

Release Bulletin Replication Server® Options 15.5 for Linux, Microsoft Windows, and UNIX

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Topic	Page
1. Accessing current release bulletin information	1
2. Product summary	2
2.1 Version contents	2
3. Special installation instructions	3
3.1 Replication Server Options licenses	3
3.2 Running InstallAnywhere and InstallShield Multiplatform installers	3
4. Known issues	3
4.1 Known issues for Oracle	4
4.2 Known issue for Microsoft SQL Server	5
4.3 Known issue for Replication Server with IBM AIX licensing	6
4.4 Known issue for Red Hat Enterprise Linux 5.0	6
5. Documentation updates and clarification	6
5.1 Replication Server Option 15.5 packaging does not include SyBooks CD	6
5.2 Updates to the ECDA manuals	7
5.3 Array processing requirement in ExpressConnect for Oracle	7
6. Technical support	7
7. Other sources of information	7
7.1 Sybase certifications on the Web	8
7.2 Sybase EBFs and software maintenance	9
8. Accessibility features	9

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 summary

The Replication Server® Options are available separately from Replication Server. To obtain any Replication Server Options, you must already have Replication Server.

You can use the Replication Server Options with Replication Server for bidirectional replication across distributed, heterogeneous systems, which allows you to perform different operational and decision-support tasks.

Replication Server Options are compatible with the same platform and operating system configurations as Enterprise Connect™ Data Access (ECDA) 15.0, ExpressConnect 15.5 for Oracle, and Replication Agent™ 15.5. For specific hardware and software requirements, see the *Enterprise Connect Data Access Release Bulletin*, the *ExpressConnect for Oracle Installation and Configuration Guide*, or the *Replication Agent Installation Guide*.

For more general information about the Replication Server Options, see the *Replication Server Heterogeneous Replication Guide*.

2.1 Version contents

Replication Server Options are available for Oracle, Microsoft SQL Server, and IBM DB2 Universal Database (UDB). Each option requires a license for accessing data only in the specified data source.

- *Replication Server Option for Oracle* consists of these components:
 - Express Connect for Oracle – licensed for Oracle
 - Replication Agent – licensed for Oracle
- *Replication Server Option for Microsoft SQL Server* consists of these components:

- ECDA Option for ODBC – licensed for ODBC
- Replication Agent – licensed for Microsoft SQL Server
- *Replication Server Option for IBM DB2 UDB* consists of these components:
 - ECDA Option for ODBC – licensed for ODBC
 - Replication Agent – licensed for IBM DB2 UDB

3. Special installation instructions

This section documents installation issues not covered in Replication Server Options installation guides.

3.1 Replication Server Options licenses

Review Chapter 3 of the *Sybase Software Asset Management 2 Users Guide*.

3.2 Running InstallAnywhere and InstallShield Multiplatform installers

Some of the files generated by InstallAnywhere and InstallShield Multiplatform share the same file names. This becomes an issue when you use both InstallAnywhere and InstallShield technologies to install or uninstall products in the same installation directory, because files that are used by both installers are overwritten or removed without warning. Sybase recommends that you do not use InstallShield and InstallAnywhere to install to or uninstall from the same installation directory.

4. Known issues

For known issues concerning Replication Agent and ECDA, see:

- *Replication Agent Release Bulletin*
- *Enterprise Connect Data Access Release Bulletin* for Microsoft Windows
- *Enterprise Connect Data Access Release Bulletin* for Linux and UNIX
- *Replication Server Release Bulletin* for your platform

The known issues for the Replication Server Options that are listed in the following sections are in addition to those described in the individual product release bulletins.

4.1 Known issues for Oracle

This section describes replication issues for Oracle.

4.1.1 Running ExpressConnect for Oracle with Replication Server 15.5

ExpressConnect 15.5 for Oracle has been tested with Replication Server 15.5 ESD #1 only and will not work with Replication Server 15.5.

Workaround: Use Replication Server 15.5 ESD #1 with ExpressConnect15.5 for Oracle.

4.1.2 Oracle XML table fails to replicate

[CR #629095] Replication Server cannot replicate the data manipulation language (DML) statements issued against an Oracle XMLType table.

Workaround: None.

4.1.3 ExpressConnect for Oracle does not support *opaque* datatypes

[CR #627878] The Replication Server opaque datatype is not supported in ExpressConnect for Oracle 15.5, which means that this version of ExpressConnect for Oracle will not be able to support user-defined datatypes and the Oracle anydata function.

Workaround: None.

4.1.4 ExpressConnect for Oracle fails when bulk copy is enabled and the bulk copy threshold is set to 1

[CR #626715] ExpressConnect for Oracle fails when you set `dsi_bulk_copy` to on and `dsi_bulk_threshold` to 1. Setting `dsi_bulk_threshold` to 1 not only deteriorates performance, it also suspends the Data Server Interface (DSI).

Workaround: Set `dsi_bulk_threshold` to 2 or higher.

4.1.5 DirectConnect fails with an error message when replicating XML

[CR #593055] ECDA does not support replication of XML data. When replicating a table with XML data, ECDA displays an error message stating that a column in the table does not exist.

Workaround: Migrate to ExpressConnect for Oracle.

4.1.6 No support for automatic failover when replicating into a RAC system

ECDA 15.0 and earlier supports replication into an Oracle instance, even if that instance is a node in a Real Application Cluster (RAC) system. However, if the configured node fails, ECDA 15.0 and earlier does not support automatically failing over to another node in the RAC system.

Note As of ECDA 15.0 ESD #1, automatic failover when replicating into a RAC system is supported.

Workaround: When the node that the ECDA service is connected to fails, reconfigure the ECDA service to use a different node in the RAC system.

4.1.7 LOB value not being applied to existing row

[CR #590128] When replicating a LOB column, ECDA for Oracle first determines the ROWID value for the Oracle row that should contain the LOB. The row for that ROWID is updated with the LOB value. However, if the table in the replicate Oracle database is a reference table, and the parent table is partitioned across multiple tablespaces, then the ROWID returned for the reference table may be incorrect, resulting in the LOB value not being applied to the expected row. The Oracle bug ID for this incorrect ROWID problem is 8417690.

Workaround: None.

4.2 Known issue for Microsoft SQL Server

This section describes a known issue specific to Microsoft SQL Server.

4.2.1 LOB support limitation

[CR #628883] Replication of Microsoft SQL Server 2008 partial LOB updates fails when using Replication Server 15.5.

Workaround: None.

4.3 Known issue for Replication Server with IBM AIX licensing

[CR #545622] Replication Server 15.2 and later on IBM AIX counts the total number of CPUs available to a partition. If you are running Replication Server with logical partitions, Replication Server on IBM AIX may fail to start and you may find that the number of CPUs reported is not as expected.

Workaround: Currently, Sybase Replication Server does not support subcapacity licensing for IBM LPAR. If you believe you may encounter this issue, contact Sybase Customer Support to raise a support incident.

4.4 Known issue for Red Hat Enterprise Linux 5.0

This section describes an issue when you are running Replication Server Options components on Red Hat Enterprise Linux 5.0.

4.4.1 Error while loading shared libraries

You may be unable to start Replication Agent or ECDA due to this error message:

```
Error while loading shared libraries.
```

Workaround: Check the system configuration and change the firewall configuration from enforcing to permissive. You must have root or sudo permission to make this change.

5. Documentation updates and clarification

This section describes clarification on Replication Server Option documentation.

5.1 Replication Server Option 15.5 packaging does not include SyBooks CD

Replication Server Option 15.5 does not include the SyBooks™ CD. To learn more about your product, use the Sybase Getting Started CD and the Sybase Product Manuals Web site. See “Other sources of information.”

5.2 Updates to the ECDA manuals

Considerations when using the ECDA manuals:

- The Sybase Data Integration Suite Replication which included ECDA, is no longer available. Disregard any mention of Sybase Data Integration Suite Replication in the ECDA documents.
- In Replication Server Option 15.5, the ECDA Option for Oracle has been replaced by ExpressConnect for Oracle, though ECDA manuals continue to mention the ECDA Option for Oracle. For information on ExpressConnect for Oracle, see the *ExpressConnect for Oracle Installation and Configuration Guide* and the *Replication Server Options Overview Guide*.

5.3 Array processing requirement in ExpressConnect for Oracle

Ensure that array processing in ExpressConnect for Oracle are applied only to tables that have a table-level replication definition. The performance enhancement provided by array processing within the ExpressConnect for Oracle connection require the information included in the table-level replication definition.

6. 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.

7. Other sources of information

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

- The Getting Started CD is included with your software and contains release bulletins, installation guides in PDF format, and other documents or updated information. 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.

You can also access the documents available on the Getting Started CD from the Sybase Product Manuals Web site.

- The Sybase Product Manuals Web site, which can be accessed using a standard Web browser, includes the Replication Server Options documents that are not included in the Getting Started CD. 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/>.

7.1 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.

7.2 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.

8. 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.

Replication Server Options 15.5 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.

The online help for this product is also provided in HTML, which you can navigate using a screen reader.

For a section 508 compliance statement for Replication Server Options, go to the Voluntary Product Assessment Template at http://www.sybase.com/detail_list?id=52484

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.