

Sterling Commerce  
Product Documentation



**Connect:Enterprise UNIX Version 2.3.00**

Release Notes

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### Second Edition

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# Connect:Enterprise UNIX Version 2.3.00 Release Notes

The *Connect:Enterprise UNIX Version 2.3.00 Release Notes* supplements Connect:Enterprise UNIX version 2.3 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:Enterprise UNIX. Read the document in its entirety before installation.

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

- ◆ CD-ROM
- ◆ File downloaded from the Sterling Commerce Electronic Software Distribution Portal  
See *Installing Connect:Enterprise UNIX from the ESD Portal* on page 19 for instructions.

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## Product Requirements

Connect:Enterprise UNIX has the following requirements:

### Memory and Disk Space

Connect:Enterprise UNIX and its associated components have the following memory and disk space requirements:

Component	RAM	Disk Space
Connect:Enterprise UNIX Base	1 GB	250.0 MB
File Agent		2.5 MB
Disk Swap		6 MB

## Hardware and Software

Connect:Enterprise UNIX requires the following hardware and software:

Component or Functionality	Hardware	Software
Connect:Enterprise UNIX Base	HP 9000 platform	HP-UX 11.0, HP-UX 11i
	IBM RISC System/6000 platform	AIX 5.2, AIX 5.3
	SUN SPARC systems	Solaris 8, or Solaris 9 (with patch 113280-03)
	Intel Pentium system	Red Hat Advanced Server 2.1, patch 2.4.9 Red Hat Advanced Server 3.0 SuSE Linux Enterprise Server 8, Intel, patch 2.4.19
	Linux zSeries	Red Hat zSeries 7.2, patch 2.4.9 Red Hat Advanced Server 3.0 SuSE Linux Enterprise Server 8 zSeries, patch 2.4.19
	<b>Note:</b> The External Authentication Service is not supported on Linux zSeries installations.	
External Authentication Service		Open LDAP version 2.2 Open LDAP version 2.3 Sun Microsystems SunONE 5.2 IBM Tivoli 5.2 with Fixpack 3 Microsoft Windows 2003 Domain Functional Level Active Directory
Service interface daemon for the Site Administration user interface and WebDAV		Java Run-Time Environment (JRE) version 1.4.x or later Java JDK version 1.3.1.08 or later
AS2		Java JRE 1.3.1 or 1.4.x

Component or Functionality	Hardware	Software
Site Administration user interface		Browser: <ul style="list-style-type: none"> <li>◆ Internet Explorer version 6.0 and later</li> <li>◆ Netscape Navigator 7.x and later</li> <li>◆ Mozilla Firefox 1.0 and later</li> </ul> <hr/> Web servers\servlet engine options: <ul style="list-style-type: none"> <li>◆ Jetty server (installed with Connect:Enterprise UNIX)</li> <li>◆ IBM WebSphere 5.0 on all supported UNIX platforms</li> <li>◆ Sun ONE Application Server 7.0 (formerly iPlanet) on all supported UNIX and Windows platforms</li> <li>◆ Apache HTTP Server 1.3 or later with Tomcat 4.0 and 5.0 on all supported UNIX platforms</li> <li>◆ IIS version 5.0 with JRun 4.0 on all supported Windows platforms</li> </ul>
User exits		Operating system-compatible ANSI C compiler
Connect:Direct UNIX interoperability		Connect:Direct UNIX version 3.4.01 and later
Communications	TCP/IP support Supported Modem/LAN device options: <ul style="list-style-type: none"> <li>◆ Synchronous modem (external)</li> <li>◆ Asynchronous modem (external)</li> <li>◆ Ethernet or Token Ring network card</li> </ul>	

Component or Functionality	Hardware	Software
Async Communications	MUX card that supports modem controls and hardware flow control, for example, J2094A, and the cables required for your environment.  <b>Note:</b> Contact Hewlett-Packard for information on DTC16 MUX boards that support modem hardware flow control and the specific cables they require to support modems.	HP-UX 11.0 or HP-UX 11i
	Sun Microsystems part number X1008A - 8-port serial parallel controller (includes internal S-bus adapter, cable, and external 8-port panel). Verify hardware compatibility with Sun Microsystems.	Solaris 7, Solaris 8, or Solaris 9 operating system
Bisync Cleo SYNCcable+	<ul style="list-style-type: none"> <li>◆ One 3780Plus package or kit for each communications line</li> <li>◆ One Cleo-supported synchronous modem for each communications line</li> <li>◆ Digi Etherlite port server or servers for additional asynchronous ports</li> </ul>	Included with 3780Plus package or kit
Bisync Support Using ARTIC Cards	<ul style="list-style-type: none"> <li>◆ IBM ARTIC Portmaster or Multiport/2 card for microchannel computers (MCA)</li> <li>◆ IBM ARTIC Multiport Model 2 card for ISA computers</li> <li>◆ UDS V.3225, UDS V.3227, UDS V.3229, UDS V.3400, or UDS V.3600 modems for synchronous communications. The firmware revision level must be 3.06.06.</li> </ul>	ARTIC Support version 1.2 or later Real-Time Interface Co-Processor AIX Support for AIX version ISA or micro-channel buses

## Additional Requirements

Connect:Enterprise UNIX has the following additional software requirements:

- ◆ Berkeley Software Distribution (BSD) sockets or compatible support
- ◆ SOCKS version 4.x is required if you are using SOCKS for network access control.
- ◆ If you use Connect:Enterprise HTTP Option, you must have version 1.3.01 to view files larger than 2 GB in the directory list.



## Features and Enhancements

Connect:Enterprise UNIX version 2.3.00 has the following features and enhancements.

Version	Enhancement
2.3.00	Ability to authenticate users with an external authentication service using Lightweight Directory Access Protocol (LDAP).
	Ability to view batch details during transmission with the following parameters: Batches Currently in Transit, Current Batch Size, Mailbox ID, and Batch ID.
	Ability to view the contents of a batch using the Site Administration user interface in the following formats: HTML (if ASCII readable), .doc, .jar, .jpg, .mpeg, .pdf, .ppt, .rft, .tar, .txt, .vsd, .xls, .xml, .zip.
	Ability to change the tracing parameters without restarting Connect:Enterprise UNIX for all daemons except httpd, ediintd, and cmuadmind.
	Added support for Connect:Enterprise UNIX to accept the following WebDAV commands from any DAV-compatible client: propfind, get, and put. Connect:Enterprise UNIX does not function as a WebDAV client.
	Ability to override specific AS2 contract parameters in a schedule (autoconnect).
	Ability to install protocol daemons on a system other than where the base product is installed, such as a server in the DMZ.
	Support for SCP clients for SSH.
	Support for TripleDES batch encryption.
	Support for the MQFMT_STRING format header for MQ series. (SR#1318589)

## Configuring Modems

The following section provides information for configuring your modems.

### Configuring Modems for Async-Specific Information

The following parameters are the minimum Hayes-compatible modem configuration parameters necessary for proper operation of the Connect:Enterprise UNIX async daemon:

Parameter	Description
S0=1	Auto-answer on first ring
E0	Local character echo off

Parameter	Description
Q1	Response displays off (No <i>OK</i> , <i>Connect</i> , and so forth)
&C1	DCD (data carrier detect) on while carrier is present
&D2	Loss of DTR (data terminal ready) disconnects

The modem control string is set in the **Modem Initialization** field on the Configuring Async Communications screen of the Site Administration user interface or using the MDMCTL parameter in the communications protocol definition (CPD). The format of the Async CPD modem control parameter is an AT command. The following async CPD statement is sufficient:

```
AT S0=1 E0 M0 &C1 &D2
```

## Stop Child Process Before Turning Off Async Modem

The Async master daemon (**cmuasyd**) forks a child process for each Async modem used. If you know in advance that you need to turn a modem off (for example, to replace it or move it), first stop the Async child daemon associated with that modem; otherwise, that port becomes unusable. After the modem is back on, restart the child process. This action does not disrupt other Async modems.

If power to a modem is unexpectedly lost before the associated Async child process is terminated, the port is unusable until the Async master daemon is stopped and restarted. This forces all the Async ports under that master daemon's control to be cycled (creating new child processes), even if the other Async modems experienced no power disruption.

## Configuring Modems for ARTIC Bisync Support

If you are using MCA, install the Portmaster card or the Multiport/2 card in one of the available microchannel slots in your RS/6000 computer. If you are using ISA, install the Multiport Model 2 card in an available ISA slot.

For proper operation of V.25bis dialing, configure your modem as follows:

```
Dial method:   v.25bis bisync
Character type: ASCII
Data format:   odd parity
```

## Configuring UDS Modems

Configure UDS v.3225/v.3229 for v.25bis Bisync dialing using its built-in setup menu. Consult the modem manufacturer's manual for instructions on how to set these options.

## Configuring Motorola CODEX 3260 Modems for ARTIC Cards

To configure a Motorola CODEX 3260 modem, use the following instructions:

1. Set the modem to Standard Option=3 and Power up=3.
2. Under Modulation Options, make the following changes:

```
Maxrate9600
MinRate9600
```

3. Under ACU Options, make the following changes:

```
ACU Select v25bis
AT Form Async
V25Form CharSync
V25Resp V25Rate
Sync Idle Mark
```

4. Under Terminal Options, make the following changes:

```
DTERate      9600
Flow         RTS/CTS
DTR          Disconnect
RTS/CTS Delay 10
DCD         High
```

## Installing ARTIC Support Software

Install the ARTIC device driver as documented by IBM. When the installation is complete, the device should be listed as “Available” in SMIT and `/dev/artic` should exist. Be sure to reboot the system after installation.

## Modifying File Permissions

Use the following commands to modify the file permissions:

```
cd /usr/lpp/devices.artic
chmod a+x sys
cd sys
chmod a+rw *
```

## Copying the Device Driver

Specify the actual path to `$CMUHOME/etc`. `$CMUHOME` is not defined to the root user. Copy `/usr/lpp/devices.artic/bin/icaldric` to the `$CMUHOME/etc` directory.

## Starting the cmubscda Daemon

Complete the following steps to configure Connect:Enterprise UNIX. Perform these steps after installing your support software.

1. Ensure that the mailbox user ID has the execute permission for the **icaldric** utility.
2. Log off as root.

3. Connect the modems to the adapter and configure the modems. Contact Sterling Commerce Customer Services for the various synchronous modems options. Configure the modems exactly as described.
4. Define the RTICDIR environment variable in your shell environment.
5. Modify the **ceustartup** script to start the Bisync subsystem daemon.
6. If the following line does not exist, add it to the end of the **ceustartup** script:

```
nohup cmubscda -H <hostname> -P <portnumber> &
```

7. Enter **ceustartup** at the command line.

The **cmubscda** script resets each of the ARTIC cards at startup and shutdown. At startup, it also starts child sessions for each of the ports defined in the CPD file. The **cmubscda** script takes about 30 seconds to reset each ARTIC card.

If you run **cmusession** immediately after **ceustartup**, the output of **cmusession** does not display the Bisync subsystem daemon. The Bisync subsystem daemon registers itself only after it has reset all the ARTIC cards in the system.

## Transmitting Transparent Data Using Bisync Protocol with ARTIC Cards

If the inbound data is received in transparent mode, the outbound data is sent transparently even if the data is not transparent.

## ARTIC Driver Notes

The following conditions apply when Connect:Enterprise UNIX Base is used with ARTIC drivers:

- ◆ The **Maximum Receive Buffer** parameter (Bisync CPD device block) is fixed at 4096 bytes.
- ◆ Transparency cannot be altered when multiple batches are sent with the **Outbound Batch Separation** parameter (Bisync RSD) set to **use no separation** or to **send multiple batches as a single batch**.
- ◆ After a scheduled transfer (autoconnect) is issued, dialing can take as long as 30 seconds to start.
- ◆ With the ARTIC driver, card numbers start at 0.

## Configuring Modems for Cleo Bisync Support

If you are using the SYNCcable+ hardware and the Cleo bisync daemon **cmubscdc**, the Cleo configuration file settings for the dialing method and the modulation type must match your modem settings.

---

**Note:** Do not specify a value for termid in the Cleo configuration file.

---

Refer to Cleo documentation when you set up the modem and configuration file. You can also refer to [www.cleo.com](http://www.cleo.com) for more setup information.

---

**Note:** You must install and test the SYNCcable+ hardware and accompanying software according to the procedures defined by Cleo Communication Systems *before* you configure Connect:Enterprise UNIX to use it.

---

See *Hardware and Software* on page 6 for SYNCcable+ requirements.

## Using Etherlite Port Servers

The Digi Etherlite port server has network connectivity and is accessed by the UNIX computer through an IP connection. Connect:Enterprise UNIX detects no difference between a native port connection and an Etherlite connection. The Etherlite terminal server enables Connect:Enterprise UNIX to attach multiple bisync modems to one server and also enables these modems to be shared by a high-availability cluster.

The Digi Etherlite ports are physically different from the native ports so when you use 3780Plus, do not use the async cable supplied with the 3780Plus package. The Digi Etherlite port server and special cable kit required are specific to your particular hardware configuration and can be purchased from Cleo Communications Systems. The Digi Etherlite port servers come with the necessary software for the Etherlite installation. Procedures to install the Etherlite hardware are also available from the Digi Web site at <http://support.digi.com/>.

The tty devices used to communicate with the Etherlite terminal server and the device names used in the Connect:Enterprise UNIX configuration files are generated during the installation procedure. Refer to the *Connect:Enterprise UNIX Configuration Files Reference Guide* for more information.

---

## Special Considerations

This section contains some additional information that you should consider when you configure Connect:Enterprise UNIX.

### Connect:Enterprise Base

Consider the following information when you configure Connect:Enterprise UNIX.

#### AS2 Signing Certificate Behavior

If you specify a signing key certificate for Outbound AS2 messages in an AS2 contract or in an AS2 remote block of a schedule and Connect:Enterprise UNIX cannot find that signing key certificate (if it was moved or the path you provided was incorrect), the exchange key certificate for inbound AS2 messages is used.

## Specifying Port Range Parameters with Nonsecure FTP

When nonsecure FTP is used, the following parameters must be specified in the FTP communications protocol definition (CPD file) because they are not supported in the schedule definition (ACD file) or the remote account definition (RSD file):

- ◆ PASSIVE
- ◆ PORT\_RANGE
- ◆ PORT\_RETRIES
- ◆ PORT\_RETRY\_WAIT\_TIME

## High-Availability Environment

If you require a high-availability environment, obtain third-party high-availability software from the IBM (HACMP), Sun (Sun Cluster), or Hewlett-Packard (MC/Service Guard) corporations. Connect:Enterprise UNIX supports the failover capabilities of IBM high-availability cluster multi-processing (HACMP), Sun Cluster, and Hewlett-Packard MC/Service Guard high-availability software using bisynchronous and FTP protocols. The following list identifies considerations for inbound and outbound transmissions on all platforms.

- ◆ When a failover occurs, the sender must restart inbound file transfers that are in progress.
- ◆ Depending upon the timing and nature of a failure that results in a failover, specific outbound transfers may also require a manual restart.
- ◆ The high-availability feature in Connect:Direct UNIX can be integrated with the Connect:Enterprise UNIX high-availability feature.

## Excessive Automatic Routing Requests Delay Startup

When you type the **ceustartup** command and return to the system prompt, you can type the **cmusession** command to check the status of the Connect:Enterprise processes that are running. The **cmusession** utility typically receives status from all other daemons within ten seconds, and then reports this status.

However, if you configure your system to perform a very large amount of automatic routing (for example, 1000 ACD files with the **Contact** parameter set to **Invoke automatic routing**), the communication between the autoconnect daemon (**cmuacd**) and the Mailbox daemon (**cmumboxd**) may not finish within ten seconds, and delays in sending the status to **cmusession** can occur. If this delay occurs, the resource column for the daemon that timed out displays the string **\*\*ERROR\*\***. To avoid this problem, reduce the number of ACD files with the **Contact** parameter set to **Invoke automatic routing**.

## Considerations for FTP Sessions

Use the following information for establishing and maintaining FTP sessions:

- ◆ An FTP session attempted with the **Remote communication sequence (mode)** parameter set to **Send, then receive** fails when the **AC send directory** and **AC receive directory** parameters are not set. To avoid this problem, ensure that the **AC send directory** and **AC receive directory** parameters are set and that the send directory is different from the receive directory.
- ◆ The Connect:Enterprise server closes the control channel when it is out of disk space for FTP connections. If this occurs, the FTP transfer must be restarted.

## Invalid Shutdown Error

When the Cleo Bisync daemon is configured, the *ioctl:(SET): invalid argument* message may be returned when Connect:Enterprise is shutting down. This message does not indicate a problem with the operation of Connect:Enterprise.

## ACD Parameters and Concurrent Communications Sessions on the Host

Within the autoconnect definitions (ACD) file, consider the **Sessions** parameter and the **WHEN** parameter settings together. If you attempt to run too many communications sessions simultaneously, you can exhaust system resources and lock up the system on which you are running Connect:Enterprise. When multiple scheduled transfers execute in parallel, the total number of concurrent communications sessions can be greater than the total of the **Sessions** settings in all ACD files. For optimum system performance, do not exceed 100 concurrent sessions.

---

**Note:** If you set the **WHEN** parameter, do not use the **EXCEPT** parameter. If you enter a value for the **EXCEPT** parameter, the autoconnect (scheduled transfer) will not run.

---

### Example 1 – Manual Autoconnect

In the simplest case, you have one autoconnect, which you manually execute once. For example, the **WHEN** parameter setting is not specified and thus it is a manually initiated autoconnect and not a full autoconnect. Suppose this ACD file contains 128 remote blocks, all using the FTP protocol. If your remote sites specify Async or Bisync as the protocol, the number of remote sites is limited by the number of modems you have connected to your workstation.

The default for the **Sessions** parameter is 2, but suppose in this ACD file you override the default and set **Sessions** to 30. In this case, the first 30 remote blocks are serviced simultaneously; as soon as one of those 30 finishes, the 31st remote block is serviced, and so on, until all 128 remote blocks are serviced. The autoconnect is then finished.

### Example 2 – Full Autoconnect with the WHEN Settings

Example 2 builds on the last example. The scenario is identical (128 FTP remote sites), except that the **WHEN** settings are set to facilitate a full autoconnect. The **Minutes** parameter is set to “0,10,20,30,40,50 \* \* \* \*”. This means that the autoconnect starts every 10 minutes.

At minute 0, the first 30 FTP connections start, and as before, the 31st starts when one of the first 30 finishes, and so on. Only now, at minute 10, the first 30 FTP connections are restarted, even though not all of the first 128 remote sites were serviced.

Because the autoconnect takes 15 minutes to finish, after 10 minutes, only 80 of the 128 remote sites have been serviced.

Depending on the settings of other ACD parameters, including **Requeues** and **Retries**, some of the later remote sites (like 81 through 128, for example) are never serviced due to resource contention with the remote sites that are being serviced again as the next **Minutes** value elapses.

### Example 3 – Multiple ACD Files

The total number of concurrent sessions is further increased if you have multiple ACD files. For instance, you can have five ACD files that all start at the same time. If the **Sessions** parameter in each file is set to 20, then you have the potential for 100 concurrent communications sessions.

### Resource Use for Communications Sessions

Connect:Enterprise UNIX requires one semaphore, one shared memory segment, and at least one socket descriptor for each communications session (FTP, Async, or Bisync). In addition, each bisync port configured with the SYNCcable+ hardware uses one shared memory segment between 20 K and 40 K. When the session finishes, those resources are released. As a result, the total number of concurrent communications sessions possible on a particular platform depends on the settings of these kernel parameters.

In addition, be aware of what other users are doing on the same system because other activities can require the same resources needed by Connect:Enterprise UNIX.

Refer to the *Connect:Enterprise UNIX Configuration Files Reference Guide* for detailed information regarding the ACD files.

## Connect:Enterprise Linux Functionality

Consider the following information for the Linux operating system:

- ◆ Approximately 20 Java processes start when the http daemon and the ediint daemon are started on the Linux OS. This is normal and due to the Linux thread support architecture.
- ◆ If you are installing Connect:Enterprise UNIX on Red Hat Advanced Server 3.0, perform the following procedure to ensure Connect:Enterprise UNIX Application Program Interfaces (APIs) link correctly:
  - a. Navigate to the following directory:

```
$CMUHOME/linux/lib
```

For Linux zSeries:

```
$CMUHOME/zlinux/lib
```

- b. Copy the contents of **cmuuapi-rhas30.a** to **cmuuapi.a**.
- c. Navigate to the following directory:

```
$CMUHOME/linux/obj
```

For Linux zSeries:

```
$CMUHOME/zlinux/obj
```

- d. Copy the contents of **cmuexitd-rhas30.o** to **cmuexitd.o**.
- e. Copy the contents of **cmuuserlog-rhas30.o** to **cmuuserlog.o**.



## Gentran Integration Suite Interoperability

If you are communicating with Gentran Integration Suite, notify the Gentran Integration Suite Administrator to download and install the `ceu_2_3_compatibility_4_0_2-3.jar` file from the Sterling Commerce Customer Support Web site at <https://support.sterlingcommerce.com/user/login.aspx>

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## Upgrading Connect:Enterprise UNIX

If you are upgrading from an existing version of Connect:Enterprise UNIX, refer to Chapter 3, *Upgrading Connect:Enterprise UNIX* in the *Connect:Enterprise UNIX Installation and Administration Guide* for detailed instructions and upgrade considerations.

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## Installation Notes

The installation program executes a master script that calls the installation script for each component. You can install all of Connect:Enterprise UNIX or just selected components.

Installation instructions for Connect:Enterprise UNIX are located in the *Connect:Enterprise UNIX Installation and Administration Guide*, which is available in a PDF file located on the Connect:Enterprise UNIX product CD-ROM.

Refer to the *Connect:Enterprise UNIX Installation and Administration Guide* before installing Connect:Enterprise UNIX. Also, review the following publications and gather any necessary information before installing Connect:Enterprise components:

- ◆ *Connect:Direct UNIX Getting Started Guide*
- ◆ *Connect:Direct UNIX Release Notes*

Read the following publications for more information regarding optional components for Connect:Enterprise UNIX.

- ◆ *Connect:Enterprise Command Line Client (Secure FTP) User's Guide*
- ◆ *Connect:Enterprise HTTP Option Installation and Administration Guide*

## Networked Storage Media

You cannot install Connect:Enterprise UNIX on networked storage media that does not support synchronous file system locking, such as NFS or Samba shares.

## UNIX File System Support

If you want to have batches larger than 2,147,483,647 bytes or more than 8 million batches in the repository at one time, you must configure the UNIX file system for Connect:Enterprise to support files larger than 2,147,483,647 bytes.

## CPIO File Names During Installation

Use the following abbreviated CD-ROM directories to obtain cpio file names for use during structure installation:

File Name	Description
<code>\${cdrom_root}/ceinstall</code>	Main installation script to install Connect:Enterprise
<code>\${cdrom_root}/Base/cebase2300.cpio</code>	Connect:Enterprise Base CPIO file (without encryption)
<code>\${cdrom_root}/Base/cebase2300s.cpio</code>	Connect:Enterprise Base CPIO file (with encryption)

## Kernel Parameters on HP-UX Operating Systems

If you are running an HP-UX operating system, ensure that the following *minimum* values are set in SAM:

Parameter	Value
maxuprc	1024
maxusers	1024
nflocks	2048
nstrpty	60
semaem	16384
semmap	1026
semgni	1024
semgni	16384
semgni	2048
semgni	256

These lines increase the number of available semaphore and shared memory resources in the kernel. If you change your semaphore or shared memory settings, you must reboot your computer for the new settings to take effect.

## Kernel Parameters on Solaris Operating Systems

The minimum semaphore and shared memory settings for Connect:Enterprise UNIX on Solaris operating systems in the */etc/system* file are:

```
set semsys:seminfo_semmap=1026
set semsys:seminfo_semmsl=200
set semsys:seminfo_semmni=1024
set semsys:seminfo_semmns=16384
set semsys:seminfo_semmnu=400

set shmsys:shminfo_shmmax=1048576
set shmsys:shminfo_shmmni=1024
```

---

**Note:** These are the *minimum* settings. If your settings are higher, you do not need to change them.

---

These lines increase the number of available semaphore and shared memory resources in the kernel. To check your settings, use the **sysdef** command on Solaris operating systems. If you make changes to your semaphore or shared memory settings, you must reboot your computer for the new settings to take effect.

## Exporting Environment Variables

You must set the environment variables before starting Connect:Enterprise UNIX. Refer to *Exporting Environment Variables* section of the *Connect:Enterprise UNIX Installation and Administration Guide* after installation.

---

## Installing Connect:Enterprise UNIX from the ESD Portal

These instructions contain procedures for downloading and installing the Connect:Enterprise UNIX version 2.3.00 release, including the documentation. The file you download from the Electronic Software Distribution (ESD) Portal is one of the following:

Version	File Name
FTP	CE.UnixUI.2300.tar.Z
Secure FTP	CE.UnixSI.2300.tar

## Downloading and Extracting Product Files

These instructions assume that you download the file to a computer running the Windows operating system (OS) and transfer it to the system where you will install it.

To download the 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:Enterprise UNIX version 2.3.00 for your platform 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.
5. Transfer the file to the system where you will install it.

---

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

---

6. Uncompress the .tar file:

```
uncompress CE.UnixSI.2300.tar.Z
```

7. Extract the files from the archive:

```
tar xvf CE.UnixSI.2300.tar
```

The .tar file contains the following files:

File	Description
./Base/cebaseinstall	Connect:Enterprise UNIX installation script
./Base/ceupgradebase	Script to upgrade Connect:Enterprise UNIX
./Base/cebase2300s.cpio or ./Base/cebase2300.cpio (for nonsecure installations)	Installation image for AIX, HP, Sun, Linux, and Linux zSeries operating systems

## Installing the Application

To install Connect:Enterprise UNIX:

1. Review *Connect:Enterprise UNIX Version 2.3.00 Release Notes* for last-minute product information and installation requirements.
2. Print and review the Connect:Enterprise UNIX installation documentation on the ESD download file. See *Connect:Enterprise UNIX Documentation* on page 24 for details about the documentation files.
3. Go to *Creating the User ID* in Chapter 2 of *Connect:Enterprise UNIX Installation and Administration Guide* and follow the directions to create the ID used for the installation.
4. Go to step 4 of *Running the Connect:Enterprise Installation Script* in *Connect:Enterprise UNIX Installation and Administration Guide*, and follow the directions to complete the installation.

## Maintenance Updates

For a list of issues resolved for Connect:Enterprise UNIX version 2.3.00, see *Connect:Enterprise UNIX Version 2.3.00 Maintenance Updates*, which is available from the Documentation Library link on the Support On Demand Web site at [www.sterlingcommerce.com](http://www.sterlingcommerce.com).

## Known Restrictions

This section describes Connect:Enterprise UNIX version 2.3.00 restrictions.

Component/Functionality	Restriction
Bisync protocol with ARTIC cards	<ul style="list-style-type: none"> <li>No SADL support is available.</li> <li>Transmission of transparent blocks larger than 2048 bytes fails.</li> </ul> <p>Valid values for the <b>Send Buffer Size</b> parameter depend on the transmitted data transparency. If you plan to transmit only nontransparent (EBCDIC) data to and from a remote site using the ARTIC Bisync daemon (<b>cmubscda</b>), a value up to 4096 is acceptable in the RSD for that remote site. This parameter is set using the <b>Send Buffer Size</b> control for the remote site.</p> <p>However, if you also plan to transmit transparent (ASCII or binary) data to the same remote site with <b>cmubscda</b>, <b>Send Buffer Size</b> is limited to 2048 or less. This eliminates the need to maintain separate RSD files for transparent and nontransparent transmissions to and from the same remote site.</p> <p>If you plan to transmit both transparent and nontransparent data to the remote site and speed is critical for EBCDIC transmissions, using two separate RSD files (one for transmission of EBCDIC batches and one for transparent batches) can be beneficial. The RSD for EBCDIC transmissions should specify <b>Send Buffer Size</b> at 4096, and the RSD for transparent batches should specify <b>Send Buffer Size</b> at 2048 or less.</p>
FTP	FTP Proxy firewalls do not work with SSL.
AS2	Client authentication is not supported with Connect:Enterprise UNIX when HTTPS is used for the AS2 protocol.
WebDAV	Connect:Enterprise does not accept WebDAV files larger than two gigabytes (2147483647 bytes) unless your WebDAV client supports chunked transfer encoding.
Async and bisync support	Async and bisync are not supported on Linux zSeries versions.
MQSeries support	MQSeries is not supported on Linux zSeries versions.
High Availability	<ul style="list-style-type: none"> <li>The Connect:Enterprise UNIX high-availability feature does not support asynchronous communications.</li> <li>High-availability is not supported on Linux or Linux zSeries.</li> </ul>

Component/Functionality	Restriction
NFS Drives	Specifying the staging directory for the File Agent on an NFS drive causes problems for the cereport tool. Unless the system time on the local workstation and the NFS server are exactly the same, the Connect:Direct component of cereport cannot locate records for specific transactions and cannot correctly report the path taken by batches extracted for transfer using Connect:Direct. All such transfers are identified as <b>U</b> (Unknown).
Connect:Enterprise HTTP Option	Due to browser restrictions, you cannot use Connect:Enterprise HTTP Option to send or receive files larger than 2 GB.
Site Administration User Interface	The following commands are not supported by the Site Administration user interface: cmurefresh (for SSL passphrase) ceubatchencrypt cmustart cmustop ceuacq cmuadd
API Changes	The DATA INPUT EXIT and DATA OUTPUT EXIT are no longer supported in Connect:Enterprise UNIX.

---

## Documentation Updates

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

### Connect:Enterprise UNIX Installation and Administration Guide

There were significant changes made to Chapter 15, *Running Protocol Daemons on Remote Servers*. Go to the Sterling Commerce Customer Support Web site at [www.sterlingcommerce.com](http://www.sterlingcommerce.com) and download the latest edition of the Connect:Enterprise UNIX Installation and Administration Guide.

Also, consider the following when configuring protocol daemons to run on remote servers:

- ◆ If your firewall rules allow it, the simplest implementation is to have the remote daemons acting as servers only. If autoconnects must also use that same protocol, then a separate instance of that protocol should be configured to run on the same host as the Connect:Enterprise UNIX core daemons.

## Connect:Enterprise UNIX Site Administration User Interface Help

The following updates apply to Connect:Enterprise UNIX Site Administration User Interface Help.

### Define or Edit an AS2 Contract

Replace the valid values for the Signing Key Certificate field with the following:

Path and file name to a valid signing key certificate. If Connect:Enterprise cannot find this signing key certificate, it will use the **exchange key** certificate specified on the Configure Inbound Message screen.

### Add an AS2 Contract to a Schedule

Replace the valid values for the Signing Key Certificate field with the following:

Path and file name to a valid signing key certificate. If Connect:Enterprise cannot find this signing key certificate, it will use the **exchange key** certificate specified on the Configure Inbound Message screen.

## Connect:Enterprise UNIX Remote User's Guide

The following updates apply to *Connect:Enterprise UNIX Remote User's Guide*.

### Chapter 6, The SSH SCP Command

In the list of available keywords in the *Extracting a File with \$\$ Syntax* section, add the following to the description for BID and ID:

If the Connect:Enterprise server you are connecting to is running on a Solaris operating system, you must escape the asterisk (\*), question mark (?), and pound sign (#) characters by preceding them with a backslash. Following are two examples:

```
scp -P port# 'user@host:\$\$id=t\*\ bid=#1' /tmp/flags4
```

```
scp -P port# 'host@port:\$\$id=new?\ bid=#1' /tmp/flags5
```

---

## 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](http://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 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 [www.sterlingcommerce.com](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.

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## Connect:Enterprise UNIX Documentation

The Connect:Enterprise 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](http://www.sterlingcommerce.com). You need a Support On Demand user name and password. See *Getting Support for Sterling Commerce Products* on page 23 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](http://www.adobe.com).

The Connect:Enterprise UNIX documentation consists of:

- ◆ *Connect:Enterprise UNIX Installation and Administration Guide*
- ◆ *Connect:Enterprise UNIX Site Administration User Interface Help*
- ◆ *Connect:Enterprise UNIX User's Guide*
- ◆ *Connect:Enterprise UNIX Remote User's Guide*
- ◆ *Connect:Enterprise UNIX Programmer's Guide*
- ◆ *Connect:Enterprise UNIX Configuration Files Reference Guide*
- ◆ *Connect:Enterprise UNIX Integration Tools User's Guide*

The following supplemental documentation is available on additional distribution media:

- ◆ *The Connect:Enterprise HTTP Option Installation and Administration Guide*
- ◆ *The Connect:Enterprise UNIX Command Line Client (Secure FTP) User's Guide*

Online Help is available for the following Connect:Enterprise UNIX components:

- ◆ Connect:Enterprise UNIX HTTP Option
- ◆ Connect:Enterprise UNIX Secure Client
- ◆ Certificate Wizard



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:Enterprise UNIX Version 2.3.00 Release Notes*