

Release Bulletin Mainframe Connect DirectConnect™ z/OS Option 12.6 for Microsoft Windows and UNIX

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Topic	Page
1. Accessing current release bulletin information	2
2. Product names and packaging	2
3. About this release bulletin	3
4. Product summary for version 12.6	3
4.1 Version contents	3
4.2 Hardware and software requirements	4
5. Special installation and configuration instructions	6
5.1 System environment files	7
5.2 Null pointer exception during installation	7
5.3 Configuration requirements for TRS	8
5.4 Installing DirectConnect 12.6 with ASE 15.0	8
5.5 Installing DirectConnect 12.6 with Open Client and Open Server 12.5	8
5.6 Installing multiple products on the same machine	8
5.7 Uninstalling from an environment that has multiple Sybase products	9
6. Changed functionality and fixes in version 12.6	9
6.1 New features	9
6.2 DirectConnect use of Open Client and Open Server libraries	10
6.3 Software fixes	10
7. Known problems	11
7.1 DirectConnect issues	11

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Topic	Page
7.2 General issues	12
7.3 InstallShield issue	12
7.4 ASE/CIS and DB2 datatypes	13
7.5 DirectConnect Manager	14
8. Product compatibilities	14
9. Documentation updates and corrections	14
9.1 Transaction Router Service User's Guide	14
10. Technical support	15
11. Other sources of information	15
11.1 Sybase certifications on the Web	16
11.2 Sybase EBFs and software maintenance	16

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 release of the product CD, use the Sybase® Technical Library Product Manuals Web site.

❖ Accessing release bulletins at the Technical Library Product Manuals Web site

- 1 Go to Product Manuals at <http://www.sybase.com/support/manuals/>.
- 2 Follow the links to the appropriate Sybase product.
- 3 Select the Release Bulletins link.
- 4 Select the Sybase product version from the Release Bulletins list.
- 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 (ECDA) 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

Individual product name	Packaged as
DirectConnect Manager	Part of Enterprise Connect Data Access 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.

4. Product summary for version 12.6

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 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:

Table 2: DirectConnect for z/OS version 12.6 product set

Product/Documentation	Media	Document ID
Mainframe Connect DirectConnect for z/OS for HP 9000(800)	CD-ROM	68147-55-1260-01
Mainframe Connect DirectConnect for z/OS for RS/6000 AIX	CD-ROM	68159-55-1260-01
Mainframe Connect DirectConnect for z/OS for Windows	CD-ROM	68155-55-1260-01
Mainframe Connect DirectConnect for z/OS for Sun Solaris	CD-ROM	68152-55-1260-01
DirectConnect Client	CD-ROM	CD68122-55-1260-01

Product/Documentation	Media	Document ID
Technical Library	CD-ROM	CD30045-55-1260-01
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	Technical Library CD-ROM	DC35365-01-1260-01
Mainframe Connect DirectConnect for z/OS Option <i>User's Guide for DB2 Access Services</i>	Technical Library CD-ROM	DC36455-01-1260-01
Mainframe Connect DirectConnect for z/OS Option <i>User's Guide for Transaction Router Services</i>	Technical Library CD-ROM	DC38581-01-1260-01
<i>Release Bulletin</i> DirectConnect 12.6 for z/OS, for AIX, HP-UX, Solaris, and Windows platforms	This document	DC72249-01-1260-02

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.

4.2.1 System requirements for UNIX platforms

The following table shows the minimum system requirements for the UNIX-based platforms of HP 9000(8xx), RISC/6000 AIX, and Sun Solaris:

Table 3: System requirements for UNIX platforms

Item	HP 9000/800	RISC/6000 AIX	Sun Solaris
CPU	An HP 9000/800.	An RISC/6000 AIX.	A Sun Solaris (SPARC) system.
RAM	Minimum of 300MB to run HP-UX and any DirectConnect for z/OS products.	Minimum of 300MB to run AIX and any DirectConnect for z/OS products.	Minimum of 300MB to run Sun Solaris and any DirectConnect for z/OS products.
Storage	Minimum of 450MB, plus 512KB for each <i>locale</i> you plan to support.	Minimum of 450MB, plus 512KB for each <i>locale</i> you plan to support.	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"> • 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 the minimum system requirements for DirectConnect Manager.

System requirements for UNIX

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

Table 5: DirectConnect Manager requirements for UNIX

Item	HP 9000/800	RISC/6000 AIX	Sun Solaris	Linux
CPU	An HP 9000/800	An IBM RISC System/6000	A Sun Solaris (SPARC) system	Linux
RAM	Minimum of 256MB	Minimum of 256MB	Minimum of 256MB	Minimum of 256MB
Storage	Minimum of 150MB	Minimum of 150MB	Minimum of 150MB	Minimum of 150MB

System requirements for Windows

The following table shows the minimum requirements for Windows.

Table 6: DirectConnect Manager system requirements for Windows

Item	Requirements
CPU	Sybase recommends a Windows processor with a minimum of 1 gigahertz.
RAM	Sybase recommends 256MB.
Storage	120MB.

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
- Null pointer exception during installation
- Configuration requirements for TRS (new)
- Installing DirectConnect 12.6 with Open Client and Open Server 12.5
- Installing multiple products on the same machine

- Uninstalling from an environment that has multiple Sybase products

Warning! Do not install DirectConnect version 12.6 into an existing directory containing Sybase products from previous releases.

5.1 System environment files

For version 12.6, to allow multiple DirectConnect installations on the same machine, Sybase has provided 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`

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 Null pointer exception during installation

A null pointer exception may occur when you install DirectConnect into ASE 12.5.3 or ASE 12.5.3 ESD #1 installations. If the DirectConnect installation fails with a Java null pointer exception error during the extraction of installation files, make the following adjustments.

❖ To correct the installation

- 1 Cancel the current DirectConnect installation.
- 2 Based on your platform:
 - For Windows, delete the `%SYBASE%_jvm_ECDA_Suite` directory created during installation.
 - For UNIX, delete the `$SYBASE/_jvm_ECDA_Suite` directory created during installation.
- 3 Reinstall DirectConnect, selecting the Custom installation option.
- 4 During custom installation, deselect the ESQ/L/C and ESQ/L/COBOL options.

5.3 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.

5.4 Installing DirectConnect 12.6 with ASE 15.0

As a result of incompatibilities with ASE 15.0, Sybase strongly recommends that you install the Mainframe Connect DirectConnect for z/OS Option 12.6 (including DirectConnect Manager) in their own product directory.

5.5 Installing DirectConnect 12.6 with Open Client and Open Server 12.5

If you are installing DirectConnect 12.6 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,
- or
- Install DirectConnect into a different directory than Open Client and Open Server 12.5.

5.6 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 existing files

On all platforms, when you install Sybase products into a directory that contains other Sybase products, the installer overwrites existing files with the same name. If the files on the system are newer than the ones being installed, the installer prompts you to specify whether or not to overwrite the existing files. In most cases, you want the newer version of the files and should choose not to overwrite newer files.

System variables On Windows, if Sybase products are installed and you install another Sybase product into a different directory on the same machine, the system variables (such as, SYBASE) 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.

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 *SYBASE.bat*) for that product before running the product to set the variables correctly.

5.7 Uninstalling from an environment that has 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 Sybase Software Access Management (SySAM).

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

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.

6. Changed functionality and fixes in version 12.6

The following sections lists the fixes for version 12.6 and provides references to a New Features document that describes the new functionality.

6.1 New features

The new functionality is described in the Enterprise Connect Data Access *New Features 12.6* document.

6.2 DirectConnect use of Open Client and Open Server libraries

DirectConnect 12.6 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 *DC_12_6/lib* 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 makes updates to these libraries.

6.3 Software fixes

The following sections describe the software fixes in version 12.6.

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! The 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.

Future versions of the DirectConnect installation program will not set global environment variables; they will require the use of supplied DirectConnect scripts for starting DirectConnect and DCDirector. To avoid common environmental setup problems, Sybase strongly recommends using DirectConnect scripts.

Note Express Transfer and ODBC option users: If you are using third-party ODBC drivers, including the ASE ODBC driver, you may need to modify the *DC_SYBASE* script to contain the library search path information required by the third-party ODBC driver.

6.3.2 Known issues fixed for 12.6

The following table lists the known problems that were fixed for DirectConnect version 12.6. Each issue has a description, resolution, and the associated Quality Tracking System (QTS) number.

Table 7: Description of software fixes

Description	Resolution	QTS #
During a transfer from DB2 to ASE, ASE was shut down and DirectConnect abnormally stopped processing.	Transfers between DB2 and ASE now work correctly without causing any failures.	370341
An RSP integer keyword variable caused a datatype conversion failure.	The RSP integer keyword variable issue is corrected.	361008

7. Known problems

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

This section contains the known issues for this release:

- DirectConnect issues
- General issues
- InstallShield issue
- 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 *without* QTS identifiers are described in sections following this table.

Table 8: Known issues for DirectConnect for z/OS

Platform	Description	Workaround	QTS #
UNIX and Windows	When SendWarningMessages is enabled and a warning is encountered during CSP processing, no warning message is returned.	Turn off SendWarningMessages.	165710
	Stored procedures cannot be executed as dynamic events.	Execute as language events.	142708

7.2 General issues

Following are general issues that have no QTS identifiers.

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>]
```

7.3 InstallShield issue

This section contains issues that relate to InstallShield.

7.3.1 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 describes issues that relate to DirectConnect datatypes and ASE datatypes.

7.4.1 DB2 *timestamp* datatype

When you create a DB2 table using 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 DirectConnect Manager

You can not 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."

8. Product compatibilities

DirectConnect for z/OS version 12.6 is compatible with the following:

- Sybase Open Client 12.5.1 and later
- Adaptive Server® 12.5 and later
- Adaptive Server Enterprise/Component Integrated Services (ASE/CIS) 12.5 and later
- Sybase Replication Server® 12.6 and later
- jConnect™ for JDBC™ for 6.0 and later
- DirectConnect Manager 12.6

9. Documentation updates and corrections

Following are updates and corrections to DirectConnect version 12.6 documentation. The document that is affected is identified, followed by the chapter and subsection that is being added or updated.

9.1 Transaction Router Service User's Guide

Add the following configuration property to Chapter 2, "Service Library Configuration Properties."

9.1.1 ReturnParametersOnError

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

Syntax	ReturnParametersOnError=[no yes]
Default	yes

Values

- yes returns parameters when an error occurs.
- no returns errors with no parameters.

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.

