

Release Bulletin Risk Analytics Platform 2.0

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

Sybase strongly recommends that you always check the online support Web site for the latest software updates (ESD or EBF). See “Sybase EBFs and software maintenance” on page 14 for more information.

❖ 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 summary

Enclosed is Sybase® Risk Analytics Platform version 2.0, which is compatible with the following platform and operating system configurations:

- Sun Solaris 2.8/2.9/2.10 for 64-bit systems
- IBM P5 AIX 5.2/5.3 64-bit systems

The Risk Analytics Platform 2.0 package contains the following components:

- Sybase IQ 12.6
- Adaptive Server® Enterprise 15.0
- PowerDesigner® 11.0
- Risk Analytics Platform which includes a data model, configuration scripts, DDL scripts, manual and automated load scripts, sample data, and sample queries

2.1 Required Sybase IQ version level

After installing Sybase IQ 12.6, you *must* apply Sybase IQ 12.6 ESD 4.1 or the latest software update for your platform. See “Sybase EBFs and software maintenance” on page 14 for more information on downloading software updates.

2.2 Required PowerDesigner version level

After installing PowerDesigner 11.0, you *must* apply PowerDesigner 11.1 Maintenance Release and PowerDesigner 11.1 ESD #5 or the latest software update. See “Sybase EBFs and software maintenance” on page 14 for more information on downloading software updates.

For details on downloading and installing the PowerDesigner 11.1 Maintenance Release and latest ESD, refer to the section “Installing package components” in Chapter 1, “Sybase Risk Analytics Platform” in the *Risk Analytics Platform Installation and Configuration Guide*.

3. Special installation instructions

To install Risk Analytics Platform components, see the *Risk Analytics Platform Installation and Configuration Guide*, found on the Getting Started CD for Risk Analytics Platform along with this version 2.0 release bulletin.

Note

The components on the Risk Analytics Platform 2.0 product CD and the PowerDesigner 11.0 product CD are installed on a Windows system.

Adaptive Server Enterprise 15.0 and Sybase IQ 12.6 are installed on one of the supported platforms described in “Product summary” on page 2.

For information on other products supported for use with Risk Analytics Platform 2.0, see “Product compatibilities” on page 7.

3.1 Risk Analytics Platform

This section contains information related to the installation of the Risk Analytics Platform component of the Risk Analytics Platform 2.0 package.

3.1.1 File Download warning

When you start the *Setup.exe* file, Microsoft Internet Explorer may open the File Download dialog box with a warning about the file. You can ignore this warning. Click Open to continue the installation.

3.2 Adaptive Server Enterprise 15.0

This section contains information related to the installation of Adaptive Server Enterprise 15.0 as a component of Risk Analytics Platform 2.0.

3.2.1 Dedicated Adaptive Server Enterprise server

Sybase recommends that you use a dedicated Adaptive Server Enterprise server for Risk Analytics Platform.

Since the RAP reference tables and reference data are permanently loaded in the ASE model database, databases created for other applications using this ASE server will inherit these reference tables. Using a dedicated server eliminates this potential problem.

3.2.2 Special SySAM instructions for ASE 15.0

Starting with Adaptive Server Enterprise 15.0, configuration of the Sybase Software Asset Management System (SySAM) is no longer optional. You must obtain a valid license for your Adaptive Server Enterprise configuration. See the *Release Bulletin Adaptive Server Enterprise Version 15.0* for your platform for more information on SySAM implementation.

The Sybase Product Download Center (SPDC) enables authorized Revenue Order Contacts and Technical Support Contacts with current support contracts with download access to Sybase product releases. You must use SPDC to dynamically generate a license keys for Adaptive Server Enterprise 15.0. Accessing SPDC requires a separate login and password; authorized contacts automatically receive SPDC login and password information via e-mail.

Obtaining your license

After you have received your SPDC login ID and password, follow these steps to obtain your license for Adaptive Server Enterprise.

- 1 Start your browser and login to the Sybase Product Download Center (SPDC) at <https://sybase.subscribenet.com>.
- 2 On the Product List page, choose Sybase IQ.
- 3 On the Product Information page, choose your platform.
- 4 On the Product Download page, click the License Keys link.
- 5 On the Sybase Software Asset Management License Information page, select the radio button to the left of the applicable license. Click Select to Generate.
- 6 On the Generate Licenses page in Step 1 - License Model, choose the appropriate license model. Click Next.

Questions about your license type? Click the more information link to learn more about the licenses Sybase offers.
- 7 On the Generate Licenses page in Step 2 - License Quantity, specify the number of licenses you want to generate. Click on the links for more information.
- 8 On the Generate Licenses page in Step 3 - Host Information, add the Server Host ID, Host Name, and (optional) Port Number. Click Generate.

The View Licenses page displays your license information.
- 9 Click Download License File to save your license file to disk.

Activating your license

After you create your license, perform these steps while installing and configuring Adaptive Server Enterprise. Refer to the *Installation Guide Adaptive Server Enterprise Version 15.0* for your platform for the complete installation procedure.

- 1 Install ASE 15.0 on your host machine.

During installation, the setup wizard prompts you for license type. If your license type is DT (Development & Testing), choose License Type "Unknown."
- 2 After installation, shutdown ASE.
- 3 Copy the license file saved from SPDC to the `$SYBASE/SYSAM-2_0/licenses` directory on the host machine.

If you use FTP to transfer the license file, be sure to specify ASCII mode.
- 4 If you are using a served license, use the following command in the `$SYBASE/SYSAM-2_0/bin` directory to start the license server:

```
sysam start
```

5 Restart ASE.

To verify your license, you can run the `sp_lmconfig` stored procedure in Interactive SQL (isql) or check the ASE error log. In the ASE error log, a line beginning with "Checked out license..." indicates that the license configuration is successful. If you see a "Sysam: FLEXnet Licensing error:" message, check with your Sybase representative to resolve the issue.

Refer to the chapter "SySAM Configuration" in the *Configuration Guide Adaptive Server Enterprise Version 15.0* for your platform for more information on the use of SySAM.

3.2.3 ASE configuration parameter change

Set the "enable semantic partitioning" configuration parameter in the [SQL Server Administration] section equal to DEFAULT in the sample Adaptive Server Enterprise configuration file included with Risk Analytics Platform (%SYBASE%\Risk Analytics Platform 2.0\Scripts\RAP_Setup\ASE\RAP_ASE_Server.cfg):

```
enable semantic partitioning = DEFAULT
```

Risk Analytics Platform uses round-robin partitioning, so the semantic partitioning feature does not need to be enabled. The default value is 0 (disable semantic partitioning).

For information on modifying configuration parameters, refer to the Adaptive Server Enterprise 15.0 *System Administration Guide: Volume 1*.

3.3 Sybase IQ 12.6

This section contains information related to the installation of Sybase IQ 12.6 as a component of Risk Analytics Platform 2.0.

3.3.1 Installation of IQ 12.6 ESD fails on AIX [CR 399629]

After installing Sybase IQ 12.6, the installation of a subsequent ESD may fail with a "Text file busy" error. The AIX operating system is locking and holding in memory files that the installer is trying to update.

This problem is usually resolved by running the installer again. If the locks on the files are not released, then you should flush memory by running as the root user the AIX utility `/usr/sbin/sblibclean`.

3.4 PowerDesigner 11.0

This section contains information related to the installation of PowerDesigner 11.0 as a component of Risk Analytics Platform 2.0.

3.4.1 PowerDesigner 11.0 Product Key

The 22-digit Product Key necessary for PowerDesigner 11.0 installation is included on a printed document in the Risk Analytics Platform 2.0 package.

3.4.2 PowerDesigner Installation Guide and General Features Guide

The *PowerDesigner Installation Guide* and the *PowerDesigner General Features Guide* are included on the Risk Analytics Platform Getting Started CD.

4. Product compatibilities

Risk Analytics Platform 2.0 supports the use of the following products and product levels:

- Sybase Adaptive Server® Enterprise 15.0 GA
Sun Solaris SPARC: ASE 15.0 GA 64 Bit
IBM AIX: ASE 15.0 GA 64 Bit
- Sybase IQ 12.6 ESD #4.1
Sun Solaris SPARC: EBF 12865: 12.6 ESD #4.1 - 64 Bit
IBM AIX: EBF 12859: 12.6 ESD #4.1 - 64 Bit

4.1 Interoperability certification

Refer to the *Release Bulletin Risk Analytics Platform* for Risk Analytics Platform 1.0 for interoperability certification information. The version 1.0 Release Bulletin is available at the Infocenter Web site; go to Sybooks Online Help at <http://infocenter.sybase.com/help/index.jsp>

5. Known problems

The following sections describe known issues and provide workarounds or solutions.

5.1 Adaptive Server Enterprise load performance

Adaptive Server Enterprise load performance can be affected by both the amount of memory available on the machine and the size of the data set.

ASE must be configured with sufficient memory to hold the complete data set in the data cache. If for some reason ASE is not configured with sufficient memory, writes will go to disk. In such a scenario raw devices should be used for better performance.

With a small data set, if the file system cache is large enough, all data remains in the file system memory and no writes to disk are necessary. With a larger data set, however, the file system cache may become full, causing dirty buffers to be written to disk. The overhead of the writes to disk takes CPU time from both the server and the bcp utility, thus affecting load performance.

In those instances where there is not enough physical memory on the machine, you can improve overall load performance of large data sets by using raw devices, rather than file system devices. Writes are faster while using raw devices, as there is no double buffering as with file system devices. The initial load performance with a raw device may not be as good as with a file system device, but there is no performance drop over time and the total load time is less than the load time with a file system device.

To use raw devices rather than file system devices, change the *physname* specification in the disk init commands to the names of raw devices. Note that the disk init *dsync* parameter has no effect when initializing a raw device.

Keep in mind that the volume of data in a data set is considered large or small depending on the amount of memory on your machine. The more memory available to the file system cache, the larger the data set that can be handled efficiently by file system devices. If you can provide adequate memory to the file system cache after configuring ASE with sufficient memory, using raw devices may not be necessary.

5.2 SYBASE.csh error on AIX [CR 403816]

The following error may be returned when you execute *SYBASE.csh* installed by Sybase IQ 12.6:

```
Unmatched . "
```

To correct this problem, modify the *SYBASE.csh* file. The *SYBASE.csh* file is missing " (a double quote) in the following section of the file:

```
CASE AIX:
```

```
if ( $?LIBPATH == 0 ) setenv LIBPATH " "
setenv LIBPATH      ${SYB_LIB}:${LIBPATH}"
breaksw
```

Add the " in the second line before \${SYB_LIB} as follows:

```
CASE AIX:
```

```
if ( $?LIBPATH == 0 ) setenv LIBPATH " "
setenv LIBPATH      "${SYB_LIB}:${LIBPATH}"
breaksw
```

5.3 DBISQL error with large result set [CR 403319/384294]

When returning a large result set, Interactive SQL Java (dbisql) may return an "Out of memory" error and generate a stack trace. This error may occur when running the sample queries *hist_qry2.sql* and *hist_qry5.sql*.

To avoid this problem, turn off the dbisql option "Show multiple result sets." In dbisql, select Tools | Options | Results and deselect the "Show multiple result sets" option.

You can also avoid this problem by running these queries using Interactive SQL Classic (dbisqlc).

5.4 Automated load process does not return when stopped

When you run the *rap_stop_pl.sh* script to stop the automated load process, the process started by *rap_start_pl.sh* may not return to the prompt on the terminal where the process started.

Recommended workarounds for this issue are:

- Run *rap_start_pl.sh* in the Korn Shell on a UNIX terminal to start the automated load process to the RAP cache and the RAP repository.
- Run *rap_start_pl.sh* as a background process.
- After running *rap_stop_pl.sh*, manually close the terminal window where *rap_start_pl.sh* was run.

Note that you can run *rap_stop_pl.sh* in the C Shell, Bourne Shell, or Korn Shell from a UNIX terminal other than the terminal used to run *rap_start_pl.sh*.

5.5 Set executable privileges on scripts

Before running any of the RAP *.sh* shell scripts, be sure to set executable privileges on the script files to avoid "Execution permission denied" errors.

5.6 Automated load process receives DBISQL operation error [CR 406144]

The automated load process may receive an "ERROR in DBISQL operation" message in the terminal window and the automated load log (the *.err* file in the *\$IQ_DIR/log* directory) contains an "Unable to start database server" error. These errors may occur even though the Sybase IQ server is running, and the *IQ_ENGINE*, *IQ_UID*, *IQ_PWD*, *IQ_DB_QUOTE*, and *IQ_DB_TRADE* environment variables in the *\$RAP_HOME/set_rap_env_pl.sh* file are all set to the correct values.

These errors indicate there is a connection issue with the IQ server and none of the data files have been loaded to the IQ database.

To resolve this issue, perform these steps:

- 1 Stop the automated load process by running the script *\$RAP_HOME/rap_stop_pl.sh*.
- 2 Use a text editor to open the file *\$RAP_HOME/rap_tbl_dbisql_pl.sh* and locate this line in the file:

```
PARAMETER="uid="${USER_ID}";pwd="${PWD}";dbn="${DB}";
eng="${ENG}"
```

- 3 Change this line to:

```
PARAMETER="uid="${USER_ID}";pwd="${PWD}";dbn="${DB}";
eng="${ENG}";dbf=<Database File Name>;links=tcipip{port=
<Port Number>;host=<Host Name>}"
```

where <Database File Name>, <Port Number>, and <Host Name> are the actual database file name, the server port number, and the server host name, respectively.

- 4 Save the changes.
- 5 Copy the data files from the \$RAP_ARCH directory to the \$IQ_DIR directory.
- 6 Start the automated load process by running the script
\$RAP_HOME/rap_start_pl.sh.

6. Documentation for this version

All documentation for Risk Analytics Platform version 2.0 is included with your product shipment on CD:

- The Risk Analytics Platform Getting Started CD contains the release bulletin, installation guide, and user's guide 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 Risk Analytics Platform Getting Started CD also contains the release bulletin, installation guide, and user's guide in HTML format. You can navigate the HTML with an adaptive technology such as a screen reader, or view it with a screen enlarger.

- The Risk Analytics Platform product CD contains documentation for this release in Adobe Acrobat PDF format and Microsoft Excel format. This documentation is installed in the *\Documentation* subdirectory of the Risk Analytics Platform installation directory.

See the following table for a list of the Risk Analytics Platform 2.0 documentation.

Part number	Document name	Filename
DC00246-01-0200-01	<i>Release Bulletin Risk Analytics Platform</i>	<i>raprb.pdf</i>
DC00244-01-0200-01	<i>Risk Analytics Platform Installation and Configuration Guide</i>	<i>rapicg.pdf</i>
DC00245-01-0200-01	<i>Risk Analytics Platform User's Guide</i>	<i>rapug.pdf</i>
	<i>Risk Analytics Platform Impact Analysis</i>	<i>RAP_Impact_Analysis.xls</i>

Note The Microsoft Excel format document *Risk Analytics Platform Impact Analysis* is a list of table and column names used in each sample query, for understanding the impact of model or query changes.

You may also need to refer to the documentation for Sybase IQ 12.6, which is available on the Sybase IQ Sybooks™ CD and on the Infocenter Web site Sybooks Online Help at <http://infocenter.sybase.com/help/index.jsp>

You may also need to refer to the documentation for Adaptive Server Enterprise 15.0, which is available on the Adaptive Server Enterprise Sybooks™ CD and on the Infocenter Web site Sybooks Online Help at <http://infocenter.sybase.com/help/index.jsp>

The PowerDesigner 11.1 documentation is available on the PowerDesigner product CD and on the Sybase Product Manuals Web site. To access this site, go to Product Manuals at <http://www.sybase.com/support/manuals/>

7. 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.

8. Other sources of information

The Sybase Infocenter Web site includes an online version of the Risk Analytics Platform product manuals that you can access using a standard Web browser.

To access the Infocenter Web site, go to Sybooks Online Help at <http://infocenter.sybase.com/help/index.jsp>

8.1 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.

Note The Product Family for Risk Analytics Platform 2.0 is Sybase IQ.

- 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 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.

8.2 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.

Note The Product Family for Risk Analytics Platform 2.0 is Sybase IQ.

- 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.

9. 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.

The Risk Analytics Platform 2.0 documentation complies 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 information about accessibility support in the Sybase IQ plug-in for Sybase Central™, see “Using accessibility features” in Chapter 1, “Introducing Sybase IQ” in *Introduction to Sybase IQ*. The online help for Sybase IQ, which you can navigate using a screen reader, also describes accessibility features, including Sybase Central keyboard shortcuts.

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.

