

Release Bulletin Open Server™ Version 15.0 for IBM AIX

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1. Accessing current release bulletin information

A more recent version of this release bulletin may be available on the Web. To check for critical product or document information added after the release of the product CD, use the Sybase® Technical Library Product Manuals Web site.

❖ Accessing release bulletins at the Technical Library Product Manuals Web site

- 1 Go to Product Manuals at <http://www.sybase.com/support/manuals/>.
- 2 Follow the links to the appropriate Sybase product.
- 3 Select the Release Bulletins link.
- 4 Select the Sybase product version from the Release Bulletins list.
- 5 From the list of individual documents, select the link to the release bulletin for your platform. You can either download the PDF version or browse the document online.

2. Product summary

This release bulletin describes issues relating to Open Server.

Warning! If you install both Open Server and SDK in the same directory, Sybase recommends that you use the same version and ESD levels. Because Open Server and SDK share files, using different version and ESD levels can cause product failures.

Sybase Open Server version 15.0 products are available on IBM RISC System/6000 AIX version 5.2 (32-bit and 64-bit).

For more information regarding these platforms and the features supported, refer to Table 2 on page 10.

2.1 Product components

The Open Server version 15.0 CD includes the following components:

- Open Server, version 15.0
- Client-Library™, version 15.0
- Language modules, version 15.0

2.2 POSIX threads and pthreads libraries

Open Server uses POSIX threads. When you use threaded libraries (*_r), link with the pthreads library.

See the Open Client and Open Server *Programmer's Supplement* for UNIX for information on Open Client libraries.

Note DB-Library does not support any type of thread interface.

2.3 IPv6 support

As of this release, Open Server on IBM AIX 5.2 supports IPv6.

2.4 Sample files

You can also find sample files in the Open Server installation directory `$$SYBASE/$SYBASE_OCS/sample`.

3. Special installation instructions

See the Software Developer's Kit and Open Server *Installation Guide* version 15.0 for your platform for instructions on how to install the software. For guidelines for installing Open Server with other Sybase products on the same server, refer to "Guidelines for installing Open Server with other Sybase products" on page 11 of this release bulletin.

For instructions on configuring your environment, see the Open Client and Open Server *Configuration Guide* version 15.0 for your platform.

For information on compiling and executing Open Client and Open Server applications, including the sample programs, see the Open Client and Open Server *Programmer's Supplement* version 15.0 for your platform.

3.1 Installing EBFs

To ensure that your installation is the most current, Sybase strongly recommends that, after you have installed Open Server version 15.0, you download and install the corresponding latest available EBFs. You can download product updates at Sybase Downloads at <http://downloads.sybase.com>.

Each Open Server release includes a subset of the SDK. Thus, Open Server EBFs contain two separate version strings: one for the Open Server EBF, and one for the SDK files, such as Client-Library, isql, and bcp.

For example, in an Open Server product, the Server-Library version string might be `Server-Library/15.0/P-EBF9728-9715`, and the Client-Library string might be `Client-Library/15.0/P-EBF9728-9715`. In these version strings, 9728 identifies the Open Server EBF, and 9715 identifies the Client-Library file (as well as other SDK files).

To verify that you are using the correct version of Open Server, enter the following command to check the version string of the Open Server library:

```
strings libsybsrv.a | grep Sybase
```

3.2 Installation and configuration instructions

Follow the instructions in the Software Developer's Kit and Open Server *Installation Guide* version 15.0 for your platform to install the SDK and Open Server software. When the software has completed installation with no errors, the products are ready to use and you can configure your environment.

3.3 Modifying *interfaces* file entries with *dscp* or *dsedit*

Use *dscp* or *dsedit* to modify directory service entries. See the Open Client and Open Server *Configuration Guide* version 15.0 for UNIX for details on how to use these utilities.

4. Changed functionality in this version

Changed functionality for Open Server is described in the New Features Guide, *New Features SDK 15.0 and Open Server 15.0 for Microsoft Windows and UNIX*.

5. Known problems

This section describes all of the known issues that exist for this release.

5.1 Availability with 64-bit libraries

Version 15.0 of Open Server is available in 64-bit versions, with this caveat:

- Applications using the 64-bit libraries must be compiled with the `-DSYB_LP64` flag.

5.2 Open Server hangs when file descriptor limit exceeds

[CR #341870]

Open Server hangs when it exceeds the file descriptor limit. When this occurs, you see the following message:

```
SRVLIB Message: Test_ctos - 16240/10/0: Net-Library routine
net_accept() failed in srv_conservice
Network error: status = 159 - Error string not available
```

Workaround: Increase the file descriptor limit to a larger value, for example, 8192.

5.3 Open Server shutdown dumps when running sample programs

[CR #402125]

To ensure that the Open Server 15.0 Server-Library sample programs work properly in the IBM AIX 5.2 environment, set the environment variable `IRS_NONISPLUS` to 1. For more information, see your IBM documentation.

5.4 Incorrect ASE default packet size with SSL functionality causes Open Client/Open Server applications to hang

[CR 395517]

If you set the ASE default network packet size to larger than 4096 bytes and then enable Secure Sockets Layer (SSL), Open Client/Open Server applications can hang. To avoid this, set the default network packet size to 4096 bytes or less, using `sp_configure`.

5.5 Error in installer string

[CR #398187]

The installer version string contains “EBF XXXXX”, which you can ignore.

5.6 Language installation using ASE langinstall fails in pre-15.0 ASE location

[CR #398720]

Addition of any new Sybase supported language using `langinstall` on UNIX (or `langinst.exe` on Windows) fails if you install Open Server 15.0 in a pre-15.0 ASE installation directory. Open Server15.0 locales overwrites the locales in the pre-15.0 ASE installation directory.

Sybase recommends that you not install Open Server 15.0 in a pre-15.0 ASE release area.

5.7 InstallShield issues

This section describes the known problems you might encounter when installing the Open Server product.

5.7.1 Server not responding causes InstallShield to hang

[CR #402530]

If you have an inaccessible NFS mounted device, InstallShield can hang while displaying the following message:

```
Performing install checks. Please wait ...
```

If this happens, the console from which you executed the installation displays a message similar to the following:

```
NFS3 server not responding still trying
```

You can verify this problem by executing `df -P` command from a command prompt. This command should also hang.

Workaround:

- 1 Stop the installation process.
- 2 Unmount the inaccessible device.
- 3 Retry the installation.

5.7.2 Installation fails with a “JVM not found” error

[CR #402531]

If the installation directory has set-group-ID bit set, the installation may fail with the following error:

```
JVM not found
```

If this happens, the *install_location/log.txt* file (where *install_location* is your installation directory) contains an error similar to the following:

```
An error occurred attempting to copy the current JVM:  
ServiceException: (error code = 399; message = "Command  
failed: '/bin/chmod 775 <install location>/uninstall  
/JRE-1_4 ' rc = 1 Error message: chmod: not all  
requested changes were made to <install location>  
/uninstall/JRE-1_4
```

Workaround: Retry the installation a second time.

5.7.3 InstallShield overwrites existing Sybase files

[CR #402532]

InstallShield overwrites any existing file with the same name.

To protect against loss of data, save a copy of the `$SYBASE/SYBASE.sh` and `$SYBASE/SYBASE.csh` files before installing Open Server product under the `$SYBASE` directory.

5.7.4 Error messages received during creation of response file

[CR #398188]

Error messages appear when SDK 15.0 installer generates a response file. The response file is created when the "template" option is used during setup.

Error messages begin with, "...Error formatting options file entry...Illegal character '8' in encoding name", and end with, "Options file ... was successfully created, however one or more entries were not formatted properly".

Ignore these error messages as they have no effect on the functionality of the response file created.

6. Product compatibilities and interoperability

Version 15.0 of Open Server works with Adaptive Server 15.0 on the following platforms:

- IBM RS/6000 AIX 5.2
- HP-UX 11.11 (or HP-UX 11iv1.0)
- Linux RHEL 3.0
- Sun Solaris 2.8 (SPARC)
- Windows 2000, 2003, XP

Table 1 lists the compilers Sybase uses to build version 15.0 of Open Server 15.0.

Note These are not the only compilers you can use to build the programs.

Table 1: Open Server platform compatibility

Platform	Operating system level	C and C++ compilers	COBOL compilers	Kerberos version	*Light-weight Directory Access (LDAP)	Secure Sockets Layer (SSL)
HP-UX 11.11 32-bit	HP-UX 11iv1	HP C/ANSI C B.11.11.10 HP ANSIC++ B3910B A.03.10	MF Server Express 4.0	CyberSafe Trust Broker 2.1	Netscape LDAP 4.1	Certicom SSL Plus 5.0.4, SBGSE 2.0
HP-UX 11.11 64-bit	HP-UX 11iv1 with Patch bundle 99OP	HP C 11.11.10 ANSI HP ANSIC++ B3910B A.03.10	Not available	Not available	Netscape LDAP 4.1	Certicom SSL Plus 5.0.4, SBGSE 2.0
IBM 32-bit	AIX 5.2	C++ 5.0.22	MF Server Express 4.0	CyberSafe Trust Broker 2.1	Netscape LDAP 4.1	Certicom SSL Plus 5.0.4, SBGSE 2.0
IBM 64-bit	AIX 5.2	C++ 5.0.22	Not available	Not available	OpenLDAP 2.2.23	Certicom SSL Plus 5.0.4, SBGSE 2.0
Linux Intel 32-bit	Red Hat EL 3.0	gcc 3.2.3-42	Not available	MIT 1.4.1	Netscape LDAP 4.1	Certicom SSL Plus 5.0.4
Sun 32-bit	Solaris 2.8	Sun C/C++ 6.2	MF Server Express 4.0	CyberSafe Trust Broker 2.1, MIT 1.4.1	Netscape LDAP 4.0	Certicom SSL Plus 5.0.4, SBGSE 2.0
Sun 64-bit	Solaris 2.8	Sun C/C++ 6.2	Not available	CyberSafe Trust Broker 2.1, MIT 1.4.1	Netscape LDAP 4.1	Certicom SSL Plus 5.0.4, SBGSE 2.0
<ul style="list-style-type: none"> • Windows 2000 • Windows 2003 • Windows XP 	<ul style="list-style-type: none"> • Service Pack 4 • Service Pack 1 • Service Pack 1 	MS C 6.0 (Microsoft Developers Studio; unoptimized, development only)	NetExpress 4.0	CyberSafe Trust Broker 4.0	Netscape LDAP 4.0	Certicom SSL Plus 5.0.4, SBGSE 2.0

6.1 Open Client and Open Server compatibility

Open Server version 15.0 is certified to work with the Client-Library and Adaptive Server products shown in Table 2:

Table 2: Open Client and Open Server compatibility

Open Server 15.0 platform	Client-Library 15.0	Client-Library 12.5.1	Adaptive Server 15.0	Adaptive Server 12.5.3
HP-UX 11.11 32-bit	x	x	x	x
HP-UX 11.11 64-bit	x	x	x	x
IBM AIX 5.2 32-bit	x	x	x	x
IBM AIX 5.2 64-bit	x	x	x	x
Linux RHEL 3.0 32-bit	x	x	x	x
Solaris 2.8 SPARC 32-bit	x	x	x	x
Solaris 2.8 SPARC 64-bit	x	x	x	x
Windows 2000	x	x	x	x

LEGEND: x = compatible; n/a = product not available on that platform.

Additionally, for Open Server:

- Header files included in an application must be the same version level as the library with which the application is linked.
- Bulk-Library routines cannot be used in applications that call Open Server version 2.x routines.
- DB-Library™ based Open Server applications are not supported starting with version 11.x or later.

6.2 Interoperability matrix

Table 3 shows the interoperability matrix of Adaptive Server, Replication Server®, SDK, and Open Server across versions. For specific platform or O/S level information, refer to the respective product certification reports.

Although two or more products can be interoperable, remember that new features introduced in a newer version of a product may not be supported with older versions of the same or other products.

For the latest interoperability report on these products, refer to the technical document (#1026087) on MySybase at <http://www.sybase.com/>.

Table 3: Interoperability matrix

Adaptive Server Enterprise 15.0		SDK and Open Server		Replication Server		
	12.5.1	15.0	12.5.1	12.6	12.5	12.1
HP-UX 11.11	x	x	x	x	x	x
IBM AIX 5.2	x	x	x	x	x	x
Linux RHEL 3.0	n/a	x	x	x	n/a	n/a
Sun Solaris 2.8	x	x	x	x	x	x
Windows 2000, 2003, XP	x	x	x	x	x	x

LEGEND: x = compatible; n/a = product not available on that platform.

Note The Open Client and Open Server compatibility information shown in Table 3 is relevant only if the compatible products are installed in different \$SYBASE directories.

6.2.1 Guidelines for installing Open Server with other Sybase products

Below are guidelines for installing version 15.0 of Open Server on the same server with other Sybase products:

- In general, Sybase recommends that you place new installation of Open Server in separate directories from other Sybase products, such as Replication Server, OpenSwitch, Enterprise Connect™ Data Access, and Sybase IQ, unless Sybase Tech Support has specifically recommended installation in the same directory to address an issue.
- Sybase does not recommend mixing versions of SDK and Open Server in the same directory. For example, do not install SDK 15.0 in a directory containing Open Server 12.5.1—in this case, upgrade both SDK and Open Server to 15.0.

6.3 SDK and Open Server compatibility

For SDK and Open Server compatibility, the header files included in an application must be the same version level as the library with which the application is linked.

7. Programming issues

This section describes programming issues relevant to Open Server.

7.1 General issues

This section describes programming issues for all Open Server products.

7.1.1 Upgrading to a new release

For statically and dynamically linked Open Server applications (srvlib), Sybase recommends the following:

- For statically linked applications, you must do a complete rebuild of the applications with the new version of software. You must recompile and relink the applications with the new header files and libraries.
- For dynamically linked applications, Sybase recommends a recompile and relink with the SDK libraries that have changed to include “syb” in library names.

Note If you have made any changes to the application files, a recompile is mandatory.

Be certain that the runtime libraries are for the same major release as the version used to build the application.

7.2 Open Server issues

This section describes programming issues of Open Server version 15.0.

7.2.1 Timeslice property and multithreaded library versions

The SRV_S_TIMESLICE Open Server property is not supported if you use the multithreaded versions of the Sybase libraries. Applications can set this property, but it has no effect; therefore, you must change existing application code that depends on timeslice events before relinking with the multithreaded libraries.

Applications can call `srv_capability` to determine if the timeslice feature is supported.

8. Technical support

Each Sybase installation that has purchased a support contract has one or more designated people who are authorized to contact Sybase Technical Support. If you have any questions about this installation or if you need assistance during the installation process, ask the designated person to contact Sybase Technical Support or the Sybase subsidiary in your area.

9. Other sources of information

Use the Sybase Getting Started CD, the 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/>.

9.1 Sybase certifications on the Web

Technical documentation at the Sybase Web site is updated frequently.

❖ Finding the latest information on product certifications

- 1 Point your Web browser to Technical Documents at <http://www.sybase.com/support/techdocs>.
- 2 Click Document Types under Technical Documents from the navigation bar on the left. Then, click Certification Report.
- 3 In the Certification Report filter, select Product, Platform, and Timeframe. 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 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.

9.2 Sybase EBFs and software maintenance

❖ Finding the latest information on EBFs and software maintenance

- 1 Point your Web browser to the Sybase Support Page at <http://www.sybase.com/support>.
- 2 Select EBFs/Maintenance. 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.

10. Accessibility features

This document is available in an HTML version that is specialized for accessibility. You can navigate the HTML with an adaptive technology such as a screen reader, or view it with a screen enlarger.

Open Client and Open Server documentation has been tested for compliance with U.S. government Section 508 Accessibility requirements. Documents that comply with Section 508 generally also meet non-U.S. accessibility guidelines, such as the World Wide Web Consortium (W3C) guidelines for Web sites.

Note You might need to configure your accessibility tool for optimal use. Some screen readers pronounce text based on its case; for example, they pronounce ALL UPPERCASE TEXT as initials, and MixedCase Text as words. You might find it helpful to configure your tool to announce syntax conventions. Consult the documentation for your tool.

For 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.

