

Release Bulletin Enterprise Connect™ Data Access 15.0 for Microsoft Windows

Document ID: DC74920-01-1500-02

Last revised: July 26, 2011

Topic	Page
1. EBF downloads for security fixes	2
2. Accessing current release bulletin information	2
3. Product names and packaging	2
4. Product summary for version 15.0	3
4.1 Version contents	3
4.2 Hardware and software requirements	4
5. Changed functionality in this version	5
6. Special installation and configuration instructions	5
6.1 ODBC back-end (target-side) drivers	5
6.2 Migration utilities	5
6.3 Editing the sql.ini file	6
6.4 Special installation and configuration instructions for ODBC	6
6.5 Installing multiple products on the same machine	7
6.6 Uninstalling from an environment with multiple Sybase products	8
6.7 Uninstalling from an environment with ECDA Options and DirectConnect for z/OS Option	9
7. Software fixes in version 15.0	9
7.1 ECDA Option for Oracle	9
7.2 ECDA Option for ODBC	9
8. Known issues	11
8.1 ECDA general issues	11
8.2 ECDA Option for Oracle issues	13
8.3 ECDA Option for ODBC issues	13
9. Product compatibilities	16
10. Technical support	16
11. Other sources of information	16

Topic	Page
11.1 Sybase certifications on the Web	17
11.2 Sybase EBFs and software maintenance	17
12. Accessibility features	18

1. EBF downloads for security fixes

Due to possible security vulnerabilities, Sybase® strongly recommends that you use the appropriate EBF to fix these issues. For instructions, see the Urgent Customer Notification Web page at

http://www.sybase.com/detail_list?id=9812&pageNum=1&multi=true&show=4666&show2=&timeframe=

Known issues described in this release bulletin may have been fixed in other EBFs released for this product. Get EBFs and maintenance reports describing latest fixes from the Sybase Web site at <http://www.sybase.com/support>.

2. 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 Documentation Web site.

❖ Accessing release bulletins at the Sybase Product Documentation Web site

- 1 Go to Product Documentation 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.

3. Product names and packaging

In Enterprise Connect Data Access (ECDA) 15.0, the ECDA Option for DB2 UDB and the ECDA Option for Microsoft SQL Server have been merged into the ECDA Option for ODBC. There are two options for ECDA 15.0:

- ECDA Option for ODBC
- ECDA Option for Oracle

4. Product summary for version 15.0

Enclosed is ECDA version 15.0, which is built on Open Client™ 15.0 and Open Server™ 15.0 ESD #9. ECDA provides access to distributed data. For more information, see the Enterprise Connect Data Access *Overview Guide*.

4.1 Version contents

ECDA 15.0 includes the following:

- Program CDs
- Installation documentation and all product documentation on CD

Warning! Sybase does not supply back-end drivers with ECDA to provide connectivity to non-Sybase target databases. You must obtain a separate license from Microsoft, Data Direct, or other vendors, for the ODBC driver that is needed on the particular platform where ECDA is running.

There is a list of back-end drivers that Sybase supports on the Certification Web site at <http://certification.sybase.com>.

Table 1 shows the contents and product ID numbers for ECDA 15.0.

Table 1: ECDA 15.0 product set

Product/Documentation	Product ID
ECDA Options for Windows CD	CD68123-55-1500-01
ECDA Client CD	CD68122-55-1500-01
SyBooks™ CD	CD30002-55-1500-01
Getting Started CD	CD00233-55-1500-01
Enterprise Connect Data Access <i>Overview Guide</i>	DC32757-01-1500-01
Enterprise Connect Data Access for Microsoft Windows <i>Installation Guide</i>	DC39550-01-1500-01
Enterprise Connect Data Access <i>New Features</i>	DC20173-01-1500-01
Enterprise Connect Data Access and Mainframe Connect™ <i>Server Administration Guide</i>	DC35365-01-1500-01
Enterprise Connect Data Access Option for ODBC <i>Users Guide for Access Services</i>	DC38454-01-1500-01

Product/Documentation	Product ID
Enterprise Connect Data Access Option for Oracle <i>Server Administration and Users Guide</i>	DC34201-01-1500-01
Enterprise Connect Data Access for Microsoft Windows <i>Release Bulletin</i>	DC74920-01-1500-01

4.2 Hardware and software requirements

Following are system requirements for ECDA Options and DirectConnect Manager for Windows.

4.2.1 System requirements for ECDA Options

Following are minimum system requirements for ECDA options for version 15.0.

Table 2: ECDA 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 ECDA products.
Software	<ul style="list-style-type: none"> • Microsoft Windows 2000 Service Pack 4 • Microsoft Windows 2003 • Microsoft Windows XP Service Pack 1 • Microsoft Data Access Component (MDAC) version 2.8 or later. This is required for the ECDA server machine and the machine running ASE®.
Storage	A minimum of 300MB, plus at least 500KB for each <i>locale</i> you plan to support.

4.2.2 System requirements for DirectConnect Manager

Following are the minimum system requirements for DirectConnect Manager:

Table 3: DirectConnect Manager system requirements

Item	Requirements
CPU	Sybase recommends a Windows Pentium class processor with a minimum of 300 megahertz.
RAM	Minimum of 256MB.

Item	Requirements
Software	<ul style="list-style-type: none">• Microsoft Windows 2000 Service Pack 4• Microsoft Windows 2003• Microsoft Windows XP Service Pack 1
Storage	Minimum of 75 - 100MB.
Network access	Network access to ECDA servers.

5. Changed functionality in this version

For a summary of the new features available for ECDA 15.0, refer to the Enterprise Connect Data Access 15.0 *New Features* document.

6. Special installation and configuration instructions

The following special installation instructions either replace existing documented instructions or are new installation instructions that were created after the release of ECDA version 15.0.

Note On Windows, ECDA links the Microsoft version of the ODBC Driver Manager. This allows customers to use third party ODBC Drivers with Windows-based ECDA and removes customers and Sybase from any ODBC driver vendor restriction.

6.1 ODBC back-end (target-side) drivers

Unlike prior releases, Sybase does not supply drivers with ECDA Option for ODBC to provide connectivity to non-Sybase target databases, such as DB2 UDB and Microsoft SQL Server. You must obtain a separate license from IBM, Microsoft, Data Direct, or other vendors, for the ODBC driver that is needed on the particular platform where ECDA Option for ODBC is running.

For ECDA Option for Oracle, the connectivity to Oracle is included.

6.2 Migration utilities

Due to directory structure changes, you can not use utilities to migrate to a newer installation. For example, ECDA 12.x to an ECDA 15.x.

6.3 Editing the *sql.ini* file

If you do not use dsedit to edit the *sql.ini* file, you must run the ECDA related execution scripts to change the local version of *sql.ini* (located in `<install_dir>\DC-15_0\connectivity\ini\sql.ini`) to the global version. The global versions are at:

- For ECDA Option for ODBC, in:

`<install_dir>\DC-15_0\ini\sql.ini`

- For ECDA Option for Oracle, in:

`<install_dir>\DC-15_0\ini\sql.ini`

6.4 Special installation and configuration instructions for ODBC

Windows Server 2003 includes a 64-bit version of the Microsoft ODBC Data Source Administrator, which is the default Administrator application located in the Windows Control Panel under Administrative Tools. Its icon is named Data Sources (ODBC).

The 64-bit ODBC Administrator is named *odbcad32.exe*, and is located in the `%systemroot%\system32` folder in a different directory than the 32-bit.

Note The 64-bit icon and the associated 64-bit ODBC Administrator should not be used for creating or configuring ECDA Data Sources.

6.4.1 Creating and configuring 32-bit data sources

In place of the 64-bit version, use the 32-bit ODBC administrator, named *odbcad32.exe*, which is located in the `%systemroot%\SysWOW64` folder.

❖ **To use the 32-bit ODBC Data Source Administrator**

- 1 Click Start on your desktop.
- 2 Click Run.
- 3 In the Open box, enter:

`%systemroot%\SysWOW64\odbcad32`

- 4 Click OK.

Note The 64-bit version of Microsoft ODBC Data Source Administrator must be closed before you can open the 32-bit version. For example, an attempt to execute the 32-bit version while the 64-bit version is running causes the 64-bit version to continue processing and prevents the 32-bit version from opening for administration.

6.4.2 Modifying 32-bit data sources

Under most circumstances, modification of data source entries and driver values is not required. In some instances, such as workaround strings to data sources, a registry string modification is required. The registry in 64-bit versions of Windows is divided into 32-bit and 64-bit keys. The default 64-bit version of Registry Editor (*regedt32.exe*) that is included with 64-bit versions of Windows displays both 64-bit keys and 32-bit keys. It may be used to make modifications to the 32-bit registry key changes required by ECDA.

The 32-bit version of Registry Editor may also be used to change the 32-bit keys required by ECDA. The 32-bit Registry Editor version named *regedit32.exe*, is located at:

```
%systemroot%\SysWOW64
```

❖ **To use the 32-bit Registry Editor**

- 1 Click Start on your desktop.
- 2 Click Run.
- 3 In the Open box, enter:

```
%systemroot%\SysWOW64\regedit
```

- 4 Click OK.

The 32-bit registry values used by ECDA are located under the 32-bit programs registry key in the directory: *HKEY_LOCAL_MACHINE\Software\ODBC*.

The 64-bit Registry Editor displays the 32-bit registry values used by ECDA in the following directory:

```
HKEY_LOCAL_MACHINE\Software\WOW6432Node.
```

6.5 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, 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 program overwrites existing files with the same name. However, 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 instances, you want the <i>newer</i> version of the files on the system and should choose not to overwrite them.
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 (for example, %SYBASE%) are reset to the directory where the last Sybase product was installed. As a result, 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>

6.6 Uninstalling from an environment with multiple Sybase products

	<p>Uninstalling Sybase products from environments that contain multiple Sybase products may affect the operation of the remaining Sybase products.</p> <p>This occurs because Sybase products frequently share modules or files, such as Connectivity files (in the Sybase <i>OCS-15_0</i> directory), JVM files (in the <i>shared</i> or <i>shared-1_0</i> directories), language modules, and Sybase Software Access Management (SySAM) files.</p>
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. Therefore, if you choose to uninstall one of the products that share files, you must be careful in removing files that the remaining products may require and cause the products to fail.
Change to variable settings	Removing Sybase products may result in changes to the system variable settings, which may also impact the operation of the remaining products or services.

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

To uninstall when there is an ECDA Option and a DirectConnect for z/OS Option 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.

7. Software fixes in version 15.0

Table 4 and Table 5 list the problems that were fixed for the ECDA version 15.0. Each issue contains a description, resolution, and the associated Quality Tracking System (QTS) number.

7.1 ECDA Option for Oracle

Table 4 lists the issues that were fixed for ECDA Option for Oracle.

Table 4: Description of software fixes for ECDA Option for Oracle

Target DBMS	Description	Resolution	QTS #
Oracle	CLOB data not replicating correctly.	Unitext support is now available in Oracle.	468731
	Replace SySAM 1.0 with new version SySAM 2.0.	SySAM 2.0 is part of the version ECDA 15.0 codeline.	465504

7.2 ECDA Option for ODBC

Table 5 lists the issues that were fixed for ECDA Option for ODBC.

Table 5: Description of software fixes for ECDA Option for ODBC

Target DBMS	Description	Resolution	QTS #
All	<i>AddWinService.bat</i> Windows Service Method no longer supported.	The ServiceWrapper.exe method replaces <i>AddWinService.bat</i> method to run ECDA as a Windows Service.	469450

Target DBMS	Description	Resolution	QTS #
	Changes to CIS for ASE release 15.0.1 require ECDA 15.0 changes to take advantage of the optimizer	Adds support for the convert function in SQL transformation.	469044
	The connection test utility, odbct, results in segmentation fault	Updated driver manager load mechanism	462951
	Stopping the Windows service leaves an orphaned <i>directc.exe</i> process in Task Manager	Modified stop service handling to correctly clean up the server	455831
	A template transfer using a stored procedure failed.	Sybase now supports stored procedures in a template transfer.	416251
	A null character data caused SQL statement truncation.	Null characters and binary zeros in SQL statement are now stripped when the StripBinaryZero property is set.	291774
DB2 UDB	Incorrect date formatting occurred with only 3 digit years.	For DB2, dates are correctly formatted with all 4 digits.	421328
	The sp_who stored procedure caused a segmentation fault in DB2.	Result handling was corrected to allow zero row result set for DB2 targets.	420094
	SQL statements for DB2 containing SUBSTRING should be changed or transformed to SUBSTR.	SUBSTR is now used for DB2 targets.	402619
	ASE/CIS cursor date parameter was bound as datetime for DB2.	The date parameter is now bound as date.	402362

Target DBMS	Description	Resolution	QTS #
Microsoft SQL Server	Replication of untext fails	Added support for untext data from Sybase Replication Server 15.0.	468731
	WCHAR columns caused a failure in sp_columns.	WCHAR columns are now supported in sp_columns.	417657
	ReturnNativeError = yes returned an error message instead of MSSQL error message.	ReturnNativeError = yes now returns a MSSQL error message.	404658
	Null text column result failed when tracing was set to "on."	The method of sending null result value is changed.	401899
	The NTEXT datatype mapped incorrectly through ASE/CIS.	sp_columns is adjusted for NTEXT datatype and XNL settings.	392089
	Conflicting datatype was returned in sp_columns when mapping Unicode to text.	The problem in sp_columns is fixed for both cspcolumnODBCVersion = 2 and 3.	354091

8. Known issues

Following are known problems in ECDA in version 15.0:

- ECDA general issues
- ECDA Option for Oracle issues
- ECDA Option for ODBC issues

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

8.1 ECDA general issues

This section contains general issues for ECDA Option for ODBC and ECDA Option for Oracle.

8.1.1 Connection limits for 1MB thread stack and 32-bit address

(CR 430207) Because ECDA uses a 1MB thread stack size, on 32 bit Windows machines, the maximum client connections is limited to approximately 1900 connections. Certain Windows operating systems allow the 4GT RAM tuning option, which can provide even more connections.

8.1.2 Information printed to screen at start up

(CR 472988) The SySAM 2 library issues erroneous messages at start up. These can be ignored.

8.1.3 Extended Encrypted Passwords

ct-lib-based clients enabling extended password encryption (CS_SEC_EXTENDED_ENCRYPTION=CS_TRUE) must set CS_SEC_NON_ENCRYPTION_RETRY = CS_TRUE to connect to ECDA's. The initial connection attempt using the encrypted password fails, but after you set CS_SEC_NON_ENCRYPTION_RETRY = CS_TRUE, ct-lib automatically resends the password as plain text.

8.1.4 ECDA not visible in Windows 2003 Task Manager

(CR 473018) You can start and use ECDA as a service, but it is not visible in the Windows 2003 Task Manager.

Workaround: Use other Windows utilities to monitor service processes.

8.1.5 Editing sql.ini with a word processing program

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.

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

8.1.6 Uninstall function not removing all ECDA files

When you use InstallShield's Uninstall function from the Start menu, it does not remove all ECDA server files. Be sure to verify the files and manually remove any that remain.

Note Uninstalling ECDA leaves the SYSAM-2_0 and UAF components, along with various logs and configuration files that were not created during installation time.

8.2 ECDA Option for Oracle issues

Following are issues pertaining to ECDA for Oracle.

8.2.1 Multiple services having different admin user IDs and passwords causes an error

CR429661) DirectConnect Manager fails with a null pointer exception when two ECDA for Oracle services have different admin user IDs or passwords.

The problem is in ECDA for Oracle, a result of the admin login security being controlled by the remote Oracle database defined in the service connection string. When multiple services connect to different Oracle servers and each of those Oracle database logins are different, the login to the remote Oracle database server fails when the service is clicked on.

Workaround: If multiple ECDA for Oracle services connect to different Oracle databases, verify that the Oracle user ID and password is common to all Oracle databases.

8.2.2 Removing ECDA Option for Oracle setup as a Windows service

The ECDA uninstall process does not remove the Windows service. After you configure ECDA Option for Oracle as a Windows service, you must remove the service using the steps described in section "Installing a DirectConnect server as a Windows service" in the *ECDA Option for Oracle Server Administration and Users Guide*.

8.3 ECDA Option for ODBC issues

This section contains issues that pertain to ECDA Option for ODBC.

8.3.1 Service information added to a local *sql.ini* file

If you add ECDA service information to a local *sql.ini* file, ECDA issues the following error message during start up:

```
CT-LIBRARY error:
ct_connect(): directory service layer: internal
directory control layer error: Requested server name not
found.
```

You must add ECDA service information to the global *sql.ini* file instead of the local *sql.ini* file.

The global *sql.ini* file is located in `<install_dir>\ini\sql.ini`. The local *sql.ini* file is located in `<install_dir>\DC-15_0\connectivity\ini\sql.ini`.

8.3.2 Admin Service *user.pwd* file

The Admin Service of ECDA 15.0 has been changed from to read and write encrypted passwords to the *user.pwd* file. Earlier versions of *user.pwd* files are not supported with ECDA 15.0 and will result in administrator login failures.

Workaround: To fix this problem reenter the Administrator IDs and passwords from earlier installations to the new Admin Service.

8.3.3 Service Name Redirection default value

The default *server.cfg* file does not give *snrf.tbl* as the default value.

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
```

8.3.4 Express transfer *char* datatypes

Express transfer does not support the transfer of *char* datatypes to and from decimal datatypes.

Workaround: Convert query datatypes from *char* to decimal datatypes in the transfer query statement by using the SQL CAST function.

8.3.5 Express transfer *text* datatypes

Express transfer does not support the transfer of *text* datatypes to and from *char* datatypes.

Workaround: Convert query datatypes from text to char datatypes in the transfer query statement by using the SQL CAST function.

8.3.6 DB2 UDB Target

Following are issues pertaining to ECDA Option for ODBC.

Setting WorkArounds2 value for space padding

(For DataDirect drivers only) For space padding, you need to verify that a special string key, the WorkArounds2=131072 string value is defined in the Windows registry. This allows the driver to pad DB2 char for bit data fields with spaces instead of binary zeros. Repeat the process for each DB2 UDB Data Source Name (DSN) that you are going to use with ECDA Option for ODBC. See the Enterprise Connect Data Access *Installation Guide* for Microsoft Windows, Chapter 5, the section titled, “Add the WorkArounds2 string key to pad DB2 character data.”

CLOB and BLOB datatypes

CLOB data is limited to 32K. BLOB datatype is not supported.

Workaround: Use DirectConnect for z/OS Option.

8.3.7 Microsoft SQL Server Target

Following are issues pertaining to ECDA Option for ODBC.

NCHAR and NVARCHAR datatype support

Microsoft NCHAR and NVARCHAR datatypes are not supported but are translated to the single-byte character set of the operating system. Unicode characters that cannot be mapped are translated to a default character for the operating system.

Service Pack version

If your Microsoft SQL Server 2000 is not at Service Pack 3 or later, set QuotedIdentifiers=yes for the DSN entry for accessing Microsoft SQL Server.

Read-only cursors fails to return error messages

(CR 425343) Update of read-only cursors fails to return errors against Microsoft SQL Server 2005.

9. Product compatibilities

ECDA 15.0 is compatible with:

- Sybase Open Client 15.0 ESD #9 and later
- ASE version 15.0 and later
- Sybase Replication Server® 15.0 and later
- jConnect™ for JDBC™ for 6.0 and later
- DirectConnect Manager 12.6.1 and later

Warning! ECDA 15.0 cannot be installed in the same directory tree with ASE 11.x and later, or with Sybase Replication Server 11.x and later.

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 and the Sybase Product Documentation Web site to learn more about your product:

- The Getting Started CD contains release bulletins and installation guides in PDF format. 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 Sybase Product Documentation Web site is accessible using a standard Web browser. In addition to product documentation, you will find links to EBFs/Maintenance, Technical Documents, Case Management, Solved Cases, newsgroups, and the Sybase Developer Network.

To access the Sybase Product Documentation Web site, go to Product Documentation 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 Click Partner Certification Report.
- 3 In the Partner Certification Report filter select a product, platform, and timeframe and then click Go.
- 4 Click a Partner Certification Report title to display the report.

❖ Finding the latest information on component certifications

- 1 Point your Web browser to Availability and Certification Reports at <http://certification.sybase.com/>.
- 2 Either select the product family and product under Search by Base Product; or select the platform and product under Search by Platform.
- 3 Select Search to display the availability and certification report for the selection.

❖ 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.

12. Accessibility features

This document is available in an HTML version that is specialized for accessibility. You can navigate the HTML with an adaptive technology such as a screen reader, or view it with a screen enlarger.

ECDA version 15.0 and the HTML documentation have been tested for compliance with U.S. government Section 508 Accessibility requirements. Documents that comply with Section 508 generally also meet non-U.S. accessibility guidelines, such as the World Wide Web Consortium (W3C) guidelines for Web sites.

Note You might need to configure your accessibility tool for optimal use. Some screen readers pronounce text based on its case; for example, they pronounce ALL UPPERCASE TEXT as initials, and MixedCase Text as words. You might find it helpful to configure your tool to announce syntax conventions. Consult the documentation for your tool.

For information about how Sybase supports accessibility, see Sybase Accessibility at <http://www.sybase.com/accessibility>. The Sybase Accessibility site includes links to information on Section 508 and W3C standards.

See Section 508 compliance statement for DirectConnect Manager for Voluntary Product Assessment Templates at http://www.sybase.com/detail_list?id=52484.