Sterling Commerce
Product Documentation

Connect:Direct® for OpenVMS Version 3.4.01
Release Notes

Sterling Commerce
An IBM Company

Connect:Direct for OpenVMS Version 3.4.01 Release Notes
Version 3.4.01

First Edition

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Contents

Contents

Connect:Direct for OpenVMS Version 3.4.01 Release Notes

The *Connect:Direct for OpenVMS Version 3.4.01 Release Notes* document supplements Connect:Direct for OpenVMS version 3.4.01 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 for OpenVMS. Read the document in its entirety before installation.

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

✦ File downloaded from the Sterling Commerce Electronic Software Distribution Portal

✦ CD-ROM, DVD, or tape format when Sterling Commerce ships the physical distribution media

Requirements

Your use of Connect:Direct for OpenVMS version 3.4.01 has the following requirements:

Hardware and Software for Server Installations

Connect:Direct for OpenVMS and its related software require the following hardware and software.

Component or Functionality	Hardware	Software	Disk Space
Connect:Direct for OpenVMS	HP Integrity server (Itanium)	HP OpenVMS Industry Standard 64 Version 8.3 or later For HP OpenVMS Industry Standard 64 Version 8.3, you must obtain and apply the patch, VMS83I_UPDATE-V0100.ZIPEXE.	At least 50,000 blocks of disk space to install the Connect:Direct product and for work files, including the network map file, two statistics files, and two Transmission Control Queue files

Component or Functionality	Hardware	Software	Disk Space
Connect:Direct for OpenVMS	Alpha AXP computer	HP OpenVMS Alpha Version 7.3-2 or later You must obtain and apply these patches: VMS732_PCSI-V0300 and VMS732_UPDATE-V0900.	At least 30,000 blocks of disk space to install the Connect:Direct product and for work files, including the network map file, two statistics files, and two Transmission Control Queue files
Connect:Direct Secure+ Option	Same as requirements for Connect:Direct for OpenVMS	License Management Key with Secure_Plus and Secure_SSL enabled	
		HP SSL for OpenVMS toolkit	At least 45,000 blocks of disk space to install the toolkit and after installation, at least 40,000 blocks of disk space to occupy
TCP/IP Installations	Alpha AXP computer	HP TCP/IP Services for OpenVMS Version 5.5 or later	
	HP Integrity server	HP TCP/IP Services for OpenVMS Version 5.6 or later	
		TGV MultiNet for OpenVMS, version 4.0 or later (UCX option enabled with latest MultiNet and UCS fixes applied)	

Hardware and Software for Client Installations

Connect:Direct for OpenVMS requires the following hardware and software for client installations.

> **Note:** You must apply the latest patches to the operating system for all client installations. See *Hardware and Software for Server Installations* on page 5 for specific information on patches.

Component or Functionality	Hardware and Software
Connect:Direct for OpenVMS	HP Integrity Server with HP OpenVMS Industry Standard 64 Version 8.3 or later
	An Alpha AXP computer with HP OpenVMS Alpha Version 7.3-2 or later

License Key File

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

To apply the temporary and permanent key file:

1. Copy the temporary license key file from the Sterling Commerce e-mail to the directory given by the ndm$$ directory logical name.

2. Rename the temporary license key file to **ndm$key.txt**.

   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 the profile information required to obtain your permanent key, type the following command on the computer where Connect:Direct for OpenVMS is installed:

   ```
   $run ndm_license_display_profile.exe
   ```

   Profile information, such as the following example, is displayed:

   ```
   >>> Profile: kLRHOva1  Node: TSC6  Type: Integrity
   ```

   Copy or cut and paste this profile information to use in the next step.

4. Request the permanent license key file using one of the following methods:

   ◆ Reply to the Sterling Commerce e-mail containing your temporary license key file and include the profile information of the computer where Connect:Direct for OpenVMS is installed.

   ◆ Request the license key file from Support On Demand:

   a. Log in to the Sterling Commerce Support On Demand Web site. If you do not have a Support On Demand user name and password, follow the instructions in *Support On Demand User Name and Password* on page 8.

   b. Under Product Family Support, click your product family name to display the available links and click **Key Request**. The Connect Product Key Request page is displayed.

   c. Type the information in the required fields and click **Submit**.

   You will receive the permanent license key file through e-mail in approximately 24 to 48 hours.

5. Make a copy of the original permanent license key file and keep it in a safe place.

6. Repeat steps 1 and 2 to replace the temporary license key file with the permanent key file.

   You will need the license key when you configure Connect:Direct for OpenVMS. Refer to Chapter 4, *Configuring Connect:Direct for OpenVMS*, in the *Connect:Direct for OpenVMS Installation and Administration Guide.*

Support On Demand User Name and Password

The Sterling Commerce Customer Support Web site is the doorway to Web support, information, and tools. This Web site contains several informative links, including a solutions database, an issue tracking system, product updates, 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 must have a Support On Demand user name and password for access to the information and services provided on the Sterling Commerce Customer Support Web site. If you do not have a Support On Demand user name and password, click the following link to access the Customer Support login page at http://support.sterlingcommerce.com/user/login.aspx and follow the instructions for new users. Your Support On Demand user name and password will be sent to you in an e-mail within one business day.

What's New in This Release

For the latest information on updates to the product and documentation, see *Features and Enhancements* on page 8 and *Improvements to Documentation* on page 9.

Features and Enhancements

Connect:Direct for OpenVMS version 3.4.01 and its components have the following features and enhancements.

Product/Component	Feature or Enhancement
Connect:Direct for OpenVMS	Provides support for Secure+ Option feature for Itanium and Alpha versions of Connect:Direct for OpenVMS
	Provides support for SSL and TLS protocols for Itanium and Alpha versions of Connect:Direct for OpenVMS
	Provides improved trace capability and conditional tracing, as controlled by the trace option sublist.
	Provides improved concurrency in the statistics writer, allowing much higher process volumes than in previous releases.

Product/Component	Feature or Enhancement
Connect:Direct Secure+ Option	Provides the following new interactive script options on the Secure+ Option Administration Tool (SPADMIN) main menu:
	◆ Get an existing Connect:Direct node's parameters
	◆ List all Connect:Direct nodes in the Secure+ Parmfile
	◆ Sync with Netmap, which facilitates the configuration of Secure+ by automatically synchronizing the node entries in the network map with those in the Connect:Direct Secure+ Option parameters file
	Provides the ability to use the local node record as a default for all parameters not defined for a remote node when a session is initiated. This can considerably facilitate configuration of several remote nodes.

Improvements to Documentation

Sterling Commerce welcomes your comments and suggestions for improvements to our product documentation. You can submit suggestions for improvements to ConnectDoc@stercomm.com. As part of our continuing effort to improve the user experience and satisfaction with our documentation, the documentation for Connect:Direct for OpenVMS version 3.4.01 has the following changes:

✦ *Connect:Direct Secure+ Option for OpenVMS Implementation Guide* has the following changes:

  ◆ Configuration procedures are separated according to the method used to run the SPADMIN tool, that is, as an interactive script or as a command line task.

  ◆ New information about generating and using certificates has been added. In addition, an appendix describing the layout of the trusted root certificate file and the key certificate file has been added.

  ◆ New information about how to populate the Secure+ parameters file has been added.

  ◆ Examples are provided to show how to:

    • Set up certificates and how they are processed

    • Configure nodes and how a secure connection is processed

✦ The Process Guide Web site has the following changes:

  ◆ Information to clarify how to use the OUTPUT SYSOPTS subparameter in a RUN TASK statement

  ◆ The following new example Processes have been added:

    • Copying a Text File from Windows to OpenVMS

    • Copying a Text File from OpenVMS to Windows

    • Copying between the z/OS and OpenVMS Platforms

    • Copying and Comparing Files on OpenVMS

Obtaining Product Updates

Product updates and update summaries, including issues resolved for previous versions of Connect:Direct for OpenVMS are available on the Support On Demand Web site.

To obtain product updates:

1. Log on to your Support on Demand account to display your customer Home page.

2. From the **Product Support** menu on the left navigation bar, click **Connect**>**Product Updates/Downloads**.

3. Follow the links for your product until you locate the updates for your product and platform.

Description of Support Requests Resolved for This Release

The following table describes the Support Requests (SRs) resolved for Connect:Direct for OpenVMS version 3.4.01 since the last cumulative fix release. For the history of issues resolved prior to this release, navigate to the Product Updates/Downloads site for your product and platform using the instructions in *Obtaining Product Updates* on page 10 and review the Fix List.

Support Request	Description
1361006	On a normal exit from the IUI and license profile programs, spurious diagnostic information was displayed; the diagnostics are now suppressed.
1361057	The Connect:Direct for OpenVMS server failed with an access violation; stability enhancements and error checking were added to avoid and/or pinpoint the problem.
1362807	The return code from the X.509 certificate validation function was being ignored; the return code is now honored.
1364082	When another node rejected a session initiated from Connect:Direct for OpenVMS, the Process was deleted from the TCQ instead of being placed in timer retry; the Process is now retried.

Special Considerations

Review the following considerations before installing the product:

✦ Connect:Direct for OpenVMS version 3.3 is the last release to support the SNA protocol and VAX hardware. Connect:Direct for OpenVMS version 3.4.01 does not run on a VAX computer nor support the SNA protocol.

- To optimize throughput and responsiveness, assign OpenVMS priorities in the following manner:

  - Set the priority for the statistics writer to the highest value, so that statistics records are written as quickly as possible following completion of an event.

  - Set the priority for the server to next highest value to give optimum responsiveness to user commands and to allow the server to efficiently initiate and respond to session events and changes in the Process queue.

  - Set the priority for sessions managers to the lowest value in the Connect:Direct application.

  The following example illustrates this recommendation:

```
NDM$$SM_PRI                          4
NDM$$SRV_PRI                         6
NDM$$STAT_PROCESS_PRIORITY           8
```

- The NDM$$LOG_SELECT_STATISTICS and NDM$$NOLOG_SELECT_STATISTICS are obsolete and no longer used. For more information on statistics logicals, see *Documentation Updates* on page 16.

Known Restrictions

Connect:Direct for OpenVMS version 3.4.01 has the following restrictions related to the use of third-party hardware or software with Connect:Direct for OpenVMS:

- Connect:Direct for OpenVMS does not support access to the OpenVMS system proxy database by the authorize utility to resolve proxy references. You must now use the Connect:Direct for OpenVMS proxy database to resolve all proxy references (ndm_proxy.dat).

- The use of TCP/IP probe/monitor utilities on ports designated for use by Connect:Direct for OpenVMS is strongly discouraged.

- The Requester for Windows Extension (RWX) to Connect:Direct for OpenVMS is obsolete and is no longer supported.

- The PXI interface API is obsolete and is no longer supported.

- Connect:Direct for OpenVMS does not support the checkpoint/restart feature with the VM and VSE platforms.

- The NDM_PROCSYNC.COM command and SUBMIT/WAIT qualifier are obsolete and are no longer supported.

- A number of problems have been observed in environments which employ NFS, including excessive timeout failures, inconsistent lock management, and $CLOSE errors. For best results, do not use NFS with Connect:Direct for OpenVMS due to inconsistent results and lack of fidelity to standard OpenVMS constructs.

- A number of problems have been reported in environments which employ disk defragmentation and cache optimization utilities with Connect:Direct for OpenVMS. For best performance, do not use defragmentation and cache utilities on any system or device that Connect:Direct for OpenVMS accesses or uses concurrently.

✦ When file transfers from OpenVMS to z/OS use the z/OS authorization file to define security, unless case=yes has been specified, all letters in the passwords are converted to uppercase. To specify OpenVMS passwords in the z/OS authorization file, the z/OS administrator must update the authorization file to specify case=yes.

✦ COPY to HP NonStop unstructured file type 0 and type 101 works only with SYSOPTS. This command must be coded as follows:

```
STEP01 COPY FROM                                               -
            (DSN=DISK$SUP:[CHELI1.TANDEM.SOURCEDATA]EDIT.DAT   -
             PNODE)                                            -
        TO                                                     -
         (DSN=\CLX.$QA1.FRVMS.PSUN                             -
          DISP=RPL                                             -
          SYSOPTS=                                             -
            "'SET CODE 0'                                      -
             'SET TYPE U'                                      -
             'SET BLOCK 4096'"                                 -
         SNODE)
```

Installation Notes

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

> **Note:** Connect:Direct for OpenVMS Version 3.4.01 is a complete replacement for 3.4.00. You can install it as an upgrade to 3.4.00 or as a new installation.

✦ Review *Connect:Direct for OpenVMS Version 3.4.01 Release Notes* for last-minute product information and pre-installation tasks.

✦ Review your security configuration to ensure compatibility with Connect:Direct for OpenVMS before proceeding with the installation. Refer to the Connect:Direct for OpenVMS installation guide, implementation guide, or getting started guide for security options.

✦ Verify that you have the current updates for Connect:Direct for OpenVMS. Access current update information, including instructions for applying updates containing product fixes and enhancements, from the Connect product support Web site at http://support.sterlingcommerce.com. See *Obtaining Product Updates* on page 10 for instructions.

✦ The executable NDMUI shipped with Connect:Direct for OpenVMS version 3.4.01 is not compatible with Connect:Direct for OpenVMS servers at prior release levels. If users are running remote NDMUI executables, you must upgrade their NDMUI at the same time that you install or upgrade the product.

✦ For version 7.2 and later of the OpenVMS operating system, the OpenSSL toolkit calculates GMT based on routines defined in the C RTL function. For earlier versions of the OpenVMS operating system, the value defined by the logical name SYS$TIMEZONE_DIFFERENTIAL is used to get the GMT.

On OpenVMS 6.2, the component of the OS responsible for setting up this logical name accepts the differential in hours but sets the logical to the equivalent value in seconds. In versions of the OpenVMS operating system earlier than 6.2 (1.5 AXP), it is necessary to define this system-wide logical name. The Connect Direct Secure+ Option installation procedure checks for this logical name and if it is not defined, prompts you to enter the difference in time zone from GMT, in hours. It will be converted to seconds and the logical name will be defined as the value in seconds. Also worth noting is that the value entered has a sign associated with it. For regions behind GMT, a negative value should be used. For an installation in the US Central time zone, you type a value of -4 when prompted by the Connect:Direct for OpenVMS installation, and the system-wide logical will appear as -14400.

Refer to the *Reviewing Additional Installation Considerations* chapter in the *Connect:Direct for OpenVMS Installation and Administration Guide* for additional information pertaining to installing the product.

Upgrading to Connect:Direct for OpenVMS Version 3.4.01

Performing an upgrade is similar to performing an initial installation. For an upgrade, you can choose to retain some or all of the configuration and data files that were created by the initial installation or as a result of the last upgrade. Refer to *Connect:Direct for OpenVMS Installation and Administration Guide* for specific instructions and guidelines for upgrading to Connect:Direct for OpenVMS version 3.4.01.

If you are upgrading from version 3.3 and are implementing Secure+ Option, you must delete your old Secure+ Option parameters file and rebuild it. After you install the new version of Connect:Direct for OpenVMS version 3.4.01 and reconfigure your environment, an empty Secure+ Option parameters file is created. Follow the instructions in the *Connect:Direct Secure+ Option for OpenVMS Implementation Guide* to populate the Secure+ Option parameters file and customize your node records as needed.

In the earlier release of Secure+ Option, you specified three files when defining a node:

✦ The trusted root file which contains one or more trusted root certificates you use to authenticate ID certificates sent by your trading partners during the Secure+ protocol handshake.

✦ The private key file which is used to decrypt data that is encrypted with its complementary public key.

✦ The key certificate file which your trading partner uses to authenticate you during the Secure+ protocol handshake.

In Version 3.4.01, you specify only the trusted root file and key certificate file. Your key certificate file contains both your public (ID) certificate and your encrypted private key. The passphrase you include in each node definition allows the private key to be decrypted and used during the data exchange.

Installing Connect:Direct for OpenVMS from the ESD Portal

These instructions contain procedures for downloading and installing the Connect:Direct for OpenVMS version 3.4.01 release, including documentation. The file downloaded from the Electronic Software Distribution (ESD) Portal is named cdvms3401.zip.

Downloading Product Files

These instructions assume that you download the cdvms3401.zip 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 and extract the installation files:

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 for OpenVMS version 3.4.01 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, CCenter_*OSplatform*_1[1].0.02.bin), rename the file on the Windows system before you transfer it in binary mode to the system where it will be installed.

5. Unzip and extract the following Connect:Direct for OpenVMS images to your PC:

Filename	Description
CD_OVMS_InstallAdmin_Guide.pdf	Connect:Direct for OpenVMS Installation and Administration Guide
CD_OVMS_SecurePlus_Guide.pdf	Connect:Direct Secure+ Option for OpenVMS Implementation Guide
CD_OVMS_User_Guide.pdf	Connect:Direct for OpenVMS User's Guide
Cdvmsaxp3401_srv.exe	Product install (server and client) for Alpha AXP computer
Cdvmsaxp3401_ui.exe	Client only for Alpha AXP computer
Cdvmsint3401_srv.exe	Product install (server and client) for HP Integrity server
Cdvmsint3401_ui.exe	Client only for HP Integrity server
readme.txt	Legal readme document

6. Upload the server or client executable for your platform, via FTP binary mode to the system where you will install it.

Installing the Application

The download file for Connect:Direct for OpenVMS is in the form of an executable image, so you must restore the saveset file before you begin the installation.

To install Connect:Direct for OpenVMS:

1. To restore the saveset file named ndmsrv034.a, issue one of the following commands, depending on whether the system is an Integrity or Alpha system:

```
$ run Cdvmsint3401_srv.exe
```

```
$ run Cdvmsaxp3401_srv.exe
```

2. To obtain the necessary system profile information and license key to install and configure Connect:Direct for OpenVMS, see *License Key File* on page 7.

3. Go to *Step 3: Invoking VMSINSTAL* in Chapter 3 of *Connect:Direct for OpenVMS Installation and Administration Guide* and substitute the following command to start the installation utility:

```
$ @SYS$UPDATE:VMSINSTAL ndmsrv034
```

4. Follow the remaining instructions in Chapter 3 to complete the installation.

5. Follow the instructions in Chapter 4 of *Connect:Direct for OpenVMS Installation and Administration Guide* to configure Connect:Direct OpenVMS.

Documentation Updates

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

Connect:Direct for OpenVMS Installation and Administration Guide, Chapter 4, Configuring Connect:Direct for OpenVMS

Add the following logicals (initialization parameters) to the table in *Defining Connect:Direct for OpenVMS Initialization Parameters*:

Initialization Parameter	Default	Description
NDM$$NOLOG_ RECALL_PRIOR_ VERSION_ACTION	OFF	This logical, when OFF (not present in the INITPARMS.DAT file), suppresses the logging of all stat records except STEP_END and PROCESS_END records.
		When ON (present in the INITPARMS.DAT file), logs all statistics records, except for those individually suppressed by using one or more of the following NDM$$NOLOG logicals.
NDM$$NOLOG_SM_ ACTIVATIONS	none	If present, suppresses logging of session manager startup and shutdown stat records.
NDM$$NOLOG_SM_ SESSIONS	none	If present, suppresses logging of session start records.
NDM$$NOLOG_SM_ STEP_START	none	If present, suppresses logging of step start records.
NDM$$NOLOG_SM_ PROCESS_START	none	If present, suppresses logging of process start records.
NDM$$NOLOG_ MEMBER_COPY	none	If present, suppresses logging of PDS member copy complete records.

Connect:Direct for OpenVMS Documentation

The Connect:Direct for OpenVMS 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 http://support.sterlingcommerce.com. You need a Support On Demand user name and password. See *Support On Demand User Name and Password* on page 8 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. You can search for a specific word or phrase in the text of an open Adobe PDF document or a set of PDF documents in a specified location. See the Adobe Reader Help for instructions on using the Search feature. The search lists all instances of the specified string.

The Connect:Direct for OpenVMS documentation consists of:

✦ *Connect:Direct for OpenVMS Installation and Administration Guide*

✦ *Connect:Direct for OpenVMS User's Guide*

✦ *Connect:Direct Secure+ Option for OpenVMS Implementation Guide*

✦ *Understanding Connect:Direct Processes*

Documentation for the following supplemental products is available on additional distribution media and from the Documentation Library on the Sterling Commerce Support On Demand Web site:

✦ Sterling Certificate Wizard

The latest updates to and information on Connect:Direct Processes are available from the Connect:Direct Processes Web site at http://www.sterlingcommerce.com/documentation/processes/processhome.html.

The *Connect:Direct Compatibility and Connectivity Chart* contains the latest information about currently supported versions and platforms of Connect:Direct and their compatibility and connectivity. This document is available as a PDF file from the Support On Demand Documentation Library. After you log in to the Support On Demand Web site, use the following links on the left-hand navigation bar to access the file: Product Support>Connect>Documentation> Connect:Direct.

Connect:Direct for OpenVMS Version 3.4.01 Release Notes

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