

Release Bulletin EAServer 5.0 for Linux

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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 54, Patch 6, Drop 3 (54P6_3). 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.

2.1 Supported Linux distributions

This EAServer release is compatible with the following Linux distributions:

- Red Hat Enterprise Linux Advanced Server (RHAS), version 2.1 with the updates described below.

JDK 1.2 or 1.3 are not supported for use as the in-server Java VM on RHAS. You must use JDK 1.4. You can use these JDK versions to run client applications.

- Red Hat Enterprise Linux Advanced Server (RHAS), version 3.0 for workstations (WS), and one to two CPU machines (ES).
- SuSE Linux, Enterprise Server version 8.0.

2.2 Required RHAS 2.1 patches

For Red Hat Advanced Server 2.1, EAServer requires the following updates:

- Version 3.2 of the gcc compiler and linker. Sybase has provided compiled versions of the required binaries and libraries for download under the terms of the GNU general public license. To apply these changes:
 - a Download *gcc-3.2-RH72.tar.gz* from SDN Web site at <http://www.sybase.com/detail?id=1024357>
 - b Extract the contents to a temporary directory.
 - c Follow the instructions in the README file located in the *gcc-3.2-RH72/binaries* directory.
- The GCC 3.2 library location must be included in the `LD_LIBRARY_PATH` environment variable for the server process. You can add this setting to the *bin/user_setenv.sh* script in the EAServer installation, creating the script if necessary.

2.3 Support for floating stacks

Red Hat Linux has enabled a GLIBC feature called 'floating stacks'. Because of Linux kernel limitations, the JVM will not run on SMP hardware with floating stacks enabled if the kernel level is less than 2.4.10. There are two possible solutions to this issue:

- Upgrade your kernel to 2.4.10 or a later version.
- Disable floating stacks by setting the `LD_ASSUME_KERNEL` environment variable, for example:

```
export LD_ASSUME_KERNEL=2.2.5
```

Based on test results, Sybase recommends that the version of the kernel be upgraded to enable floating stacks instead of disabling the feature by setting the `LD_ASSUME_KERNEL` environment variable.

When enabling floating stacks, make sure the Java thread stack size (`-Xss` option) is sufficient as described in “Tuning the server for stress conditions” on page 5. If floating stack are not enabled, regardless of what is set for the Java thread stack size (`-Xss` option), a minimum native stack size of 256KB for each thread is provided. On a floating stack Linux system, the `-Xss` setting is honored even if less than 256KB.

For more information on the floating stacks feature, see IBM'S JDK 1.3.1 readme file, which can be found under `$JAGUAR/jdk/jdk1.3.1/docs`.

3. Special installation instructions

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

3.1 Running the installation on Red Hat Advanced Server 2.1

If installing on Red Hat Advanced Server 2.1, the installer may hang on the License Input screen if the GCC 3.2 library location is not included in the `LD_LIBRARY_PATH` environment variable. Add the location to `LD_LIBRARY_PATH` if it is not already present. For example, if `/usr/gcc32/lib` is the location of `libstdc++.so.5`, run the following command:

```
LD_LIBRARY_PATH=.:usr/gcc32/lib:$LD_LIBRARY_PATH export LD_LIBRARY_PATH
```

3.2 PowerBuilder components are not supported

The Linux installation does not include the files required to host PowerBuilder components in EAServer. A later version of PowerBuilder will provide support for components running on Linux. Please disregard references to PowerBuilder component support in the *Installation Guide*.

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 Tuning the server for stress conditions

The server may falter under stress due to limitations of the EAServer and Java Virtual Machine (JVM) memory constraints. You must perform stress testing under expected peak load conditions to determine optimum values for your deployment. The optimum settings for these settings depend on your application and machine configuration. To tune these parameters, make the following changes in the Jaguar Manager Server Properties dialog box, then restart the server:

- All Properties tab, property `com.sybase.jaguar.server.jvm.maxHeapSize`

This is the memory space that the VM reserves in the 32-bit virtual memory space, the heap (object) memory used by the VM cannot exceed this. The default value of this property is 1.5GB. This is too high to run any large number of threads, since this space will be reserved in virtual memory regardless of whether the heap ever grows to this size or not. As the intel virtual address space is only 4GB and certain areas of this are reserved, this value must be carefully tuned so that there is space for a stack for each thread that can exist at once. Set this property to the smallest value that still allows the application to function under expected peak loads. You can use the top tool to monitor memory conditions. Values to try are 128m, 256m, 384m, 512m, and 768m. In all likelihood, you should never need more 768M unless the application software is poorly designed.
- All Properties tab, property `com.sybase.jaguar.server.jvm.minHeapSize`

This is the initial size of heap that the VM monitors with respect to garbage collection, etc. The VM will grow its internal heap up to `maxHeapSize` as necessary, but the VM does reserve `maxHeapSize` in the virtual memory space on startup. Thus having this too high reduces the maximum amount of threads that can be spawned before running out of virtual memory space. For stress conditions, the `maxHeapSize` and `minHeapSize` values should be the same to eliminate the CPU overhead of dynamically growing the heap.

- All Properties tab, property `com.sybase.jaguar.server.jvm.options`

This property configures additional startup options for the Java VM. The `-XssStackSize` parameter can be tuned to configure the stack size for Java threads. `StackSize` is the amount of virtual memory reserved for the stack of each Java thread. The stack must be large enough to accommodate parameters passed in component dispatcher and intercomponent calls. However, if the value is too high, it limits the maximum number of threads that can be spawned. To run N threads, there must at least $N \times StackSize$ of free memory available. Set the stack size to the smallest value that still allows the application to run. In internal Sybase testing, usual values are 256k or 512k for the applications used for internal stress testing at Sybase. Most applications should never require more than 1M.

- All Properties/`com.sybase.jaguar.server.jvm.noJIT`

If running the server with JDK 1.3, set this property to true to disable the Just-in-Time compiler (JIT) for the JVM. According to the IBM JDK readme, enabling JIT can cause crashes under stress conditions.

For more information on these properties, see the *EAServer System Administration Guide*.

5.3 Systems Management

5.3.1 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.

5.3.2 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.”

5.4 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.

5.5 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.

5.6 Web services toolkit issues

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

5.6.1 Expired VeriSign root certificate

(CR #345078) 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 work around 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.

For additional Linux specific information see the Java download site at <http://java.sun.com/j2se/1.4.1/download.html>

5.6.2 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/>.

5.6.3 Running the Web services samples

The following are known problems and workarounds to run the Web services samples.

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.

Running the
CanineShelter sample

(CR #346072) When running the CanineShelter sample, you may see the following error when performing the README step “Deploying the SoapDemo.jar as a WebService”:

```
BUILD FAILED
java.lang.VerifyError: (class:
org/apache/tools/ant/types/Path$PathElement, method:
<init> signature: (Lorg/apache/tools/ant/types/Path;)
Expecting to find object/array on stack
```

To workaround this problem, modify the script `$JAGUAR/bin/jagant` to run JDK 1.4 instead of JDK 1.3. Change the line:

```
JAVA_HOME=$JAGUAR_JDK13/jre export JAVA_HOME
```

To:

```
JAVA_HOME=$JAGUAR_JDK14/jre export JAVA_HOME
```

5.6.4 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.

5.6.5 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.

5.7 Silent installer issues

(CR #346937) When upgrading from EAServer version 4.2.2 to version 5.0 using the silent installer, the files *SilentUninstall.sh* and *SilentUninstall.txt* are not copied to the `_uninstall2` subdirectory. You must manually copy these files from the EAServer 5.0 `_uninstall` subdirectory to the upgraded `_uninstall2` subdirectory to use the SilentUninstall feature.

6. Product compatibilities

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

6.1 PowerBuilder

The installation does not include the files required to run PowerBuilder. A later version of PowerBuilder will support PowerBuilder components running in EAServer.

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.

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.

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/ 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

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 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.