

Sterling Commerce Product Documentation



Connect:Direct® UNIX Version 3.6.01 Release Notes

Connect:Direct UNIX Version 3.6.01 Release Notes

Third Edition

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Connect:Direct UNIX Version 3.6.01 Release Notes

The *Connect:Direct UNIX Version 3.6.01 Release Notes* document supplements Connect:Direct UNIX version 3.6 documentation. Release notes are updated with each release of the product and contain last-minute changes and product requirements, as well as other information pertinent to installing and implementing Connect:Direct UNIX. Read the document in its entirety before installation.

The Connect:Direct UNIX package consists of the distribution media, a product key, and product publications. The Connect:Direct UNIX application is distributed as follows:

- ◆ CD-ROM
- ◆ File downloaded from the Sterling Commerce Electronic Software Distribution Portal

Product Requirements

Connect:Direct UNIX has the following requirements.

Memory and Disk Space

Connect:Direct UNIX has the following memory and disk space requirements:

Component	RAM	Disk Space
Connect:Direct UNIX Server	64 MB	50 MB
Connect:Direct UNIX API/CLI	64 MB	16 MB
Connect:Direct UNIX Server with File Agent	64 MB	130 MB
Connect:Direct UNIX Server with File Agent and Secure+ Option	64 MB	200 MB

Hardware and Software

Connect:Direct UNIX offers two connectivity options: TCP/IP and LU6.2. Each option runs on specific platforms. For TCP connectivity, the system must support TCP/IP and Berkeley Software Distribution (BSD) or compatible sockets.

Connect:Direct UNIX requires the following hardware and software:

Component or Functionality	Hardware	Software
Connect:Direct UNIX with TCP/IP connectivity	HP 9000 series	HP-UX version 11.11 or 11.23
	HP Integrity systems with Intel Itanium processors	HP-UX version 11.23 Note: HP Itanium uses the Ares emulation environment to run Connect:Direct UNIX. Additionally, it does not support Connect:Direct Browser User Interface and Secure+ Option.
	IBM System p5	AIX version 5.1, 5.2, or 5.3
	Sun SPARC systems	Solaris version 9.0 or 10
	Intel Pentium system	Solaris version 9.0
	Intel Pentium system	SuSE version SLES 8 or SLES 9
	Intel Pentium system	Red Hat Enterprise Linux (version 2.1, 3.0, or 4.0) AS or ES distribution
	Compaq Tru64	Tru64 version 5.1A
	Linux zSeries	SuSE version SLES 8
	Linux zSeries	Red Hat Advanced Server 3.0
Connect:Direct UNIX with LU6.2 connectivity	HP 9000 series	HP-UX version 11.0
	IBM System p5	AIX version 5.1
	Sun SPARC systems	Solaris version 8.0
File Agent	Same as requirements for Connect:Direct UNIX	Java 2 Platform, Standard Edition (J2SE) 1.4, installed with File Agent. Note: The Java software is not installed with File Agent for the HP Integrity systems with Intel Itanium processor, Compaq Tru64, or Linux zSeries. You must download the file from the software manufacturer's Web site before installing File Agent.

Component or Functionality	Hardware	Software
SNA support using LU6.2 connectivity	IBM System p5	Install and configure Communications Server for AIX V5.
SNAPplus2	HP 9000 series	For HP-UX 11.00, you must install and configure both of the following: <ul style="list-style-type: none"> ◆ SNAPplus2 Link version R6.11.00 ◆ SNAPplus2 API version R6.11.00
SunLink SNA	Sun SPARC systems	Install and configure one of the following: <ul style="list-style-type: none"> ◆ SNAP-IX Gateway software Data Connection Limited ◆ Brixton PU2.1 SNA Server version 4.1 or later
High-Availability support	HP 9000 series	HP MC/Service Guard
	IBM System p5	IBM HACMP
	Sun SPARC systems	SunCluster 2.2 and 3.0 Note: To use Connect:Direct UNIX in a SunCluster environment, you must install a Sun C compiler.

Additional Requirements

Connect:Direct UNIX has the following additional requirements.

Supported Interfaces

Connect:Direct UNIX supports the following interfaces:

- ◆ Ethernet
- ◆ Token ring
- ◆ SDLC
- ◆ X.25 (QLLC)

Password Storage

Connect:Direct UNIX enables you to use any of the following for password storage:

- ◆ /etc/passwd file
- ◆ /etc/shadow file when supported by the operating system
- ◆ HP-UX trusted security
- ◆ Network Information Service (NIS), formerly known as Yellow Pages
- ◆ Digital UNIX Enhanced Security

License Management Key File

The license management key file identifies the product features that are available at a site. When you purchase the Connect:Direct UNIX application, a temporary key file is sent to you that enables operation of Connect:Direct UNIX for a limited time. You must replace the temporary key with a permanent key to continue running Connect:Direct UNIX.

The temporary and permanent key files are supplied as text files named *nnnnn.txt*, where *nnnnn* is a number assigned by Sterling Commerce. Each key file is sent to you as an attachment to an e-mail. The temporary and permanent license key file must be applied on the computer where Connect:Direct UNIX is installed.

To apply the temporary and permanent key file:

1. Copy the license key file from the Sterling Commerce e-mail to the *d_dir/ndm/cfg/nodename* directory, where *d_dir* is the location of the Connect:Direct UNIX installation and *nodename* is the name of the node you defined when you installed Connect:Direct UNIX.
2. Rename the license key file to **license.key**.

Caution: Do not edit the *nnnnn.txt* file or the *license.key* file. Text editors may insert a carriage return or truncate lines, which will invalidate the key file.

3. To obtain a permanent license key file:
 - ◆ Type `hostid.sh` to run a program that identifies your host information.
 - ◆ Reply to the Sterling Commerce e-mail containing your temporary license key file and copy the results of the `hostid` program into the e-mail.

You will receive the permanent license key file through e-mail in approximately 24 to 48 hours.
4. Make a copy of the original permanent license key file and keep it in a safe place.
5. Repeat steps 1 and 2 to replace the temporary license key file with the permanent key file.

Features and Enhancements

Connect:Direct UNIX version 3.6 has the following features and enhancements.

Product	Feature or Enhancement
Connect:Direct UNIX 3.6.01	Supports the Certicom SSL 4.5.4f optimized toolkit for enhanced performance on the AIX, Solaris, HP-UX, and Linux platforms.
	Certified on Red Hat Enterprise Linux Advanced Server 3.0, SuSE SLES 9.0, and Sun Solaris 10.0.
	Supports Connect:Direct Browser User Interface version 1.4.00.

Product	Feature or Enhancement
Connect:Direct UNIX 3.6.00	The File Agent feature automatically watches one or more directories for files and submits a Process when a file is detected. This feature also provides the ability to add rules to change the File Agent's default behavior for files that you specify.
	Connect:Direct FTP+ Plug-In licensing information is integrated with the Connect:Direct UNIX server.
	A statistics record identifies the size of a source file during a Copy Step operation.
	A Step Start statistics record is created for each step.
	A Process in the TCQ can be viewed.
	Support for the Process Editor is available in Connect:Direct Browser User Interface.
	Connect:Direct Browser User Interface can be utilized to update the user authority file.
	A trace can be performed for a Process or for a node.
	An initialization parameter has been added to strip trailing blanks from a file to reduce the file size and improve performance.
	Supports secure API connections using the Connect:Direct Java Application Interface (API) Option when used with Connect:Direct Secure+ Option version 3.1 or later.

Special Considerations

Successfully implementing the Connect:Direct UNIX application requires taking into account the considerations described here in addition to the procedures contained in this document and the other Connect:Direct UNIX documents. Refer to the following notes before installing the product.

Special Process Naming Considerations Across Platforms

Although Connect:Direct UNIX Process names can be up to 256 characters long, some Connect:Direct platforms, such as Connect:Direct OS/390, limit Process names to eight characters. Processes running between UNIX and platforms that limit Process names to eight characters can have unpredictable results if longer names are specified.

Special Considerations for Connectivity with the HP NonStop Kernel Operating System

This version of Connect:Direct UNIX offers connectivity to Connect:Direct HP NonStop Kernel version 3.2.00 or later using TCP/IP. Refer to the following notes when transferring files from the UNIX operating system to the HP NonStop Kernel operating system:

- ◆ Do not define the `sysopts` parameter with continuation marks. Type the text in a continuous string, with blanks separating each subparameter. The `sysopts` parameter is valid for the copy statement.
- ◆ When copying files from the UNIX operating system to the HP NonStop Kernel operating system, define the `dcb` parameter to allocate destination files. Define any additional options using the `sysopts` parameter. The `dcb` and `sysopts` parameters are valid for the copy statement. Use of the `dcb` parameter ensures that the attributes of the file being sent match the attributes of the file that is created on the remote node. If you do not define the `dcb` parameter, the default file types on the destination node are as follows:
 - ◆ If you are transferring a text file, the file type on the HP NonStop Kernel node defaults to an unstructured file, code 101.
 - ◆ If you are transferring a binary file, the file type on the HP NonStop Kernel node defaults to an unstructured file, code 0.
- ◆ When copying files from the HP NonStop Kernel operating system to the UNIX operating system, define the `sysopts` parameter to allocate destination files.

For syntax and parameter descriptions for Process statements, see the Connect:Direct Processes Web site at <http://www.sterlingcommerce.com/documentation/processes/processhome.html>.

Special Considerations for Connect:Direct UNIX Running on HP-UX

If you are installing Connect:Direct UNIX for the first time and intend to use an SNA connection, install the SNA stack (SNAplus2) before you install Connect:Direct UNIX.

Connect:Direct UNIX requires the PA-RISC 2.0 CPU to run. Create and run the following shell script to determine which PA-RISC microprocessor is installed on your HP system:

```
#!/bin/sh
grep $(getconf _SC_CPU_VERSION | awk '{printf("0x%x", $0)}' ) /usr/include/sys/unistd.h
```

Installation Notes

Before you install Connect:Direct UNIX, read all the information in this section and follow the guidelines.

- ◆ Review *Connect:Direct UNIX Version 3.6.01 Release Notes* for last-minute product information and pre-installation tasks.
- ◆ Print and review *Connect:Direct UNIX Getting Started Guide*.

- ◆ Complete any worksheets prior to installing Connect:Direct UNIX.
- ◆ Review your security configuration to ensure compatibility with Connect:Direct UNIX before proceeding with the installation. Refer to the *Connect:Direct UNIX Getting Started Guide* for security options.
- ◆ Verify that you have the current updates for Connect:Direct UNIX. Access current update information, including instructions for applying updates containing product fixes and enhancements, from the Connect product support Web site at www.sterlingcommerce.com. See *Getting Support for Sterling Commerce Products* on page 31 for instructions.
- ◆ When File Agent is installed on a Compaq Tru64 computer, the InstallAnywhere application reports exceptions to the installation; however, the installation completes successfully.

Upgrading to Connect:Direct UNIX Version 3.6.01

This section provides instructions on upgrading to Connect:Direct UNIX version 3.6.01 and special considerations for performing an upgrade.

Upgrade Considerations

If you are upgrading from an existing version of the Connect:Direct UNIX application, observe the following guidelines:

- ◆ Change the ownership on the statistics files in your work directory so that these files are owned by the user who starts the cdpmgr daemon. Use the following command sequence to change the ownership of the statistics files:

```
$ su root
Password: root_password
# cd cddir/work/node
# chown user_who_starts_cdpmgr S*.*??
```

The following variable definitions apply:

Variable	Definition
root_password	Root user's password
cddir	Directory in which Connect:Direct is installed
node	Your Connect:Direct node name
user_who_starts_cdpmgr	User name of the user who will start the cdpmgr daemon

- ◆ If you are using Connect:Direct Secure+ Option on an HP 9000 series, IBM System p5, Sun SPARC systems, Intel Pentium system, or Compaq Tru64, you must upgrade to version 3.1 after you install Connect:Direct UNIX. Secure+ Option version 1.0, 2.0, and 3.0 are not compatible with this version of Connect:Direct UNIX for these platforms.

- ◆ If you are upgrading to Connect:Direct UNIX from any version prior to version 3.3.00, you must replace the TCQ file with a file in a new format. The upgrade process automatically converts the existing TCQ file to the new format and preserves existing TCQ information. The program to convert the existing TCQ file is included on the installation media. This program, `tcq_convert`, is extracted to the `d_dir/etc/` directory, where `d_dir` is the directory where Connect:Direct UNIX is installed and is automatically invoked by the installation script. You can also run this program manually from the system prompt, as described in the sections that follow.

Assuming that the `d_dir/etc/` directory is in your path, the format for the `tcq_convert` program follows:

```
tcq_convert input_filename output_filename
```

Provide the following required parameters:

Parameter	Description
<code>input_filename</code>	TCQ file in the format from a previous version of Connect:Direct UNIX
<code>output_filename</code>	TCQ file in the format for Connect:Direct UNIX version 3.6

The following example converts the TCQ file (`tcqhdr.ind`) from a previous version of Connect:Direct UNIX, to a file in the new format, `tcqhdr.new`:

```
tcq_convert tcqhdr.ind tcqhdr.new
```

The following table shows the error messages that are generated by the `tcq_convert` program:

Error Message	Description
<code>input_filename</code> is not a valid TCQ file.	The input file is not a valid TCQ file or the TCQ file is corrupted.
<code>input_filename</code> is correct format. No conversion performed.	The input file is already in the new format. The tcq_convert program exits and leaves the input file intact.

Upgrade Procedure

If you want to upgrade Connect:Direct UNIX to version 3.6.01 and retain your current configuration, perform this procedure. For example, if you installed Connect:Direct UNIX server version 3.6 and you want to update the server to version 3.6.01, perform the upgrade. To upgrade the server software and install additional components of Connect:Direct UNIX version 3.6.01 at the same time, refer to the installation procedure, *Installing Connect:Direct UNIX* on page 24.

To upgrade Connect:Direct UNIX version 3.6.01:

1. Log on to the UNIX system with the privileges required to install software. You can create an account specifically for this purpose.

Caution: Do not install as root.

2. If Connect:Direct UNIX is running, stop the server before continuing the upgrade.
3. Depending on how you obtained the product, take one of the following actions:
 - ◆ If you have the product CD, mount the distribution CD-ROM in the appropriate drive, type the following command, and press **Enter** to change to the CD-ROM drive and the directory that correspond to the UNIX platform you are upgrading:

```
$cd /cdrom/platform directory
```

Refer to the following table for the name of the platform directory for each platform:

UNIX Platform	Platform Directory Path
HP 9000 series	HP_PA-RISC
HP-UX Itanium	HP_Itanium
IBM System p5	IBM
Sun SPARC systems	Sun_Solaris
Red Hat	RedHat_linux
SuSE	SuSE_linux
Compaq Tru64	Compaq_Tru64
Linux zSeries	IBMS390_linux
Solaris/x86	Solaris_Intel

- ◆ If you downloaded the product from the ESD Portal, type the following command and press **Enter** to change to the location of the product download:

```
$cd /location of product download
```

4. Type the following command to invoke the installation script and press **Enter**:

```
$ cdinstall
```

The following screen is displayed:

```
Sterling Commerce, Inc.,(TM) Connect:Direct(TM) UNIX(TM)
Installation Procedure

You are beginning the Connect:Direct UNIX Installation
Procedure. You will be asked to specify a directory (called
the destination directory) where the Connect:Direct UNIX
files will be stored.

Please follow the Getting Started Guide and/or Release Notes for the
proper Media Name.

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=====
Press ENTER when ready.
```

5. Read the information and press **Enter**. The following screen is displayed:

```
Enter the full path of the directory where
Connect:Direct UNIX 3.6.0x will be installed.
You can use $HOME to shorten the name:[$home/cdunix]
```

6. Type the path name of the directory where Connect:Direct UNIX will be installed and press **Enter**. The following message is displayed:

```
WARNING: "/directory structure of Connect:Direct Installation" : Directory exists

Files in "/directory structure of Connect:Direct Installation" could be overwritten by the
installation. Do you want to continue [Y/n]y
```

7. Press **Enter**. The following message is displayed:

```
Installed components detected in this directory.

Currently installed C:D UNIX version is less than the version being installed.

There may be additional installation options available in the full installation
procedure. Would you like this procedure to detect and upgrade your
currently installed options with minimal interaction?

Caution: If upgrading from C:D UNIX version 3.4 or 3.5 with no maintenance
or an early version of maintenance, existing Processes in the
TCQ will not run. They will need to be deleted and resubmitted.

Specify yes to continue with the upgrade procedure, or
no to run the full installation procedure: [Y/n]y
```

8. Press **Enter** to continue the upgrade process. The following screen is displayed:

```
Enter the path and filename where the installation file is mounted
or where the ESD portal download is extracted(e.g. /cdrom/IBM/cdunix):
```

9. Type the location of the installation file and press **Enter**. The following message is displayed:

```
Has the C:D UNIX server been stopped?[Y/n]n
Please ensure the C:D UNIX server has been stopped and then rerun cdinstall.
```

10. Type **y** and press **Enter** to continue. The following message is displayed:

```
Would you like to back up your existing C:D UNIX installation before proceeding with
the upgrade? (you will need the root password to do this)[Y/n]
```

11. Do one of the following:

- ◆ To continue the upgrade without backing up your files, type **n** and press **Enter**.
- ◆ To back up your files, type **y** and press **Enter**.

If you type **y** to back up your files, the following message is displayed:

```
This option requires root password. Please enter the root password.
Password:
```

12. If necessary, type the root password and press **Enter**.

The installation searches the disk to determine if enough free disk space is available for the installation. If the destination directory does not have enough free disk space, the script suggests you delete enough files to provide the necessary disk space and then exits.

The installation script copies files from the distribution media to the destination directory and verifies that the correct number of files and blocks are copied.

13. If you are upgrading from version 3.4 or earlier, you are prompted to create a SACL file.

Installing Connect:Direct UNIX from the ESD Portal

These instructions contain procedures for downloading and installing the Connect:Direct UNIX version 3.6.01 release.

The exact name of the file you download from the Sterling Commerce Electronic Software Distribution (ESD) Portal depends on your operating system and platform. In the following instructions, the term *CDUNIXplatform3601.tar.Z* refers to one of the following files:

UNIX Platform	ESD Product Download File Name
HP 9000 series	CDUnixHP_PA-RISC3601.tar.Z
HP Integrity systems with Intel Itanium processors	CDUnixHP_Itanium3601.tar.Z
IBM System p5	CDUnixIBM3601.tar.Z
Sun SPARC systems	CDUnixSun_Solaris3601.tar.Z
Red Hat	CDUnixRedHat_linux3601.tar.Z
SuSE	CDUnixSuSE_linux3601.tar.Z
Compaq Tru64	CDUnixCompaq_Tru643601.tar.Z
Linux for S/390	CDUnixIBMS390_linux3601.tar.Z
Solaris/x86	CDUnixSolaris_Intel3601.tar.Z

Downloading Product Files

These instructions assume that you download the *CDUNIXplatform3601.tar.Z* file to a computer running the Windows operating system (OS) and transfer it to the system where you will install it, unless the Windows OS is the target system.

To download the *CDUNIXplatform3601.tar.Z* file:

1. Log in to the ESD Portal using the instructions in *Access the ESD Portal* in your Order Confirmation e-mail from Sterling Commerce. The Download Area is displayed.
2. Find Connect:Direct UNIX version 3.6.01 and click **Download**.
3. In the **File Download** dialog box, click **Save**.
4. When the **Save As** dialog box opens, specify the location to save the file, or save the file to your desktop.

Note: If Internet Explorer adds a number in brackets to the name of the downloaded file (for example, *CDUNIX_platform_[3].6.01.bin*), rename the file on the Windows system before you transfer it in binary mode to the system where it will be installed.

5. Transfer the *CDUNIXplatform3601.tar.Z* to the system where you will install it.

Caution: Upload the *CDUNIXplatform3601.tar.Z* file to the target system in **binary** mode.

Extracting Files

To extract the application files:

1. Change the current working directory to the directory where you transferred the Connect:Direct UNIX download file on the target system.
2. Perform one of the following actions to uncompress the .tar file:
 - ◆ On Linux systems, type the following command:

```
gzip -d CDUNIXplatform3601.tar.Z
```

- ◆ On HP 9000 series, IBM System p5, and Sun SPARC systems, type the following command:

```
uncompress CDUNIXplatform3601.tar.Z
```

3. Type the following command to retrieve the files from the archive:

```
tar xvf CDUNIXplatform3601.tar.Z
```

The compressed tar file contains the following files:

File Name	Description
cdinstall	Contains the Connect:Direct installation script.
cdunix	Contains the installation cpio file.

Documentation is extracted from the archive into the /documentation directory.

Installing the Application

To install Connect:Direct UNIX:

1. Review *Connect:Direct UNIX Version 3.6.01 Release Notes* for last-minute product information and installation requirements.
2. Perform one of the following actions:
 - ◆ To perform a full installation, follow the instructions in *Installing Connect:Direct UNIX* on page 24.
 - ◆ To upgrade your installation, follow the instructions in *Upgrade Procedure* on page 12.

Maintenance Updates

For a complete list of the issues resolved for Connect:Direct UNIX version 3.6.01, see *Connect:Direct UNIX Version 3.6.01 Maintenance Updates*, which is available on the Support On Demand Web site. See *Getting Support for Sterling Commerce Products* on page 31 for instructions on accessing the Web site.

Known Restrictions

Connect:Direct UNIX version 3.6.01 has the following restrictions:

- ◆ On the HP-UX, IBM System p5, and Linux platforms, when a run task defines an invalid UNIX command, the operating system return code is 127 and the completion code (CCOD) reported by Connect:Direct UNIX is displayed in hexadecimal (7F) in the statistics output. This return code is correct for the error received, even though most return codes are defined as 0, 4, 8, or 16.

If the return code value of 127 is the highest step return code, the Process End (PRED) statistics record message ID is set to the Message ID of the run task step. On other platforms, the run task return code is 1, resulting in the message ID of XSMG252I in the PRED statistics record.
- ◆ If you are using the file allocation retry function when communicating with a remote node on an operating system that is not UNIX, identify operating system retry codes using formats and code values defined by the remote node.
- ◆ A copy operation from Connect:Direct UNIX to Connect:Direct OS/400 completes successfully, but generates an SNA error in the iSeries log.
- ◆ On the Linux platform, you must use the C functions in the ndmapi.h file for name-mangling schemes. If your compiler uses a different name mangling scheme, the C++ functions will not work on the Linux platform.
- ◆ The following features are not supported for Connect:Direct UNIX running on Linux Red Hat or SuSE:
 - ◆ SNA
 - ◆ SNMP
- ◆ The following features are not supported for Connect:Direct UNIX running on HP Integrity systems with Intel Itanium processors:
 - ◆ Connect:Direct Browser User Interface
 - ◆ Secure+ Option

Documentation Updates

This section describes last-minute updates to the Connect:Direct UNIX documentation.

Connect:Direct UNIX User's Guide

The following changes apply to the *Connect:Direct UNIX User's Guide*:

Parameters for submit Command

On page 2-7, replace the definitions of notify and retain with the following definitions and add the definition for crc:

Parameter	Description	Value
notify	<p>The user e-mail to receive Process completion messages. This parameter uses the rmail utility available in the UNIX System V mail facility to deliver the completion messages.</p> <p>Note: Connect:Direct does not validate the e-mail address or user ID supplied to the notify parameter. Invalid e-mail addresses and failed e-mail attempts are handled according to the local mail facilities configuration.</p>	username@hostname or user@localhost
retain	<p>Determines if Connect:Direct retains a copy of the Process in the TCQ. Connect:Direct assigns a Process number to the Process when it is placed in the retain queue. When the Process is run, the Process number assigned to the retain Process is incremented by one. For example, if the Process is assigned the Process number of 1445 in the retain queue, the Process number is 1446 when the Process is executed.</p> <p>If you specify a start time and set retain=yes, the Process remains in the Timer queue in HR status and is submitted at the appropriate interval. For example, when startt=(Monday,2:00), the Process runs each Monday at 2:00 AM. When startt=(,1:00), the Process runs daily at 1:00 AM. Connect:Direct UNIX does not provide a way to run a Process hourly. To do this, you must use the UNIX cron utility.</p> <p>If no start time is identified, you must issue a change process command to release the Process for execution.</p> <p>Do not code the startt parameter when you specify retain=initial.</p>	<p>yes <u>no</u> initial</p> <p>yes specifies that the system retains the Process in the Hold queue in HR status after execution.</p> <p>no specifies that the system deletes the Process from the TCQ after execution. The default is no.</p> <p>initial specifies that the system retains the Process in the Hold queue in HR status for automatic execution every time the Process Manager initializes.</p>

Parameter	Description	Value
crc	<p>Determines if crc checking is performed. This parameter overrides settings in the initialization parameter, the network map, and the Process.</p> <p>Note: The user must be assigned authority to change the crc settings in the user authority file.</p>	<p>on off</p> <p>on turns on crc checking.</p> <p>off turns off crc checking.</p>

Changing Process Parameters

On page 2-10, add the following sentence to the end of the section:

You can set tracing for an existing Process by setting the `tracel` parameter to 1, 2, or 4. You can turn off tracing for a Process by setting `trace1` to 0.

Running System Diagnostics

On page 2-27, replace the first two paragraphs with the following paragraphs:

The diagnostic command, `trace`, enables you to run system diagnostics and to troubleshoot operational problems. Use the `trace` command to enable and disable runtime traces within the Process Manager, Command Manager, and Session Manager components of the software. For Session Manager traces and Command Manager traces, you can run a trace for a specific node.

The Command Manager trace affects only the Command Manager that executes the `trace` command. It does not affect all Command Managers. Session Manager traces go into effect immediately. You must specify one parameter.

On page 2-29, replace the definition of smgr with the following definition to add the new value called tnode:

Parameter	Description	Value
smgr	<p>To run the trace for Session Managers created after issuing the trace command. Currently executing Session Managers are unaffected.</p> <p>If you run both the comm and smgr traces, trace output for both traces is directed to the file name of the trace last specified.</p>	<p>level=0 1 2 <u>4</u></p> <p>snode pnode tnode</p> <p>file=name</p> <p>level specifies the level of detail displayed in the trace output. The default is 4.</p> <p>0 terminates the trace.</p> <p>1 is the basic level that provides function entry and function exit.</p> <p>2 includes level 1 plus function arguments.</p> <p>4 enables a full trace that provides basic diagnostic information, such as values of internal data structures at key points in the execution flow.</p> <p>snode specifies to trace only the SNODE SMGR.</p> <p>pnode specifies to trace only the PNODE SMGR.</p> <p>tnode identifies the node on which to perform the trace. If you want to gather trace information for more than one node, identify more than one node in this parameter.</p> <p>file specifies the name of a file where the trace output is directed. If you do not specify a file name, the file is created in the Connect:Direct working directory with the file name SMGR.TRC. The length of the name value is unlimited. The default file name is SMGR.TRC.</p>

The following sample trace command performs a level 2 trace on the Session Manager for the node called ath3500ry and writes the output to the file Smgp.trc:

```
trace smgr pnode tnode=ath3500ry level=2 file=Smgp.trc;
```

The Translation Table Utility

On page 4-1, replace the second paragraph with the following paragraph:

To create a translation table, either copy the file called `/cd_dir/cdunix/ndm/src/def_send.sxlt` or `/cd_dir/cdunix/ndm/src/def_rcv.sxlt`, where `cd_dir` is the directory where Connect:Direct UNIX is installed, and rename it or modify this file. Use a text editor to add the new values to the table in the file you created. Compile the updated file with the `ndmxlt` utility. Replace the default translation table in the `d_dir/ndm/xlate` with the updated table. Each table is 256 bytes long.

Sample Translation Table Modification

On page 4-2, add the following section before the section called *Using Translation During File Operation*:

This section provides examples of how to create a translation table or modify an existing translation table.

Example—Creating a Translation Table

Perform the following steps to create a sample translation table that changes lowercase characters to uppercase characters:

1. Make a copy of the sample translation table located at *cd_dir/ndm/src/def_send.sxlt*.
2. Open the new translation table with a text editor.
3. Add the following lines to the bottom of the table. It should look like the table on page 4-1 when you have added this information.

```
#
# Change the lowercase characters to uppercase.
offset=61
C1 C2 C3 C4 C5 C6 C7 C8 C9 D1 D2 D3 D4 D5 D6 D7
D8 D9 E2 E3 E4 E5 E6 E7 E8 E9
```

4. Copy the modified file to *cd_dir/ndm/src* and name it *UpperCaseEBC.sxlt*.
5. Compile the new translation table using the following syntax:

```
ndmxlt -s../src/UpperCaseEBC.sxlt -oUpperCaseEBC.xlt
```

6. To use this translation table, add the following *sysopts* parameter to the copy statement:

```
copy from file=filename
      to   file=filename
      sysopts=" :xlate.tbl=pathname/UpperCaseEBC.xlt: "
```

Example—Modifying a Model Translation Table

Perform the following steps to modify a model translation table. This method, when implemented, reads the model table and writes it to a new file. It then reads the input data and makes changes to the table created.

1. Create a file called `FourLinesUpperCase.sxlt` and add the following lines to the file:

```
#
# Change the lowercase characters to uppercase.
offset=61
C1 C2 C3 C4 C5 C6 C7 C8 C9 D1 D2 D3 D4 D5 D6 D7
D8 D9 E2 E3 E4 E5 E6 E7 E8 E9
```

2. Copy the modified file to `cd_dir/ndm/src`.
3. Type the following command to compile this file and create a translation table called `fourLineUpperCase.xlt`:

```
ndmxlt -s../src/FourLineUpperCase.sxlt -oFourLineUpperCase.xlt -mdef_send.xlt
```

4. To use this translation table, add the following `sysopts` parameter to the copy statement:

```
copy from file=filename
      to   file=filename
      sysopts=" :xlate.tbl=pathname/FourLineUpperCase.xlt:"
```

Connect:Direct UNIX Getting Started Guide

The following changes apply to the *Connect:Direct UNIX Getting Started Guide*.

Cluster Support Limitations

On page 2-2, replace the section with the following information to remove the reference to the checkpoint limitation:

When running Connect:Direct UNIX in a cluster environment, be aware of the following limitations:

- ◆ If a failure occurs, all Processes being held will be restarted when Connect:Direct is restarted. This includes Processes that are held by the operator as well as Processes held in error. This could cause a security risk.
- ◆ When a Connect:Direct `ndmsmgr` process associated with a Connect:Direct Process is killed, the `ndmsmgr` process is not automatically restarted and put in the Held in Error state. It must be manually restarted; otherwise, the Connect:Direct Process is restarted when the SunCluster restart occurs.
- ◆ On the Hewlett-Packard MC/Service Guard High Availability software, the SNMP daemon cannot be used.

Installing Connect:Direct UNIX

On page 2-4, replace the installation procedure with the following procedure:

1. Log on to the UNIX system with the privileges required to install software. You can create an account specifically for this purpose.

Caution: Do not install as root.

2. Depending upon how you obtained the product, take one of the following actions:
 - ◆ If you have the product CD, type the following command and press **Enter** to change to the CD-ROM drive and the directory that correspond to the UNIX platform:

```
$cd /cdrom/platform directory
```

Refer to the following table for the name of the platform directory for each platform:

UNIX Platform	Platform Directory Path
HP 9000 series	HP_PA-RISC
HP UX Itanium	HP_Itanium
IBM System p5	IBM
Sun SPARC systems	Sun_Solaris
Red Hat	RedHat_linux
SuSE	SuSE_linux
Compaq Tru64	Compaq_Tru64
Linux zSeries	IBMS390_linux
Solaris/x86	Solaris_Intel

- ◆ If you downloaded the product from the ESD Portal, type the following command and press **Enter** to change to the location of the product download:

```
$cd /location of product download
```

3. Type the following command to invoke the installation script and press **Enter**:

```
$ cdinstall
```


The following screen is displayed:

```

Sterling Commerce, Inc.,(TM) Connect:Direct(TM) UNIX(TM)
Installation Procedure

You are beginning the Connect:Direct UNIX Installation
Procedure. You will be asked to specify a directory (called
the destination directory) where the Connect:Direct UNIX
files will be stored.

Please follow the Getting Started Guide and/or Release Notes for the
proper Media Name.

Sterling Commerce, Inc.(TM) and Connect:Direct(TM) are trademarks
of Sterling Commerce, Inc. in the U.S.A. and other countries.

UNIX is a registered trademark of The Open Group
=====
Press ENTER when ready.

```

4. Read the information and press **Enter**. The following screen is displayed:

```

Enter the full path of the directory where
Connect:Direct UNIX 3.6.0x will be installed.
You can use $HOME to shorten the name:[$home/cdunix]

```

5. Type the path name of the directory where Connect:Direct UNIX will be installed and press **Enter**.
6. When you are prompted to confirm the installation location, press **Enter**. The following screen is displayed:

```

Please select one of the following installation options:

(1) Connect:Direct UNIX server and client(CLI/API)
(2) Connect:Direct UNIX server
(3) Connect:Direct UNIX client(CLI/API)
(4) Connect:Direct UNIX File Agent
(5) Connect:Direct UNIX SNMP Agent
(6) EXIT

Enter your choice:[1]

```

7. Do one of the following:
 - ◆ Type **1** to install the server and client on the same computer and press **Enter**.
 - ◆ Type **2** to install the server only and press **Enter**.
 - ◆ Type **3** to install the client only and press **Enter**.

The following screen is displayed:

```
Enter the path and filename where the installation file is mounted
or where the ESD portal download is extracted(e.g. /cdrom/IBM/cdunix):
```

8. Type the location of the installation file and press **Enter**.

If you select **1** in step 7 on page 25 to install the server and client, the following screen is displayed. If you select option **2** or **3**, the screen displays the software that will be installed.

```
Both Connect:Direct UNIX Server and client(CLI/API) Version 3601
will be installed in your system. Do you want to continue?:[Y/n]
```

9. Press **Enter** to continue.

If the destination directory does not have enough free disk space, the script suggests you delete enough files to provide the necessary disk space and then exits.

If sufficient disk space is available, the installation script copies files from the distribution media to the destination directory and verifies that the correct number of files and blocks are copied.

The customization script starts automatically when the installation is complete.

Customizing Connect:Direct UNIX

On page 2-7, replace the introductory paragraph with the following paragraphs to document the name of the customization file:

The customization script starts automatically after the installation is complete. It sets up the Connect:Direct UNIX operating environment. It is located in *d_dir/etc/cdcust*, where *d_dir* is the Connect:Direct installation directory, and may be run by itself if needed for future configuration changes. The option you select determines what Connect:Direct UNIX operating environment is configured: the Connect:Direct UNIX server only, the Connect:Direct UNIX client only, or the Connect:Direct UNIX server and client.

After you customize the environment, you will be returned to the customization option selection screen, where the following two options must be selected for a new installation:

- ◆ Create the SACL (Strong Access Control List).
- ◆ Set owner and permissions of Connect:Direct executables.

After you customize the environment, create the SACL, and set owner and permissions of Connect:Direct executables, you can either exit the installation or select **y** to return to the installation menu and install File Agent.

Installing File Agent

On page 2-17, replace the File Agent installation procedure with the following procedure:

You may continue with the File Agent installation after completing the Connect:Direct UNIX installation or you can complete this installation at any time. Complete the following steps to install the File Agent.

Note: If you are installing File Agent on the HP Integrity system with Itanium processor, Compaq Tru64, or Linux zSeries, you must download the Java 1.4 software from the manufacturer's Web site before continuing the installation.

1. Do one of the following:

- ◆ If this is a stand-alone installation, type `cdinstall`.
- ◆ If you are installing File Agent after the Connect:Direct UNIX installation, select **y** to return to the installation menu.

The following installation options menu is displayed:

```

Please select one of the following installation options:

(1) Connect:Direct UNIX server and client(CLI/API)
(2) Connect:Direct UNIX server
(3) Connect:Direct UNIX client(CLI/API)
(4) Connect:Direct UNIX File Agent
(5) Connect:Direct UNIX SNMP Agent
(6) EXIT

Enter your choice:[1]

```

2. Select **4** and press **Enter**. The following message is displayed:

```

Connect:Direct UNIX File Agent Version 1.0 will be installed in your system. Do
you want to continue?:[Y/n] y

```

3. Press **Enter** to continue.

4. If you are installing File Agent as a stand-alone installation, perform the following actions:

- a. Type the path name of the destination directory where you want to install Connect:Direct File Agent or press **Enter** to use the suggested directory. The following screen is displayed:

```

You have chosen /sci/users/servername/file_agent
as destination directory. Please confirm it:[Y/n]

```

- b. Press **Enter** if the destination directory is correct.

5. For installations on the HP Integrity system with Itanium processor, Compaq Tru64, or Linux zSeries, you are prompted to choose the Java Virtual Machine. If prompted, type the number of the Java VM to use for File Agent and press **Enter**, or press **Enter** to accept the current selection. The following message is displayed.

```
Would you like to return to the installation menu?:[Y/n] n
```

6. Press **Enter** to exit the installation.

Verifying the Installation

On page 2-21, replace step 7 with the following step to identify the full path to the sample.cd file:

7. Type the following command to submit a sample Process:

```
Direct> submit file=d_dir/ndm/bin/sample.cd;
```

This sample Process copies a binary file named direct to the file cdelete.me in your HOME directory (your node is both the PNODE and the SNODE). The checkpointing interval is set to 2M and extended compression is used.

Connect:Direct UNIX Administration Guide

The following changes apply to the *Connect:Direct UNIX Administration Guide*:

Maintaining the Initialization Parameters File

On page 3-1, replace the second paragraph with the following information to clarify when to stop the server after modifying initialization parameters:

You can modify Connect:Direct configuration files using any text editor. Before changing a value in the initialization parameters file, first shut down the Connect:Direct server. After you change a value and save the file, restart the server. Restarting the server validates the new values and generates an error message if a value is invalid. All available parameters are described in this chapter.

If you use Connect:Direct Browser User Interface to update parameters in the Local Node Connection Record, you do not have to stop and restart the server.

Updating the Local Node Connection Record

On page 5-2, add the following parameter:

Parameter	Description	Value
conn.retry.exhaust.action	Action to take after the specified short and long-term retries have been used.	hold places Processes in the Hold queue in Held in Error status, after all retry attempts are used. This is the default value. delete causes the Processes to be deleted from the TCQ.

On page 5-4, replace the description of comm.bufsize with the following definition:

Parameter	Description	Value
comm.bufsize	The buffer size for transmitting data to and from a remote node.	The maximum value for TCP/IP is limited to 65535. For LU6.2, the maximum is 32000. The maximum value for Connect:Direct Secure+ Option is limited to 16000. The default is 16000 bytes.

Updating TCP/IP Settings for a Local Node

On page 5-6, add the following parameter to the local node settings table:

Parameter	Description	Value
conn.retry.exhaust.action	Action to take after the specified short and long-term retries have been used.	hold places Processes in the Hold queue in Held in Error status, after all retry attempts are used. This is the default value. delete causes the Processes to be deleted from the TCQ.

Updating Remote Node Connection Information

On page 5-7, add the following parameter to the local remote settings table:

Parameter	Description	Value
conn.retry.exhaust.action	Action to take after the specified short and long-term retries have been used.	hold places Processes in the Hold queue in Held in Error status, after all retry attempts are used. This is the default value. delete causes the Processes to be deleted from the TCQ.

Updating the Local User Information Record Format

On page 5-4, replace the description of comm.bufsize with the following definition:

Parameter	Description	Value
comm.bufsize	The buffer size for transmitting data to and from a remote node.	The maximum value for TCP/IP is limited to 65535. For LU6.2, the maximum is 32000. The maximum value for Connect:Direct Secure+ Option is limited to 16000. The default is 16000 bytes.

On page 6-9, replace the definitions of the following parameters in the local user information record table:

Parameter	Description	Value
pstmt.upload	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.	y n
pstmt.upload_dir	The directory to which the user can send files. If a value is set for this parameter, then files can only be sent to this directory. If a file open exit is in use, this parameter is passed to the exit, but it is not enforced. If this parameter is defined, file names in Copy statements must be relative to this directory. Absolute path names cannot be used.	directory path name
pstmt.download	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.	y n

Parameter	Description	Value
pstmt.download_dir	The directory from which the user can receive files. If a value is set for this parameter, then files can only be received from that directory. Otherwise, they can be received from any directory. If a file open exit is in use, this parameter is passed to the exit, but it is not enforced.	directory path name

Updating the Strong Access Control File

On page 6-6, replace the definitions of the following parameters in the remote user information record table:

Parameter	Description	Value
pstmt.upload	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.	y n
pstmt.upload_dir	The directory to which the user can send files. If a value is set for this parameter, then files can only be sent to this directory. If a file open exit is in use, this parameter is passed to the exit, but it is not enforced. If this parameter is defined, file names in Copy statements must be relative to this directory. Absolute path names cannot be used.	directory path name
pstmt.download	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.	y n
pstmt.download_dir	The directory from which the user can receive files. If a value is set for this parameter, then files can only be received from that directory. Otherwise, they can be received from any directory. If a file open exit is in use, this parameter is passed to the exit, but it is not enforced.	directory path name

Getting Support for Sterling Commerce Products

Sterling Commerce provides intuitive technical products and superior Help and documentation to enable you to work independently. However, if you have a technical question regarding a Sterling Commerce product, use the Sterling Commerce Customer Support Web site, Support On Demand.

The Sterling Commerce Customer Support Web site at www.sterlingcommerce.com is the doorway to Web support, information, and tools. This Web site contains several informative links, including a solutions database, an issue tracking system, fix information, documentation, workshop information, contact information, sunset and retirement schedules, and ordering information. Refer

to the *Customer Support Reference Guide* available from the Sterling Commerce Customer Support Web site for specific information on getting support for Sterling Commerce products.

You need a Support On Demand user name and password for access to the information and services provided on the Sterling Commerce Customer Support Web site.

To obtain a Support On Demand user name and password:

1. Open your Web browser and go to <http://www.sterlingcommerce.com> to display the Sterling Commerce Web site main page.
2. Highlight **Customer Support** and click **Support On Demand** to display the Login page.
3. Click the link under **New to the Site?**
4. Read the Legal Agreement and click **Agree**.
5. Type the information required to register and click **Submit**.

Your Support On Demand user name and password will be sent to you in an e-mail.

Connect:Direct UNIX Documentation

The Connect:Direct UNIX documentation, including supplemental documentation, is available on the product media or the documentation CD-ROM. You can view or download documentation from the Sterling Commerce Support On Demand Web site at www.sterlingcommerce.com. You need a Support On Demand user name and password. See *Getting Support for Sterling Commerce Products* on page 31 for instructions on obtaining your user name and password.

Access to PDF files requires the latest version of Adobe Acrobat Reader, which you can download at www.adobe.com.

The Connect:Direct UNIX documentation consists of:

- ◆ *Connect:Direct UNIX Getting Started Guide*
- ◆ *Connect:Direct UNIX Administration Guide*
- ◆ *Connect:Direct UNIX User's Guide*
- ◆ *Connect:Direct UNIX SNMP Agent System Guide*
- ◆ *Understanding Connect:Direct Processes*
- ◆ *Connect:Direct Compatibility and Connectivity Chart* (hard copy only)

The following supplemental documentation is available on additional distribution media:

- ◆ *Connect:Direct Secure+ Option UNIX Implementation Guide*
- ◆ *Connect:Direct Browser User Interface Administration Guide*
- ◆ *Connect:Direct Browser User Interface Configuration Guide*
- ◆ *Connect:Direct Browser User Interface User's Guide*

Maintenance updates are available only on the Sterling Commerce Support On Demand Web site. The following release notes are available in hard copy and in HTML format on the Support on Demand Web site:

- ◆ *Connect:Direct UNIX Version 3.6.01 Release Notes*
- ◆ *Connect:Direct Browser User Interface Version 4.1.00 Release Notes*
- ◆ *Connect:Direct Secure+ Option UNIX Version 3.1.02 Release Notes*

Information on Connect:Direct Processes is available from the Connect:Direct Processes Web site at <http://www.sterlingcommerce.com/documentation/processes/processhome.html>.

