

Release Bulletin EAServer 5.2.1 for HP-UX

Document ID: DC38029-01-0521-02

Last revised: September 12, 2007

Topic	Page
1. Accessing current release bulletin information	2
2. Product summary	2
2.1 System requirements	2
2.2 Required system patches	3
2.3 JDK versions	3
2.4 J2EE compliance	3
3. Special installation instructions	4
3.1 Mounting the CD	4
4. Security enhancements	4
4.1 Security vulnerability in RSA signature verification	4
4.2 Support for Daylight Saving Time	4
5. Changed functionality in this version	5
6. Known problems	5
6.1 EAServer Manager issues	5
6.2 Double-byte characters	6
6.3 Systems Management	6
6.4 SSL certificates after upgrading	6
6.5 Web Services Toolkit issues	6
7. Fixed problems	8
8. Product compatibilities	17
8.1 PowerBuilder	17
8.2 Borland JBuilder	19
8.3 PowerDynamo	20
8.4 Application Integrator	20
8.5 Earlier EAServer (Jaguar CTS) versions	20
9. Documentation updates and clarifications	20
9.1 EAServer Programmer's Guide	21

Topic	Page
10. Technical support	21
11. Other sources of information	21
11.1 Sybase certifications on the Web	22
11.2 Sybase EBFs and software maintenance	23
12. Accessibility features	23

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 5.2.1, build number 52101. 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

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

- HP-UX 11.0 on HP 9000 workstation with PA-RISC 2.0 architecture
PA-RISC 1.x and other architectures are not supported.
- HP-UX 11iv1 (or HP-UX 11.11)

2.2 Required system patches

Before installing EAServer on HP-UX 11.0, verify that you have the March '04 quality pack installed, as well as the required HP patches for JDK 1.3, JDK 1.4, and JDK 1.5, and all dependency patches. EAServer does not function properly if the required patches and kernel settings are not present to support JDK 1.3, JDK 1.4, and JDK 1.5. You can obtain the latest HP patch required for Java from HP Web site at <http://h18012.www1.hp.com/java/patches/index.html>.

You must run the HP HPjconfig tool to verify that all required patches have been installed on your machine. HPjconfig reports which patches are required and the kernel settings required for Java. You can download HPjconfig from the HP Web site at <http://www.hp.com/products1/unix/java/java2/hpjconfig/index.html>.

For more general information on HP-UX patch levels, see the HP Web site at <http://h18012.www1.hp.com/java/patches/index.html>.

Note Sybase recommends that you get the latest patch available to ensure that the newer version of JDK is working correctly.

2.3 JDK versions

EAServer 5.2.1 includes these Java Development Kit (JDK) versions.

Table 1: JDK versions and required patch level

JDK versions	Patch level
1.3.1	20
1.4.2	12
1.5.0	06

2.4 J2EE compliance

EAServer version 5.2.1 complies with the Java 2 Platform, Enterprise Edition (J2EE) Specification, version 1.3 requirements, when operating in the following product configuration:

- EAServer Advanced Edition with 2PC license
- Adaptive Server® Enterprise 12.5 database, with the included jConnect™ for JDBC™ driver

Other EAServer 5.x product configurations may not fulfill the requirements of the J2EE Specification. For more information about the EAServer 5.x J2EE 1.3 compatibility branding, see the Sun J2EE 1.3 Compatibility page at http://java.sun.com/j2ee/tested_config/sybase13.html.

3. Special installation instructions

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

3.1 Mounting the CD

You must manually mount the CD. To do so, use the HP SAM utility. See your HP documentation for more information.

4. Security enhancements

This section contains changes related to security.

4.1 Security vulnerability in RSA signature verification

This release contains important JDK and product security fixes. You can find more information on security vulnerability in RSA signature verification:

Sybase Web site at <http://www.sybase.com/detail?id=1047991>

4.2 Support for Daylight Saving Time

The JDKs/JREs that are shipped with EAServer 5.2.1 now support DST changes. If you are using the JDK/JRE that does not comply with the DST changes, you must upgrade the JDK/JRE patch level.

For instructions to upgrade JDK/JRE, see Sybase Web site at <http://www.sybase.com/detail?id=1050614>.

5. 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/nav/base.do>. Browse to the EAServer 5.2 (Core Documentation) collection, then select this title. This manual is also available in HTML format in your installation.

6. Known problems

This section describes known problems in this EAServer version.

6.1 EAServer Manager issues

The following are known issues in EAServer Manager.

6.1.1 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 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.

6.1.2 Profiles not migrated when upgrading

(CR #376976) 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).

6.1.3 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.

6.2 Double-byte characters

(CR #385600) If you install EAServer 5.2.1 on an HP machine running a Simplified Chinese operating system, the installer does not display Simplified Chinese characters; double-byte characters display as squares.

6.3 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. 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.”

6.4 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.

6.5 Web Services Toolkit issues

The following are known issues in the EAServer 5.2.1 Web Services Toolkit.

6.5.1 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/>.

6.5.2 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.

6.5.3 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.

6.5.4 Deleting UDDI registry entries

(CR #339099) When you delete a business, tmodel, or service from the local UDDI 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.

6.5.5 Readme and sample updates

Stateless EJB sample

(CRs #369306) 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`, 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 read 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.

7. Fixed problems

The following issues are fixed in this version:

Bug ID	Description
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.

Bug ID	Description
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 localInvoke + 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.
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.

Bug ID	Description
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	Server 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.
367287	scvwen43.pdf is missing from the EAServer install image.
367278	ASA OBDC 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.

Bug ID	Description
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.
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.

Bug ID	Description
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_* compliantLB fails with JDK 1.4.
364708	Solaris: <i>sqlunx.h</i> is missing in <i>\$JAGUAR/include</i> .
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.
363616	Check all the documents under URL www-jaguar to docs. 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.
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 IIOP 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.

Bug ID	Description
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 Rolled back. 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.
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 be 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.

Bug ID	Description
360322	Getting a stacktrace when retrieving BLOB data via TabularResults.ResultSet when using the easclient.jar from version 4.2.3.
360241	Cannot create new log profile with [root] category.
360228	[EXCEPTION_ACCESS_VIOLATION(0xc0000005)] received while executing the getServerEnvironmentVariables method of the <i>Jaguar/Management</i> component.
360040	Sybase UDDI server database uses the wrong collation.
359937	Need setlocal 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[index.html] 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 discoveryURL for newly created business entity.
358189	Couple of issues with external server feature.
357730	wstool unpublish cannot take empty password.
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.

Bug ID	Description
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.
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 MDB.onMessage() are counted as DISCARDED instead of DELIVERED.
354166	com.sybase.jaguar.package.runasidentity.system 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.

Bug ID	Description
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 NON THREAD SAFE API localtime 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 EAS_EE license using SySAM.
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.

Bug ID	Description
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.

8. Product compatibilities

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

8.1 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 machines (PBVM):

- PowerBuilder 8.0.4 – build 10501
- PowerBuilder 9.0.1 – build 6533

Note PowerBuilder 7.x components and version 7.x PBVMs are not supported in EAServer 5.2.1.

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.

8.1.1 Known issues

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

```
ln -s libpbjag80x.sl pbjag80.sl
```

(CR #341947) For remote debugging, you cannot use a port number larger than 32767 to access EAServer.

Multiple PBVM versions (CR #380753) When one PBVM version is loaded, you cannot use another PBVM version. For example, when a PowerBuilder 8.0.4 (server-side) component is called by a PowerBuilder client, the 8.0.4 PBVM is loaded on the server side. Then, if you attempt to call a PowerBuilder 9.0.1 component deployed on EAServer, an error occurs. The same problem occurs if the 9.0.1 PBVM is loaded before calling an 8.0.4 component. To avoid this problem, install only one version of the PBVM on EAServer.

(CR #386852) If you install EAServer using the silent installer, both versions of the PBVM are installed, regardless of how you configure the `EASPowerBuilderv8Support.active` and `EASPowerBuilderv9SupportHP.active` properties in `SilentInstall_Unix.txt`. See the description of CR #380753, above.

Version 8.0.4 and multiple component instances (CR #384703) Using PowerBuilder 8.0.4, if you create 10 or more instances of a client-side component, then click Start Loop on the opened instance windows one by one, the application may crash.

8.2 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 5.2.1, deployment from JBuilder may not work after upgrading to EAServer 5.2.1. To correct this problem, add the `java\lib\eastools.jar` file from your EAServer 5.2.1 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 your EAServer 5.2.1 installation.
- 4 Click OK.

8.3 PowerDynamo

EAServer 5.2.1 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 5.2.1 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 sites. If your site is stored in a database, export it to a dynamic-file site before running the conversion.

8.4 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/>.

8.5 Earlier EAServer (Jaguar CTS) versions

Clients using IIOP and earlier versions of the EAServer (or Jaguar CTS®) client runtime files can connect to EAServer 5.2.1. To manage EAServer 5.2.1, use a 5.2.1 installation to run EAServer Manager, jagtool, or a client that calls the EAServer management APIs.

9. Documentation updates and clarifications

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

9.1 EAServer Programmer's Guide

9.1.1 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.

10. 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.

11. 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/>.

11.1 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.

11.2 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.

12. Accessibility features

EAServer 5.2.1 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

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.

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.