

# Release Bulletin EAServer 5.0 for Sun Solaris

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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.

### ❖ 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 EAServer version 5.0, build 50054. 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.

This EAServer release is compatible with the following platform and operating system configurations:

- Sun Solaris SPARC 2.8
- Sun Solaris SPARC 2.9

Verify that you have the required Solaris patches for 1.3, and 1.4. See these Web pages for more information:

- Installing the Java 2 SDK and Runtime Environment at <http://java.sun.com/j2se/1.3/README.sparc>

- Solaris Patches for Java 2 SDK version 1.3 Web site at <http://java.sun.com/j2se/1.3/install-solaris-patches.html>
- Solaris Patches for Java 2 SDK version 1.4 Web site at <http://java.sun.com/j2se/1.4/install-solaris-patches.html>
- The console may display error messages about missing fonts when you start the installation program. You can safely ignore these messages. See *Installing the Java 2 SDK and Runtime Environment* at <http://java.sun.com/j2se/1.3/README.sparc> for additional information.

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**Note** Solaris 2.8 is the same as Sun OS 5.8 and Solaris 8. Solaris 2.9 is the same as Sun OS 5.9 and Solaris 9.

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## 3. Special installation instructions

The *Installation Guide* describes how to install the software.

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### **Required JDK 1.4.1 patch level**

To use an existing JDK 1.4.1 installation with EAServer, the patch level must be 03, not 01 as listed in the *Installation Guide*.

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## 4. Changed functionality in this version

*What's New in EAServer* describes features added in this release. You can view this book on the Sybase Product Manuals Web site at <http://sybooks.sybase.com/eag.html>. Browse to the EAServer 5.0 (Core Documentation) collection, then select this title. This manual is also available in HTML format in your installation and in PDF (Acrobat) and DynaText (SGML) format on the Technical Library CD included with your software.

## 5. Known problems

This section describes known problems in this EAServer version.

## 5.1 EAServer Manager server configuration wizard

(CR #334665) In some cases, the restart option is disabled in the server configuration wizard when it is valid to restart the server; that is, you are connected to the server that you are configuring. You can restart the server after finishing the wizard by highlighting the server icon and choosing File | Shutdown and Start.

## 5.2 Systems Management

### 5.2.1 Net-SNMP functionality not supported

(CR # 343670) The Net-SNMP functionality is not supported in version 5.0 of EAServer Systems Management, but is scheduled to be supported in a future version. To view information about system components, you can use the Web console.

### 5.2.2 Web console and Netscape 7.x

(CR #342578) When you run the sample Systems Management Web console, you may be unable to connect from Netscape 7.x browsers running on Solaris. To work around the problem:

- Change the server HTTP listener to use an IP address rather than the host name, restart the server, and use the IP address in the URL to connect, for example:

```
http://123.456.0.1:8080/WebConsole
```

- If you still get “Document contains no data” errors, change the Netscape preferences by choosing Edit | Preferences | Advanced | Cache and select “Never.”

## 5.3 SSL certificates after upgrading

(CR #341222) When you upgrade from an earlier version of EAServer, the installer upgrades the sample test certificates and installs new versions of the Verisign CA certificates. The upgrade may leave obsolete copies of the Sample1 Test ID and Sample2 Test ID certificates. You can delete these manually using EAServer Manager or Security Manager. Delete the older version of each certificate.

## 5.4 HTTP 1.1 support

(CR #343480) EAServer generates HTTP 405 “method not allowed” errors when an HTTP request contains an absolute URI in the request-URI header.

## 5.5 Web services toolkit issues

The following are known issues in the EAServer 5.0 Web services toolkit.

### 5.5.1 Expired VeriSign root certificate

(CR #343954) The VeriSign root certificate has expired in the JDK 1.3 and 1.4 installations used by EAServer. As a result, publishing to the Microsoft UDDI Registry throws a certificate expired exception. For more information on how this problem may affect your applications, see Sun alert notification 57436 at <http://sunsolve.sun.com/pub-cgi/retrieve.pl?doc=fsalert/57436>. To workaround this issue:

- 1 Shut down EAServer.
- 2 Download the most recent Verisign PCA root certificates from the VeriSign Web site at <http://www.verisign.com/support/roots.html>
- 3 Unzip the files to a temporary location, for example, */tmp*.
- 4 Change to the *bin* directory in the JDK 1.4 installation used by EAServer. Import the new certificates with the `keytool` command. For example (all on one line):

```
keytool -import -v -keystore $JAGUAR_JDK14/jre/lib/security/cacerts -  
alias verisignclass3ca2028 -file "/tmp/VeriSign - Thawte Combined  
Roots/VeriSign_Roots/PCA3ss_v4.509"
```

When prompted, enter the JDK key store password. The default is `changeit`. When prompted, accept the new certificate.

- 5 Repeat the previous step to update the VeriSign root certificate in the JDK 1.3 installation used by EAServer.

### 5.5.2 Using the Eclipse plug-in on Solaris 2.9

(CR #341411) When running the Eclipse plug-in on Solaris 2.9, if you create a server profile that restarts the server, after the first time you use the profile to restart and connect to the server, the folder items under the profile may be out of order and cease to function. Additionally, you may see this error in the Eclipse log file:

```

!MESSAGE WebServicesPlugin.internal_error
!STACK 0
WSTAdminException: java.lang.NumberFormatException:
For input string: "START:Realm"
at
com.sybase.wst.admin.remote.RemoteAdmin.getLogFileLoca
tionIDs(RemoteAdmin.java:1895)
...

```

To work around the issue, exit and restart Eclipse.

### 5.5.3 Eclipse runs out of memory when handling large return values

In Eclipse, when testing Web service calls to components that return very large values (say greater than 1 million bytes), the Java VM that runs Eclipse can run out of memory. To solve this problem, modify the `starteclipse.sh` script file.

Change the line:

```
eclipse -vm jdk-path/jre/bin/java
```

—add the `-Xmx` option to increase the Java VM heap size from the default. For example:

```
eclipse -vm jdk-path/jre/bin/java -vmargs -Xmx512m
```

This example sets the Java VM heap size to 512 Megabytes, specified by `512m`. You can adjust the size up or down as needed to prevent out-of-memory errors. For information on the syntax of the `-Xmx` option, see the Java command line documentation at <http://java.sun.com/j2se/>.

### 5.5.4 Errors in Eclipse when importing the sample applications

When installing the EAServer Web services samples into Eclipse, you may see errors related to the following issues.

(CR #341509) You will see several errors caused by the lack of Web service client classes that must be generated after importing. This is expected, since the client classes must be generated for each sample project according to the readme files that accompany each sample.

(CR #341533) You see errors for unresolved javax.ejb dependencies when importing the EJBSample. This sample is not intended to be built or used in Eclipse, but is rather meant to be compiled manually and then deployed to EAServer using EAServer Manager. EJBSample contains the source code for an EJB and requires classes that Eclipse does not have, such as javax.ejb.\*. To eliminate error messages caused by the unresolved dependencies, right click on the EJBSample node, choose the Properties menu item, choose Java Build Path on the left pane of the resulting dialog, select the Libraries tab on the right pane, click the Add External JARs button and choose *\$JAGUAR/java/lib/easj2ee.jar*, which will add in the javax.ejb.\* classes into the path for that project.

### 5.5.5 Using the XML-Security package

(CR #323094) Chapter 4, “Web Services Administration,” in the *Web Services Toolkit User’s Guide* describes how to use the Apache XML-Security package to provide digital signatures and encryption for the SOAP messages sent to and from the Web services container in EAServer. To use this feature, you must replace the file *xalan.jar* in the EAServer *java/classes* directory with the version that is included with the Apache XML-Security package. Follow the instructions to add the other JAR files to the EAServer CLASSPATH setting.

### 5.5.6 Deleting UDDI registry entries

(CR #339099) When you delete a business, tmodel, or service from the local jUDDI registry using the Web services Web console, a spurious ClassCastException error is thrown in the server log file when the item is successfully deleted. You can ignore this error.

## 6. Product compatibilities

This section contains information about other Sybase products that are compatible with this version of EAServer.

### 6.1 PowerBuilder

This version of EAServer includes the following PowerBuilder virtual machines (PBVMs):

- PowerBuilder 8.0.4 – build 10501

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**Note** PowerBuilder 7.x components and version 7.x PBVMs are not supported in EAServer 5.0.

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On Solaris, the EAServer binaries and libraries are provided in formats that are compatible with the Solaris C/C++ compiler version 4.x or 6.x. You can specify which version to use with the `-compilerversion` command-line argument. PowerBuilder support requires that you run the server binary that is compatible with version 6.x of the Solaris C/C++ compiler. For more information, see the *EAServer System Administration Guide*.

If you previously received a private PowerBuilder EBF version containing newer file versions, do not install the PowerBuilder support files included in this version.

If you choose to install the PowerBuilder support files contained in this version:

- Before installing this version, back up your existing PowerBuilder files by copying them to another location. Back up the following:
  - `lib/*pb*`
  - `html/classes/pbjdbc12.jar`
- In the setup program, on the Select Products to Install window, click Customize for Sybase EAServer features, and choose the PowerBuilder Support features.
- After the installation completes, ensure that the corresponding PowerBuilder version is installed on PowerBuilder client machines. To run PowerBuilder components in EAServer, the runtime dynamic shared libraries for the version of PowerBuilder in which the components were developed must be available on the server. The PowerBuilder runtime files on the client and the server must be at the same build level. Using different build levels on client and server machines may result in unpredictable behavior or data corruption.

You can download the corresponding PowerBuilder Windows client software from the PowerBuilder downloads page of the Sybase downloads site at <http://downloads.sybase.com>.

- Use the Library Painter to perform a full rebuild of your PowerBuilder application to ensure that all descendant objects are synchronized with their ancestors and to incorporate any compiler fixes in your code.

### 6.1.1 Known issues

(CR #344244) In order to use remote debugging, the file *pbjag80.so* must exist in the EAServer *lib* subdirectory as a symbolic link to *libpbjag80x.so*. On some machines, the installer may create *pbjag80.so* as a regular file or not install it at all. If *pbjag80.so* is a regular file, remove it. Create *pbjag80.so* as a symbolic link to *libpbjag80x.so*. For example:

```
ln -s libpbjag80x.so pbjag80.so
```

## 6.2 PowerDynamo

EAServer 5.0 does not include PowerDynamo, though you can use an existing PowerDynamo installation with this EAServer version. Sybase recommends that you do not use PowerDynamo for new application development. Instead, use the J2EE-standard Java servlet and JSP technologies. Support for PowerDynamo will be removed from later versions of EAServer.

EAServer 5.0 includes the Dyn2JSP utility to convert PowerDynamo™ Web sites into JSP-based J2EE Web applications. Sybase recommends that you migrate your PowerDynamo Web sites to the J2EE model. For information on using the Dyn2JSP utility, see the HTML documentation included in the *PDynamo2JSP* directory of the installation.

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**Note** The Dyn2JSP utility converts static-file or dynamic-file based sites. If your site is stored in a database, export it to a dynamic-file site before running the conversion.

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## 6.3 Application Integrator

Application Integrator for CICS and Application Integrator for Stored Procedures are no longer included with EAServer. These products will be made available as open source on the EAServer CodeXchange pages at <http://easerver.codexchange.sybase.com/>.

## 6.4 Earlier EAServer (Jaguar CTS) versions

Clients using IIOP and earlier versions of the EAServer (or Jaguar CTS®) client runtime files can connect to EAServer 5.0. To manage EAServer 5.0, you should use a 5.0 installation to run EAServer Manager, jagtool, or a client that calls the EAServer management APIs.

## 7. Documentation updates and clarifications

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

### 7.1 Corrections to the EAServer System Administration Guide

**Chapter 13, Using Systems Management** The section “SNMP functionality” describes the Sybase Systems Management framework support for SNMP, which allows SNMP clients to view information about underlying system status using standard SNMP protocols. This functionality is not available in EAServer version 5.0, but is scheduled to be in a future version.

Also in Chapter 13, the section “Running the JMX agent” instructs you to start SybSNMP before you run the JMX agent. Since SNMP functionality is not included in this version, this step is not required.

### 7.2 Corrections to the Web Services Toolkit User’s Guide

**Chapter 1, Overview of Web Services in EAServer** The section “JAXM 1.0” describes the Java API for XML messaging. JAXM is not implemented in EAServer. Instead, the messaging API is implemented using the SOAP with Attachments API for Java 1.1 (SAAJ) protocol.

See the JAXM/SAAJ Web page at [http://www.sun.com/software/communitysource/jaxm\\_saaaj/](http://www.sun.com/software/communitysource/jaxm_saaaj/) for more information.

## 8. 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.

## 9. Other sources of information

Use the Sybase Getting Started CD, the Sybase Technical Library CD, and the Technical Library 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 Technical Library CD. It is included with your software. To read or print documents on the Getting Started CD, you need Adobe Acrobat Reader (downloadable at no charge from the Adobe Web site, using a link provided on the CD).
- The Technical Library CD contains product manuals and is included with your software. The DynaText reader (included on the Technical Library CD) allows you to access technical information about your product in an easy-to-use format.

Refer to the *Technical Library Installation Guide* in your documentation package for instructions on installing and starting the Technical Library.

- The Technical Library Product Manuals Web site is an HTML version of the Technical Library CD that you can access using a standard Web browser. In addition to product manuals, you will find links to EBFs/Updates, Technical Documents, Case Management, Solved Cases, newsgroups, and the Sybase Developer Network.

To access the Technical Library Product Manuals Web site, go to Product Manuals at <http://www.sybase.com/support/manuals/>.

## 9.1 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 Select Products from the navigation bar on the left.
- 3 Select a product name from the product list and click Go.
- 4 Select the Certification Report filter, specify a time frame, and click Go.
- 5 Click a Certification Report title to display the report.

### ❖ 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.

## 9.2 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. Enter user name and password information, if prompted (for existing Web accounts) or create a new account (a free service).
- 3 Select a product.
- 4 Specify a time frame and click Go.
- 5 Click the Info icon to display the EBF/Maintenance report, or click the product description to download the software.

## 10. Accessibility features

EAServer 5.0 has been tested for compliance with U.S. government Section 508 Accessibility requirements. The online help for this product is also provided in HTML, JavaHelp, and Eclipse help formats, which you can navigate using a screen reader.

EAServer Manager supports working without a mouse. For more information, see Chapter 2, “Sybase Central Overview,” in the *EAServer System Administration Guide*.

The WST plug-in for Eclipse supports accessibility features for those that cannot use a mouse, are visually impaired or have other special needs. For information about these features refer to Eclipse help:

- 1 Start Eclipse
- 2 Select Help | Help Contents
- 3 Enter Accessibility in the Search dialog box

#### 4 Select Accessible user interfaces or Accessibility features for Eclipse

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**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.

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For additional 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.

