default values in a property file are used if the values are not specified at the next level or during logon. For example, if you do not specify a Sterling Connect:Direct node during logon, the Sterling Connect:Direct Browser User Interface uses the node value from the user property file. If no value exists in the user property file for this user, the Sterling Connect:Direct Browser User Interface then uses the node value from the system property file.

You control the property files with the Configure function from the Sterling Connect:Direct Browser User Interface page. Access to this function is restricted by user ID and password.

Adding a New User Property File

To add a new user property file:

1. Select **Configuration** from the **Admin Functions** menu.

2. Enter the administrator ID and password and click **Sign On**.

   The Configure Node Properties page is displayed.

3. Click **Users**.

   The Configure User Properties page is displayed.

4. Type the new user name that you want to add.

5. Type the password associated with the user name.

6. Type the remaining values for the property file. The following table summarizes the field entries.

Field	Description
Node	Specifies a 1–16 character name for the Sterling Connect:Direct node, as defined in the network map.
	Use of this field for login to the Sterling Connect:Direct Browser User Interface is optional; if the node is defined in your user property file, you do not have to supply a node during login.
Default Current Directory	Specifies the default directory to browse for a file.
Description	Specifies descriptive information for the node. Up to 127 characters can be supplied.

7. Click **Add**.

Changing a User Property File

To change a user property file:

1. Select **Configuration** from the **Admin Functions** menu.

2. Enter the administrator ID and password and click **Sign On**.

   The Configure Node Properties page is displayed.

3. Click **Users**.

   The Configure User Properties page is displayed.

4. Select the user you want to change from the list.

   The values for that property file are displayed.

5. Type the values you want to change. See the glossary for field descriptions.

6. Click **Update**.

   Note: You cannot reset a user's password to null with this function. To reset a user's password to null, you must delete the user profile, then recreate the profile without a password.

Deleting a User Property File

To delete a user property file:

1. Select **Configuration** from the **Admin Functions** menu.

2. Enter the administrator ID and password and click **Sign On**.

   The Configure Node Properties page is displayed.

3. Click **Users**.

   The Configure User Properties page is displayed.

4. Select the user property file you want to delete from the list.

5. Click **Remove**.

Configuring the Interface to Sterling B2B Integrator Process Information

The Sterling Connect:Direct Browser User Interface now provides the ability to display IBM® Sterling B2B Integrator Process tracking information for Sterling Connect:Direct Processes submitted to a Sterling B2B Integrator system. Before using this feature, you must configure two links to Sterling B2B Integrator. Sterling Connect:Direct Browser User Interface uses the first link when the Process name is starts with the letter B and is followed by the Sterling B2B Integrator Business Process ID (such as B438478). The Sterling Connect:Direct Browser User Interface uses the second link when the Sterling B2B Integrator Business Process ID is not known.

Adding the Sterling B2B Integrator Links

To configure these links:

1. From the **Admin Functions** menu, click **Configuration**. The Configure Site Properties page is displayed.

2. Type the Administrator User ID and password and click **Sign On** to access the Configure Node Properties page.

3. Click **Links** to access the Configure Link Properties page.

4. Type information into the following fields to create the first link.:

Field	Description
Link Name	Type a unique name for this link, such as SI1.
Node Name	Type the name of the node where the Sterling B2B Integrator Process is submitted.
Record IDs	Do not make any changes to this field.
Advanced	Leave this field blank.
URL	Type: `http://`*`host:port`*`/ws/ExtLogin?userid=&USERID;&password=&PASSWORD;&bpid=&BPID;` where *host:port* are the host name/IP address and port number of the Sterling B2B Integrator system.
User Id	Type the user ID to access the Sterling B2B Integrator system.
Password	Type the password to access the Sterling B2B Integrator system.

5. Click **Add** to add the first link.

6. Type information into the following fields to create the second link:

Field	Description
Link Name	Type a unique name for this link, such as SI2. This name must sequentially follow the first link name. For example SI1, SI2, or Link1, Link2.

Field	Description
Node Name	Type the node name you entered in step 4.
Record IDs	Do not make any changes to this field.
Advanced	Leave this field blank.

URL	Type:
	`http://host:port/ws/ExtCorr?userid=&USERID;&password=&PASSWORD;`
	`&where=live&CD_ProcessName=&PNAM;&CD_ProcessNum=&PNUM;&CD_SnodeName=&SNOD`
	`; &CD_PnodeName=&SBND;`
	where *host:port* are the host name/IP address and port number of the Sterling B2B Integrator system.

User Id	Type the user ID to access the Sterling B2B Integrator system.
Password	Type the password to access the Sterling B2B Integrator system.

7. Click **Add** to add the second link.

   The links are configured.

Updating a Link

To update a link:

1. From the **Admin Functions** menu, click **Configuration** to display the Configure Site Properties page.

2. Type the Administrator User ID and password and click **Sign On** to access the Configure Node Properties page.

3. Click **Links** to access the Configure Link Properties page.

4. Click **Choose One** and select a link to update.

5. Update information in the fields. For field descriptions, refer to *Adding the Sterling B2B Integrator Links* on page 23.

Removing a Link

To remove a link:

1. From the **Admin Functions** menu, click **Configuration** to display the Configure Site Properties page.

2. Type the Administrator User ID and password and click **Sign On** to access the Configure Node Properties page.

3.   Click **Links** to access the Configure Link Properties page.

4.   Select the link that you want to remove from the list box.

5.   Click **Remove**.

Configuring Internationalization Support

The following sections describe how to configure internationalization support for Sterling Connect:Direct Browser User Interface:

✦ Adding Language Support for Sterling Connect:Direct Browser User Interface

✦ Customizing a Language Property File

Adding Language Support for Sterling Connect:Direct Browser User Interface

The Sterling Connect:Direct Browser User Interface translation files are installed in the WEB-INF/classes directory when the Sterling Connect:Direct Browser User Interface is installed. The system administrator can delete any unneeded translation files if desired.

To add a new language to the Sterling Connect:Direct Browser User Interface:

1. Access the Sterling Connect:Direct Product Updates & Downloads page in the Connect section of the IBM Sterling Customer Center site at https://customer.sterlingcommerce.com/group/sterling/support_center.

2. Under the Platform Independent heading, navigate to the Sterling Connect:Direct Browser User Interface

3. Under the International Language Files heading, click on the View/Download link to download the file for desired language. The file will have a .jar extension.

4. Save the file to the cdinstall/work/Jetty_port_cdbrowser/webapp/WEB-INF/classes directory, where cdinstall represents the Sterling Connect:Direct Browser User Interface installation directory.

5. Rename the downloaded .jar file to have a .zip extension. On Microsoft Windows, right-click the file and select "Extract all", which will create a new folder containing the properties files. On UNIX, use the unzip command to extract the properties files. Copy the two resulting properties files into the cdinstall/work/Jetty_port_cdbrowser/webapp/WEB-INF/classes directory.

6. Restart the Sterling Connect:Direct Browser User Interface and select the desired language from the Sign On page.
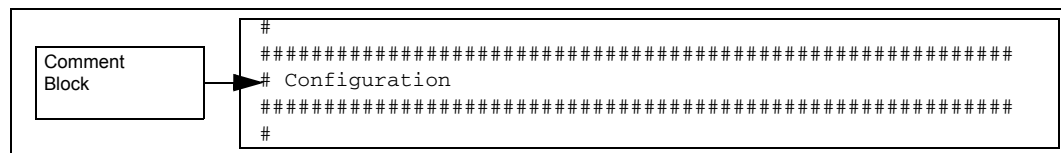
Customizing a Language Property File

You can customize any language property file. For example, you may want to change the field labels on a particular page to something more meaningful to your organization. There are two language property files:

✦ The CDMessage_*ll_CC*.properties file contain all character strings used by the Sterling Connect:Direct Browser User Interface , except for strings used by the software development kit (SDK). This includes most screen labels and text messages.

✦ The CDSdkMessage_*ll_CC*.properties file contains character strings that the SDK uses. This is mainly labels for detail records, including Process, statistics, node, path, mode, proxy, user authority, and tracing details. It also contains some exceptions and errors that the SDK generates.
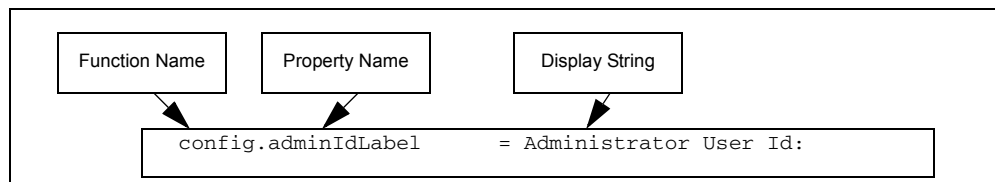
To modify a language property file:

1. Make a backup copy of the current language property file and rename it.

2. Open the language property file you want to change with a text editor such as Notepad.

   A property file consists of sections. Each section generally corresponds to a Sterling Connect:Direct Browser User Interface page and is indicated by a comment block. In the following example, the comment block indicates that this is the configuration function section.

```
                                #
Comment       ###########################################################
Block         # Configuration
              ###########################################################
                                #
```

3. Locate the section where you want to make the change.

   Each section contains the individual properties for that function. Each property has the following format:

```
   Function Name    Property Name        Display String

        config.adminIdLabel        = Administrator User Id:
```

Each property name is preceded by the function name and a period. In the preceding example, the function name **config** identifies this as a configuration function property.

Each property name ends with a label that identifies where on the page it is used. The labels are:

◆ Title–identifies text that appears in a large font at the top of the page.

◆ Label–identifies text that precedes an input field.

◆ Button–identifies text that appears on a button.

◆ Text–identifies all other types of text that appear on the screen.

In the example above, the name **config.adminIdLabel** identifies the property as being the Administrator User ID field label in the configuration function.

4. Locate the property name that you want to change.

5. Replace the display string text to the right of the equal sign with the new display text.

   Do not modify any text to the left of the equal sign. The equal sign must remain in column 27 and must be followed by a space.

6. Repeat steps 4 through 6 for each property you want to change.

7. Save the property file when complete.

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Glossary

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

Term	Definition
BUFND	Specifies the number of I/O buffers VSAM uses for transmitting data between virtual and auxiliary storage. A buffer is the size of a control interval in the data component. Valid values range from 1–510.
	Increasing this number generally improves the I/O performance on the file but requires more memory.
Buffer Size	Specifies the buffer size for transmitting data to and from a remote Sterling Connect:Direct node. This is a numeric value from 256–32,768. The default is 4096.
	This field overrides the initialization parameter value.
Checkpoint Restart	Specifies if checkpointing is used. This allows restart of interrupted transmissions at the last valid checkpoint, reducing the time to retransmit a file.
	The options are:
	Default–Uses the value specified in the Checkpoint Interval initialization parameter.
	Check At Every–Performs checkpoints at the specified number of kilobytes or megabytes.
	Sequential files, VSAM files, or partitioned data sets (PDS) can be checkpointed. Checkpointing of PDS-to-PDS transmissions occurs on each each member. Sequential-to-PDS and PDS-to-sequential transmissions cannot be checkpointed.
Completion Code	Specifies the completion code operator and return code values associated with step termination. Also referred to as the condition code.
	The completion code operands are **Equal to**, **Greater or Equal to**, **Greater than**, **Less or equal to**, **Less than**, and **Not Equal to**.
	Valid completion codes are:
	• Any–All values.
	• 0–Successful execution of the Process.
	• 4–A warning error was encountered. The statement probably finished normally, but you should verify the execution results.
	• 8–An error occurred during Process execution.
	• 16–A severe error occurred during Process execution.
Compression	Specifies if the file data should be compressed, reducing the amount of data transmitted as the file is copied. The file is then automatically decompressed at its destination.
	The options are:
	None–The data is not compressed
	Primary Char–Compresses text data or single-character repetitive data. Repetitive occurrences (ranging from 2–63) of the primary compression character are compressed to one byte. Repetitive occurrences (ranging from 3–63) of any other character are compressed to two bytes.
	If you select the Primary Char option, you must specify either the primary compression character or its hexidexcimal equivalent. The default value for the primary compression character is a blank (X'40').
	Extended–Extended searches for repetitive strings of characters in data and compresses them to codes that are transmitted and converted back to the original string during decompression.
	If you select Extended compression, you must specify the following:
	• Comp Level–The compression level. Level 1 is the fastest compression, but it offers the lowest amount of compression. Selecting a higher value produces more compression, but is slower.
	• Window–The size of the compression window or history buffer. Specifying a higher window size increases the degree of compression and uses more virtual memory (above the line); for example, window size 8 uses 1 KB of memory, whereas size 15 uses 128 KB of memory.
	• Memory–Identifies how much virtual memory (above the line) is allocated to compression. Level 1 requires the least memory (1K), but it reduces the amount of compression. Level 9 provides the fastest compression, but it uses the most memory (256K).
	Compression is CPU-intensive, and its effectiveness is data dependent. It should only be used if its benefits are known.

Term	Definition
Condition Code	See Completion Code.
Class	Specifies the preferred session class for the Process. The Process can execute in the class specified or any higher class. Values range from one to the maximum number of PNODE sessions defined in the network map definition. This value overrides any defaults.
Comment Statement	A statement within a Process that contains a descriptive comment.
Conditional Statement	A statement within a Process that controls its execution by testing Process step return codes and directing the next step. Conditional statements are If, Then, Else, EIF, Goto, and Exit.
Copy Statement	A statement within a Process that performs a data transfer. Copy statement parameters include source and destination file names and attributes.
DATAEXIT	Specifies the name of the user-written program called to examine or modify the COPY data.
DCB	Data Control Block. Specifies the attributes used to allocate source and destination files.
Debug	A system property that indicates whether debug tracing for Sterling Connect:Direct Browser User Interface operation is written to the trace data set. This property does not control Process execution debug tracing. The values are: Off–No debug tracing is performed. Minimal–Basic debug tracing is performed. Maximal–Extended debug tracing is performed.
Default Current Directory	Specifies the default directory to browse for a file.
Description	A node or user property that specifies descriptive information about the property file.
Destination DISP	Specifies what to do with the destination file after a copy is complete. The destination DISP values can be: NEW–Creates a new file on the destination node. RPL–Creates a new file on the destination node or, if the file already exists, replaces the named file on the destination node. MOD–Appends data to the end of an existing file for which you have exclusive rights. OLD–The file exists, and the Process has exclusive control of the file. SHR–The file exists and the Process does not have exclusive control of the file. The exact DISP values displayed depend on the platform.
Destination file	Specifies the name of the destination file that you are copying to. The name should include the full path to the file. The name can be 1–256 characters long (1–8 characters for HP NonStop Kernel).
Direction	Specifies the copy file direction. Selecting **Send** sends the file to the SNODE. Selecting **Receive** indicates the file is received from the SNODE.
Display Nodes	Specifies if nodes defined to the Sterling Connect:Direct Browser User Interface are displayed in a list box on the Signon page.
Default Connect:Direct Node	A system and user property that specifies the name of the Sterling Connect:Direct node to connect with, if the node is not specified in a request. This value must be the same as the name of one of the node property files. There is no default value.

Term	Definition
Default Connect:Direct User ID	A system or user property that specifies the Sterling Connect:Direct user ID or the user property file name to use if one is not specified in a request. There is no default value.
Exclusion Criteria	Specifies criteria for excluding specific CMS files from a copy operation. The format is: generic | member | (startrange/stoprange)| list generic–Specifies a generic file name. member–Specifies an individual file name. startrange–Specifies the first name in an alphanumeric range of files. stoprange–Specifies the last name in an alphanumeric range of files.
File Type	Specifies the VM file type.
Hold Status	Specifies the Hold status of a Process. The Hold statuses are: • No–The Process is not placed in the Hold queue. It is executed as soon as resources are available. • Yes–The Process is held in the Hold queue in Held Initially (HI) status until it is explicitly released. • Call–The Process is held until the SNODE, as specified in the Process SNODE parameter, connects to the PNODE. The Process is then released for execution. The Process is also released when another Process on the PNODE connects to the SNODE.
Host Name	Specifies the 1–256 character host name for the node.
IP Address	Specifies the IP address of the Sterling Connect:Direct system you want to sign on to. It is in the format nnn.nnn.nnn.nnn, for example 127.0.0.1. You do not have to supply an IP address if a node property file is defined for you.
Label	Specifies the label information for the tape.
Link	Specifies the disk where the CMS file is located. This parameter allows access to the CMS file. The Link information consists of: User ID–The owner ID for the CMS minidisk where the file is located. The valid length ranges from 1–8 characters. Password–The password for the CMS minidisk where the file is located. The maximum length is 256 characters. The default password is ALL. Access mode–the link access mode. The Copy From access modes are: • W (primary read/write access) • M (primary multiple access) • R (primary read-only access) • RR (primary and secondary read-only access) • WR (primary read/write access; alternate read-only access) • MR (primary multiple access; alternate read-only access) • MW (primary multiple access; alternate read/write only access) **Warning**: MW access to CMS format disks can be destructive. If you use MW access, no other VM user or Sterling Connect:Direct Process should have MW, M, or W access to the minidisk. If multiple users or Processes simultaneously write to the disk, the CMS directory on the disk can be destroyed. CUU–The virtual address of the disk where the CMS file is located. Any four-digit number is valid.

Term	Definition
Logging	A system property that controls whether Sterling Connect:Direct Browser User Interface activity is logged to the trace data set. This property does not affect Process logging. The values are: Off–No logging is performed. Minimal–Basic logging at key processing points is performed. Maximal–Detailed logging is performed.
Maximum API Connections	Specifies the Sterling Connect:Direct for UNIX api.max.connects local.node parameter that defines the maximum number of concurrent API connections permitted for the local node. The default is 16.
Maximum Logon Attempts	Specifies the maximum number of signon attempts the user is allowed per hour. The range is 0–99. The default is 60. Zero (0) indicates no maximum number.
Maximum Records	A system property that specifies the maximum number of records that a Sterling Connect:Direct node can return in response to a command. If the number of records exceeds this value, the command continues, but all records returned after the maximum number are will be discarded. The default is an unlimited number of records.
Maximum RU Size	Specifies the maximum RU size for sessions in this group. The default is 4096.
Maximum Sessions	Specifies the maximum number of sessions allowed in this mode group. The default is 8. Specify 1 if you use dependent LUs as the communications path because dependent LUs can only support a single session.
Mode	Specifies the 1–48 character communications mode name.
New Name	Specifies the new name of the Process. The default is the label on the Process statement.
Netmap Check	Specifies the Sterling Connect:Direct for UNIX netmap.check local.node parameter that determines if security checks are made to verify that a remote node name is in the netmap.cfg file.
Node	Specifies a 1–16 character name for the Sterling Connect:Direct node, as defined in the network map. Use of this field for login to the Sterling Connect:Direct Browser User Interface is optional; if the node is defined in your user property file, you do not have to supply a node during login.
Normal termination	Specifies the disposition of a file following a normal Process step termination that results in a zero completion code. The values are: KEEP–The file is kept after the Process step finishes. DELETE–The file is deleted after the Process step terminates normally. CATLG–The file is kept after the Process step terminates abnormally and an entry is placed in the system catalog (z/OS only).
Notify	Specifies the user ID to receive Process completion messages. The user ID is notified through a Microsoft Exchange E-mail, a Microsoft Windows dialog box, or a TSO notify.
Old Date	Specifies to use the creation or last modified date and the time of the file being transmitted to set the creation date and time of the file received. If you do not specify to use the old date, the current date and time are used for the creation date and time of the received file. Use this for sequential file transfers between two IBM® Sterling Connect:Direct® for VM/ESA systems, and transfers between a set of CMS files on Sterling Connect:Direct for VM/ESA to a PDS on an IBM® Sterling Connect:Direct® for z/OS® system.

Term	Definition
Operator	Specifies the type of comparison to be performed in an If statement. Operators are: • **EQ** specifies equals. • **GE** specifies must be greater than or equal to • **GT** specifies must be greater than • **LE** specifies must be less than or equal • **LT** specifies must be less • **NE** specifies does not equal
Pacing Send Count	Specifies the number of send operations to perform before waiting for a pacing response from a remote node. This is a numeric value from 0–63. The default is 0, which indicates no pacing. This field overrides the initialization parameter value.
Pacing Send Delay	Specifies the amount of time Sterling Connect:Direct waits before sending each outbound data buffer to the remote node. This is a 24-hour time value formatted as hh:mm:ss. The default value of 0 indicates that Sterling Connect:Direct sends each data buffer as soon as possible. The maximum value is 23:59:59. This field overrides the initialization parameters value.
Pacing Size	Specifies the largest permissible receive pacing window size for sessions in this mode group. Sterling Connect:Direct sends this number of data buffers before waiting for an acknowledgment from the remote node. The range is 0–63; 0 specifies no pacing. The default is 7.
Parallel Sessions	Specifies the Sterling Connect:Direct for UNIX local.node sess.total parameter that defines the maximum number of concurrent connections between all nodes and the local node. The default is 255.
Passticket Data	Specifies the values required for a Stage 2 security exit to rewrite a RACF PassTicket password. The format is *APPL prof name, secured signon key*, where: • *APPL prof name* is the value specified when the profile is defined for the PTICDATA class. • *Secured signon key* is the value associated with the PTICDATA class and the name specified in the APPL Prof name.
Password	A user node property that specifies the password corresponding to the User ID property value. If no value is specified, the system assumes either that there is no password associated with the user ID, or that a password is specified during logon. If you create a password you cannot later reset it to a null password. Instead, you must delete the user profile, then recreate the profile without a password.
Pend Statement	A statement within a Process that indicates the end of a Process. The Pend statement is only used in Sterling Connect:Direct for UNIX and Sterling Connect:Direct for Microsoft Windows Processes. There are no parameters for the Pend statement.
Port	Specifies the 1–5-digit port number of the Sterling Connect:Direct system you want to sign on to. You do not have to supply a port number if a node property file is defined.
Port property	A node property that specifies the 1–5-digit port number of this Sterling Connect:Direct node. The default listening port is 1363 for API requests.
PNODE	Specifies the Sterling Connect:Direct network node where the Process resides (the primary node).
PNODE Password	Specifies the user password on the PNODE. This field is case-sensitive.
PNODE User ID	Specifies the user ID used as a security ID on the PNODE. This ID must be the name of an existing user account. This field is case-sensitive.

Term	Definition
Priority	Specifies the priority of a Process in the Transmission Control queue. Sterling Connect:Direct uses the Priority parameter for Process selection. Values range from 1–15. The lower the number, the higher the priority. A Process with higher priority is selected for execution before a Process with a lower priority. This parameter does not affect the priority during transmission.
Process file name	Specifies the name of the file that contains the Process.
Process Name	Specifies the 1–8 character name of the Process.
Process Number	Specifies the system-assigned number of the Process. The range is 1–99999.
Process Statement	The first statement in a Process. The Process statement defines general Process characteristics, including Process name, primary and secondary nodes, execution date and time, security parameters, accounting data, and symbolic variables.
Protect	Specifies whether an IBM RACF profile is created for a new file.
Protocol	Specifies the type of protocol for a communications mode or path, either TCP/IP or APPC.
Proxy Attempt	Specifies the Sterling Connect:Direct for UNIX local.node proxy.attempt parameter that defines if remote users can specify a dummy user ID in the SNODE ID. The default is no, where neither the local system nor the remote system requires a user ID from the other side.
Queue	Specifies which queue to select Processes from. The queues are: • All–All Processes in the TCQ. • Exec–Processes currently be executed. • Hold–Processes that are either held by the user or operator or held due to execution errors. • Timer–Processes that are scheduled for execution later, or Processes in time retry due to session errors. • Wait–Processes that are eligible for execution and are awaiting selection. The following additional queues are available for HP NonStop: • Bad–An error occurred during initialization of Process execution. This error can occur because of a security error or some other unrecoverable error. • Call–The Process executes after a connection is established with the other node. You cannot specify a start date or time. • Initial–A copy of the Process executes when you start the server. • Hold–The Process remains the Hold queue until you release it. • PExc–The Process is pending execution. • Retain–A copy of the Process is retained after execution. You can later release a copy of this Process for execution. • Rettimer–The Process executes periodically, either daily or weekly. A copy of the Process is released for execution at the end of the period specified. • Retry–Process retries after a certain interval if the error that occurred is recoverable. • Suspend–The SUSPEND PROCESS command suspends the Process. You can later release the Process for execution.
Record Categories	Specifies whether the record is related to an event or to a Process. The values are: • CAEV–The record is related to a Sterling Connect:Direct event, such as a Sterling Connect:Direct shutdown. • CAPR–The record is related to a Sterling Connect:Direct Process.

Term	Definition
Record ID	Specifies the type of statistics record generated. See the *Select Statistics Results* Help topic for a list of Records IDs
Remote C:D Platform	Specifies the type of Sterling Connect:Direct system on the SNODE.
Replace	Specifies that the files sent replace destination files with the same name.
Retain	Indicates whether Sterling Connect:Direct retains a copy of a Process after it is executed.
	If you specify Retain with a start time, the Process is released for execution at the specified time. Each time a retained Process is released, Sterling Connect:Direct creates a copy with a new Process number. The copy is executed, and the original Process remains in the queue.
	The Retain options are:
	• Initial–Specifies to retain the Process in the Hold queue for execution every time that Sterling Connect:Direct initializes. Do not specify a start time if you choose this option.
	• No–Specifies to not retain the Process after it is executed.
	• Yes–Specifies to retain the Process in the Hold queue after it is executed. You can release the Process for execution later or delete it. When you specify a start date and start time, set **Retain** to **Yes** to continually execute the Process at the scheduled time.
Run Job Statement	A statement within a Process that submits a job to the host operating system. This job executes concurrently with the Process. Any Process statements following the Run Job statement execute without waiting for the Run Job results. The job can execute on either the local or remote node.
Run Task Statement	A statement within a Process that executes an external program or command. The program or command must complete before any further statements in the Process are executed. Run Task produces a return code as the exit code for the program it calls.
	Do not call programs with the Run Task statement that require user intervention to complete.
	Do not use a return code 16 in any programs called by the Run Task statement, or the Run Task will fail.
Security ID	Specifies the 1–64 character security ID used by a security subsystem such as RACF subsystem.
Security Password	Specifies the 1–64 character security password required by a security subsystem such as RACF subsystem.
Select	Specifies selection criteria for copying OpenVMS PDS members.
	The SELECT parameters are:
	name–Specifies an individual member name.
	*–Specifies a global generic indicating that all members of the file are to be included.

Term	Definition
Selection Criteria	Specifies selection criteria for copying a set of CMS files.
	The format is:
	member | generic|(*) | (member,[newname], [NR|R])|generic,,[NR|R] (startrange/stoprange,, [NR|R])| list
	The values are:
	member–Specifies an individual file name.
	generic–Specifies a generic file name.
	(*)–Specifies a global generic. A global generic indicates that all files in the set of files are to be included.
	newname–Specifies a new name for a file. The newname parameter must be null if a generic name or range is used in the first subparameter position.
	NR–Specifies that a file does not replace an existing file of the same name at the receiving set of files. NR overrides the REPLACE option. When used with newname, NR applies to the newname and not to the original file name. When used with a generic name or with a range, NR applies to all files selected for that criterion.
	R–Specifies that a file replaces an existing file of the same name at the receiving set of files. When used with newname, R applies to the newname and not to the original file name. When used with a generic name or with a range, R applies to all files selected for that criterion.
	When using a generic and specifying NR or R, ensure that the second positional parameter (newname) is null.
	startrange–Specifies the first name in an alphanumeric range of files.
	stoprange–Specifies the last name in an alphanumeric range of files.
Servlet Information	A system property that specifies the servlet information. The default is the Sterling Connect:Direct Browser User Interface.
Session Time-out in Seconds	A system property that specifies the number of seconds before a session terminates when no requests are processed. The default is 1800 seconds.
SNODE	Specifies the secondary node to be used in this Process. The secondary node name is a 1–16 alphanumeric character name that is defined in the network map. The name can be expressed in alphanumerics or nationals (@#$) with embedded periods.
SNODE New Password	Specifies a new password for the SNODE. The user password is changed to the new value on the SNODE if the user ID and old password are correct and the SNODE supports this optional parameter. Sterling Connect:Direct does not support spaces in the password. This field is case-sensitive.
SNODE Password	Specifies the user password on the SNODE. This field is case-sensitive.
SNODE User ID	Specifies the user ID used as a security ID on the SNODE. This field is case-sensitive.
Source DISP	Specifies access to the source file during a copy operation. The values can be:
	SHR–The file can be opened for read-only access while it is being copied.
	OLD–The file cannot be opened during the transfer.
	The exact DISP values displayed depend on the platform.
Source File	Specifies the fully qualified name of the source file being copied. The name can be 1–256 characters long (1–8 characters for HP NonStop Kernel).
Space	Specifies the amount of DASD storage to be allocated for new files on the destination node. Specify Space for all new non-VSAM files unless you specify a Typekey file that includes Space parameters.

Term	Definition
Start Date	Specifies the day and date to execute the Process.
Start Time	Specifies the time to execute the Process.
Status	Selects Processes for viewing according to status. Not used for HP NonStop. The statuses are: • Execution (EX)–The Process is being executed. • Pending Execution (PE)–The Process is selected for execution and startup is in progress. • Waiting Connection (WC)–The Process is ready to execute, but all available connections to the SNODE are in use. • Waiting Start Time (WS)–The Process is waiting in the Timer queue because it was submitted with a start time or date that has not expired. • Held Suspension (HS)–The operator issued a delete Process request with Hold set to Yes. • Timer Retry (RE)–The Process is in the Timer queue in RE (retry) status with short-term and long-term wait times. • Held for Call (HC)–The Process was submitted with the Hold option set to Call. • Held Due to Error (HE)–A session error or other abnormal condition occurred, and the Process is being held as a result. • Held Initially (HI)–The Process was submitted with the Hold option set to Yes. • Held By Operator (HO)–The Process is held because a Change Process request with Hold set to Yes was issued. • Held By Retain (HR)–The Process was submitted with retain after execution set to Yes or Initial.
Step Label	A 1–8 character user-defined string that identifies a Sterling Connect:Direct statement. The first character must be alphabetic. Step labels are also used by Goto statements to identify branching destinations in a Process.
Stop Date	View Processes ending on this date.
Stop Time	View Processes ending at this time.
Submit Statement	A statement within a Process that submits another Process. The Process can execute on either the local or remote node.
Submitter	Specifies the node name and user ID of the user that submitted the Process. Separate the node name and user ID with a comma; for example, atlanta, user1. To specify multiple submitters, enclose each node name/user ID combination in parentheses and separate with commas; for example, (atlanta, user1), (atlanta, user2), (atlanta, user3).
Symbolic Variables	Symbolic variables are text strings in a Process which are replaced with predefined values went the Process is executed. This allows you to easily change Processes when these values changes. For example, you van define a variable &filename and declare the value to be file1.txt. Whenever the Process encounters the &filename variable, it substitutes file1.txt. If you want to use a different value, just change the &filename definition to the new file name, and the Process will use that instead.
SYSOPTS	Specifies the platform-specific system operations. These parameters specify the data type, translation tables, inherited rights, attributes, and trustees. Separate multiple UNIX SYSOPTS with colons. Separate multiple Microsoft Windows, z/OS, OS/400, OpenVMS, VM, or VSE SYSOPTS with a space. Separate multiple HP Non-Stop SYSOPTS with a comma. Refer to the *Sterling Connect:Direct Process Statements Guide* for specific SYSOPTS values.
TCP Address	Specifies the Sterling Connect:Direct for UNIX local.node tcp.api parameter that is used to monitor connection requests from the CLI or API using TCP/IP. You can specify either the host name of the Sterling Connect:Direct host computer or the IP address of the Sterling Connect:Direct host computer.

Term	Definition
TCP API Bufsize	Specifies the Sterling Connect:Direct for UNIX local.node tcp.api.bufsize parameter that defines the buffer size for transmitting data to and from a Sterling Connect:Direct CLI/API. The default is 4096 bytes.
TCP Max Time to Wait	Specifies the Sterling Connect:Direct for UNIX local.node tcp.max.time.to.wait parameter that defines the maximum number of seconds that the local node waits for a message from the remote node when using TCP/IP. When the time expires, the Process moves to the timer queue and Sterling Connect:Direct attempts to reestablish a session with the remote node. When set to 0, the wait time is unlimited, unless limited by the operating system. The default value is 0.
TCP Port	Specifies the Sterling Connect:Direct port name or number used in TCP/IP communications.
Typekey	Specifies the name of the file that contains the default file attributes used to allocate the destination file. Specify a Typekey only when you request defaults.
Unit	Specifies the unit address, device type, or user-assigned group name where the file resides or will reside.
	For the OS/400 platform, specifies the unit identifier of the auxiliary storage unit where the storage space for the file and file members is allocated.
Value	Specifies the completion code used for comparison in an If statement.
	Typically, a completion code less than 4 indicates that the Process completed successfully, completion code of 4 indicates a warning, and a completion code greater than 4 indicates the Process ended with errors.
VOL	Specifies the volume serial numbers containing the file and optional processing associated with the file.
VSAMCAT	Specifies the name of the VSAM catalog where the VSAM file resides.

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