

# Release Bulletin EAServer 5.2 for IBM AIX

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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 5.2, build 52029. 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 System requirements

#### 2.1.1 Supported AIX versions

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

- IBM AIX 5.1

- IBM AIX 5.2
- IBM AIX 5.3

### 2.1.2 Required system patches

Before installing EAServer, make sure your system has the required patches described in this section.

**For AIX 5.1** AIX 5100-05 Recommended Maintenance Level (Maintenance Level 5) must be installed. This maintenance package can be downloaded from the IBM Web site at the link provided below.

**For AIX 5.2** AIX 5200-02 Recommended Maintenance Level (Maintenance Level 2) must be installed. This maintenance package can be downloaded from the IBM Web site at the link provided below.

**For AIX 5.3** AIX 5300-01 Recommended Maintenance Level (Maintenance Level 1) must be installed. This maintenance package can be downloaded from the IBM Web site at the link provided below.

For information on obtaining maintenance files, see the IBM Fix Delivery Center at <https://techsupport.services.ibm.com/server/aix.fdc?toggle=DNLDM>

## 3. Special installation instructions

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

## 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://sybooks.sybase.com/eag.html>. Browse to the EAServer 5.2 (Core Documentation) collection, then select this title. This manual is also available in HTML format in your installation.

## 5. Known problems

This section describes known problems in this EAServer version.

## 5.1 EAServer Manager issues

The following are known issues in EAServer Manager.

### 5.1.1 Plug-ins not migrated when upgrading

(CR #367031) When you upgrade from an earlier version of EAServer, Sybase Central is also upgraded from version 4.1 to 4.3. The installer migrates EAServer plug-ins that are compatible with Sybase Central 4.3 to the new installation; other plug-ins remain in the Sybase Central 4.1 installation. To use the migrated plug-ins, start Sybase Central 4.3. To use the other existing plug-ins, start Sybase Central 4.1.

### 5.1.2 Profiles not migrated when upgrading

(CR # 402078) When you upgrade from an earlier version of EAServer, Sybase Central is also upgraded from version 4.1 to 4.3. The installer does not migrate the existing EAServer Manager profiles from the older version of Sybase Central, so you must re-create the profiles (see the online help for instructions).

### 5.1.3 Apply buttons

(CR #347498) To apply changes in EAServer Manager dialog boxes, click OK. Some dialog boxes have Apply buttons that are disabled. There is no way to enable these buttons.

## 5.2 Default in-server ORB classes

(CR#296582) The server properties that specify the default in-server ORB classes must be changed from their default values. To change the property in EAServer Manager, use the All Properties tab in the Server Properties dialog box. Make the following changes:

- `com.sybase.jaguar.server.defaultORBClass` – Change the value to `com.ibm.CORBA.iiop.ORB`.
- `com.sybase.jaguar.server.defaultSingletonORBClass` – Change the value to `com.ibm.rmi.corba.ORBSingleton`.
- `com.sybase.jaguar.server.RMICORBAUtilClass` – Change the value to `com.ibm.CORBA.iiop.UtilDelegateImpl`.

For more information on the ORB implementation classes, see the IBM Web site at <http://www-128.ibm.com/developerworks/java/jdk/aix/131/README.HTML>

### 5.3 JDK supported JDBC-ODBC driver

(CR#393342-AIX) IBM does not ship Sun's jdbc-odbc driver with its JDKs. To use this driver with IBM's JDK, other IBM-recommended drivers must be used.

For this release, the two connection caches are disabled for the Exception not to appear in *Jaguar.log* file. To enable these caches, set the `com.sybase.jaguar.conncache.enable` property to true using the Advanced tab in the Connection Caches Properties dialog box. Ensure that a valid jdbc-odbc driver class is mentioned in the connection cache properties. The driver class should also be present in the server's classpath.

### 5.4 Systems Management

**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:

- 1 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
```

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

### 5.5 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.

### 5.6 Server may terminate abnormally with JIT compiler enabled

(CR # 344966-AIX) The server may abend under stress with the Java just-in-time (JIT) compiler enabled. Set the `com.sybase.jaguar.server.jvm.nojit` property to true using the All Properties tab in the Server Properties dialog box to disable the JIT compiler.

## 5.7 Web Services Toolkit issues

The following are known issues in the EAServer 5.2 Web Services Toolkit.

### 5.7.1 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/search/document.do?assetkey=1-26-57436-1>. 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, enter the following, 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 keystore 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 IBM-AIX specific information see the IBM security information Web site at <http://www-106.ibm.com/developerworks/java/jdk/security/>

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

In Eclipse, when testing Web service calls to components that return very large values (greater than 1 million bytes), the Java VM that runs Eclipse may run out of memory. To solve this problem, modify the `starteclipse.sh` script file. Change this line; adding the `-Xmx` option to increase the Java VM heap size from the default:

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

For example:

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

This example sets the Java VM heap size to 512MB, 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/>.

### 5.7.3 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 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:

- 1 Right-click the EJBSample node, and choose the Properties menu item.
- 2 Choose Java Build Path on the left pane of the resulting dialog.
- 3 Select the Libraries tab on the right pane, and click the Add External JARs button.
- 4 Choose `$JAGUAR/java/lib/easj2ee.jar`, which adds the javax.ejb.\* classes into the path for that project.

### 5.7.4 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, 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.

### 5.7.5 UDDI Registry not supported

(CR #343725-AIX) EAServer does not support the UDDI plug-in for the WebConsole on AIX due to incompatibility between classes in the *jaxr-ri.jar* file and IBM's JDK.

### 5.7.6 UDDI search and registration

(CR #368276) Searching the published items of the Microsoft test UDDI produces errors indicating a trusted certificate was not found. The workaround for this problem is to install a trusted certificate as follows:

- 1 In Internet Explorer, enter the Microsoft test UDDI publish Web site URL at <https://test.uddi.microsoft.com/publish>.
- 2 Double-click the lock icon at the bottom of the screen.
- 3 Click the Details tab.
- 4 Click the Copy to File... button.
- 5 Select the default format which is Distinguished Encoding Rules (DER)-encoded binary X.509(.CER).
- 6 Choose a file location and name.
- 7 In a command window, run:

```
C:\j2sdk1.4.2_05\bin>keytool -import -file "C:\MSCert.cer" -trustcacerts  
-keystore C:\j2sdk1.4.2_05\jre\lib\security\cacerts
```

where *C:\MSCert.cer* is the file location and name of the exported certificate from the previous step.

### 5.7.7 Readme and sample updates

#### Stateless EJB sample

(CRs #369306 and #373593) The readme file in the *sample/wst\_samples/EJBsample/statelessEjbSample* subdirectory of the EAServer installation describes creating a Web service named AddEjb. This should be SampleEjb\_AddEjb. The resulting WSDL file is available at [http://localhost:8080/ws/services/SampleEjb\\_AddEjb?wsdl](http://localhost:8080/ws/services/SampleEjb_AddEjb?wsdl), not <http://localhost:8080/ws/services/AddEjb?wsdl>.



**GoogleSearch sample**

(CRs #373708 and #369209) The GoogleSearch sample has an outdated readme file, *sample\wst\_samples\GoogleApi\GoogleSearchEAS5.htm*. To access the updated sample instructions:

- 1 In a Web browser, log in to CodeXchange at <http://easerver.codexchange.sybase.com>.
- 2 Under Popular Sample Folders, select Web Services.
- 3 From the list of Web Services, select GoogleSearch Service with EAServer 5.0.

**Intro sample**

(CR # 369093) The *readme.html* file in the *EAServer/html/classes/Sample/Intro/* subdirectory of the EAServer installation contains these errors:

- Error at the line:  
d. Check “Compile Java Files.”  
  
should be:  
d. Check “Compile Java Stubs.”
- Error at the line:  
a. Uncheck Compile Java Skeletons.  
b. Under Advanced Options, check “Generate Skeletons on Server.”  
  
should be:  
a. Under “Skeleton Generation Options”, uncheck “Compile Java Skeletons.”  
b. Check “Generate Skeletons on Server.”

**CORBA component sample**

(CR # 369093 and 373589) The following changes are required in the *readme.txt* file located in the *sample/wst\_samples/CORBAComponent/client* subdirectory of the EAServer installation:

- After the following lines:  
Expand the Other Components folder. The *IntroSamples* package should display. Expand this folder to display the *IntroJavaIDL (CORBA)* component.  
  
Add:

If the *IntroSamples* package is not listed, go to EAServer Manager and select Servers | Jaguar | Installed Packages, and right-click Installed Packages; click Install an Existing Package; select IntroJavaIDL from the Choose Package to Install list; then click OK. Restart or refresh EAServer.

- Error at lines:  
Only the getXXX methods and Boolean b method should be selected. Click OK. The component is now exposed as a Web service.  
  
should be:  
  
Only the getXXX methods and Boolean throwException method should be selected. Click Finish. The component is now exposed as a Web service.
- Step 6 of the *readme.txt* file describes the *Client.java* file. This should be *IntroJavaIDL\_ServiceTestClient.java*.

## 6. Fixed problems

The following issues are fixed in this version (EBF ID 12431):

Bug ID	Description
400458	Java qop test failed in QOP.FIPS test group due to unexpected COMM_FAILURE.
398752	secmgr message: "password not matched".
398350	AIX: Core interop_tx CTS test was dump.
397707	Failed to connect UDDI registry servers.
397655	Failed to connect the http port due to NoClassDefFoundError.
397653	Failed to deploy nileejb due to jcm's failure to initialize Pool Manager.
395248	Package delete cannot find *.idl files to be removed.
394966	AIX: Manual test of MemLeakT4 cannot finish running all calls.
394956	AIX: 2PC-TX does not work properly. The created instance failed.
394775	AIX: Singletran and Multitrans cannot work properly.
394732	JTATest test group failed due to createSession's failure to load in CORBA.
394489	Load balancing for single threaded client and component client failed.
394215	extcpprocess test failed due to the DefaultExternal server. It cannot start up properly.
393682	AIX: Throws servlet error while doing nileejb stress test.
393589	Java2Javaiops and Java2Javaiops2 test failed due to the refused connection.
393581	ejbSecurity test failed because of trapped NamingException.

<b>Bug ID</b>	<b>Description</b>
393471	IIOOP_Negative test results failed due to the exceeding message size.
393404	To merge modifications from jagrel52rollup to jagmain.
393321	Missing WebConsole link from EAServer release contents page.
393136	AIX: sybase.com webapp throws server internal error at runtime.
374784	Null pointer exception when creating a new server.
374464	JMS Client fails with MARSHAL exception.
374214	Connector cannot load a class when the JAR containing the class is deployed in the application EAR that contains the connector.
373873	Overflow errors are reported when transferring CS_CHAR strings of length 255 with extended characters from EAServer to client via TDS/OpenServer calls.
373812	When using Sol4x FIPS redirector libraries to start iPlanet 6.0, the Web server does not start.
373701	Unexpected exception detected in native code outside the VM.
373698	When EAServer Manager connects to a server without the message service, you see "Would you like to configure the Message Service." When you click No, the same dialog reappears.
373521	Conversion from ResultSet to TabularResultSet cannot handle NULL int value.
372974	Nile.com: ClassCastException when searching book titles.
372954	SSLException when using security port.
372910	Server does not start after setting FIPS mode to off.
372846	When using FIPS redirector libraries to start iPlanet 6.0, the Web server does not start.
372760	Conversion from ResultSet to TabularResultSet cannot handle NULL date value.
372233	Data source lookup fails in Servlet Filter init() method.
372133	SSL clients found runtime CtsSecurity-Transport exception.
371822	For Java skeleton, change the signature of locallnvoke + num methods.
371635	Cannot set ejb-ref value in the dialog without using workarounds.
371605	ClassLoader picks up incorrect JAR files when JARs use manifest classpath, and Jaguar Classloader uses temp directories to load copies of JAR files.
371579	BMP entity EJB fails rollback when transaction is Required or Requires New.
371563	Configuring the message service throws an exception.
371075	EAServer Manager multiple server display refresh issue.
371056	servletfailover received an unexpected return from the secondary server.

<b>Bug ID</b>	<b>Description</b>
370828	Posted data is interpreted by a request causing HTTP 400 errors.
370762	Log file is not generated after creating a log handler.
370346	jagtool sync command: attempt to sync two servers not in a cluster, using jagadmin, and the servers have different jagadmin passwords, the sync fails.
370077	Lost HTTP session ID by changing request attribute in servlet.
370056	Exception when saving major/minor version on some components.
370053	PowerDynamo sites and Web applications should both work from the same server.
369986	Set proxy places connection back into cache pool as proxy user.
369879	Sybase Central crashes on Solaris.
369801	Print processing stopped status when memory monitor stops processing client request.
369380	New Log Category wizard: log handler does not check for duplicate at add.
369267	Login wizard crash Sybase Central 4.3.
369158	Sybase Central Refresh All makes the message service component disappear.
368925	Flush JSP/servlet cache NullPointerException.
368839	EAServer does not support J2SE 5.0.
368647	Extra FIPS mode displays in the cryptographic modules.
368411	Solaris: Sybase Central exception is not logged in jagmgr.log.
368295	Message service not processing all queued messages after crash.
368064	Sybase Central exception raised when connecting.
368056	PKCS#12 PseudoCPP Java client core dump.
367963	Viewing server properties throws OutOfBoundsExceptions in EAServer Manager.
367944	Sever crashes when retrieving Oracle XA connection cache from a C component.
367773	Log file viewer screen does not display.
367763	EJB CMP entity bean conncache.ssa=true and conncache.systemid not working.
367760	Starting EAServer Manager and attempting to connect to Security Manager displays "Password not valid."
367627	EAServer Security Manager previous client root logged.
367619	EJB 1.0 configuration window: mouse does not get focus.
367429	On the Jaguar Server's properties Java VM tab, the Disable JIT option is linked to the com.sybase.jaguar.server.jvm.displayOptions property instead of com.sybase.jaguar.server.jvm.nojit.

<b>Bug ID</b>	<b>Description</b>
367287	scvwen43.pdf is missing from the EAServer install image.
367278	ASA ODBC cache issue.
367264	Apache20 redirector plug-in core dump when redirecting.
367152	JTA client side demarcation fails on Solaris.
367151	Tip 44 is missing.
367121	Log Profile wizard throws exception when editing handlers.
367110	Message service window pop-up: if you click No the window does not go away.
367097	Disconnecting EAServer Manager also disconnects Security Manager.
367026	MBean functionality should be removed from the Systems Management Web console.
366889	Log profiles: do not add newly created handler name.
366884	Log profiles: categories add duplicate handler names.
366883	Values of connection caches runtime monitoring keep appending in EAServer Manager.
366560	<i>jagmgr_install.bat</i> and <i>sasecmgr_install.bat</i> are missing.
366465	Sybase Central raises an exception when restarting server.
366463	When using the wizard to invoke a selected operation for an MBean, a blank page appears when you enter an input parameter value and press Enter.
366460	EAServer Manager cannot connect to EAServer.
366456	Lookup for an EJB component fails in ejbSecurity.
366451	Cannot start uddidb.
366413	Eclipse invoke methods fail if the Web service is exported from another component.
366407	Eclipse default login "guest" does not ping in UDDI on TrySybase.
366329	Conncache password compromised by Export Diagnostic log.
366324	Clicking Runtime Monitoring in EAServer Manager causes DefaultExternal error.
366317	Sample Web service tempconv received a runtime NullPointerException.
366310	Deploying a Java file with type mapping as a Web service fails.
366306	Default login should be "jagadmin" in Eclipse UDDI on localhost registry.
366253	runclient script must include i18n.jar for jConnect data sources in AppClient.
366212	WebDW connection to ASA database fails.

<b>Bug ID</b>	<b>Description</b>
366186	Using EAServer Manager to connect to a Jaguar server with the message service started: When you click the "+" icon to the left of the "Message Service" node, it does not extend as expected.
366143	UDDI publishing does not work to the local registry.
365681	Save/restore localstack state even for methods that do not read from localstack.
365633	Wrong ASA ODBC driver in <i>\$JAGUAR/intersolv/odbc.ini</i> .
365522	Focus lost and dialog auto hidden in EAServer Manager.
365500	Publishing message to topic fails in JSP FragmentCaching on Solaris.
365475	Cannot connect to Security Manager.
365340	Intercomponent calls cannot get a connection when the connection caches are different and the second component's properties are set to Requires or Requires New.
365255	A Confirm Delete dialog issue.
365189	Help ID is incorrect in Log Profile wizard.
365127	EAServer FIPS Security Manager multi_trials logged.
364970	Refreshing Web application causes warning message and intermittent problems.
364785	EAServer Manager does not start properly.
364734	DLB_* compclientLB fails with JDK 1.4.
364394	Secure connection to EAServer Manager with EAServer SSL is unsuccessful.
364172	ejbRemove is listed as control method, but may be called directly by the client.
364086	Security Manager: Move Certificate Info page to Property Tab dialog.
363968	Wrong class present in easj2ee.jar: javax.transaction.Xid.
363817	LDAPResourceManager: Check for rh == null in getResourceHandle.
363763	Null pointer exceptions in Petstore application 1.3 during runtime.
363760	Security Manager double-click key not functioning.
363709	Exclude control methods from local stack in javagenerator.
363316	Incorrect ResultSet returned to C++ component using OC to ASE when character set is iso_1.
362842	SqlResultSetBase fails.
362655	Some localized strings are not localized in EAServer Manager.
362603	Java Skeleton is resetting the local stack flag to false.
362548	Sybase Central Help not working.
362462	MASP invocation via SITE HANDLER RPC from data server crashes EAServer.

<b>Bug ID</b>	<b>Description</b>
362433	EAServer CTS ejb.ee.tx.session.stateless fails SystemException: MARSHAL.
362386	Newly added MBean and service in Web Console are not saved.
362229	Reading of Java-CORBA exception from IOP stream for local stack implementation.
362165	HTTP service fails with "Response was not Sent".
361925	JavaGenerator fixes: out and inout parameters; UserExceptions.
361908	EJB JAR does not compile during deployment.
361843	EAServer Manager in Sybase Central should have a Connect Context menu item.
361736	Apache20 redirector plug-ins fail to redirect.
361701	URLs that contain embedded URLs as a request parameter cause 404 errors.
361597	Incorporate Axis 1.2 into the codeline.
361576	Transaction handling with new one off shows errors and anomalies compared to EAS 4.2.3 Fatal Error Occurs when try to activate PB Component p11047058/pb_comp_b. Jul 15 13:22:37 2004: Fatal Error Occurs in PB Component, Transaction Rollbacked. Jul 15 13:22:37 2004: Runtime Error Occurs when try to activate PB Component p11047058/pb_comp_b.
361543	Methods should show disallowed status when deactivating a Web service.
361526	No error displays when the user pings a registry with an incorrect password.
361523	Provide fields for user to specify use type for phone and e-mail for contacts.
361283	Wrong sentence when quickly deploy as Web service to a down server.
361233	JavaInMemoryCache put operations do not work on Solaris.
361207	Automatic configuration of "-servicesleep" parameter for Windows Services.
361190	Can now pass arguments on local stack for intercomponent calls on the same server.
361118	Cannot ping from Web Console.
361111	Message in <i>Jaguar.log</i> indicates it cannot obtain server connection for <local>.
361110	Cannot save changes to an existing connection profile in Web Console.
361087	Null Pointer exceptions in OCC.
360916	PBVM - PB service component using JDK 1.4 core dumps EAServer.

<b>Bug ID</b>	<b>Description</b>
360831	Deleting an entry in the Advanced tab for a method's properties preserved the value.
360824	WSI deployment fails.
360805	JCM connection leak.
360757	EAServer Manager Shutdown and Start option restarts wrong server.
360651	Remove requirement for start-up scripts in EAServer Manager.
360639	Classes generated by EP into <i>WEB-INF/classes</i> are not picked up by class loader.
360588	Dynamic Load Balancing cannot be configured in EAS Manager GUI Properties Dialog.
360465	QTS 344742 still does not address the issue listed below:
360404	Update install-System Management agent cannot start.
360322	Getting a stacktrace when retrieving BLOB data via <code>TabularResults.ResultSet</code> when using the <code>easclient.jar</code> from version 4.2.3.
360241	Cannot create new log profile with [root] category.
360228	[ <code>EXCEPTION_ACCESS_VIOLATION(0xc0000005)</code> ] received while executing the <code>getServerEnvironmentVariables</code> method of the <i>Jaguar/Management</i> component.
360040	Sybase UDDI server database uses the wrong collation.
359937	Need <code>setlocal</code> for <i>upgradeCert.bat</i> .
359919	Web Server: file names in HTML code are now case-sensitive.
359846	DIGEST-MD5 LDAP authentication within EAServer fails.
359664	Request for Firewall/NAT-aware EAServer Manager connections.
359655	SybAgent usage output incorrect.
359519	Remove license info for Application Integrator.
359216	System Management machine name blank yet still is "connected" and functioning.
359023	Root page[ <code>index.html</code> ] of Apace h2.0 failed with HTTP 500 error on redirector plug-in.
358530	When adding an association of a handler to a category, user should be provided with a list of existing handlers to choose from, or the option to define a new one.
358518	Usability: need wizard for creating log profiles.
358357	Web Console, UDDI Registries: no <code>discoveryURL</code> for newly created business entity.
358189	Couple of issues with external server feature.
357730	<code>wstool unpublish</code> cannot take empty password.



<b>Bug ID</b>	<b>Description</b>
357594	AIX: Incorrect window description when deleting JSP client from Eclipse.
357487	EAServer crashes when an RPC sp_who call is executed through a TDS listener or TDS\OpenServer listener from ASE.
357485	Service saved twice in local UDDI server after created in Web Console.
357456	setAttribute function with Null argument should be implemented as remoteAttribute function.
357319	A Sybase Heap Manager error was encountered when calling an object method that returned an array with certain sizes.
357200	In certain cases, IDL does not get upgraded during server start-up.
357090	jagtool delete command notes that the valid type is written as '{0}'.
356878	EAServer does not display Japanese UTF8 characters when using JSTL 1.0 tags.
356850	UDDI entities should be able have multiple descriptions.
356827	On HP-UX and HP Itanium: a caller component of "Not Supported" transaction type throws exception at EAServer side if you try to call another component of "Not Supported" transaction type. This problem happened on the caller "CreateInstance" statement.
356747	The internal Web applications are currently listed by jagtool (and should not be).
355920	Sybase UDDI Server does not save DiscoveryURLs when initially published.
355891	PowerBuilder component fails to connect to Oracle9i or ASA DB via Unicode Connection cache.
355833	The Sybase UDDI server should allow for langs to be more than 2 characters long.
355804	Transactional semantics changes from EAServer 4.0 to 5.0 causes errors.
355742	EAR deployment has been improved to take care of some special cases with interface inheritance.
355691	Sybase UDDI server returns duplicate Business Services when searching.
355624	Error message in <i>Jaguar.log</i> when connecting to ODBC Unicode connection cache.
355330	ejb/ee/pm failed with not getting expected EJBException.
355117	Exception thrown after deleted Resource Environment reference.
354995	Memory monitoring does not work well on multi-CPU Solaris box.
354897	Servlet fails to find the expected head.
354779	Optimize Java-Java intercomponent calls by passing arguments locally.

<b>Bug ID</b>	<b>Description</b>
354530	When calling a Web service of type PB component and passing in a blob as a reference in a structure, PB hangs. It works ok when the Web service returns the blob as type string and works ok when returning a small blob.
354240	Messages delivered to <code>MDB.onMessage()</code> are counted as <code>DISCARDED</code> instead of <code>DELIVERED</code> .
354166	<code>com.sybase.jaguar.package.runasidentity.system</code> property deployment issue.
354148	EAServer is not converting double-byte data in a JSP file correctly.
354143	Cannot find collection error: uddi-server when apply in Security Administration.
354065	Cannot start EAServer from Eclipse after input script file.
354062	Win2003 IIS redirector plug-in causes EAServer to crash when connects.
354058	Null pointer exceptions in <i>Jaguarhttpervlet.log</i> in a newly installed server.
353983	Cannot add methods to a local interface EJB 2.0 with EAServer Manager.
353967	Role/User created by jagtool cannot refresh server.
353958	serverstart script needs IPV6/IPV4 in "Usage" info.
353926	New service cannot be added in System Management.
353905	Listener value shows horizontal bar in Systems Management.
353857	Primary server core dumps when joining with the secondary.
353847	Eclipse disallow does not work, method can still be invoked.
353824	Naming profile crashes server in EAServer cluster when configured for IPv6.
353751	LogFileViewer cause stacktrace when server is shut down.
353749	Always receive a "fail to save" error message when creating a new handler.
353744	Use of <code>NON THREAD SAFE API localtime</code> on UNIX platform.
353741	"Error while connecting" exception is thrown when reconfiguring EAServer from Serv.
353697	A specified JPDA port does not work.
353696	Component Properties changes are not saved.
353643	No appropriate message when exporting a component.
353619	EAServer Manager instructs users to restart after changing class loader options.
353402	Improve cluster creations in EAServer Manager.
353209	EAServer does not recognize <code>EAS_EE</code> license using SySAM.

Bug ID	Description
353181	CMP creation failure with optimistic concurrency control when using Oracle9i.
353078	Error messages when generating skeletons in EAServer Manager.
351742	URL for local UDDI server should be automatically constructed in UDDiPlugin.
350929	Exception in ReleaseConnectionToJaguar() for JDBC.
350050	On connector, different connection spec should get different managed connection back.
347773	Business Contacts Page in UDDI Browser should show multiple phone, e-mail, address, and description elements. Also each should have a use type.
344802	Implement Java in memory mirror caching.
344230	When I set Japanese data like Jaguar's description and role name and description, I can't display these value on the right frame in Web Console. But It's okay on the left frame.
342484	Provide Unicode db handle to PowerBuilder 10 component.
332796	The connector property com.sybase.jaguar.connector.java.classes allows specification of only one JAR file in <i>java/classes</i> . Change to allow a comma-separated list of directories and JAR files.
316345	Enhancement request for last-resource commit optimization in connectors.
300850	Jaguar Server uses deprecated ODBC functions.
299009	“flush cache” is always enabled even if “Enable Static Page Caching” is off.
263069	Missing support for object reference parameters in EJB QL.

## 7. Product compatibilities

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

### 7.1 PowerBuilder

For additional information on PowerBuilder®, see the PowerBuilder Manuals Web Site at <http://sybooks.sybase.com/onlinebooks/group-pb>. The *PowerBuilder Release Bulletin* for your PowerBuilder version may contain additional late-breaking information.

This version of EAServer includes the following PowerBuilder virtual machine (PBVM):

- PowerBuilder 9.0.1 – build 6533

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**Note** PowerBuilder 7.x components and version 7.x PBVMs are not supported in EAServer 5.2.

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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.

### 7.1.1 Code set interoperability

By default, EAServer uses UTF-8 as the transmission code set. This applies to in-server intercomponent calls as well as component invocations from base clients. Since PowerBuilder does not support UTF-8, you must specify another encoding if your application uses character values greater than 127.

To specify the encoding for components, specify the component or server code set properties as follows:

- For components, specify the Codeset setting on the General tab in the EAServer Manager Component Properties dialog box, or use jagtool or the Advanced tab to set the `com.sybase.jaguar.component.code.set` property.
- For the server, specify the Codeset setting on the General tab in EAServer Manager Server Properties dialog box, or use jagtool or the Advanced tab to set the `com.sybase.jaguar.server.code.set` property.

To specify the encoding for clients, set the `ORBCodeSet` property in the `PowerBuilder` connection object.

Make sure the operating system locale is compatible with the code set used by the server, components, and clients. For example, if the operating system locale is `zh_CN.gb18030` on the server machine, set the server code to `gb18030`. The client and server code sets do not need to match, but both must be compatible with the operating system locale. That is, the client code set must be compatible with the operating system locale on the client machine, and the server code set must be compatible with the operating system on the server machine.

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**Note** To support logging of localized messages from `PowerBuilder` components, the component code set and server code set must be identical, and the system locale must be compatible with the specified code set.

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## 7.2 Borland JBuilder

Sybase provides an EAServer plug-in that allows you to develop, deploy, and debug EAServer components from Borland JBuilder. For more information, see `Sybase EAServer Plug-in for JBuilder X` at <http://www.sybase.com/detail?id=1028830>.

**Known issue** Due to a change in the packaging of runtime classes in EAServer 5.2, deployment from JBuilder may not work after upgrading to EAServer 5.2. To correct this problem, add the `java\lib\eastools.jar` file from your EAServer 5.2 installation to the configured libraries in JBuilder, as follows:

- 1 In JBuilder, select `Tools | Configure Libraries...`
- 2 On the `User Home | Sybase EAS Client | Class` tab, click `Add`.
- 3 Select the `java\lib\eastools.jar` file from you EAServer 5.2 installation.

- 4 Click OK.

## 7.3 PowerDynamo

EAServer 5.2 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 5.2 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 sites. If your site is stored in a database, export it to a dynamic-file site before running the conversion.

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## 7.4 Application Integrator

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

## 7.5 Earlier EAServer (Jaguar CTS) versions

Clients using IIOP and earlier versions of the EAServer (or Jaguar CTS®) client runtime files can connect to EAServer 5.2. To manage EAServer 5.2, use a 5.2 installation to run EAServer Manager, jagtool, or a client that calls the EAServer management APIs.

# 8. Documentation updates and clarifications

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

## 8.1 EAServer Programmer's Guide

### 8.1.1 Chapter 2, Understanding Transactions and Component Lifecycles

**Resource recovery and transaction logging** This section describes resource recovery, which enables object persistence and recovery operations. You can set the following recovery options on the Transactions tab in the Server Properties dialog box:

- **Enable Recovery** – check to enable resource recovery. This value is stored in the `com.sybase.jaguar.server.TxManager.RecoveryEnabled` property.
- **Recovery Log File Name** – enter the name of the transaction log file, which the recovery manager reads to perform transaction recovery. You can specify either a file name only, or an absolute path to a file. If you specify a file name only, the file is created in `$JAGUAR/bin` or `$JAGUAR/devbin`. The default is `<serverName>Recovery.log`. The log file name is stored in the `com.sybase.jaguar.server.TxManager.logfile` property.
- **Log File Size** – enter the minimum size of the transaction log file; the default is 1MB. This value is stored in the `com.sybase.jaguar.server.TxManager.logsize` property.

## 9. 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.

## 10. 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/>.

## 10.1 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.

### ❖ 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.

## 10.2 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.

## 11. Accessibility features

EAServer 5.2 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 Web Services Toolkit 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 may 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.