



Release Bulletin

Sybase IQ 15.4

Windows

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Contents

Product Summary	1
Product Compatibilities	1
Network Clients and ODBC Kits	1
Installation and Upgrade	3
Problem Solutions from Earlier Versions	5
Sub-Capacity Licensing	5
Database Upgrades	6
Sybase IQ and Other Sybase Products	7
Known Issues	9
Restrictions	9
SySAM Licensing	10
Sybase IQ Operations	11
Sybase IQ Operations Known Issues from Previous Versions	12
Multiplex Environment	14
Interactive SQL	15
Sybase Central	17
Sybase Central Known Issues from Previous Versions	19
Documentation Changes	21
IQ Plug-in Sybase Central Online Help Documentation Changes	21
Utility Guide Documentation Changes	21
Reference Guide Changes	22
Installation Guide Changes	25
Obtaining Help and Additional Information	27
Technical Support	27
Information for Technical Support	27
Checklist: Information for Technical Support	29
Downloading Sybase EBFs and Maintenance Reports	30

Contents

Sybase Product and Component Certifications	30
Creating a MySybase Profile	30
Sybase IQ Newsgroup	31
Sybase IQ Users' Group	31
Accessibility Features	31

Product Summary

This release bulletin provides late-breaking information about Sybase® IQ. A more recent version may be available on the Web.

For information about compatible platform and operating system configurations and minimum patch levels, see the *Installation and Configuration Guide*.

For information about new features and behavior changes in this version, see the *New Features Summary Sybase IQ*.

For information about accessibility, see *Accessibility Features* in this release bulletin.

Product Compatibilities

Information about the compatibility of Sybase IQ with other products.

These Sybase products are certified with this version of Sybase IQ:

- jConnect™ for JDBC™ 7.0
- Sybase IQ InfoPrimer 15.3
- Sybase Control Center (SCC) 3.2.4

These Sybase products are certified to work as backends in CIS functionality with this version of Sybase IQ :

- SQL Anywhere® 12.0.1
- Adaptive Server® Enterprise 15.5

See *Sybase Product and Component Certifications* for instructions on accessing the latest online certification information.

Network Clients and ODBC Kits

Sybase IQ Network Clients and ODBC kits for development are available on the Sybase download site. A Network Client is available for each platform supported by this version of Sybase IQ. Windows and Linux 32-bit clients are also available.

The Sybase download site is <http://www.sybase.com/downloads>.

Sybase IQ 15.4 does not require an upgrade of the 32-bit ODBC kits, if you are currently using Sybase IQ 15.2 32-bit ODBC kits.

Product Summary

Installation and Upgrade

Last-minute information about installation and upgrading that was omitted from or incorrect in your installation guide, or that needs special emphasis.

For detailed information about installing and upgrading Sybase IQ, see the *Installation and Configuration Guide*.

Before you run a new version of Sybase IQ, see *Restrictions* for the most current requirements. This section includes installation and migration information that is new for this release or needs emphasis.

Sybase strongly recommends that you check the online support Web site for software updates to these components before you install the software. If a software update (ESD or EBF) has been released, it contains bug fixes made after this product shipped. You must download the latest update and install it after installing Sybase IQ. See *Downloading Sybase EBFs and Maintenance Reports*.

Sybase IQ 15.4 Requires a License

Sybase IQ 15.4 uses the Sybase Software Asset Management (SySAM) licensing mechanism that lets system administrators enable and monitor their site's use of Sybase products.

Sybase IQ includes separate SySAM licenses for each product edition and separate licenses for any optional features available for that edition. See *Installation and Configuration Guide > Licensing Your Software*.

Driver Files sajdbc.jar and sajdbc4.jar Missing [CR #691609]

Sybase IQ 15.4 does not install the driver files `sajdbc.jar` and `sajdbc4.jar`. Contact Sybase IQ Customer Support to obtain these supported drivers.

Avoid Using Relative Path to Launch Installer [CR #691212]

Sybase IQ installation fails if you use launch the installer using a relative path. During GUI installation, the installer fails to prompt for the license file information and does not install properly.

For example, when launched from the console using a command line:

```
Installer files directory : /system1/users/jones/installldir
$SYBASE dir : /system1/users/jones/IQ154
```

```
cd $SYBASE
../installldir/setup.bin
```

- **Workaround** – Launch the installer from the directory where it is located, or use an absolute path.

Custom Sybase Control Center Install Omits HTTP, HTTPS, and RMI Prompts [CR #688044]

If you perform a custom install and only choose the Sybase Control Center for IQ option, the installer does not display the port configuration panel.

- **Workaround** – If you want to modify the default values, you can manually update the port properties in the SCC service configuration files.

In `$$SYBASE/SCC-3_2/services/EmbeddedWebContainer/service-config.xml`, update the http and https properties:

```
<set-property property="http.port" value="8282" />
      <set-property property="https.port" value="8283" />
```

In `$$Sybase/SCC-3_2/services/RMI/service-config.xml`, update RMI port:

```
<set-property property="port" value="9999"/>
```

Note: UNIX variables and path names shown. Windows users substitute `%SYBASE%` as the installation location and change forward slash (/) path separators to back slashes.

Sybase Partners with v3 UDFs Must Specify a License Key When Upgrading to v4 [CR #688135]

If you are a Sybase design partner using v3 UDFs, your UDFs will not continue to work after you upgrade your libraries to v4 unless you specify the Sybase-provided license key in the `a_v4_extfn_license_info` structure. You must implement the `extfn_get_license_info` method, and the method must return a valid key. See the *User-Defined Functions* guide for information on upgrading to the v4 API, and adding the `extfn_get_license_info` method.

SySAM Licensing Checkout [CR #628594]

If Sybase IQ was licensed using a per-processor license type in previous releases, the license quantity was determined at startup. In this release, Sybase IQ periodically checks the number of processors it can use and attempts to check-out additional licenses for any increase. Sybase IQ shuts down after 30 days, if additional licenses are not made available within this period. See the *SySAM Users Guide* for details regarding license grace.

ALTER DATABASE UPGRADE PROCEDURE ON Required

To install new system tables, you must run **ALTER DATABASE UPGRADE PROCEDURE ON** on existing databases after installing Sybase IQ 15.4.

For syntax, see *Reference: Statements and Options*.

Problem Solutions from Earlier Versions

Sybase IQ includes solutions to problems that were solved in post-release updates to earlier versions.

Sybase IQ 15.4 ESD #3 contains solutions to problems fixed up to and including these versions:

- Sybase IQ 15.1 ESD #3 (N off #7 - Sybase IQ 15.1 ESD #3.7)
- Sybase IQ 15.2 ESD #1 (N off #8 - Sybase IQ 15.2 ESD #1.8)
- Sybase IQ 15.2 ESD #2 (N off #3 - Sybase IQ 15.2 ESD #2.3)
- Sybase IQ 15.2 ESD #3
- Sybase IQ 15.3 GA
- Sybase IQ 15.4 ESD #1
- Sybase IQ 15.4 ESD #2

Sub-Capacity Licensing

Sybase offers sub-capacity licensing options for Sybase IQ Enterprise Edition. Sub-capacity licensing refers to licensing a Sybase product on a subset of the CPUs available on a physical machine.

Platform support

Sub-capacity licensing is supported on the following platforms:

Table 1. Sub-Capacity Licensing Vendor Support

Vendor	Product	Platform Support	Virtualization Type
HP	nPar	HP IA 11.31	Physical Partition
	vPar		Virtual Partition
	Integrity Virtual Machines with Resource Manager		Virtual Machine
	Secure Resource Partitions		OS Containers
IBM	LPAR	AIX 6.1	Virtual Partition
	dLPAR		Virtual Partition
SUN	Dynamic System Domains	Solaris 10	Physical Partition

Vendor	Product	Platform Support	Virtualization Type
	Solaris Containers/Zones with Solaris Resource Manager		OS Partition
INTEL/AMD	VMWare ESX Server ¹ Guest OS: Windows	VMWare ESX Server 3.5, 4.0, and 4.1 Guest OS: Windows 2008 R2, Windows 7	Virtual Machine
	VMWare ESX ServerGuest OS: Linux	VMWare ESX Server 3.5, 4.0 and 4.1 Guest OS: RH 5.5, SuSE 11, Sun Solaris x64	Virtual Machine
	Xen ² , DomainU: Windows	Windows 2008 R2, Windows 7	Virtual Machine
	Xen, DomainU: Linux	RH 5.5, SuSE 11	Virtual Machine
	¹ VMWare excludes VMWare Workstation and VMWare Server ² Xen excludes Sun Solaris x64		

How to enable Sybase sub-capacity licensing

You must have a sub-capacity licensing agreement with Sybase before you can enable sub-capacity licensing. If you choose to use Sybase IQ in a sub-capacity environment, see the *SySAM Quick Start Guide* for instructions for generating your license key.

Note: Keep your license server up-to-date.

Although the installation media includes a copy of the most recent SySAM license server, Sybase recommends that you periodically check for license server updates on the *SySAM Standalone License Server Install site*.

Database Upgrades

Important information about database upgrades.

For detailed information about installing and upgrading Sybase IQ, see the *Installation and Configuration Guide*.

Drop Global Temporary Tables Before Running iqunload [CR #717855]

Use **DROP TABLE** statements to drop all global temporary tables before you run the **iqunload** utility. You can recreate global temporary tables after migration.

iqunload migrates 12.7 FPIDX databases that use the *asejdbc* remote data access class [CR #682589]

Although the `asejdbc` server class is deprecated, the **iqunload** tool migrates remote server definitions based on the `asejdbc` driver from Sybase IQ 12.7 databases to Sybase IQ 15.4. Set the **cis_option** to use the remote server at runtime.

Sybase Central Plug-in Compatibility [CR #667451]

Due to security fixes in IQ 15.3, the Sybase IQ 15.4 plug-in for Sybase Central™ and Sybase Central Agents are not compatible with versions of Sybase IQ earlier than 15.2 ESD #3. You can use the 15.4 plug-in only with Sybase IQ servers that are 15.2 ESD #3 or later, including 15.4; you cannot use the 15.4 plug-in to connect to 12.x servers or servers earlier than 15.2 ESD #3. See *New Features Summary*.

Upgrade Invalidates Data Source Names [CR #487858]

In Sybase IQ 15.x, 32-bit drivers are located in the `bin32` directory, instead of `win32`, and 64-bit drivers are now in the `bin64` directory, instead of `x64`. Therefore, when migrating from 12.x to 15.x, you may need to update registries and applications to locate libraries. For example, `win32\dbodbc11.dll` is now in `bin32`.

Default Password Value Change

The default password is `sql` in lowercase.

Sybase IQ and Other Sybase Products

Issues you should know when you install Sybase IQ with other Sybase Products.

CR #	Description
688696	<ul style="list-style-type: none"> Installer hangs when you install Sybase IQ into the same directory as Sybase IQ InfoPrimer (IQIP) – Sybase products share a common parent directory (<code>%Sybase%</code>), but individual products are installed in separate subdirectories. Workaround – Do not install Sybase IQ and Sybase IQIP into the same directory. Create a subdirectory under <code>%SYBASE%</code> when you install Sybase IQIP. For example, install the IQIP server into <code>%SYBASE%\IQIPS-15_3</code> (or install the IQIP Development Tool to <code>%SYBASE%\IQIPD-15_3</code>), which is actually the default directory of IQIP on Windows, and then install Sybase IQ to <code>%SYBASE%</code>.

CR #	Description
688232	<ul style="list-style-type: none"> • Cannot start Sybase Central after installing Sybase IQ 15.4 on top of Adaptive Server Enterprise 15.7 – • Workaround – Modify the <code>scjview.ini</code> file under <code>%SYBASE%\Shared\Sybase Central 6.1.0\win64</code> to point the <code>JRE_DIRECTORY</code> to <code>%SYBASE%\Shared\JRE-6_0_24_64BIT</code> instead of <code>%SYBASE%\Shared\JRE-6_0_20_64BIT</code>. Start the Sybase Central of IQ and then manually register the IQ plugin.
688691	<ul style="list-style-type: none"> • Cannot start Sybase Central for RMP after Replication Manager Plugin 15.2 is installed on top of Sybase IQ 15.4 – • Workaround – After you install Replication Manager Plugin 15.2: <ol style="list-style-type: none"> 1. Modify the <code>scjview.ini</code> file in the <code>%SYBASE%\shared\Sybase Central6.0.0\win32</code> directory. 2. Change the value of the <code>JRE_DIRECTORY</code> to point to <code>%SYBASE%\shared\JRE-6_0_20_32BIT</code> instead of <code>JRE-6_0_20_64BIT</code>.

Known Issues

Descriptions of known issues, workarounds, and restrictions.

Find issues by Change Request (CR) number.

Note: You can search the Sybase Web site for solved cases. Choose **Support > Solved Cases** or go to <http://search.sybase.com/search/simple.do?mode=sc>. You need a MySybase account to view solved cases in the archive.

Restrictions

Consider information about restrictions to avoid unexpected results from your system.

This information applies to servers and databases of this version of Sybase IQ that have been upgraded from any earlier version of Sybase IQ, unless specified otherwise.

Sybase Central Plug-in Compatibility [CR #667451]

Due to security fixes in IQ 15.3, the Sybase IQ 15.4 plug-in for Sybase Central™ and Sybase Central Agents are not compatible with versions of Sybase IQ earlier than 15.2 ESD #3. You can use the 15.4 plug-in only with Sybase IQ servers that are 15.2 ESD #3 or later, including 15.4; you cannot use the 15.4 plug-in to connect to 12.x servers or servers earlier than 15.2 ESD #3. See *New Features Summary*.

Database Name Length Restriction [CR #365281]

The **dbbackup** utility truncates the database name to 70 characters and creates a target file with a truncated name. Sybase IQ uses **dbbackup** when synchronizing secondary servers. Due to **dbbackup** restrictions, database names must be less than 70 characters long.

Dbspace Management and File Placement

When you allocate file system files for dbspaces (System, IQ Main, or IQ Temporary), do not place the files on a file system that is shared over a local area network. Doing so can lead to poor I/O performance and other problems, including overloading the local area network. Do not place IQ dbspace files on network drives or Network File System (NFS) file systems.

To avoid conflicts, Sybase recommends that dbspace management be performed by a single database administrator on a single connection.

Dbspace Naming in RESTORE Command [CR #561366]

If the dbspace name contains a file extension such as `.iq`, `.iqtmp`, or `.iqloc`, you must enclose the dbspace name in double quotation marks when specifying the name in a **RESTORE** command **RENAME** clause. For example:

Known Issues

```
RENAME local1 TO '/work/local1_res.iqloc.iqloc'  
DBSPACENAME "local1_res.iqloc"
```

or

```
RENAME "test_prod2.iq" TO '/test/test_prod7.iq'
```

Unexpected Query Results

In a few unusual circumstances, differences in semantics between SQL Anywhere and Sybase IQ may produce unexpected query results. These circumstances are:

- A query is issued from inside a user-defined function
- A **SELECT** statement has no **FROM** clause
- A **FROM** clause contains some tables that were created **IN SYSTEM** and others that were not created **IN SYSTEM**

In these circumstances, subtle differences between the semantics of SQL Anywhere and Sybase IQ may be exposed. These differences include:

- Sybase IQ treats the **CHAR** and **VARCHAR** data types as distinct and different; SQL Anywhere treats **CHAR** data as if it were **VARCHAR**.
- When the **RAND** function is passed an argument, the behavior is deterministic in Sybase IQ and nondeterministic in SQL Anywhere.

Known Issues for SySAM Licensing

Descriptions of known issues and workarounds for SySAM licensing. These issues affect users who generate the license file from either SPDC or SMP.

Table 2. SySAM licensing issues

CR#	Description
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Known Issues for Sybase IQ Operations

Descriptions of known issues and workarounds for Sybase IQ operations.

Table 3. Open Client issues

CR#	Description
662422	<ul style="list-style-type: none"> Remote query performance degrades with DATETIME column – Sybase IQ 15.4 and the default Open Client/Server included with Sybase IQ 15.4 support the TDS BIGDATETIME data type for remote queries. <p>When a Sybase IQ server executes a remote query using Open Client and fetches a DATETIME column on an IQ/SA remote server, the return data type is BIGDATETIME, instead of DATETIME. This may degrade performance.</p> <p>This performance degradation may not occur, when the remote server is an ASE server.</p> <p>To prevent the return of BIGDATETIME values, apply this workaround.</p> Workaround – Add these lines to the Open Client and Open Server configuration file \$SYBASE/\$SYBASE_OCS/config/ocs.cfg to prevent the return of BIGDATETIME values: <pre>[Sybase IQ] CS_CAP_RESPONSE = CS_DATA_NOBIGDATETIME</pre> <p>See also <i>Open Server 15.0, Open Client 15.0, and SDK 15.0 > Open Client Client-Library/C Reference Manual > Client-Library Topics > Using the runtime configuration file.</i></p>

Table 4. Server startup issues

CR#	Description
663054	<ul style="list-style-type: none"> Database recovery fails if server started with -iqro 1 flag – A 15.2 database that is archived cannot be recovered if you specify the read-only flag -iqro 1 on the startup command in Sybase IQ 15.4.

Sybase IQ Operations Known Issues from Previous Versions

Descriptions of known issues and workarounds for Sybase IQ operations from previous versions.

dbisql Reports Java Stack Trace Error [CR #624363]

On rare occasions, the Interactive SQL utility (**dbisql**) may encounter a Java stack trace error when you highlight text:

```
Index Array Out of Bounds
```

This is due to a problem in the Java Runtime Environment. See Bug ID 6921603 in the Java Bug Database on the Oracle Sun Developer Network (SDN).

sp_iqstatus Returns Error on Chinese and Japanese Locale Installations [CR #622928]

On Sybase IQ servers that are set up for Chinese and Japanese locales, running `sp_iqstatus` returns an error similar to:

```
Could not execute statement.  
Syntax error near '2010' on line 1  
SQLCODE=-131, ODBC 3 State="42000"  
Line 1, column 1
```

Workaround:

1. Stop the server.
2. For Chinese locales, remove `dblgzh_iq11.dll` from `%IQDIR15%\bin32` (for 32-bit installations) or `%IQDIR15%\bin64` (for 64-bit installations).
For Japanese locales, remove `dblgja_iq11.dll` from `%IQDIR15%\bin32` (for 32-bit installations) or `%IQDIR15%\bin64` (for 64-bit installations).
3. Restart the server.

After this procedure, certain strings in the `.iqmsg` files and the output of **sp_iqmpxinfo**, **sp_iqstatistics**, and **sp_iqstatus** are in English, instead of Chinese or Japanese.

ASE Connections to Sybase IQ with BIGDATETIME [CR #622007]

When a version 15.5 GA Adaptive Server Enterprise server uses Component Integration Services (CIS) to connect to a Sybase IQ server version that has `BIGDATETIME` and `BIGTIME` capability, any chronological data type sent to the Adaptive Server server using CIS results in the error:

```
Msg 7225, Level 16, State 4:  
Line 1:  
Unknown datatype token 188 'BIGDATETIME NULL'  
encountered.  
Exited passthru mode from server 'QA_IQ15_ASECIS'.
```

Sybase IQ sends the data as `BIGDATETIME` and relies on Adaptive Server to convert appropriately. The `BIGDATETIME` data type was implemented in CIS in Adaptive Server

Enterprise version 15.5 ESD #1, so this error occurs with Adaptive Server Enterprise 15.5 before any ESDs have been applied.

Workaround:

SET TEMPORARY OPTION RETURN_DATE_TIME_AS_STRING='ON' in Sybase IQ for each session. The Sybase IQ server sends all chronological data as strings and Adaptive Server completes the conversion. This workaround is for Adaptive Server Enterprise 15.5 GA connecting to Sybase IQ in passthrough mode.

You can also use this workaround in the definition of a remote stored procedure, but it is not a solution for proxy tables created on Adaptive Server returning chronological data types from Sybase IQ.

JAWS Screen Reader Not Working in Sybase IQ 12.7 or 15.x [CR #569342]

The JAWS screen reader may not read all interface items in the Sybase Central plug-in for Sybase IQ 12.7 or 15.x.

RSA Certificate Creation Fails [CR #557702]

RSA certificate creation fails with the error `createcert command not found` because the `createcert` utility is missing. The utility is currently available only on the AIX64, LinuxAMD64, Sun64, and Win32 platforms. Please contact Sybase Technical Support, if you need this utility.

FORWARD TO from Sybase IQ to ASE Fails [CR #539484]

Execution of a **FORWARD TO** command from Sybase IQ to Adaptive Server Enterprise using the ASEODBC driver fails with ASA Error -660 "The identifier that starts with '<identifier>' is too long. Maximum length is 28."

Workaround:

To avoid this problem, do one of the following after creating a remote Adaptive Server Enterprise server using either server class `aseodbc` or server class `asejdbc` and before executing a SQL statement that contains a string with double quotes against the remote server using the **FORWARD TO** statement:

1. Change the double quotes to single quotes.
2. Include the database option **SET QUOTED_IDENTIFIER OFF** before the SQL statement to be executed:

```
FORWARD TO <remote server name> {
SET QUOTED_IDENTIFIER OFF
<SQL statement>
}
```

3. Set the `QUOTED_IDENTIFIER` database option to **OFF** using a separate **FORWARD TO** statement:

```
FORWARD TO <remote server name> {
SET QUOTED_IDENTIFIER OFF }
```

Creating Very Large Databases

Attempting to create extremely large Sybase IQ databases on certain Windows configurations may fail with an exception occurring in the module hos_bion.cxx at or near line 182.

If you require a database that exceeds 100GB, try creating a database of that size to see if your system configuration exhibits the problem. If you create a smaller database and later try to add dbspaces, correcting the problem at that time may be more difficult and time consuming.

This problem is intermittent but tends to occur if you have approximately 180GB of open files. Changing the setting of the OS_File_Cache_Buffering database option could trigger the problem. In some cases, you might see an INSUFFICIENT_RESOURCES Windows error message.

The best way to avoid this problem is to create on a raw device any databases that may become larger than 180GB.

If you create a very large database on a file system, and either the **CREATE DATABASE** statement fails as described above, or you see the INSUFFICIENT_RESOURCES message, apply Microsoft corrections. The problem is caused by a bug in the Windows kernel. More information is available on the Microsoft support Web site:

- *Microsoft Knowledge Base Article - 192409*
- *Microsoft Knowledge Base Article - 236964*
- *Microsoft Knowledge Base Article - 171458*

Known Issues for Multiplex Environment

Descriptions of known issues and workarounds for the multiplex environment.

Table 5. Multiplex issues

CR#	Description
611990	<ul style="list-style-type: none"> • Emergency shutdown on secondary servers after CREATE TEXT INDEX – A secondary server goes into emergency shutdown, when: <ul style="list-style-type: none"> • It is started with the -sf external_library_full_text flag, which disables loading of external libraries, and • The user issues a CREATE TEXT INDEX statement on the coordinator with a text configuration that uses external libraries. <p>All other servers replay the DDL successfully.</p> • Workaround – Start secondary nodes in the multiplex without the -sf external_library_full_text flag.

CR#	Description
557714	<ul style="list-style-type: none"> • Emergency shutdown on secondary servers after creating a proxy table – A timing problem may cause an emergency server shutdown when a user accesses a new proxy table on a secondary server. • Workaround – Either reconnect or wait for some time and start another transaction, before trying to use a newly-created proxy table.
447348	<ul style="list-style-type: none"> • Physical file not deleted by DROP DBSPACE – Within a multiplex environment on Windows, if you execute DROP DBSPACE <i><dbspace_name></i> on a coordinator, the dbspace file may not be physically removed, if the file is locked by the secondary nodes. No error is reported to the client. The IQ message file (.iqmsg) of the coordinator records this error: <pre data-bbox="454 586 1184 892">I. 02/25 11:20:58. 0000000060 DropDBSpacePhysical-File I. 02/25 11:20:58. 0000000060 Exception Thrown from hos_bio.cxx:1228, Err# 6, tid 398 origtid 398 I. 02/25 11:20:58. 0000000060 O/S Err#: 26, ErrID: 518 (hos_bioexception); SQLCode: -1006062, SQLState: 'sQBA62', Severity: 14 I. 02/25 11:20:58. 0000000060 [20300]: OS error 26 reported on file C:\users\mpx_tablespaces\mpx\size_dbsp_0tb.</pre> • Workaround – Manually delete the file from the file system after dropping the dbspace.

Known Issues for Interactive SQL

Descriptions of known issues for Interactive SQL.

Sybase recommends that you use **dbisql**, rather than **dbisqlc** or **iqisql**, unless instructed to do otherwise, for specific tasks. **dbisqlc** is supported, but does not contain all the features of **dbisql**. **dbisqlc** will be deprecated in a future release.

Table 6. Interactive SQL issues

CR#	Description
668445	<ul style="list-style-type: none"> • dsedit and iqdsedit Read-Only Field Restrictions – When using dsedit or iqdsedit, if you try to modify any field other than Server Address, you may get an error indicating that this operation is not allowed, followed by a shutdown. These fields are read-only and should not be edited.
560926, 644210	<ul style="list-style-type: none"> • There is no online help for dbisql and dbisqlc. – Online help is not available for the Interactive SQL (dbisql) utility or the deprecated Interactive SQL Classic (dbisqlc) utility.
n/a	<ul style="list-style-type: none"> • Import option unsupported – Do not use the Import option on the dbisql Data menu (or Command Options Input Format in dbisqlc). This option is not supported for use with IQ databases. Use the LOAD TABLE statement or the INSERT statement to load data into IQ tables.
n/a	<ul style="list-style-type: none"> • Creating output files in quiet mode – If you run dbisql (Interactive SQL) with the -q (quiet mode) option, and the data extraction commands (primarily setting the option TEMP_EXTRACT_NAME1 to an output file) are in a command file, you must first set and make permanent the dbisql option “Show multiple result sets.” If you do not set this option, the output file is not created.
n/a	<ul style="list-style-type: none"> • Show multiple result sets – To set the option “Show multiple result sets,” click Tools Options in the dbisql window, choose “Sybase IQ,” and select the “Results” tab. Then select “Show all results sets.”
n/a	<ul style="list-style-type: none"> • Query plan on the Plan tab – The query plan in the dbisql Plan tab is a SQL Anywhere style query plan. For a Sybase IQ query plan, refer to the IQ .iqmsg file.

CR#	Description
n/a	<ul style="list-style-type: none"> Unable to initialize screen routines – If you set the terminal type on UNIX and Linux systems to “dumb” or “unknown” and then start dbisqlc, Sybase IQ returns an error. For example: <pre data-bbox="709 352 971 404">% setenv TERM dumb % dbisqlc</pre> <p data-bbox="709 427 1177 479">error at line 1 Unable to initialize screen routines</p> Workaround – To avoid problems, run dbisql (Interactive SQL) instead, or use an xterm window to run dbisqlc on UNIX and Linux systems. For example, to start an xterm window with a scroll bar, enter: <pre data-bbox="709 649 870 675">% xterm -sb</pre>

Known Issues for Sybase Central

Descriptions of known issues and workarounds for Sybase Central.

Table 7. Sybase Central issues

CR#	Description
689039	<ul style="list-style-type: none"> Forward slash in path prevents adding secondary node on Windows – If you use Sybase Central to add a secondary node to a Sybase IQ server on Windows, and the path contains a forward slash, Sybase Central returns: <pre data-bbox="512 1147 1174 1321">Synchronize.RemoteException occurred in server thread; nested exception is: java.rmi.RemoteException: Command execution failed.; nested exception is: java.lang.Exception: Error encountered while running the command: C:\WINDOWS\TEMP\.4619162722483927.bat.</pre> Workaround – Use a backslash as the file separator when specifying the database file path in the Sybase Central wizard.

CR#	Description
688232	<ul style="list-style-type: none"> • Cannot start Sybase Central after installing Sybase IQ 15.4 on top of Adaptive Server Enterprise 15.7 – • Workaround – Modify the <code>scjview.ini</code> file under <code>%SYBASE%\Shared\Sybase Central 6.1.0\win64</code> to point the <code>JRE_DIRECTORY</code> to <code>%SYBASE%\Shared\JRE-6_0_20_64BIT</code> instead of <code>%SYBASE%\Shared\JRE-6_0_20_64BIT</code>. Start the Sybase Central of IQ and then manually register the IQ plugin.
670406	<ul style="list-style-type: none"> • Viewing the properties of a new database returns an error – If you create a new database in Sybase Central and click Properties, a Null Pointer Exception error occurs. • Workaround – Connect to the database before clicking Properties: <ol style="list-style-type: none"> 1. Right-click the database and select Connect. 2. On the Identification tab, enter User ID and Password. 3. On the Database tab, specify Server Name (optional) and Database file. 4. On the Network tab, select TCP/IP network option and enter Host and Port values. 5. Click OK. 6. Right-click the database and select Properties.
669247	<ul style="list-style-type: none"> • Sybase Central fails to convert server to multiplex – Sybase Central may return the following error instead of converting a server to multiplex: <pre>java.rmi.RemoteException: Command execution failed.; nested exception is: java.lang.Exception: Error encountered while running the command: C:\Windows\TEMP\.6653879025882538.bat.</pre> • Workaround – <ol style="list-style-type: none"> 1. Shorten the PATH environment variable to fewer than 1024 characters (its limit), without removing the <code>Windows\System32</code> folder. 2. In Windows Services, stop and restart Sybase IQ Agent 15. 3. Restart Sybase Central and run Convert Server to Multiplex again.

CR#	Description
653796	<ul style="list-style-type: none"> Unable to launch Sybase Central after installing VC++ 2005 Redistributable package – The issue is related to the VC++ 2005 Redistributable package installed for Sybase IQ 15.4. If you apply the VC++ 2005 Redistributable package and then install the Replication Manager Plug-in (RMP) 15.2, the value of <i>JRE_DIRECTORY</i> inside the <i>scjview.ini</i> file becomes C:\sybase\Shared\JRE-6_0_6_64BIT, instead of C:\sybase\Shared\JRE-6_0_6_32BIT. Workaround – Change the Sybase Central shortcut in the start menu to point to <i>scjview.exe</i> in %SYBASE%\shared\Sybase Central 6.0.0\win64, start Sybase Central, then manually register the RMP plug-in.

Sybase Central Known Issues from Previous Versions

Descriptions of known issues and workarounds for Sybase Central from previous versions of Sybase IQ.

Create Trigger Wizard Does Not Show User Tables [CR #631447]

The Sybase Central Create Trigger Wizard does not list user tables.

Workaround: Use Interactive SQL (**dbisql**) to create a trigger.

Chinese and Japanese Characters in Log Files [CR #629282]

Chinese and Japanese characters are not displayed correctly, when you use Sybase Central to view log files on a Windows system with Chinese Multilingual User Interface (MUI) or Japanese MUI.

Workaround: Use Notepad to open and view the log files.

Remote Client Cannot Connect to Sybase IQ Agent [CR #563823]

When Sybase Central running on a remote client attempts to connect to the Sybase IQ Agent running on the server host, this error may be reported:

```
"Unable to connect to the IQ Agent on Server host
"<hostname>:<port_number>"
```

The root cause of this problem may be the configuration of the network, which incorrectly resolves the hostname to loopback IP address 127.0.0.1, rather than the real IP address. You can verify the source of the problem by running the command `ping <hostname>`, which returns an IP address. If the IP address returned is 127.0.0.1, rather than the real IP address of the host, then the network configuration is the problem.

Known Issues

To resolve this issue, ask your system administrator to change the network configuration, so that the hostname is resolved as the real IP address. On a UNIX system, you can edit the system file `/etc/hosts`, so that the hostname is resolved to the real IP address.

Creating Proxy Tables with “Selected Columns” Option [CR #559895]

Creating a proxy table in the Sybase Central wizard with the **All Columns** option creates the proxy table as expected. However, if you create a proxy table in the Sybase Central wizard with the **Selected Columns** option, even if you select all columns, the proxy table does not show the data.

Either build the proxy table with the **All Columns** option, or use **dbisql** to build the proxy table with just the selected columns that you want.

Sybase Central Operation Issues [CR #549750]

These issues with Sybase Central operations while using the Create Database Wizard and browsing for a file on remote systems are related to JRE 6.0. The workarounds are either to enter in the text field the required path name to the file, rather than selecting the file using the wizard, or to run Sybase Central on the system on which you are creating the database.

- Running Sybase Central in either Windows or Linux: you cannot traverse inside a newly created directory, while browsing on a remote system
- Running Sybase Central in Windows: double clicking on directories on a remote Linux system is non-responsive
- Running Sybase Central in either Windows or Linux: the **Create New Directory** button is disabled, while browsing for files on a remote Linux system
- Running Sybase Central in Linux: while navigating the C: drive on a remote Windows system, if you click the Up > Up > ... button, the listing of files for the C: drive is not correct
- Running Sybase Central on all platforms: renaming a file on a remote system does not work. After you enter the new name and press **Enter**, there is no response and the rename operation fails without returning an error.
- Running Sybase Central on all platforms: clicking and double clicking files and directories on a remote system does not work as expected. Sometimes Sybase Central navigates into the directory and sometimes it edits the directory name for rename. Similarly for files, sometimes Sybase Central selects the file and sometimes it edits the file name for rename.

Documentation Changes

Updates, corrections, and clarifications to the documentation released with Sybase IQ.

IQ Plug-in Sybase Central Online Help Documentation Changes

This section lists updates, corrections, and clarifications to released documentation for the Sybase Central online help for Sybase IQ.

Table 8. Sybase Central Online Help updates

CR#	Description
701326	Sybase IQ does not support elliptic-curve cryptography (ECC) encryption. References to ECC and elliptic curves in the topics Connect dialog: Network tab and Publication property sheet: Connection tab in the Sybase Central online help for Sybase IQ 15.4 are incorrect.

Utility Guide Documentation Changes

Read about updates to Utilities.

Issue	Section	Description
CR #720385	start_iq Database Server Startup Utility > start_iq Server Options > -m iqsrv15 database server option	This note is incorrect and should be removed: Warning! Do not use the -m option with databases that are being replicated or synchronized.
CR #720385	dbbackup Database Administration Utility	The description of the dbbackup utility is missing this text: To truncate the transaction log on a simplex or multiplex server, use the -m option in your configuration file or start_iq command. The server may be running or stopped.

Reference Guide Changes

Changes to the reference guides.

Reference: Building Blocks, Tables, and Procedures

Issue	Section	Description
CR #693311	Differences from Other SQL Dialects > Altering Tables	<p>This statement is incorrect and should be removed:</p> <ul style="list-style-type: none"> You can use <code>MODIFY</code> to change the maximum length of a character column, as well as converting from one data type to another. <p>These alteration statements are incorrect and should be removed:</p> <ul style="list-style-type: none"> In addition to changes for entity and referential integrity, the following types of alterations are allowed: <pre>ADD column data-type MODIFY column data-type</pre>
CR #721423	Physical Limitations > Dbspace size	<p>The DBspace size entry should state:</p> <p>Maximum 2000 dbfiles per dbspace.</p> <p>Creating dbspaces on NAS (Network Attached Storage) devices is not recommended.</p>

Issue	Section	Description
CR #700883	System Procedures > System Stored Procedures > sp_iqspaceused Procedure	<p>The example procedure dbo.myspace should be:</p> <pre> create or replace procedure dbo.myspace() begin declare mt unsigned bigint; declare mu unsigned bigint; declare tt unsigned bigint; declare tu unsigned bigint; declare gt unsigned bigint; declare gu unsigned bigint; declare lt unsigned bigint; declare lu unsigned bigint; declare tt_t unsigned bigint; declare mt_t unsigned bigint; declare gt_t unsigned bigint; declare lt_t unsigned bigint; call sp_iqspaceused(mt,mu,tt,tu,gt,gu,lt,lu); if (tt = 0) then set tt_t = 0; else set tt_t = tu*100/tt; end if; if (mt = 0) then set mt_t = 0; else set mt_t = mu*100/mt; end if; if (gt = 0) then set gt_t = 0; else set gt_t = gu*100/gt; end if; if (lt = 0) then set lt_t = 0; else set lt_t = lu*100/lt; end if; select cast(mt/1024 as unsigned bigint) as mainMB, cast(mu/1024 as unsigned bigint) as mainusedMB, mt_t as mainPerCent, cast(tt/1024 as unsigned bigint) as tempMB, cast(tu/1024 as unsigned bigint) as tempusedMB, tt_t as tempPerCent, cast(gt/1024 as unsigned bigint) as shTempTotalKB, cast(gu/1024 as unsigned bigint) as shTempTotalKBUsed, gt_t as globalshTempPerCent, cast(lt/1024 as unsigned bigint) as shTempLocalMB, </pre>

Issue	Section	Description
		<pre>cast(lu/1024 as unsigned bigint) as shTempLocalKBUsed, lt_t as localshTempPerCent; end</pre>
<p>CR #710657</p>	<p>SQL Functions > Alphabetical List of Functions > ROUND Function [Numeric]</p>	<p>The ROUND function documentation is missing information on the ROUND_TO_EVEN database option:</p> <p>When ROUND_TO_EVEN database option is set ON, the ROUND function rounds data from a Sybase IQ table half to the nearest even number to the integer-expression, matching the behavior of SQL Anywhere table data. When the option is set to OFF, the ROUND function rounds Sybase IQ data half away from zero.</p> <p>In the following examples, the ROUND_TO_EVEN settings affect the value returned.</p> <ul style="list-style-type: none"> • <code>ROUND (convert (double, 123.45001), 1)</code> Setting ROUND_TO_EVEN ON or OFF would return 123.5 because the value 0.05001 is more than half of 0.1. • <code>ROUND (convert (double, 123.450000), 1)</code> Setting ROUND_TO_EVEN ON returns 123.4 and setting ROUND_TO_EVEN OFF returns 123.5 because the value 0.0500 is half of 0.1.
<p>CR #671727</p>	<p>File Locations and Installation Settings > Environment Variables</p>	<p>The IQ_USE_DIRECTIO Environment Variable is missing from the documentation:</p> <p>The IQ_USE_DIRECTIO environment variable defaults to the setting 0. To enable direct I/O on a supported platform, set IQ_USE_DIRECTIO to 1. Multiplex databases do not support direct I/O.</p> <pre>IQ_USE_DIRECTIO = value</pre> <p>Optional on Sun Solaris UFS, Linux, Linux IBM, AIX, and Windows file systems only. In Linux, direct I/O is supported in kernel versions 2.6.x.</p> <p>Not used on HP-UX and HP-UXi platforms.</p> <p>IQ_USE_DIRECTIO has no effect on Sun Solaris and Windows.</p>

Issue	Section	Description
CR #736337	System Tables and Views > System Views > Alphabetical List of System Views > SYSTAB system view	The server_type row is missing this value: <ul style="list-style-type: none"> 2 – IQ table

Reference: Statements and Options

Issue	Section	Description
CR #740981	ALTER Table Statement, CREATE Table Statement	Added the following constraint to the MOVE TO description in the Usage section: A BIT data type column cannot be explicitly placed in a dbspace. The following is not supported for BIT data types: <code>ALTER TABLE t2 alter c1_bit MOVE TO iq_main;</code>

Installation Guide Changes

Changes to the Installation and Configuration Guide.

Issue	Section	Description
CR #738018	Server Installations	New "Uninstalling Sybase IQ" topic includes instructions for GUI and silent uninstalls. This topic replaces separate instructions for uninstalling server and client software.
CR #743190	Configuration	Removed this paragraph from the "Running the Client and Server On the Same System" topic: "Local connections through shared memory are not supported for Solaris x64 systems." Sybase IQ supports shared memory links on all platforms.

Obtaining Help and Additional Information

Use the Sybase Getting Started CD, Product Documentation site, and online help to learn more about this product release.

- The Getting Started CD (or download) – contains release bulletins and installation guides in PDF format, and may contain other documents or updated information.
- Product Documentation at <http://sybooks.sybase.com/> – is an online version of Sybase documentation that you can access using a standard Web browser. You can browse documents online, or download them as PDFs. In addition to product documentation, the Web site also has links to EBFs/Maintenance, Technical Documents, Case Management, Solved Cases, Community Forums/Newsgroups, and other resources.
- Online help in the product, if available.

To read or print PDF documents, you need Adobe Acrobat Reader, which is available as a free download from the *Adobe* Web site.

Note: A more recent release bulletin, with critical product or document information added after the product release, may be available from the Product Documentation Web site.

Technical Support

Get support for Sybase products.

If your organization has purchased a support contract for this product, then one or more of your colleagues is designated as an authorized support contact. If you have any questions, or if you need assistance during the installation process, ask a designated person to contact Sybase Technical Support or the Sybase subsidiary in your area.

Information for Technical Support

Technical Support needs information about your environment to resolve your problem.

Before contacting Technical Support, run the **getiqinfo** script to automatically collect as much information as possible. You may also need to collect some information manually .

In this list, * indicates items collected by **getiqinfo**:

- Sybase IQ version (for example, 15.4 GA or ESD level)
- Type of hardware, amount of memory, number of CPUs*
- Operating system and version (for example, Microsoft Windows 2008 Service Pack 1)*
- Operating system patch level
- Front-end tool used (for example, Business Objects Crystal Reports)
- Connectivity protocol used (for example, ODBC, JDBC, Tabular Data Stream™ (TDS))

Obtaining Help and Additional Information

- Open Client version
- Configuration type (single user or multiuser)
- (Important) Message log file* – by default, named `dbname.iqmsg` and located in the directory where you started the database server
- Stack trace file for the date and time the problem occurred (if applicable), by default named `stktrc-YYYYMMDD-HHMMSS_#.iq` and located in the directory where you started the database server*
- Command or query that produced the error
- Query plan* (recorded in `.iqmsg` file)

The query plan is collected automatically by **getiqinfo**. If you manually collect information, enter these commands, then re-run the command that produced the error:

```
SET TEMPORARY OPTION Query_Plan = 'ON'  
SET TEMPORARY OPTION Query_Detail = 'ON'  
SET TEMPORARY OPTION Query_Plan_As_Html = 'ON'  
SET TEMPORARY OPTION Query_Plan_As_Html_Directory =  
'ON'
```

The plan is in the message log file.

If you have performance problems, set this database option:

```
SET TEMPORARY OPTION Query_Plan_After_Run = 'ON'
```

This enables Technical Support to see which steps in the query processing used the time.

- Server logs
 - For UNIX and Linux: `IQ-15_4/logfiles/<servername>.nnnn.stderr` and `IQ-15_4/logfiles/<servername>.nnnn.srvlog*`
 - On Windows platforms: `%ALLUSERSPROFILE%SybaseIQ\logfiles\<servername>.nnnn.srvlog*`
For example, on Windows 2003, the server log files are located in `C:\Documents and Settings\All Users\SybaseIQ\logfiles`. On Windows 2008, the server log files are located in `C:\ProgramData\SybaseIQ\logfiles`.
- Startup and connection option settings, from the configuration file (by default, `dbname.cfg`)*
- Database option settings and output from **sa_conn_properties*** (if the server is still running)
- Schema and indexes for the database
- Output from **sp_iqstatus** and **sp_iqcheckdb**
- On multiplex databases, execute **getiqinfo** on each node (coordinator and secondary nodes)
- Screen snapshot of the problem, if possible

A checklist for recording this information for Technical Support is provided in this release bulletin.

See *System Administration Guide: Volume 1 > Troubleshooting Hints > Reporting Problems to Technical Support > Collecting Diagnostic Information Using getiqinfo*.

Checklist: Information for Technical Support

You can run the **getiqinfo** script to collect much of this information.

Information requested	Value
Sybase IQ version (for example 15.4 GA or ESD number)	
sp_iqlmconfig output	
Type of hardware	
Amount of memory	
Number of CPUs	
Operating system name and version (for example, Microsoft Windows 2008 Service Pack 1)	
Operating system patch level	
Front end tool used (for example, Business Objects Crystal Reports)	
Connectivity protocol used (for example, ODBC, JDBC, TDS)	
Open Client version	
Configuration type (single node or multiplex)	
Message log file (dbname.iqmsg)	
Server log files (server.nnnn.srvlog and server.nnnn.stderr)	
Stack trace file (stktrc-YYYYMMDD-HHNNSS_#.iq)	
Command or query that produced the error	
Start-up option settings	
Connect option settings	
Database option settings	
Schema and indexes for the database	
sp_iqstatus output	
Query plan: set options (Query_Plan, Query_Detail, Query_Plan_After_Run, Query_Plan_As_Html, Query_Plan_As_Html_Directory, Query_Timing), rerun command or query	
Screen snapshot of the problem, if possible	

Downloading Sybase EBFs and Maintenance Reports

Get EBFs and maintenance reports from the Sybase Web site or the SAP® Service Marketplace (SMP). The location you use depends on how you purchased the product.

- If you purchased the product directly from Sybase or from an authorized reseller:

- a) Point your Web browser to <http://www.sybase.com/support>.
- b) Select **Support > EBFs/Maintenance**.
- c) If prompted, enter your MySybase user name and password.
- d) (Optional) Select a filter, a time frame, or both, and click **Go**.
- e) Select a product.

Padlock icons indicate that you do not have download authorization for certain EBF/Maintenance releases because you are not registered as an authorized support contact. If you have not registered, but have valid information provided by your Sybase representative or through your support contract, click **My Account** to add the “Technical Support Contact” role to your MySybase profile.

- f) Click the **Info** icon to display the EBF/Maintenance report, or click the product description to download the software.
- If you ordered your Sybase product under an SAP contract:
 - a) Point your browser to <http://service.sap.com/swdc> and log in if prompted.
 - b) Select **Search for Software Downloads** and enter the name of your product. Click **Search**.

Sybase Product and Component Certifications

Certification reports verify Sybase product performance on a particular platform.

To find the latest information about certifications:

- For partner product certifications, go to http://www.sybase.com/detail_list?id=9784
- For platform certifications, go to <http://certification.sybase.com/ucr/search.do>

Creating a MySybase Profile

MySybase is a free service that allows you to create a personalized view of Sybase Web pages.

1. Go to <http://www.sybase.com/mysybase>.
2. Click **Register Now**.

Sybase IQ Newsgroup

The Sybase IQ newsgroup sybase.public.iq allows users to exchange information over the Internet.

For information on subscribing to Sybase newsgroups, configuring your newsreader or Web browser, and for guidelines on posting, go to <http://www.sybase.com/support/newsgroups>.

Sybase IQ Users' Group

The Sybase IQ Users' Group provides a forum for users to exchange information about Sybase IQ.

You can visit the IQUG homepage at <http://iqug.dssolutions.com/>. To have your name added to the IQ Users' Group list, send an e-mail message to iqug-subscribe@dssolutions.com.

Accessibility Features

Accessibility ensures access to electronic information for all users, including those with disabilities.

Documentation for Sybase products is available in an HTML version that is designed for accessibility.

Vision impaired users can navigate through the online document with an adaptive technology such as a screen reader, or view it with a screen enlarger.

Sybase HTML documentation has been tested for compliance with accessibility requirements of Section 508 of the U.S Rehabilitation Act. 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 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 information about how Sybase supports accessibility, see the Sybase Accessibility site: <http://www.sybase.com/products/accessibility>. The site includes links to information about Section 508 and W3C standards.

You may find additional information about accessibility features in the product documentation.

Obtaining Help and Additional Information