

Release Bulletin Mirror Activator™ 15.1 for Linux, Microsoft Windows, and UNIX

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Note Microsoft SQL Server is not a supported database in Mirror Activator 15.1. Disregard all information about Microsoft SQL Server in the Mirror Activator 15.1 documentation set.

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

Note Microsoft SQL Server is not a supported database in Mirror Activator 15.1. Disregard all information about Microsoft SQL Server in the Mirror Activator 15.1 documentation set.

Mirror Activator 15.1 consists of the following components:

- Mirror Replication Agent 15.1
- Replication Server 15.1
- Enterprise Connect™ Data Access (ECDA) Option for Oracle 15.0

Each Mirror Activator 15.1 solution package includes:

- Mirror Activator Getting Started CD
- Mirror Activator Sybooks CD
- Mirror Activator 15.1 platform-specific distribution media
- Replication Server 15.1 platform-specific distribution media
- ECDA Option for Oracle 15.0 platform-specific distribution media

For more information about the contents of the Mirror Replication Agent 15.1 distribution media, see the Mirror Replication Agent 15.1 *Installation Guide*.

For more information about the contents of the Replication Server 15.1 distribution media, see the Replication Server 15.1 *Installation Guide*.

For more information about the contents of the ECDA Option for Oracle distribution media, see the Enterprise Connect Data Access 15.0 *Installation Guide*.

3. Special installation instructions

For instructions on installing and configuring Mirror Activator components to function together in a replication system, see the Mirror Activator *Quick Start Guide*.

3.1 Special upgrade instructions for an ASE environment

You can “convert” an existing Replication Server warm standby application for ASE, with existing primary (active) and standby databases, to a Mirror Activator system by:

- Implementing a disk replication system to provide synchronous replication of the primary database log devices to mirror log devices at a remote (standby) site, and
- Replacing the ASE RepAgent thread in the primary database with the Mirror Activator.

For more information, see the Mirror Activator *Administration Guide*.

3.2 Empty directories after uninstalling

After uninstalling Mirror Activator components, some empty directories might be left. To safely remove them, go to the installation directory and delete the Mirror Activator directory (*MA-15_1*) and all its subdirectories and their contents.

4. Known issues

This section describes known issues for Mirror Activator 15.1.

4.1 Known issues for Red Hat Enterprise Linux 5.0

This section describes issues when running Mirror Activator components on Red Hat Enterprise Linux 5.0.

4.1.1 Error while loading shared libraries

You may be unable to start either Mirror Replication Agent or the ECDA option for Oracle due to an “error while loading shared libraries” message.

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

4.2 Known issues for Oracle

This section describes replication issues for Oracle.

4.2.1 No support for replicating certain datatypes

ECDA 15.0 or earlier does not support replicating the following Sybase datatypes:

- bigint
- unsigned bigint
- unsigned integer
- unsigned smallint
- unsigned tinyint
- unichar
- univarchar
- unitext

ECDA 15.0 or earlier does not support replicating the nclob Oracle datatype.

None of the replication components (Mirror Replication Agent, Replication Server, or ECDA) supports replicating the following Oracle datatypes:

- UROWID
- REF
- MLSLABEL
- Collections

- VARRAY
- Nested Tables
- Associative Arrays
- Oracle-supplied datatypes
 - “Any” Types (SYS.ANYTYPE, SYS.ANYDATA, SYS.ANYDATASET)
 - XML Types (XMLType, URIType, DBURIType, XDBURIType, HTTPURIType)
 - Spatial Types (MDSYS.SDO_GEOMETRY, SDO_TOPO_GEOMETRY, SDO_GEORASTER)
 - Media Types (ORDSYS.ORDAudio, ORDSYS.ORDImage, ORDSYS.ORDImageSignature, ORDSYS.ORDVideo, ORDSYS.ORDDoc, SI_StillImage, SI_Color, SI_AverageColor, SI_ColorHistogram, SI_PositionalColor, SI_Texture, SI_FeatureList)
 - Expression Filter Type
- Partitioned Tables
- Index-Organized Tables
- Oracle 10g Flashback feature (RecycleBin) and Flashback Recovery Area

Workaround: None.

4.2.2 Disabling triggers at the standby database

The results fired by a trigger at the primary database will normally be replicated to the standby database. In addition, the transaction that caused the trigger to fire will be replicated. This may result in duplicate information from both the trigger replicating to the standby database and the trigger firing at the standby database. To avoid potential duplication at the standby database, Replication Server attempts to set the `dsi_keep_triggers` configuration parameter to off at the standby database. However, Oracle does not support disabling trigger execution at the session or connection level.

Workaround: At the standby database, disable triggers that update tables while replication to the standby database is active.

4.3 Known issues for the Sybase installer

This section describes known issues with the Sybase installer that are not specific to a particular data server type.

4.3.1 Text fields cannot be viewed properly when you use a Hummingbird Exceed client

If you use Hummingbird Exceed from a Windows workstation to install Mirror Activator components on a UNIX host, you might not be able to view all of the text fields on the Sybase Installer windows.

Workaround: Use a native X-Windows session to run the Sybase installer, or run the Sybase installer in console or silent mode.

4.3.2 Uninstall program not available on HP-UX 11.23

[CR# 398447] The uninstall program is not created on HP-UX 11.23 platforms.

Note Although CR 398447 references ASE 15.0.1, it also applies to Mirror Activator 15.1.

Workaround: To uninstall Mirror Activator, run this command (*all on a single line*):

```
$JAVA_HOME/bin/java -classpath  
$SYBASE/uninstall/MA-15_1/uninstall.jar -Dtemp.dir=/var/tmp  
-Dis.jvm.home$JAVA_HOME -Dis.jvm.temp=1  
-Dis.launcher.file=$SYBASE/uninstall/MA-15_1/uninstall -Xms20m  
-Xmx60m run -console
```

where:

- `$JAVA_HOME` is the JRE 5 directory.
- `$SYBASE` is where you installed Mirror Activator.

4.3.3 Installing on AIX returns an erroneous error message

[CR#423825] During an installation on some versions of the AIX operating system, this message may display on the console:

```
tzmappings: Illegal format at near line 11
```

This issue does not cause any problems and may be ignored.

5. Documentation updates and clarifications

This section describes documentation updates and clarifications for Mirror Activator. For document updates and clarifications to Mirror Activator component documentation, see the release bulletins for Mirror Replication Agent 15.1, Replication Server 15.1, and ECDA 15.0.

5.1 Microsoft SQL Server is not a supported database

Microsoft SQL Server is not a supported database in Mirror Activator 15.1. Disregard all information about Microsoft SQL Server in the Mirror Activator 15.1 documentation set.

5.2 Homogeneous replication operating system compatibility

Mirror Activator was designed to handle replication between primary and standby databases residing on operating systems using a common byte order (endianness). Replication between like databases running on operating systems with different byte orders is not supported.

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, 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/>.

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 Certification Report.
- 3 In the Certification Report filter select a product, platform, and timeframe 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.

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.

Mirror Activator 15.1 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.

For a section 508 compliance statement for Mirror Activator, 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.