

Release Bulletin EAServer 6.0 for Windows

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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 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

Enclosed is Sybase EAServer version 6.0, which is compatible with the following platform and operating system configurations:

- Microsoft Windows 2000, Service Pack 4 or later
- Microsoft Windows XP Professional, with Service Pack 2 or later
- Microsoft Windows Server 2003, Standard Edition or Enterprise Edition

2.1 Version contents

Enclosed is Sybase EAServer version 6.0, build 60093. You may have a later build number if you have installed ESD patches for this release. If so, the cover letters provided with each patch contain the build number and additional documentation.

Table 1 describes the products that EAServer 6.0 supports.

Table 1: Product support

Product	Supported versions/builds
Adaptive Server® Anywhere	9.0.2
Adaptive Server Enterprise	12.5.3 and 15.0
C++ compiler	VC++ 6.0
Eclipse	3.1

Product	Supported versions/builds
<i>JDK versions:</i>	
1.4	1.4.2_10
1.5	1.5.0_06
<hr/>	
Oracle client	9.2.0.1 and 10g
<hr/>	
<i>PBVMs:</i>	
10.2.1	9671
10.5	5063
<hr/>	
<i>Redirector plug-ins:</i>	
Apache	1.3.33 and 2.0.55
Sun Java System	6.1
IIS	5.x (6.0 for Windows 2003)
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Web browser	Internet Explorer 6.0

2.2 J2EE compliance

EAServer version 6.x complies with the Java 2 Platform, Enterprise Edition (J2EE) Specification, version 1.4 requirements, when operating in the following product configuration:

- EAServer Advanced Edition license
- Adaptive Server Enterprise 15.0 database, with the included jConnect™ for JDBC™ driver

Other EAServer 6.x product configurations may not fulfill the requirements of the J2EE Specification. For more information about the EAServer 6.x J2EE 1.4 compatibility branding, see the Sun J2EE 1.4 Compatibility page at http://java.sun.com/j2ee/compatibility_1.4.html.

3. Special upgrade instructions

The *EAServer Migration Guide* describes how to upgrade from EAServer 5.x to EAServer 6.0.

See “Migration tool issues” on page 6 for information about problems that are known to occur when migrating.

4. Changed functionality in this version

What's New in EAServer describes features added in this version. You can view this book on the Sybase Product Manuals Web site at <http://infocenter.sybase.com/help/index.jsp>. Browse to the EAServer 6.0 collection, then select this title. This manual is also available in HTML format in your installation.

5. Known issues

5.1 Daylight Saving Time

You may encounter problems with EAServer because of the earlier change to Daylight Saving Time—see Daylight Saving Time and Sybase Products at <http://www.sybase.com/detail?id=1050614>.

To avoid potential issues:

- 1 Upgrade EAServer to version 6.0.1.
- 2 Run the Sun tzupdater tool. You can download tzupdater from the Sun Developer Network Web site at <http://java.sun.com/developer/technicalArticles/Intl/tzupdatertool.html>.

5.2 Failure to obtain correct license file

(CR #430720) If you start EAServer using a remote desktop connection, the server does not obtain the correct license file.

Workaround: To enable the server to obtain the correct license file when you connect from a remote desktop, use a Virtual Network Computing (VNC) system, such as VMWare or RealVNC.

5.3 Running `configure.bat`

(CR #408976) If you run `configure.bat` on the command line to reconfigure the entity properties for an EAServer module, configuration fails if you specify either the full path to the user-configuration script or the `.xml` extension. For example, these commands fail:

```
configure %DJC_HOME%\config\module-user
configure module-user.xml
```

where *module-user.xml* is the user-configuration script for the EAServer module.

Workaround: Run:

```
configure module-user
```

where *module-user* is the name of the user-configuration script without the *.xml* extension.

5.4 PowerBuilder issues

5.4.1 Migrating PowerBuilder components

If you migrate PowerBuilder components from EAServer 5.x to 6.0, the migration tool does not generate CORBA/Java stubs automatically. If stubs are required, you must generate and compile them manually. See “Migrating CORBA components” on page 6.

5.4.2 EAServer profiles for JSP targets

(CR #406975) If you deploy a JSP target to EAServer, do not use a colon in the profile name. PowerBuilder™ writes EAServer profile information in *WEB-INF\classes\jaguar.properties*. If the EAServer profile name contains a colon, the related host name and port number cannot be retrieved from *jaguar.properties* at runtime.

5.4.3 Nontransactional components calling JagRollbackWork

(CR #434379) If a nontransactional component calls *JagRollbackWork*, no exception is thrown to the client. This is a version 6.0 change for transactional behavior.

5.4.4 Customer-defined HTMLGenerator

(CR #434381) If a customer defines an *HTMLGenerator*, it does not display in the PowerBuilder IDE.

5.4.5 Parameter names are not preserved in WSDL

(CR #437434) Parameter names are not preserved in the Web Services Description Language (WSDL) when you expose a component as a Web service. For example, if a component method has parameters *X* and *Y*, and you expose the component as a Web service, the Web-service method WSDL parameters are named *p1* and *p2*.

5.5 Migration tool issues

The following issues occur when migrating an earlier version of EAServer to version 6.0.

5.5.1 Migrating CORBA components

(CR #463349) When you migrate CORBA components (PowerBuilder, Java, or C++), the migration tool does not generate CORBA/Java stubs automatically. If stubs are required, you must generate and compile them manually.

Workaround:

- 1 On the command line, run:

```
idl-compiler.bat p_test.idl -f DJC_HOME\genfiles\java\src -java  
where DJC_HOME is the EAServer installation directory.
```

- 2 Change to %DJC_HOME%\genfiles\java\src\p_test, and run:

```
JDK_HOME\bin\javac -d DJC_HOME\genfiles\java\classes -classpath  
DJC_HOME\lib\eas-srvr-14.jar;DJC_HOME\java\classes *.java
```

where *JDK_HOME* is the JDK installation directory

5.5.2 Unencrypted password in migration.log

(CR #436926) If you connect to EAServer 5.x using an account with a password set from the migrate tool's GUI, the 5.x password is not encrypted in *migrate.log*.

Workaround: After you successfully migrate to EAServer 6.0, remove *migrate.log* from the production server.

5.5.3 Migrating Open Client Client-Library content

(CR #437181) The migrate tool does not migrate *sql.ini* content for Open Client Client-Library connections.

Workaround: Manually copy Open Client Client-Library connection information from the 5.x version of *sql.ini* to the 6.0 version.

5.6 Web service issues

This following Web service issues may occur.

5.6.1 Deployment fails for empty Web service

(CR #437435) To successfully deploy a Web service, it must contain at least one method.

5.6.2 Duplicating Web Services Registry names

(CR #435906) You can configure two Web Services Registries to have the same name, by changing the name of an existing Web Services Registry to the same name as another Registry.

5.6.3 Sorting Web services display

(CR #422161) The Management Console options to display Web services either alphabetically or in descending order by date do not work. Web services display in random order.

5.7 Help option for the wsh command line tool

(CR #436938) Other EAServer command line tools require a hyphen before the help option, but if you enter `wsh -help`, a system exception occurs, and a stack trace displays.

Workaround: To use the help option with the wsh command line tool, enter:

```
wsh help
```

5.8 SSLServiceProvider.getGlobalProperty

(CR #436638) The SSLServiceProvider method for checking the status of FIPS, SSLServiceProvider.getGlobalProperty("fips140"), has not been implemented in EAServer 6.0.

6. Documentation updates and clarifications

This section contains updates and clarifications for the EAServer product manuals.

6.1 CORBA Components Guide

6.1.1 Chapter 4, "Managing CORBA Packages and Components"

(CR #437366) CORBA-component package names cannot contain hyphens ("-"). CORBA-component packages are those that contain CORBA/C++, CORBA/Java, or PowerBuilder components.

6.1.2 Chapter 5, "Developing and Deploying PowerBuilder Components"

(CR #405138) You cannot use a hyphen ("-") in the name of a PowerBuilder NVO method or variable. EAServer wraps NVOs as EJBs, and Java does not support method or variable names that contain hyphens.

6.2 Migration Guide

6.2.1 Chapter 2, "Migrating to EAServer 6.0"

The migration tool does not automatically generate CORBA/Java stubs when you migrate CORBA components; therefore, if you migrate CORBA components that require stubs, they do not work until you manually generate and compile the stubs. See "Migrating CORBA components" on page 6.

6.3 Performance and Tuning Guide

6.3.1 Chapter 2, “Server Tuning”

(CR #438153) You can significantly improve the performance of network applications by configuring the network connection properties.

On Windows NT, Windows 2000, Windows NT, and Windows 2003:

- 1 In the Control Panel, select Network Connections.
- 2 Select the network connection that is currently in use, right-click, and select Properties.
- 3 Highlight File and Printer Sharing for Microsoft Networks, and select Properties.
- 4 Select Maximize Data Throughout for Network Applications, then select OK.

For a transaction rate of 30, the CPU usage decreases from approximately 100% most of the time to around 50%.

On Windows 2003, you can make further improvements:

- 1 Go to Start/Manage Your Server.
- 2 Select Add or Remove a Role.
- 3 Highlight Application Server (IIS,ASP.NET), and select Next three times. You may need the Windows installation CD to install all the necessary files.

In addition to decreasing CPU usage, this change increases the working-set size of the EAServer 6.0 process during runtime, from approximately 50MB to 1GB. 20 times more application data is available to EAServer, and the data can be accessed more quickly from physical memory than from the hard drive.

6.4 System Administration Guide

6.4.1 Chapter 14, “Systems Management”

(CR #437261) EAServer supports SNMP features that conform to the Java Specification Request JSR 77. The status of a server and its components are reported as MIB objects, which can be polled, and can also be reported as SNMP traps.

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

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/>.

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 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.

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.
- 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.

EAServer 6.0 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.

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

For information on using EAServer without a mouse, see “Keyboard navigation” in Chapter 2, “Management Console Overview,” in the *EAServer System Administration Guide*.

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.

For a Section 508 compliance statement for EAServer, go to Voluntary Product Assessments at http://www.sybase.com/detail_list?id=52484, and click the link for EAServer.