Release Bulletin
Enterprise Connect™ Data Access 15.0
for Linux and UNIX

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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   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

In Enterprise Connect™ Data Access 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

Note The ECDA Option for Informix is no longer supported.

3. Product summary for version 15.0

Enclosed is ECDA 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.*

3.1 Version contents

ECDA 15.0 includes the following:

•   Program CDs

•   Installation documentation and all product documentation on CD

Warning! Sybase does not supply drivers with ECDA to provide connectivity to non-Sybase target databases. You must obtain a separate license from IBM, DataDirect, 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 Sun Solaris CD	CD68121-55-1500-01
ECDA Options for IBM RISC/6000 AIX CD	CD68125-55-1500-01
ECDA Options for Linux CD	CD68127-55-1500-01
ECDA Options for HP-UX CD	CD68547-55-1500-01
ECDA Options for HP Itanium CD	CD60564-55-1500-01
ECDA Client DVD	DV68122-65-1500-01
SyBooks™ CD	CD30002-55-1500-01
Getting Started CD	CD00233-55-1500-02
Enterprise Connect Data Access *Overview Guide*	DC32757-01-1500-01
Enterprise Connect Data Access for Linux and UNIX *Installation Guide*	DC39555-01-1500-02
Enterprise Connect Data Access *New Features*	DC20173-01-1500-01
Enterprise Connect Data Access and Mainframe Connect *Server Administration Guide*	DC35365-01-1500-01
Enterprise Connect Data Access Options for ODBC *Users Guide for Access Services*	DC38454-01-1500-01
Enterprise Connect Data Access Option for Oracle *Server Administration and Users Guide*	DC34201-01-1500-01
Enterprise Connect Data Access for Linux and UNIX *Release Bulletin* (this document)	DC74921-01-1500-02

3.2 Hardware and software requirements

This section contains hardware and software requirements for ECDA on Linux and UNIX platforms and for DirectConnect™ Manager.

Note Currently, only TCP/IP connectivity is supported for DB2 UDB.

3.2.1 System requirements for UNIX platforms

Following are the minimum system requirements for HP 9000 (8xx), HP Itanium, RISC/6000 AIX, Sun Solaris, and Linux. The software requirements section identifies required software for specific ECDA products.

Table 2: System requirements for UNIX platforms

Item	HP 9000(8xx)	RISC/6000 AIX	Sun Solaris	Linux	HP Itanium
CPU	HP 9000/800	IBM RISC System/6000	Sun Solaris (SPARC) system	Intel-compatible	Itanium Processor Family (IPF)
RAM	256MB, minimum.	256MB, minimum	256MB, minimum	256MB, minimum	256MB, minimum
Storage	Minimum of 300MB, and at least 500KB for each *locale* you support	Minimum of 300MB, and at least 500KB for each *locale* you support	Minimum of 300MB, and at least 500KB for each *locale* you support	Minimum of 300MB, and at least 500KB for each *locale* you support	Minimum of 300MB, and at least 500KB for each *locale* you support
Software requirements					
Platform requirements	HP-UX 11.23	AIX 5.3	Sun Solaris 2.9 and 2.10	• Linux Red Hat 3.0, 4.0, and 5.0 • SuSE 9.0 and 10	HP-UX 11.31 ia64
ODBC driver	ODBC 3.5-compliant driver to access the targeted database, on the same platform where you are using ECDA for ODBC (DB2 UDB Target DBMS).				

Note (*For AS/400 only*) If the target database is an iSERIES server running at operating system level 5VR2M0 or 5VR3M0, you need to install the Program Temporary Fix (PTF) SF99502:520 DB2 UDB for iSERIES.

3.2.2 System requirements for DirectConnect Manager

Following are minimum system requirements for DirectConnect Manager:

Table 3: DirectConnect Manager system requirements

Item	HP 9000(8xx)	RISC/6000 AIX	Sun Solaris	Linux	HP Itanium
CPU	HP 9000/800 and 900	IBM RISC System/6000	Sun Solaris (SPARC) system	Intel-compatible	Itanium Processor Family (IPF)
RAM	256MB minimum	256MB minimum	256MB minimum	256MB minimum	256MB minimum
Storage	75-100MB minimum	75-100MB minimum	75-100MB minimum	75-100MB minimum	250MB minimum
Platform requirements	HP-UX 11.23	AIX 5.3	Sun Solaris 2.9 and 2.10	• Linux Red Hat 3.0, 4.0, and 5.0 • SuSE 9.0 and 10.0	HP-UX 11.31 ia64

4. 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.

5. 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 15.0.

5.1 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, DataDirect, 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.

Note Version 9.1 of the IBM 64-bit ODBC driver has a new file name: *libdb2o.so*.

5.2 Migration utilities

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

5.3 Editing the *interfaces* file

If you edit the *interfaces* file directly without using dsedit, you can edit the global interfaces file (located in *<install_dir>/interfaces*) or the local interfaces file located in *<install_dir>/DC-15_0/connectivity/interfaces*), because the local version is a soft link to the global version.

5.4 Configuring the data source for DB2 UDB targets

(CR397278) When you configure the data source to connect to DB2 UDB targets, (for DataDirect only) specify the following parameters in the Bind parameter:

- Package Collection – Enter the collection or location name where the driver creates the bind packages and searches for them when required. The default is NULLID.

- Package Owner (*optional*) – Enter the AuthID assigned to the package. The DB2AuthID must have authority to execute all the SQL commands in the package.

5.5 Installing multiple products on the same machine

Perform the following tasks 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 the environment variable settings.

Overwrite older
existing files

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 those being installed, the installation procedure prompts you to specify whether or not to overwrite the existing files. In most instances, you want the *newer* version of the system files and should choose not to overwrite them.

5.6 Uninstalling from an environment with multiple Sybase products

Uninstalling Sybase products from environments that contain multiple Sybase products may affect the operation of the remaining Sybase products. This occurs because Sybase products frequently share modules or files, such as connectivity files (in the Sybase *OCS-15_0* 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. Therefore, if you 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.

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

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 the uninstall procedure, you may need to manually delete files that may not have been removed.

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6. Software fixes in version 15.0

This section describes the known problems that were fixed for ECDA 15.0. Each issue contains a description, a resolution, and the associated Quality Tracking System (QTS) number.

6.1 ECDA Option for Oracle

Table 4 shows the issue that was fixed for ECDA Option for Oracle.

Table 4: Software fix for ECDA Option for Oracle

Target DBMS	Description	Resolution	QTS #
Oracle	Replaced SySAM 1.0 with the new SySAM 2.0.	SySAM 2.0 is part of the ECDA 15.0 codeline.	465504

6.2 ECDA Option for ODBC

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

Table 5: Software fixes for ECDA Option for ODBC

Target DBMS	Description	Resolution	QTS #
All	Incorrect date formatting occurred with only 3-digit years.	Dates are correctly formatted with all 4 digits.	421328
	Column names containing "$" were not correctly SQL transformed.	SQL transformation now supports "$" in column names.	417800
Microsoft SQL Server	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 a Microsoft SQL error message.	ReturnNativeError = yes now returns a Microsoft SQL error message.	404658
	Null text column result failed when tracing was set to "on."	The method of sending null result value was changed.	401899
	The NTEXT datatype mapped incorrectly through ASE/CIS.	sp_columns was adjusted for NTEXT datatype and XNL settings.	392089
	A conflicting datatype was returned in sp_columns when mapping Unicode to text.	The problem in sp_columns was fixed for both cspcolumnODBCVersion = 2 and 3.	354091
	A null character data caused a SQL statement truncation.	Null characters and binary zeros in SQL statement are now stripped when the StripBinaryZero property is set.	291774
DB2 UDB	The sp_who stored procedure caused a segmentation fault.	Result handling was corrected to allow zero row result set for DB2 targets.	420094
	SQL statements containing SUBSTRING would not change or be transformed to SUBSTR.	SUBSTR is now used for DB2 targets.	402619
	The ASE or CIS cursor date parameter was bound as a datetime datatype on DB2.	The date datatype parameter is now bound as a date datatype.	402362

7. Known issues

Following are known issues with ECDA 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 identified in this section, refer to the latest version of the ESD *README* file.

7.1 ECDA general issues

This section describes general issues that apply to all ECDA products.

7.1.1 Information printed to screen at start-up

(CR 472988) The SySAM 2 library issues several false messages at start-up. You can ignore this messages.

7.1.2 Extended Encrypted Passwords

Client-Library-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. 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.

7.1.3 Admin Service *user.pwd* file

The Admin Service of ECDA 15.0 is changed 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. To fix this problem, you must re-enter the administrator IDs and passwords from earlier installations to the new Admin Service.

7.1.4 Service name redirection default value

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 this line in the *server.cfg* file under the Client Interaction section:

```
ServiceRedirectionFile=snrf.tbl
```

7.1.5 InstallShield errors (HP-UX and HP Itanium only)

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

- When in GUI mode, the installation procedure displays "gif file not found" messages in 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. Also, some of the comments inserted into the response file are not formatted correctly and can be ignored.

7.1.6 Installation program may core dump (Linux only)

On Linux, if the LD_LIBRARY_PATH environment variable includes the ECDA *lib* directory path of a previous ECDA installation, the new installation session will perform a core dump.

Workaround: Un-set the LD_LIBRARY_PATH environment variable prior to the new installation.

7.1.7 Uninstall function not removing all ECDA files

InstallShield's uninstall function does not remove all the 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.

7.2 ECDA Option for Oracle issues

This section describes issues relating to ECDA Option for Oracle.

7.2.1 Multiple services using different Admin User IDs and passwords

(CR429661) DirectConnect Manager fails with a null pointer exception when two ECDA Option for Oracle services have different Admin User IDs or passwords.

The problem is in ECDA Option 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 Option for Oracle services connect to different Oracle databases, verify that the Oracle user ID and password is common to all Oracle databases.

7.3 ECDA Option for ODBC issues

This section describes issues that pertain to ECDA Option for ODBC only.

7.3.1 Warning sent for ODBCDriverManager property

(CR 474143) At start-up, ECDA Option for ODBC issues a warning that the ODBCDriverManager property is not set. ECDA issues this message because it uses the default configuration property, unixODBC, and does not find a value for this property in the *dcany.cfg* file. Because this message does not affect operation, you can safely ignore it.

7.3.2 Errors when loading an ECDA service other than *unixODBC*

(CR 475966) The DCany service generates these non-fatal errors when you configure it with ODBC drivers other than unixODBC (for example, ODBCDriverManager):

```
Function failed to load not a fatal error, function
unused: Function not implemented (SQLAllocHandleStd)
```

7.3.3 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.

7.3.4 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.

7.3.5 Errors in bulk transfer on Linux platform

When executing a bulk transfer on the Linux platform, ECDA Option for ODBC may report LONGCHAR errors and abort the transfer. When transferring character data through a Linux-based ECDA to an ASE 15.0, the transfer of char columns may fail. This results from a charset incompatibility between the Linux platform-based ECDA and ASE. The transfer may be attempting to move UTF-8 double-byte data into an ASE configured for single-byte characters like iso_1 or cp_850.

Workaround: Set the Linux *$LANG* variable to the desired name value found in the *locales.dat* file.

7.3.6 DB2 UDB target-specific issues

This section describes issues pertaining to ECDA Option for ODBC accessing the DB2 UDB database.

Host name as IP address causes failure on Sun Solaris

Specifying the host name as the IP Address causes a failure on some Sun Solaris systems.

Workaround: Specify the IP Number as the IP Address.

CLOB and BLOB datatypes

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

Workaround: Use the DirectConnect for z/OS Option.

7.3.7 Microsoft SQL Server target-specific issues

This section describes issues relating to ECDA Option for ODBC accessing Microsoft SQL Server.

Service Pack version

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

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.

Insert failures with ASE/CIS

(CR 275506) ASE/CIS is not correctly mapping the timestamp datatype, resulting in insert failures.

Read-only cursors fails to return error messages

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

8. Product compatibilities

ECDA 15.0 is compatible with:

- Sybase Open Client 15.0 ESD #9 and later
- ASE 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

9. Documentation updates and clarifications

In the Enterprise Connect Data Access 15.0 *Installation Guide* for Linux and UNIX, all references to the "Client CD" should be changed to "Client DVD." This change occurs due to the increased size required for the client software in this release.

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   Click Certification Report.

3   In the Certification Report filter select a product, platform, and time frame, and then click Go.

4   Click a 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 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.