Release Bulletin
EAServer 5.5 for Linux

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1. Accessing current release bulletin information

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2. Product summary

Enclosed is Sybase EAServer version 5.5, build 55014, patch 1, drop 8. You may have a later build number if you have installed ESD patches for this release. If so, the cover letters provided with each patch contain the build number and additional documentation.

Table 1 lists versions of various products supported in EAServer 5.5.

Table 1: Product support

Product	Supported versions/builds
Operating system	SUSE Linux, Enterprise Server version 9.*x* and Red Hat Enterprise Linux Advanced Server (RHAS) version 4.0.
Redirector plug-ins:	
Apache	1.3.26, 2.0
iPlanet	4.*x*
Adaptive Server® Anywhere	9.0.2
Adaptive Server® Enterprise	12.0, 12.5, 15.0
Oracle client	7.3.4, 8.1.7, 9.0.1, 10g
PBVMs:	
PB 10.2.1	9671
Eclipse	3.1.2
Web browser	Netscape 6.1 and 7.0
JDK Versions:	
1.3	1.3.1_18
1.4	1.4.2_13
1.5	1.5.0_09

2.1 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 7. 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*.

2.2 J2EE compliance

EAServer version 5.5 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.

Note Sybase recommends that you use JDK 1.5 in the startup script. To start the server with JDK 1.5, use this command:

```
serverstart.sh -jdk1.5
```

3. Special installation instructions

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

3.1 Running the installation on Red Hat Advanced Server 4.0

If installing on Red Hat Advanced Server 4.0, 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
```

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://www.sybase.com/support/manuals/. Browse to the EAServer 5.5 (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 Operating system

(CR #389991) Sometimes, when an external EAServer instance is terminated by its parent server, the port of the external server is not released by the Linux operating system. If this happens, the external server cannot restart because the port is not available.

5.2 EAServer Manager

The following are known issues in EAServer Manager.

5.2.1 Memory leak causes EAServer to crash

(CR #451310) If you connect any databases such as ASA, ASE, or Oracle using JDBC connection cache with JDK 1.4 and JDK 1.5, there is a memory leak. This will cause EAServer to crash. To resolve this problem:

1   Start EAServer with jvmtype client.

     For example, type:

     ```
     ./serverstart.sh -jdk14 -jvmtype client
     ```

2   Modify the following JVM properties in EAServer Manager:

     •   Increase the value in com.sybase.jaguar.server.stacksize property to 37600. This is mandatory.

- Edit the value in com.sybase.jaguar.server.maxconnections property to 5000.

- Increase the value in com.sybase.jaguar.server.jvm.maxHeapSize to 700M. This is mandatory.

3   Restart EAServer.

5.2.2 Proxy connection cache

(CR #440748) Since both Solaris and Linux are using unixODBC instead of DataDirect, you must enable the set-proxy support property in the cache properties file to make the proxy connection cache works. Before you begin, do the following tasks:

1   Create a pseudo user "jagadmin" in ASA (to connect to user's database or server)

```
grant connect to jagadmin identified by " "
```

2   Set the session for jagadmin

```
set session authorization "jagadmin"
```

For more information about the connection cache, see Chapter 4, "Database Access," and the "Connection cache properties" in Appendix B, "Repository Properties Reference," in the *EAServer System Administration Guide*.

5.2.3 JDBC connection cache

(CRs #440605, #440158, and #427244) An error occurs when closing the database connection with jdbc3 driver. To work around this issue, you can use one of the following methods:

- Modify the connection pool driver from com.sybase.jdbc3.jdbc.SybDriver to com.sybase.jdbc2.jdbc.SybDriver.

- Retain jdbc3 driver. However, you need to update the *jConnect3.jar* and *jTDS3.jar* files. After updating these files, upgrade the database, and set the J2EE_TCK_COMPLIANT to true before running the application:

  a   Download the jConnect for JDBC 6.05 at http://www.sybase.com/downloads to obtain the latest *jConnect3.jar* and *jTDS3.jar* files.

  b   Upgrade the database. Execute the relevant *sql* file, which is located in *jConnect-6_0\sp*. The *sql* file selected depends on the database version. For example, for ASE 12, select and run *sql_server12.sql*.

The following example illustrates how to upgrade Zeus database.

```
isql -S Zeus -U sa -P "" -i E:\tempshared\
jConnect-6_0\sp\sql_server_recreate12.5store_p.sql -c
go.
```

c   Modify the following codes to set J2EE_TCK_COMPLIANT to true.

Original code	Modified code
`URL = jdbc:sybase:Tds:<hostname>:<portno>`	`URL = jdbc:sybase:Tds:<hostname>:<portno>?` `J2EE_TCK_COMPLIANT=true`

`NetworkProtocol =`
`Tds:Server=<hostname>:Port=<portno>:`
`DatabaseName=<dbname>`
	`NetworkProtocol =`
	`Tds:Server=<hostname>:Port=<portno>:`
	`DatabaseName=<dbname>:J2EE_TCK_COMPLIANT=true`

`con=DriverManager.getConnection(url,user,`
`password)`
	`Properties p = new Properties();`
	`p.put("User",user);`
	`p.put("Password",password);`
	`p.put("J2EE_TCK_COMPLIANT",true);`
	`con = DriverManager.getConnection(url,p);`

For more information about the JDBC connection cache, see Chapter 4, "Database Access," in the *EAServer System Administration Guide*.

5.2.4 Online help

(CR #421583) The current online help on EAServer Manager 5.5 uses EAServer online help version 5.2.

5.2.5 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.

5.3 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 EAServer 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 -Xss*StackSize* 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* x *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*.

5.4 Security Administration

FIPS online help not available   (CR #430403) The FIP online help is not available when you click the Help button in Sybase Central 4.3 | Security Manager | Properties | Help.

To resolve this issue:

1   Unzip the file, *sechelpMap.jhm*, located in *$JAGUAR/easmgr/doc/sechelp.jar*.

    After unzipping the JAR file, get the file at */sechelp/sechelp/sechelp.Map.jhm*.

2   Add the following entry in *sechelpMap.jhm*:

```
<mapID target="helpFipsMode" url ="sechelp/sechelpp1.htm#TI3" />
```

5.5 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."

5.6 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.

5.7 Web Services Toolkit

The following are known issues in the EAServer 5.5 Web Services Toolkit.

5.7.1 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/.

5.7.2 Deploying JSP from PowerBuilder IDE causes an error

{CR #450402} When deploying a JavaServer Pages (JSP) Web Service project from PowerBuilder IDE, it results an error. Transcript of the error is stored in *Jaguar.log* file. When you click the hyperlink in the index page, it displays the page cannot be displayed error. There is no workaround for this issue.

5.7.3 Incorrect result with Literal option in Web service operation

(CR #439777) When you deploy a Java file with the Literal option in the document or a Remote Procedure Call (RPC) binding in the Web service operation, it generates an incorrect return value. There is no workaround for this issue.

5.7.4 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.

5.7.5 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.

5.7.6 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.

5.8 Web application

This section lists the known issue in the Web application.

5.8.1 *-syncwebappjavaclasses* parameter causes an error

(CR #418643) If you use the -syncwebappjavaclasses option in jagtool that is set to false to synchronize the EJB class files, this results an error. This parameter is ignored if the entity type is Package:PKGName or Component:PKGName.

To work around this problem, add a new sync option in jagtool command, -syncjavaclasses [*true* | *false*]. The default setting is True. This new option has a higher priority over -syncwebappjavaclasses. Refer to "Chapter 12, Using jagtool and jagant" on page 26 of this document for more details about the sync command used by jagtool.

5.9 Installer

This section lists the installer known issue.

5.9.1 Unable to display localized Simplified Chinese characters

{CR #451420) When you select the location to install in localized character, the text field cannot display the characters correctly. For example, if you select PRC, in localized Simplified Chinese characters, in the country drop-down list, the Chinese characters do not display correctly. There is no workaround for this issue.

5.10 Java

(CR #451319) If you run the Java command under *jdk1.3._18/bin* folder, an error occurs. This problem will affect some of the functions in Jaguar. For example, if the user fails to execute jagant command, modify the JDK version to jdk14 in *jagant* script manually. This is a Sun JDK issue. This problem occurs only on RHAS Linux, but not on SUSE Linux distributions.

To workaround this problem, use JDK 1.4.

6. Fixed problems

The following issues are fixed in this version:

Bug ID	Description
445095	Memory leak will cause EAServer to crash.
	For different platforms, EAServer using JDK 1.4 or JDK 1.5 may require different stack size. To ensure that EAServer works with JDK 1.4 or JDK 1.5 on either SUSE or Red Hat, you need to set the stack size to 512000. If you are using JDK 1.3, the stack size is 51200.
	To resolve this issue:
	• Increase the Thread Stack Size (Unix Only) to 51200 in the EAServer Manager Server Properties menu.
	• Increase the Max Number Client Sessions to 2000 in the EAServer Manager Server Properties menu.
	• Increase the Max Number Threads to 2000 in the EAServer Manager Server Properties menu.
	• Change the property of the component by selecting the Sharing option and Transient option in EAServer Manager.
	See Chapter 3, "Creating and Configuring Servers," in the *EAServer System Administration Guide* for more details.
	After setting the properties, restart EAServer. This should work.
	This issue has a cross-reference Bug ID: 445298.
428529	Classes under com.sybase.* will not be exported in Jaguar JAR file.
419352	Time presentation of ELFF setting in *Jaguarhttprequest.log*. This issue has a cross-reference Bug ID: 437931. Refer to "Appendix B, Repository Properties Reference" of this document for more details.
397455	Feature request for config property to disable reverse host name lookup.
396484	Exposing components as Web services, there are some restrictions to the datatype of the component method's arguments deployed.
390867	Hot Deployment.

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.
373812	When using Sol4x FIPS redirector libraries to start iPlanet 6.0, the Web server does not start.
373708	Update Web service sample.
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.

Bug ID	Description
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.
369306	The Web service name in the Stateless EJB sample has been fixed.
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.

Bug ID	Description
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.
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	*jagmgr_install.bat* and *sasecmgr_install.bat* 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.

Bug ID	Description
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 *$JAGUAR/intersolv/odbc.ini*.
365522	Focus lost and dialog auto hidden in EAServer Manager.
365500	Publishing message to topic fails in JSP FragmentCaching on Solaris.
365475	Cannot connect to Security Manager.
365340	Intercomponent calls cannot get a connection when the connection caches are different and the second component's properties are set to Requires or Requires New.
365255	A Confirm Delete dialog issue.
365189	Help ID is incorrect in Log Profile wizard.
365127	EAServer FIPS Security Manager multi_trials logged.
364970	Refreshing Web application causes warning message and intermittent problems.
364785	EAServer Manager does not start properly.
364734	DLB_* compclientLB fails with JDK 1.4.
364708	Solaris: *sqlunx.h* is missing in *$JAGUAR/include*.
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.
362433	EAServer CTS ejb.ee.tx.session.stateless fails SystemException: MARSHAL.

Bug ID	Description
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.
361701	URLs that contain embedded URLs as a request parameter cause 404 errors.
361597	Incorporate Axis 1.2 into the codeline.
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 *Jaguar.log* 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.
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 *WEB-INF/classes* are not picked up by class loader.
360588	Dynamic Load Balancing cannot be configured in EAS Manager GUI Properties Dialog.

Bug ID	Description
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 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 *Jaguar/Management* component.
360040	Sybase UDDI server database uses the wrong collation.
359937	Need setlocal for *upgradeCert.bat*.
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}'.

Bug ID	Description
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 Itaninum: 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.
355833	The Sybase UDDI server should allow for language IDs 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 *Jaguar.log* 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.
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.
354058	Null pointer exceptions in *Jaguarhttpservlet.log* in a newly installed server.
353983	Cannot add methods to a local interface EJB 2.0 with EAServer Manager.

Bug ID	Description
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.
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.
332796	The connector property com.sybase.jaguar.connector.java.classes allows specification of only one JAR file in *java/classes*. Change to allow a comma-separated list of directories and JAR files.

Bug ID	Description
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 PowerBuilder 10.2.1 virtual machines (PBVM) to host PowerBuilder components.

Note EAServer 5.5 does not support PowerBuilder versions 7.*x*, or 8.0.4, or 9.*x*.

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/pbjdbc12105.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 Known issues

Memory leak test on Linux   (CRs #441221 and #440749) If you connect any databases such as ASA, ASE, or Oracle using JDBC connection cache, EAServer will hang up after it runs for some seconds. There is no error log in *Jaguar.log* or in command prompt. This, however, does not happen if you use ODBC connection cache.

PowerBuilder with JDK 1.5   (CR #445330) If you use a previous version of PowerBuilder with JDK 1.5 in EAServer, some functions in PowerBuilder may not work.

To workaround this issue, use one of the following solutions:

- Start EAServer with JDK 1.4 or JDK 1.3

- Upgrade the existing version of PowerBuilder to 10.5 or later

7.2 PowerDynamo

EAServer 5.5 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 5.5 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.

7.3 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/.

7.4 Earlier EAServer (Jaguar CTS) versions

Clients using IIOP and earlier versions of the EAServer (or Jaguar CTS®) client runtime files can connect to EAServer 5.5. To manage EAServer 5.5, you must use a 5.5 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 Web Services Toolkit User's Guide

8.1.1 Chapter 2, Using Sybase Web Services Toolkit—an Eclipse plug-in

Error logging and debugging   (CR #435547) In the SOAP inspector section, append the following details to view the SOAP messages:

To view the contents of the SOAP Inbound and Outbound messages:

1   Select Sybase Web Services | Run ....

2   Select Sybase Web Services Application in the Configurations treeview in
     the Create, Manage, and Run Configurations dialog box.

8.2 EAServer Troubleshooting Guide

8.2.1 Chapter 1, Monitoring Techniques

EAServer log   (CR #417448) If you have changed the default configuration,
or run user-defined servers, the log file may not be *Jaguar.log*. To change or
verify the log file name:

1   Select Tools | Connect | EAServer Manager in Sybase Central to connect
     to EAServer plug-in.

2   Double-click the EAServer Manager icon.

3   Expand the connected host name to view the property folders. For
     example, the host name is the name of the machine that is connected to its
     default IIOP port number, 9000.

         mymachine.sybase.com:9000

4   Double-click the Log Profiles folder to expand the folders beneath it.

5   Double-click prod in the Log Profiles folder.

6   Select Handlers.

7   In the right pane, right-click eas, and select Properties.

8   Select the Type tab in the Handles Properties: eas dialog box and enter the
     file name in the File Name field.

9   Click OK.

8.3 EAServer System Administration Guide

8.3.1 Chapter 4, Database Access

Reconfigure JDBC
drivers properties

EAServer 5.5 supports jConnect™ for JDBC™ 6.0. Hence, you need to
reconfigure the JDBC connection caches by modifying the instances of jdbc2
to jdbc3. The following lists the affected instances.

JDBC level 1 connection pool drivers   (CR #399593) The Sybase jConnect
level 1 driver class property should be com.sybase.jdbc3.jdbc.SybDriver.

JDBC level 2 connection pool drivers   (CR #399593) The Sybase jConnect level 2 driver connection pool driver property should be com.sybase.jdbc3.jdbc.SybConnectionPoolDataSource.

Table 4-1: UNIX platform connection libraries   (CR #399593) If you are using a Sybase ASA or Adaptive Server Enterprise database, the values for the JDBC driver class properties should be:

• com.sybase.jdbc3.jdbc.SybConnectionPoolDataSource

• com.sybase.jdbc3.jdbc.SybDriver

Table 4-2: Windows platform connection libraries   (CR #399593) If you are using a Sybase ASA or Adaptive Server Enterprise database, the values for the JDBC driver class properties should be:

• com.sybase.jdbc3.jdbc.SybConnectionPoolDataSource

• com.sybase.jdbc3.jdbc.SybDriver

Table 4-3: Connection libraries and XA resource libraries for Solaris (CR #399593)   The XA resource library for JDBC database driver should be com.sybase.jdbc3.jdbc.SybXADataSource.

Table 4-4: Connection libraries and XA resource libraries for Windows (CR #399593)   The XA resource library for JDBC database driver should be com.sybase.jdbc3.jdbc.SybXADataSource.

Configuring an XA resource   (CR #399593) The value for the Driver property (DLL or Class Name) to configure the connection cache should be com.sybase.jdbc3.jdbc.SybXADataSource.

8.3.2 Chapter 8, Setting up the Message Service

Using the Configure Message Service Wizard   (CR #399593) The value for the database driver in the Note section in step 3 of the Configure Message Service Wizard setup should be com.sybase.jdbc3.jdbc.SybDriver.

8.3.3 Chapter 12, Using *jagtool* and *jagant*

sync   Synchronizes entities in the current repository to one or more remote repositories. Synchronization can be used to create identically configured servers in a cluster, or to copy entities from one server to another.

Syntax   **Local mode support:**   No.

Command line:

sync *connect-args*
[-syncjavaclasses *true|false*]

Ant build file:

<jag_sync
[syncjavaclasses="*true|false*"]
entity="entity" />

Option	Description	Default	Required
syncjavaclasses	When synchronizing Web application files, whether to include class files included in the Web application's custom class list. This option has a higher priority than - syncjavaclasses *[true	false]*.	true	No

8.3.4 Appendix B, Repository Properties Reference

Connection Cache XA properties   (CR #381969) The connection cache XA properties are, as follows:

com.sybase.jaguar.conncache.xa.conlibdll   This property specifies the DLL, shared library, or JDBC driver class name used for a two-phase commit (XA) connection.

com.sybase.jaguar.conncache.xa.remotesvrname   This property specifies the name of the server to connect to, which may be a URL for JDBC connection caches.

com.sybase.jaguar.conncache.xadllname   This property specifies the XA resource DLL used to support two-phase commit transactions.

Server properties   (CR #437931) Two new server are added for the extended log file format (ELFF) items to allow users to set the date and time in various formats.

com.sybase.jaguar.server.http.elffdatetimeformat   This property specifies date format (%Y-%m-%d %H:%M: %D GMT) in the ELFF items in the request log.

Syntax   The ELFF datetimeformat options are:

Options	Description	Options	Description
%a	Abbreviated weekday name. For example, Wed.	%A	Complete weekday name. For example, Wednesday
%b	Abbreviated month name. For example, Apr.	%B	Complete month name. For example, April.

Options	Description	Options	Description
%c	Date and time representation appropriate for locale	%d	Day of the month as in decimal number (01-31)
%H	Hour In 24-hour format (00-23)	%I	Hour in 12-hour format (01-12)
%j	Day of year as decimal in number (001-366)	%m	Month as in decimal number (01-12)
%M	Time in minutes as in decimal number (00-59)	%p	Current locale's A.M/P.M (as indicator for 12-hour clock)
%S	Time in second as in decimal number (00-59)	%U	Week of the year as in decimal number in which Sunday is the first day of the week (00-53)
%w	Weekday as in decimal number (0-6; Sunday is 0)	%W	Week of the year as in decimal number, with Monday as the first day of the week (00-53)
%x	Date representation for current locale	%X	Time representation for current locale
%y	Year without century as in decimal number (00-99)	%Y	Year with century as in decimal number
%z, %Z	Time-zone name or abbreviated time-zone name	%%	No character if time-zone is unknown.

See also   com.sybase.jaguar.server.http.elfflocaltime

com.sybase.jaguar.server.http.elfflocaltime   This property specifies time format in the ELFF items.

Syntax   `true` or `false`. The default is `false`.

Usage   If the property is set to false, the log file uses the GMT time. Otherwise, the log file uses the local time.

See also   com.sybase.jaguar.server.http.elffdatetimeformat

8.4 EAServer Security and Administration Guide

8.4.1 Chapter 5, Using SSL in Java Clients

Using SSL in Java applications   (CR #415788) The Requirements section provides the information about the runtime files and environment variable settings that are required when installing EAServer client runtime. You need to set the environment variable, JAGSSL to true in *$JAGUAR/bin/user_setenv.sh*. You need to create *user_setenv.sh* for EAServer to invoke.

8.5 EAServer Programmer's Guide

8.5.1 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.

8.5.2 Chapter 23, Using Filters and Event Listeners

Application lifecycle event listeners   (CR #399593) In the Sample listener example, the following `com.sybase.jdbc2.jdbc.SybDriver` should be replaced with `com.sybase.jdbc3.jdbc.SybDriver` in the section where it creates a database connection.

8.6 EAServer Performance and Tuning Guide

8.6.1 Chapter 4, EJB CMP Tuning

Using CMP JDBC wrapper drivers   (CR #399593) In the section where it specifies Sybase wrapper driver, the connection cache properties for this wrapper driver used should be com.sybase.jdbc3.jdbc.SybDriver.

8.7 EAServer Feature Guide

8.7.1 Chapter 1: Introducing EAServer

Support for asynchronous messaging   (CR #323517) If you are running the message service and your server is in a cluster, all the servers in the clusters must use the same repository.

8.8 EAServer Cookbook

8.8.1 Chapter 4: Creating Enterprise JavaBeans Components and Clients

Creating the connection cache   (CR #399593) The value for DLL or Class Name in the Tab/Setting in the Connection Cache wizard should be `com.sybase.jdbc3.jdbc.SybConnectionPoolDataSource`.

8.9 EAServer API Reference Manual

8.9.1 Chapter 5, C Routines Reference

JagCmCacheProps Routine   (CR #405596) The property, JAG_CM_CACHEBYNAME found in JagCmCacheProp routine is incorrect. This property that appears in this routine should be replaced with JAG_CM_BYNAMEALLOWED. You may find this property in the Parameter and Usage sections.

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   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.

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. 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.

11. Accessibility features

EAServer 5.5 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.

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.