

Release Bulletin Mainframe Connect™ DirectConnect™ for z/OS Option 12.6.1 for Windows, Linux, and UNIX

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Message Format Libraries, Sybase Central, Sybase Client/Server Interfaces, Sybase Development Framework, Sybase Financial Server, Sybase Gateways, Sybase IQ, Sybase Learning Connection, Sybase MPP, Sybase SQL Desktop, Sybase SQL Lifecycle, Sybase SQL Workgroup, Sybase Synergy Program, Sybase Virtual Server Architecture, Sybase User Workbench, SybaseWare, Syber Financial, SyberAssist, SybFlex, SybMD, SyBoms, System 10, System 11, System XI (logo), SystemTools, Tabular Data Stream, The Enterprise Client/Server Company, The Extensible Software Platform, The Future Is Wide Open, The Learning Connection, The Model For Client/Server Solutions, The Online Information Center, The Power of One, TotalFix, TradeForce, Transact-SQL, Translation Toolkit, Turning Imagination Into Reality, UltraLite, UltraLite.NET, UNIBOM, Unilink, Uninull, Unisep, Unistring, URK Runtime Kit for UniCode, Viafone, Viewer, VisualWriter, VQL, WarehouseArchitect, Warehouse Control Center, Warehouse Studio, Warehouse WORKS, Watcom, Watcom SQL, Watcom SQL Server, Web Deployment Kit, Web.PB, Web.SQL, WebSights, WebViewer, WorkGroup SQL Server, XA-Library, XA-Server, XcelleNet, XP Server, XTNDAccess and XTNDConnect are trademarks of Sybase, Inc. or its subsidiaries. 01/06

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1. Accessing current release bulletin information

A more recent version of this release bulletin may be available on the Web. To check for critical product or document information added after the product release, use the Sybase® Product Manuals Web site.

❖ Accessing release bulletins at the Sybase Product Manuals Web site

- 1 Go to Product Manuals at <http://www.sybase.com/support/manuals/>.
- 2 Select a product and language, and click Go.
- 3 Select a product version from the Document Set list.

- 4 Select the Release Bulletins link.
- 5 From the list of individual documents, select the link to the release bulletin for your platform. You can either download the PDF version or browse the document online.

2. Product names and packaging

Starting with version 12.5, DirectConnect™ products are no longer sold separately. The products are now sold under the names Enterprise Connect™ Data Access Options and Mainframe Connect™, as follows:

Table 1: Individual DirectConnect product packaging

Individual product name	Packaged as
DirectConnect for z/OS	Mainframe Connect DirectConnect for z/OS
DirectConnect Manager	Part of Enterprise Connect Data Access (ECDA) Options and Mainframe Connect DirectConnect for z/OS

3. About this release bulletin

This release bulletin contains fixes, enhancements, and known issues for DirectConnect z/OS version 12.6.1.

4. Product summary for version 12.6.1

DirectConnect for z/OS is available as part of the Mainframe Connect Integrated Product Set (IPS), which consists of products that provide access and integration to mainframe data. For more information, see the *Overview Guide* for the Mainframe Connect IPS.

4.1 Version contents

DirectConnect version 12.6.1 includes the following:

- Program CD-ROMs
- Installation documentation on hard copy and all product documentation on CD-ROM
- This release bulletin provided in hard copy

In addition to the hard copy and CD versions of documentation, you can access online versions of the entire documentation set at [//sybooks.sybase.com](http://sybooks.sybase.com).

The following table shows the contents and product ID numbers for DirectConnect 12.6.1:

Table 2: DirectConnect for z/OS version 12.6.1 product set

Product/Documentation	Media	Document ID
Mainframe Connect DirectConnect for z/OS for RISC/6000 AIX	CD-ROM	CD68159-55-1261-01
Mainframe Connect DirectConnect for z/OS for Windows	CD-ROM	CD68155-55-1261-01
Mainframe Connect DirectConnect for z/OS for Sun Solaris	CD-ROM	CD68152-55-1261-01
Mainframe Connect DirectConnect for z/OS for Linux	CD-ROM	CD68152-55-1261-01
DirectConnect Clients	CD-ROM	CD68122-55-1261-01
SyBooks™	CD-ROM	CD30045-55-1261-01
Mainframe Connect DirectConnect for z/OS Option <i>Installation Guide</i>	CD-ROM	DC34237-01-1260-01
Enterprise Connect Data Access and Mainframe Connect <i>Server Administration Guide</i> for DirectConnect	SyBooks™ CD-ROM	DC35365-01-1260-01
Mainframe Connect DirectConnect for z/OS Option <i>User's Guide for DB2 Access Services</i>	SyBooks CD-ROM	DC36455-01-1260-01
Mainframe Connect DirectConnect for z/OS Option <i>User's Guide for Transaction Router Services</i>	SyBooks CD-ROM	DC38581-01-1260-01
<i>Release Bulletin</i> Mainframe Connect DirectConnect for z/OS Option 12.6.1, for Windows, Linux, and UNIX	This document	DC72249-01-1261-02

4.2 Hardware and software requirements

Following is a complete list of updated hardware and software requirements for DirectConnect for z/OS version 12.6.1.

4.2.1 System requirements for UNIX platforms

The following table shows the minimum system requirements for the UNIX-based platforms of Linux, RISC System/6000 AIX, and Sun Solaris:

Table 3: System requirements for UNIX platforms

Item	HP 9000/800	Linux	RISC/6000 AIX	Sun Solaris
CPU	An HP 9000/800.	Intel-compatible.	An IBM RISC System/6000.	A Sun Solaris (SPARC) system.
RAM	Minimum of 300MB to run HP-UX and any DirectConnect for z/OS products.			

Item	HP 9000/800	Linux	RISC/6000 AIX	Sun Solaris
Storage	Minimum of 450MB, plus 512KB for each <i>locale</i> you plan to support.			
Software	<ul style="list-style-type: none"> Production release of HP 9000/800 and 900 HP-UX 11.23 Patch bundle 990P. HP-UX SNAplus2, R6.11.00.000. 	<ul style="list-style-type: none"> Linux Red Hat 3.0. 	<ul style="list-style-type: none"> Production release of AIX 5.3. SNA communications 6.0 (SNA LU 6.2 connectivity only). 	<ul style="list-style-type: none"> Production release of Sun Solaris 2.9. SNAP-IX 7.0.2.1 (SNA LU 6.2 connectivity only).

4.2.2 System requirements for Microsoft Windows 2000 and Windows 2003

To use DirectConnect for z/OS on Windows 2000 and Windows 2003 platforms, you must have the minimum system requirements described in the following table.

Table 4: System requirements for Windows

Item	Requirements
CPU	Sybase recommends an Intel-compatible processor with a minimum of 500 megahertz.
RAM	512MB of RAM to run Windows 2000 and Windows 2003 for DirectConnect for z/OS.
Storage	A minimum of 300MB, plus at least 500KB for each <i>locale</i> you plan to support.
Software	<ul style="list-style-type: none"> Microsoft Windows 2000 or Windows 2003. Microsoft Data Access Component (MDAC) version 2.8 or later. This is required for the DirectConnect server machine and the machine running Adaptive Server®.

4.2.3 System requirements for DirectConnect Manager

Following are minimum system requirements for DirectConnect Manager.

The following table shows the minimum system requirements for UNIX-based platforms.

Table 5: DirectConnect Manager requirements for Linux and UNIX platforms

Item	HP 9000/800	Linux	RISC/6000 AIX	Sun Solaris
CPU	An HP 9000/800	Intel-compatible	An IBM RISC System/6000	A Sun Solaris (SPARC) system
RAM	Minimum of 256MB			
Storage	Minimum of 75-100MB			

The following table shows the minimum requirements for Windows.

Table 6: DirectConnect Manager system requirements for Windows

Item	Requirements
CPU	Microsoft Windows 2000 Service Pack 4 or later, or Microsoft Windows 2003. Sybase recommends a Windows Pentium class processor with a minimum of 300 megahertz.
RAM	Sybase recommends 256MB.
Storage	Minimum of 75 - 100MB.

Note A Java Virtual Machine (JVM) is provided with the DirectConnect Manager installation program as a Java Runtime Environment (JRE) executable.

5. Special installation and configuration instructions

The following special installation instructions replace existing documented instructions, or are new installation instructions that were created after the release of DirectConnect version 12.6:

- System environment files
- Installing OS-specific runtime library (Linux only)
- Creating licenses with SySAM 1 or SySAM 2
- Configuration requirements for TRS
- Installing Mainframe Connect DirectConnect 12.6.1 with ASE 15.0
- Installing DirectConnect 12.6.1 with Open Client and Open Server 12.5
- Installing multiple products on the same machine
- Uninstalling from an environment with multiple Sybase products
- Uninstalling from an environment with ECDA Options and DirectConnect for z/OS
- ESD installation process warning (UNIX only)

Warning! Do not install DirectConnect version 12.6.1 into an existing directory containing Sybase products from previous releases.

5.1 System environment files

For 12.6 and later versions, to allow multiple DirectConnect installations on the same machine, Sybase provides the following environment files:

- For UNIX:
 - `$SYBASE/DC-12_6/DC_SYBASE.csh`
 - `$SYBASE/DC-12_6/DC_SYBASE.sh`
- For Windows:
 - `%SYBASE%\DC-12_6\DC_SYBASE.bat`

Note The `$SYBASE/SYBASE.csh` and `$SYBASE/SYBASE.sh` environment files (for UNIX) and the `%SYBASE%\SYBASE.bat` environment files (for Windows) are no longer used.

5.2 Installing OS-specific runtime library (Linux only)

(CR426135) On the Linux platform, DirectConnect is built as a 32-bit application. To run DirectConnect on a 64-bit machine, you must install the OS-specific, 32-bit runtime C++ library in `/usr/lib`. The runtime C++ library required is `libstdc++.so`.

If the runtime library is not found by the runtime linker, DirectConnect fails to start, and an error message occurs similar to the following:

```
/usr/lib/dld.sl: Can't open shared library: /opt
/hp-gcc/3.3.6/ilp32/lib/libstdc++.sl.5
/usr/lib/dld.sl: No such file or directory
```

5.3 Creating licenses with SySAM 1 or SySAM 2

To enter licenses for the DirectConnect z/OS product using Sybase Security Access Module (SySAM)—either SySAM 1 or SySAM 2—you must create a SySAM license file.

❖ **To create a SYSAM license file**

- 1 Go to the following directory:
 - For Windows, `%SYBASE%\DC-12_6\install\sysam_utils` directory, or for Oracle, go to the `%SYBASE%\DCO-12_6\install\sysam_utils` directory.

- For UNIX, `$SYBASE/DC-12_6/install/sysam_utils` directory, or for Oracle, go to the `$SYBASE/DCO-12_6/install/sysam_utils` directory.
- 2 Run the `dc_lmgr` script.
 - 3 Enter your license numbers and click OK.

A license file is created based on one of the following conditions:

- If a `SYSAM-1_0` directory exists in the installation parent directory, a `license.dat` file is created and updated in the following directory:
 - For Windows, `%SYBASE%\SYSAM-1_0\licenses`
 - For UNIX, `$SYBASE/SYSAM-1_0/licenses`
- If a `SYSAM-2_0` directory exists in the install parent directory, a `SYBASE_DC_license.lic` file is created and updated in the following directory:
 - For Windows, `%SYBASE%\SYSAM-2_0\licenses`
 - For UNIX, `$SYBASE/SYSAM-2_0/licenses`
- If both `SYSAM-1_0` and `SYSAM-2_0` directories exist in the parent directory, only the `SYSAM-2_0` file is created or updated.

Following are the locations for the `lmutil` scripts:

- For UNIX:
 - For SySAM 1.0
`$SYBASE/SYSAM-1_0/bin`
 - For SySAM 2.0
`$SYBASE/SYSAM-2_0/bin`
- For Windows:
 - For SySAM 1.0
`%SYBASE%\SYSAM-1_0\bin`
 - For SySAM 2.0
`%SYBASE%\SYSAM-2_0\bin`

5.4 Configuration requirements for TRS

Transaction Router Service (TRS) requires a separate TRS Service Library installation for each unique TRS configuration set. For detailed configuration instructions, see the DirectConnect *Transaction Router Service User's Guide* and the trscopy program.

5.5 Installing Mainframe Connect DirectConnect 12.6.1 with ASE 15.0

When you install DirectConnect 12.6.1 and Adaptive Server Enterprise (ASE) 15.0, Sybase strongly recommends that you install the Mainframe Connect DirectConnect for z/OS Option 12.6.1 (including DirectConnect Manager) in its own product directory.

ASE 15.0 includes new major versions of ASE and many of the supporting components. All other current Sybase products (for example, Replication Server® 12.6 or Enterprise Connect™ Data Access 12.6.1) contain earlier versions of those same components. Installing ASE 15.0 into the same directory with existing products should not impact the existing products. However, installing other products *after* ASE 15.0 may result in one or more products not working correctly. Sybase recommends that you install ASE 15.0 into its own directory, if possible. Where this is not practical (for example, on Windows) and when other products must be installed into the same directory, ASE 15.0 should be installed last.

5.6 Installing DirectConnect 12.6.1 with Open Client and Open Server 12.5

If you are installing DirectConnect 12.6.1 into a directory that already has Open Client™ and Open Server™ 12.5 or earlier, you must do one of the following:

- Uninstall Open Client and Open Server before installing DirectConnect 12.6.1,
- or
- Install DirectConnect into a different directory than the directory that contains Open Client and Open Server 12.5.

5.7 Installing multiple products on the same machine

Following are tasks that you need to perform before you install any Sybase software into a directory in which Sybase software is already installed.

Create a backup	Create a backup of the existing installation directory and, if possible on Windows, the environment variable settings and registry.
Overwrite older existing files	On all platforms, when you install Sybase products into a directory that contains other Sybase products, the installation procedure overwrites existing files with the same name. However, if the files on the system are newer than the ones being installed, the installation procedure prompts you to specify whether or not to overwrite the existing files. In most instances, you want the <i>newer</i> version of the files and should choose not to overwrite newer files.
Reset system variables	<p>On Windows, if Sybase products are installed and you install another Sybase product into a different directory on the same machine, the system variables are reset to the directory where the last Sybase product was installed. Thus, any Sybase products that were on the system before and were configured to run as Windows services may no longer run automatically and may not be manageable through the Control Panel service controls.</p> <p>To correct this problem, run the previously installed products from within a DOS command shell, or create scripts that set the environment and run the product. When using a DOS command shell, run the environment scripts (such as <i>SYBASE.bat</i>) to set the variables correctly for that product before running the product.</p>

5.8 Uninstalling from an environment with multiple Sybase products

Uninstalling Sybase products from environments that contain multiple Sybase products may affect operation of the remaining Sybase products.

This occurs because Sybase products frequently share modules or files, such as connectivity files (in the Sybase *OCS-12_5* directory), JVM files (in the *shared* or *shared-1_0* directories), language modules, and SySAM files.

Shared files between products	When uninstalling Sybase products from a directory that contains multiple Sybase products, be aware that you may remove files that other products require. As a result, if you uninstall one of the products that share files, you might remove files that the remaining products require and cause the products to fail.
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Change to variable settings

On Windows, removing Sybase products may result in changes to the system variable settings, which may also impact the operation of the remaining products or services.

5.9 Uninstalling from an environment with ECDA Options and DirectConnect for z/OS

To uninstall when an Enterprise Connect Data Access Option and a DirectConnect for z/OS are installed, you must uninstall the products in reverse order of how they were installed. This is due to a problem with the uninstall procedure.

Note Following an uninstall, you may need to manually delete files that may not have been removed.

5.10 ESD installation process warning (UNIX only)

When installing a DirectConnect ESD, only the *standard-named* service libraries are upgraded; therefore, you must check to see if there are any custom-named service libraries in the `$$SYBASE/$SYBASE_ECON/svclib` directory. If there are, you must do the following:

- Run `trscopy` again,
- or
- Copy the *standard library* file to the *custom library* files.

6. Software fixes in version 12.6.1

The following sections provide fixes for version 12.6.1.

6.1 DirectConnect use of Open Client and Open Server libraries

DirectConnect 12.6 and later has changed how it uses the Open Client and Open Server libraries. Although DirectConnect will continue to install the Open Client and Open Server libraries in the Sybase root directory (*SYBASE/OCS-12_5*), it will not use these libraries. Instead, it installs a copy of these libraries in the DirectConnect *\$SYBASE/DC_12_6/lib* (UNIX) directory or the *%SYBASE%\DC_12-6/bin* (Windows) directory, which allows DirectConnect to isolate these libraries from Open Client and Open Server updates and from other Sybase products. This ensures that the DirectConnect libraries are the same version as the libraries used for certification. The DirectConnect ESD installation process updates these libraries.

6.2 Changing administrator IDs in DirectConnect Manager

(CR390680 & CR 390830) The ability for you to add, delete, and alter administrator user IDs to DirectConnect from DirectConnect Manager has been added to DirectConnect Manager 12.6.1.

Sybase recommends that for directed DirectConnect servers, the administrator user IDs and passwords must be consistent between the Director and its directed DirectConnect servers. If not consistent, the login information must be entered repeatedly for each server as they access it. Although this is feasible and works well, it may become cumbersome and reduce the value of using the DCDirector. If you choose to use different UID/PWD combinations across servers, you can save this information on your local machine by selecting the Permanent Connection option on the login dialog box. This may reduce the impact of using different UID/PWD combinations somewhat, but it reduces security.

Note If DirectConnect Manager 12.6.1 is used with pre-12.6.1 DirectConnect servers, the ability to alter an administrator properties has been disabled. To alter the properties of the administrator in a pre-12.6.1 DirectConnect server, you must drop and re-enter the administrator user ID with the proper property values.

6.3 Software fixes

The following sections describe the software fixes in version 12.6.1.

6.3.1 Revised DirectConnect scripts

The DirectConnect scripts (*DCStart*, *AddServer*, *DCDirector*, *DC_SYBASE*) that are generated during installation have been simplified and improved. The scripts no longer rely on global shell environment variables; instead, they set environment variables based on the installation-generated file, *DC_SYBASE*.

Warning! DirectConnect scripts use the *DC_SYBASE* script and not the *SYBASE* script.

The scripts and installation program have been changed to prevent environment variable overruns or truncation (CR 325317). Sybase strongly recommends that you use the scripts for DirectConnect operations to ensure a proper operating environment.

The DirectConnect installation program no longer sets global environment variables, and requires the use of supplied DirectConnect scripts for starting DirectConnect and DCDirector. To avoid common environmental setup problems, Sybase strongly recommends using DirectConnect scripts.

6.3.2 Known issues fixed for 12.6.1

The following table lists the known problems that were fixed for DirectConnect version 12.6.1. Each issue has a description, resolution, and the associated Quality Tracking System (QTS) number.

Table 7: Description of software fixes

Description	Resolution	QTS #
The trscopy utility failed on Windows 2003.	The trscopy utility was rewritten to support Windows 2003.	422693
Request to add tracing where the hex data stream from CICS to DirectConnect TRS or DirectConnect for DB2 was written out to a trace file with a timestamp showing milliseconds.	Tracing was enhanced to display milliseconds.	405792
The LU62 service crashed when an attention missed the end of a result set.	This problem has been fixed.	405787
Installation issues existed on creating soft links for SNA Stub for non-SNA box.	This problem has been fixed.	394681
System crashes resulted when the client application timed out and ASE/CIS requested a transaction count.	The null client connection is now checked, and connection to the target is terminated.	391101

Description	Resolution	QTS #
When Mainframe Connect was configured to send back TEXT for LongVarChar, it resulted in a TDS token error message.	Software was changed to check for text data.	364771
RSP failed to return large char and text.	RSP large char and text processing have been added.	363443

7. Known problems

Note For the most current information regarding the status of the known issues, refer to the latest *ESD README* file.

This section contains known issues for this release:

- DirectConnect issues
- General issues
- InstallShield issues
- ASE/CIS and DB2 datatypes
- DirectConnect Manager

7.1 DirectConnect issues

The following table lists outstanding issues that apply to DirectConnect products. Each issue identifies the platform, a workaround (if available), and the QTS assigned to it.

Known issues for specific DirectConnect products are described in the table and in the following sections.

Table 8: Known issues for DirectConnect for z/OS

Platform	Description	Workaround	QTS #
UNIX and Windows	This issue will only occur with new installations of the DB2 access service. The <code>sp_server_info</code> , <code>sp_sproc_columns</code> , <code>sp_stored_procedures</code> , and <code>sp_help_server</code> all use the "SYSMDI" owner name in their queries instead of "SYBASE". The install <code>cspdb2.sql</code> script, which creates the tables used in the catalog stored procedures, creates them under the SYBASE owner. These catalog stored procedures will fail.	Modify the <code>cspdb2.sql</code> script to create the tables under the SYSMDI owner.	429303
	When <code>SendWarningMessages</code> is enabled and a warning is encountered during CSP processing, no warning message is returned.	Turn off <code>SendWarningMessages</code> .	165710
	Stored procedures cannot be executed as dynamic events.	Execute stored procedures as language events.	142708

7.2 General issues

Following are issues that are not covered by any QTS.

7.2.1 Editing `sql.ini` with a word processing program (Windows only)

If you edit the `sql.ini` file with a word processing program, such as Microsoft Word, extra non-printable characters can be added to the end of text in the `sql.ini` file. As a result, Sybase Open Server-based applications might not recognize server names as defined in the `sql.ini` file.

To modify the `sql.ini` file, use `dsedit`, which Sybase provides with your Open Client and Open Server installation.

7.2.2 Service name redirection default value required

The default `server.cfg` file does not give `snrf.tbl` as the default value. For a workaround, if you are using the default `snrf.tbl`, enter the following in the `server.cfg` file under the section called Client Interaction:

```
ServiceRedirectionFile=snrf.tbl
```

7.2.3 Unmapped error messages

When unmapped error messages from the host have no corresponding message text in DirectConnect, the following client message is displayed:

Msg 31261, Internal error: Unable to map message description for [<msg_id>]

7.2.4 Admin Service user.pwd file

The Admin Service of DirectConnect 12.6.1 has been changed from previous versions to read and write encrypted passwords to the *user.pwd* file. Previous *user.pwd* files are not supported with DirectConnect 12.6.1 and will result in administrator login failures. Administrator IDs and passwords from previous installations must be re-entered to the new Admin Service.

7.3 InstallShield issues

This section contains issues that relate to InstallShield.

7.3.1 InstallShield errors (HP-UX only)

On HP-UX, there are two types of error messages that occur during installation that can be ignored and have no impact on the InstallShield installation:

- When in GUI mode, the installation procedure displays “gif file not found” messages on the console before the GUI interface is displayed.
- When you create a response file for silent installations the installation procedure displays “Illegal character ‘8’ in encoding name” messages. These error messages have no effect on the functionality of the response file created and on a successful silent installation. Additionally, some of the comments inserted into the response file are not formatted correctly and can also be ignored.

7.3.2 Uninstall function not removing all DirectConnect files

On Windows, when you use InstallShield’s uninstall function from the Start menu, it does not remove all DirectConnect server files. Be sure to verify the files and manually remove any that remain.

7.4 ASE/CIS and DB2 datatypes

The following section describes issues that relate to DirectConnect datatypes and ASE datatypes.

7.4.1 DB2 *timestamp* datatype

When you create a DB2 table using Adaptive Server Enterprise Component Integration Services (ASE/CIS), do not specify the datatype *timestamp*; this creates a column that cannot be written to. Instead, specify the ASE/CIS *datetime* datatype, which creates a DB2 *timestamp* column on the host.

7.4.2 ASE/CIS *nchar* and *nvarchar* datatypes

An error results when you use ASE/CIS to create an *nchar* or *nvarchar* column in DB2. However, if you need to use either of these datatypes, do the following:

- 1 Create the tables manually on DB2 with columns of type *graphic* in place of ASE/CIS *nchar* columns, and columns of type *vargraphic* in place of ASE/CIS *nvarchar* columns.
- 2 Use ASE/CIS with the *nchar* and *nvarchar* columns in the corresponding locations to issue the `create existing table` command to create a table on ASE/CIS that will correspond to the DB2 table.

7.4.3 Quoted *_identifier* failure

An error occurs if a column name is quoted within a SQL statement, such as the following:

```
create table dwmdbas.user.mytab ("order" int)
```

In sybase mode, this behavior prevents the use of Transact-SQL® reserved keywords as column names.

7.5 Transaction Router Service (TRS)

(CR428294) Updates to the TRS catalog stored procedures (CSP) scripts will be made separately from release 12.6.1.

Check regularly for updates at <http://www.sybase.com/downloads> under the Mainframe Connect product family.

7.6 DirectConnect Manager

The following issues are related to DirectConnect Manager.

7.6.1 Cannot create an RPC pointer in a TRS-SNA service

You cannot create an RPC pointer in a TRS-SNA service using DirectConnect Manager. The workaround is to use the `sgw_addrpc` command. This command is described in the Mainframe Connect DirectConnect for z/OS Option *User's Guide for Transaction Router Services* guide, in Chapter 3, "Configuring a TRS," in the section titled "Configuring RPCs."

7.6.2 Service library is named incorrectly

(CR 426685) When `trscopy` creates a service library name other than `trs`, only one DirectConnect Manager tab appears, the Transaction Router Service Property tab. This occurs when the `trscopy.sh` shell script is used to copy a `trs` service.

Workaround: When using `trscopy`, verify that the new service library name starts with "trs."

7.6.3 Incorrect tabs displayed when using `trscopy`

(CR 429028) The `trstcp` service shows connection and connection group tabs instead of region tab. This occurs only if you use `trscopy.sh` shell script to copy a `trs` service.

7.6.4 Unable to administer TRS services (Linux only)

(CR429640, CR 429538) Because DirectConnect Manager cannot connect directly to a Linux-TRS service, it is unable to administer a Linux-TRS service; However you can manually administer a Linux-TRS service using `isql`.

8. Product compatibilities

DirectConnect for z/OS version 12.6.1 is compatible with the following:

- Sybase Open Client 12.5.1 and later
- Adaptive Server 12.5 and later
- Sybase Replication Server® 12.6 and later
- jConnect™ for JDBC™ for 6.0 and later
- DirectConnect Manager 12.6.1

9. Documentation updates and corrections

This section identifies additions and revisions to DirectConnect version 12.6 documents to reflect revisions for version 12.6.1. The affected document is identified, followed by the chapter and subsection that is being added or revised.

9.1 Mainframe Connect DirectConnect for z/OS Option Installation Guide

(CR394681) Following are document revisions for Chapter 4 and Chapter 6.

9.1.1 Chapter 4, Installing DirectConnect

Following are revisions to Chapter 4:

- In the “Installing DirectConnect in GUI mode” section, add the following for Linux in step 3:

For Linux, enter:

```
./setupLinux
```

- In the “Installing DirectConnect in console mode” section, add the following for Linux in step 3:

For Linux, enter:

```
./setupLinux -console
```

- (For AIX only) In the “Installing DirectConnect for z/OS” section, add an additional installation step to the installation procedure for non-SNA environments to identify the need to create two soft links using the threaded library names, *libappc.o* and *libsna.o*, to the SNA stub *libappc.o.stub*.
- (For AIX only) In the “Setting up and verifying your environment” section, correct the path for AIX from LIB_PATH to LIBPATH.

9.1.2 Chapter 6, Performing Post-installation Tasks

Following are revisions to Chapter 6:

- (For AIX only) In the “DirectConnect server fails to start after installation” section, in the fix for error #1, the soft links to the *stub* libraries must be created manually.

- (For Windows only) In the “DirectConnect fails to start after installation” section, replace the fix for error condition information with the following:

Verify that you have SNA (Host Integration Server (HIS)) installed on the Windows machine where Direct Connect is installed:

- If installed:
 - Verify that `%SNARoot%` is one of the system environment variables in: start, settings, control_panel, system, advanced_tab, environment_variables_button, system_variables. For example:

```
SNARoot = c:\HIS\system
```

- Edit the `%SYBASE%\%SYBASE_ECON%\DC_SYBASE.bat` file and add the following line at the top of the file:

```
set SNARoot=c:\HIS\system
```

- If not installed:
 - Install the *stub* libraries for DirectConnect 12.6.1 on Windows by executing the following:

```
%SYBASE%\%SYBASE_ECON%\bin\DCConfig.bat
```

9.2 Transaction Router Service User’s Guide

(CR429528) Following are revisions to Chapter 2, “Service Library Configuration Properties.”

9.2.1 Chapter 2, Creating a TRS

In the “Sample TRS configuration file” section replace the sample with the following:

```
[Service Library]
{Transaction Router Service Property}
PEMDest=CICSQA
RPCInfoFile=d:\newpath\SYBASE\DC-12_0\svrname\cfg\trslu62.rpc
LogInfoFile=d:\newpath\SYBASE\DC-12_0\svrname\log\trslu62.grp
TDSTraceFile=d:\newpath\SYBASE\DC-12_0\svrname\log\trslu62.tds
AccountFile=d:\newpath\SYBASE\DC-12_0\svrname\log\trslu62.act
MaxConnections=100
TraceTRS=short
Security=no
DirectPrevent=yes
Accounting=yes
```

```

UseDBRPC=no
TruncateLV=no
UpperCase=no
ConnInfoFile=c:\newpath\SYBASE\DC-12_0\svrname\cfg\trslu62.cid
ConQTimeout=120
DeactCon=no
[ServiceA]
{Transaction Router Service Property}
EnableAtStartup=yes

```

9.2.2 Chapter 2, Creating a TRS

Add the following parameter:

ReturnParametersOnError

Provides the ability to request that parameters be returned when an error occurs.

Syntax	ReturnParametersOnError=[no yes]
Default	yes
Values	<ul style="list-style-type: none"> • yes returns parameters when an error occurs. • no returns errors with no parameters.

9.3 Mainframe Connect DirectConnect for z/OS Option User's Guide for DB2 Access

Following are revisions for Chapter 2.

9.3.1 Chapter 2, Creating and Configuring DB2 Access Services

(CR 426212, CR 426209) In the section titled “Client interaction properties,” replace the description of the MaxResultSize and MaxRowsReturned properties with the following:

MaxResultSize

Specifies the maximum number of bytes a DB2 access service returns to the client application in a result set.

Syntax	MaxResultSize= <i>integer</i>
Range	0 – unlimited

Default	unlimited
Values	<i>integer</i> is a number of bytes. A value of 0 (zero) indicates the results size is an unlimited value.
Comments	<ul style="list-style-type: none"> • The <code>MaxResultSize</code> value is approximate in that a DB2 access service checks at the end of each row to see if the <code>MaxResultSize</code> value was exceeded. • If the <code>MaxResultSize</code> value is exceeded, the DB2 access service: <ul style="list-style-type: none"> • Sends the entire row to the client application (not a partial row). • Does not send any of the remaining rows in the result set. • Issues a warning message. • Typically, the number of bytes returned is less than the value of the <code>MaxResultSize</code> property because the calculations for character columns are based on the defined size, whereas the actual data contained in these columns is usually less. • The <code>SendWarningMessages</code> property controls whether or not the DB2 access service returns warning messages to the client application.

MaxRowsReturned

Specifies the maximum number of rows a DB2 access service returns to the client application in a result set.

Syntax	<code>MaxRowsReturned=<i>integer</i></code>
Range	0 – unlimited
Default	unlimited
Values	<i>integer</i> is a number of rows. A value of 0 (zero) indicates that the rows returned is an unlimited value.
Comments	<ul style="list-style-type: none"> • If the <code>MaxRowsReturned</code> value is exceeded, the DB2 access service issues a warning message and does not send any of the remaining rows in the result set. • The <code>SendWarningMessages</code> property controls whether the DB2 access service returns warning messages to the client application.

ConnectionProtocol

The document states that the default is lu62, which is incorrect. For this property there is NO default value.

9.4 ECDA and Mainframe Connect Server Administration Guide for DirectConnect

Following are revisions for Chapter 5.

9.4.1 Chapter 5, Setting Up SSL and a Windows Service

In the section titled “Configure DirectConnect as a Windows service,” the document must be corrected to specify that you must reboot after you update the system environment variables.

10. Technical support

Each Sybase installation that has purchased a support contract has one or more designated people who are authorized to contact Sybase Technical Support. If you have any questions about this installation, or if you need assistance during the installation process, ask the designated person to contact Sybase Technical Support or the Sybase subsidiary in your area.

11. Other sources of information

Use the Sybase Getting Started CD, the SyBooks™ CD, and the Sybase Product Manuals Web site to learn more about your product:

- The Getting Started CD contains release bulletins and installation guides in PDF format, and may also contain other documents or updated information not included on the SyBooks CD. It is included with your software. To read or print documents on the Getting Started CD, you need Adobe Acrobat Reader, which you can download at no charge from the Adobe Web site using a link provided on the CD.
- The SyBooks CD contains product manuals and is included with your software. The Eclipse-based SyBooks browser allows you to access the manuals in an easy-to-use, HTML-based format.

Some documentation may be provided in PDF format, which you can access through the PDF directory on the SyBooks CD. To read or print the PDF files, you need Adobe Acrobat Reader.

Refer to the *SyBooks Installation Guide* on the Getting Started CD, or the *README.txt* file on the SyBooks CD for instructions on installing and starting SyBooks.

- The Sybase Product Manuals Web site is an online version of the SyBooks CD that you can access using a standard Web browser. In addition to product manuals, you will find links to EBFs/Maintenance, Technical Documents, Case Management, Solved Cases, newsgroups, and the Sybase Developer Network.

To access the Sybase Product Manuals Web site, go to Product Manuals at <http://www.sybase.com/support/manuals/>.

11.1 Sybase certifications on the Web

Technical documentation at the Sybase Web site is updated frequently.

❖ Finding the latest information on product certifications

- 1 Point your Web browser to Technical Documents at <http://www.sybase.com/support/techdocs/>.
- 2 Select Products from the navigation bar on the left.
- 3 Select a product name from the product list and click Go.
- 4 Select the Certification Report filter, specify a time frame, and click Go.
- 5 Click a Certification Report title to display the report.

❖ Creating a personalized view of the Sybase Web site (including support pages)

Set up a MySybase profile. MySybase is a free service that allows you to create a personalized view of Sybase Web pages.

- 1 Point your Web browser to Technical Documents at <http://www.sybase.com/support/techdocs/>.
- 2 Click MySybase and create a MySybase profile.

11.2 Sybase EBFs and software maintenance

❖ Finding the latest information on EBFs and software maintenance

- 1 Point your Web browser to the Sybase Support Page at <http://www.sybase.com/support>.

- 2 Select EBFs/Maintenance. If prompted, enter your MySybase user name and password.
- 3 Select a product.
- 4 Specify a time frame and click Go. A list of EBF/Maintenance releases is displayed.

Padlock icons indicate that you do not have download authorization for certain EBF/Maintenance releases because you are not registered as a Technical Support Contact. If you have not registered, but have valid information provided by your Sybase representative or through your support contract, click Edit Roles to add the “Technical Support Contact” role to your MySybase profile.

- 5 Click the Info icon to display the EBF/Maintenance report, or click the product description to download the software.

