

# Release Bulletin

## Sybase® IQ ETL 4.5

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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 product release, use the Sybase® Product Manuals Web site.

## ❖ Accessing release bulletins at the Sybase Product Manuals Web site

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

## 2. Product summary

Enclosed is Sybase IQ ETL 4.5, which is a 32-bit application that includes Sybase ETL Development and Sybase ETL Server.

### 2.1 Sybase ETL Development

Sybase IQ ETL Development 4.5 runs on Microsoft Windows:

- Windows XP Professional with Service Pack 2 – 32-bit and 64-bit
- Windows Vista – 32-bit and 64-bit Windows Vista Business, Business N, and Enterprise editions

### 2.2 Sybase ETL Server

This section describes platforms, operating systems, databases, and database interfaces that Sybase IQ ETL Server 4.5 supports.

#### 2.2.1 Platform and operating system support

Table 1 lists the platforms and operating systems on which Sybase IQ ETL Server 4.5 runs.

**Table 1: Sybase IQ ETL Server platforms and operating systems**

Platform	Version
IBM AIX	5.3 – pSeries 64-bit
Red Hat Enterprise Linux	<ul style="list-style-type: none"> <li>• 4.0 x86 – 32-bit Advanced Server and Workstation Editions</li> <li>• 4.0 – 64-bit</li> <li>• 5.0 – 32-bit, 64-bit</li> </ul>
SuSE Linux Enterprise Server	<ul style="list-style-type: none"> <li>• 9 SP2 – 32-bit, 64-bit</li> <li>• 10 – 32-bit, 64-bit</li> </ul>
Sun Solaris	<ul style="list-style-type: none"> <li>• 9 (SPARC) – 64-bit</li> <li>• 10 (SPARC) – 64-bit</li> </ul>
Microsoft Windows	<ul style="list-style-type: none"> <li>• Windows 2003 – 32-bit and 64-bit Windows 2003 Standard and Enterprise editions</li> <li>• Windows XP Professional Service Pack 2 – 32-bit and 64-bit</li> <li>• Windows Vista – 32-bit and 64-bit Windows Vista Business, Business N, and Enterprise editions</li> </ul>

For a complete list of supported operating systems on each platform, see the Sybase platform certifications Web site at <http://certification.sybase.com>.

### 2.2.2 Database support

Table 2 shows the repository, source, and destination databases supported by Sybase IQ ETL 4.5 Server.

**Table 2: Sybase IQ ETL Server database support**

Database	Version	Repository	Source	Destination
Sybase Adaptive Server® Enterprise	15.0.2 ESD #2, 15.0.1 ESD #3, 12.5.4, and 12.5.4 ESD #8	No	Yes	No
Sybase SQL Anywhere® Server	10.0.1, 9	Yes	Yes	No
<b>Note</b> As of version 10.0, Adaptive Server® Anywhere has been renamed SQL Anywhere.				
Sybase IQ	12.7 ESD #2 to ESD #4	Yes	Yes	Yes
IBM DB2 UDB	9.1, 8.2.1	No	Yes	No
Microsoft Access	2000, 2003	Yes	Yes	No
Microsoft SQL Server	2005 SP2	Yes	Yes	No
MySQL	5	No	Yes	No

Database	Version	Repository	Source	Destination
Oracle	10g, 11g	No	Yes	No
SQLite	3.3.5	No	Yes	No
<b>Note</b> Use SQLite only in a test environment.				

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**Note** Sybase IQ ETL 4.5 does not support access to the repository using the OLE DB interface.

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### 2.2.3 Interface support

Sybase IQ ETL 4.5 supports these interfaces for connecting to destination or source databases from a component:

- Sybase
- DB2
- ODBC

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**Note** You must install the ODBC driver on the same computer as Sybase IQ ETL Development, and you must define a system data source name (DSN) for the target.

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- Oracle
- OLE DB
- SQLite Persistent – support for test environments only.

See “Database connection settings,” in Chapter 5, “Components” in the *Sybase IQ ETL 4.5 Users Guide*.

Table 3 lists the interface driver versions supported in Sybase IQ ETL 4.5.

**Table 3: Interface driver versions for Sybase IQ ETL Server**

Driver	Version
Sybase native (via Client-Library)	12.5.2, 15.0
Adaptive Server ODBC	15.00.00.152 (Windows only)
SQL Anywhere ODBC	10.00.01.3415 (Windows only)
<b>Note</b> As of version 10.0, Adaptive Server Anywhere has been renamed SQL Anywhere.	
Sybase IQ 12.7 ODBC	9.00.02.1023
IBM DB2 native	8.1.8.762, 9.01.00.369
IBM DB2 ODBC	8.01.08.762, 9.01.00.369 (Windows only)
Microsoft Access ODBC	4.00.6305.00 (Windows only)
Microsoft SQL Server ODBC	2000.86.1830.00 (Windows only)
MySQL	5.1.4
Oracle native (via Oracle Call Interface (OCI))	11.01.00.06
Oracle ODBC	11.01.01.06 (Windows only)

## 3. Special installation instructions

This section describes installation instructions not included either in the Sybase IQ installation guides, or in the README files installed with Sybase IQ ETL 4.5.

### 3.1 Installing and configuring SQL Anywhere 10 ODBC drivers

On UNIX and Linux platforms, connect to a Sybase IQ server using ODBC. Use the SQL Anywhere 10 ODBC drivers provided by the Sybase IQ ETL Server installer for these platforms:

- IBM AIX
- Linux x86
- Sun Solaris Sparc

The Sybase IQ client installer provides the ODBC drivers for Microsoft Windows platforms.

You must configure the SQL Anywhere 10 ODBC drivers before you use them. You can configure the drivers with or without an ODBC driver manager. If you configure the drivers without a driver manager, no other ODBC drivers are available.

In the instructions that follow, *etlserver* is the directory where ETL Server is installed, *asa10* is the subdirectory containing the SQL Anywhere 10 drivers, and *%USERHOME%* is the home directory that contains the *.odbc.ini* file.

The *.odbc.ini* file contains the ODBC driver configuration information such as the data source name (DSN) definitions. Driver managers such as unixODBC look for the *.odbc.ini* file specified in the ODBCINI environment variable. For more information on *.odbc.ini*, see the unixODBC Web site at <http://www.unixodbc.org/internals.html>.

#### ❖ **Configuring ODBC drivers using an ODBC driver manager**

- 1 In the ODBC driver manager, select the SQL Anywhere 10 driver in *etlserver/asa10*.
- 2 In the *.odbc.ini* file, add an entry similar to:

```
[My_IQ_Server]
Driver=/opt/sybase/iqetlserver/asa10/lib64/libdbodbc10.so
uid=dba
pwd=SQL
EngineName=My_IQ_Server_asiqdemo
CommLinks=tcPIP(host=iq_hosting_server;port=2638)
AutoStop=no
DatabaseName=asiqdemo
AutoPreCommit=yes
```

- 3 Add the environment variable ODBCINI=*%USERHOME%/.odbc.ini* to your server.

#### ❖ **Configuring ODBC drivers without using an ODBC driver manager**

- 1 In *etlserver/asa10*, create a symbolic link called *libodbc.so* to the supplied SQL Anywhere 10 ODBC driver file:  
`ln -s etlserver/asa10/lib64/libdbodbc10.so libodbc.so`

- 2 In the *.odbc.ini* file, add an entry similar to:

```
[My_IQ_Server]
Driver=/opt/sybase/iqetlserver/asa10/lib64/libdbodbc10.so
uid=dba
pwd=SQL
EngineName=My_IQ_Server_asiqdemo
CommLinks=tcPIP(host=iq_hosting_server;port=2638)
AutoStop=no
DatabaseName=asiqdemo
AutoPreCommit=yes
```

- 3 Add the environment variable `ODBCINI=%USERHOME%/.odbc.ini` to your server.

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**Note** If you have multiple Sybase IQ servers with the same server name, database name, and port number, use server name caching to connect to the target Sybase IQ server. Add the `DoBroadcast=DIRECT` communication parameter to the `CommLinks` connection parameter, in the *.odbc.ini* file, in your ETL Server:

```
CommLinks=tcPIP(DoBroadCast=DIRECT;
host=iq_hosting_server;port=2638)
```

See “Server name caching for faster connections,” in Chapter 3, “Sybase IQ Connections” in the *Sybase IQ 12.7 System Administration Guide*.

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## 4. Special upgrade instructions

See the cover letter for this EBF for upgrade instructions.

## 5. Changed functionality in this version

Sybase IQ ETL 4.5 includes comprehensive internationalization support, enhanced load support for Sybase IQ, support for OLE DB, and enhancements to command line execution, usability, and Query Designer.

See the *Sybase IQ ETL 4.5 New Features Guide* for descriptions of the new and changed functionality in Sybase ETL IQ 4.5.

## 5.1 ProcessQ has been deprecated

ProcessQ, provided with earlier versions of Sybase ETL, was used to execute projects and jobs from a command line.

In Sybase ETL 4.5, the ETL Server executable, GridNode, has been enhanced to include this capability, and ProcessQ has been deprecated. ProcessQ is included with Sybase ETL 4.5 for backward compatibility, but some options are no longer supported. Sybase strongly recommends that you update existing scripts to use GridNode instead of ProcessQ to run projects and jobs, as ProcessQ will not be supported at all in future releases. See “ETL Server command line enhancements” in the *Sybase IQ ETL 4.5 New Features Guide* for information about GridNode.

The following ProcessQ parameters are no longer supported.

Parameter	Short form
--detachconsole	-DC
--id <i>mutual exclusion ID</i>	-I <i>mutual exclusion ID</i>
--kill_all <i>process names</i>	-KA <i>process names</i>
--serialize	-S
--timeout_lock <i>n</i>	-TL <i>n</i>
--windowstyle <i>n</i>	-W <i>n</i>

## 6. Known problems

This section describes known problems in Sybase IQ ETL 4.5 and workarounds where available. These problems are marked with the corresponding Change Request (CR) numbers. Provide the CR number when you contact Sybase Technical Support regarding ETL issues.

## 6.1 Problems with ETL Server

This section documents known problems with Sybase IQ ETL Server.

### 6.1.1 Starting Sybase IQ ETL Server on Linux returns harmless errors

**[CR #447095]** On Linux, when starting ETL Server, the following error messages may display:

- Error in XmlRpcClient::writeRequest: write error (error 111)
- Error in XMLPRCClient::parseResponse: Invalid response - no method Response:

*Workaround:* Ignore these error messages which are harmless.

### 6.1.2 Initialization file settings for Sybase IQ ETL Server on UNIX

**[CR #456080]** On UNIX installations of Sybase IQ ETL Server, initialization (.ini) file settings are not read by ETL Server unless you have a *GridNode.ini* file in place.

*Workaround:* Specify the initialization settings.

#### ❖ Specifying initialization settings for ETL Server

- 1 Make a copy of the *Default.ini* file named *GridNode.ini* in the *etc* subdirectory of your installation path.
- 2 Using a text editor, specify general settings in *Default.ini* that are to be shared by all applications.
- 3 In *GridNode.ini*, specify exclusive settings for ETL Server.
- 4 Disable, by removing or commenting out, the keys for general settings in *GridNode.ini*.

### 6.1.3 ODBC connectivity for Sybase ETL Server running as a Windows service

**[CR #456470]** If you install ETL Server on a Windows 2003 64-bit Enterprise Edition platform as a Windows service and you plan to use ODBC connectivity, you may encounter the following issues:

- The ETL Server Windows service may only be able to detect system data sources defined using the ODBC Data Source Administrator executable located in the *C:\WINDOWS\SysWOW64* directory (*odbcad32.exe*, file size 32KB). If you installed the IQ Extended Enterprise Edition Sybase IQ server, you can access this version of the ODBC Data Source Administrator by selecting Start | All Programs | Sybase | Data Access (32-bit).
- The ETL Server Windows service cannot detect system or user data sources defined using the ODBC Data Source Administrator executable located in the *C:\WINDOWS\System32* directory (*odbcad32.exe*, file size 34KB). This version may be available by selecting Start | All Programs | ODBC.
- The ETL Server Windows service may not be able to detect ODBC data sources defined as user data sources.

*Workaround:* If ETL Development is installed on the same machine with the ETL Server and you want to run the ETL demo jobs:

- 1 Stop ETL Server running as a Windows service. Use the Windows Task Manager Processes tab to verify no *GridNode.exe* processes are running.
- 2 Start ETL Development. ETL Development starts a *GridNode.exe* process and this process can run the ETL demo jobs.

ETL Server is a 32-bit application, even though the Sybase IQ server available with it in the IQ Extended Enterprise edition is a 64-bit application. ETL Server requires a 32-bit ODBC driver to connect to a server, regardless of whether the server is 32-bit or 64-bit.

The 64-bit Sybase IQ Server includes both ODBC 32-bit and 64-bit drivers. When you install Sybase IQ on a Windows 2003 EE 64-bit platform and accept the defaults, the two drivers are available from the Start menu. These two ODBC drivers have the same file name—*DBODBC9.DLL*, but are installed in different directories.

- 32-bit ODBC driver – installed in *C:\Program Files\Sybase\ASIQ-12\_7\win32*. Select Start | All Programs | Sybase | Data Access (32-bit) | ODBC Data Source Administrator.
- 64-bit ODBC driver – installed in *C:\Program Files\Sybase\ASIQ-12\_7\x64*. Select Start | All Programs | Sybase | Data Access (64-bit) | ODBC Data Source Administrator.

### 6.1.4 Multiple ETL Server sessions makes ETL Development unstable

**[CR #492273]** If you start ETL Server from the command line while ETL Development is running, ETL Development becomes unstable and displays error messages if you perform any action in ETL Development. This is because of conflicts between the ETL Server session you started from the command line and the ETL Server session started by ETL Development.

*Workaround:* In the Preferences window, unselect Engine | “Start local engine during application startup” so that an ETL Server session does not start the next time you start ETL Development.

### 6.1.5 Exceeding connection limit locks connections to Sybase IQ

**[CR #496226]** When multiple connections from ETL to Sybase IQ remain open after projects and jobs execute, connections to Sybase IQ can lock when open connections exceed the Sybase IQ connection limit. Users receive error messages that ETL cannot retrieve column descriptions, ETL has exceeded the database connection limit, and ETL cannot connect to Sybase IQ.

*Workaround:* Increase the connection limit in Sybase IQ. See “Managing IQ user accounts and connections,” in Chapter 12, “Managing User IDs and Permissions” in the *Sybase IQ 12.7 System Administration Guide*.

### 6.1.6 ETL version does not appear in the ETL Server log

**[CR #500662]** The ETL version information does not appear in the ETL Server log.

*Workaround:* Enter `GridNode -v` at the command line to display the ETL Server version.

### 6.1.7 Connection to repository on Sybase IQ stops responding

**[CR #529608]** Connections to a repository on Sybase IQ using ODBC may stop responding while you are creating a new project or opening existing projects.

*Workaround:* In Windows, select Control Panel | Data Sources Administrator | “ODBC Configuration for Adaptive Server Anywhere” | Network tab, and set “Liveness timeout” to 12000 for the Sybase IQ ODBC driver.

### 6.1.8 Adaptive Server ODBC driver truncates data values

**[CR #529732 and CR #531316]** The Adaptive Server ODBC driver truncates text or image data values that are larger than the value set in the ODBC configuration in Microsoft Windows for the driver.

*Workaround:* Increase the text size value in the ODBC Control Panel, or set the value in the database options parameter for your database connection.

#### ❖ Increasing the text size value using the Control Panel

- 1 In Control Panel | Administrative Tools | Data Sources (ODBC), select the data source for Adaptive Server Enterprise in the User DSN or System DSN tab.
- 2 Select Configure to display the ODBC Adaptive Server Enterprise Setup window and then select Advanced.
- 3 Change the value for Text Size to a value larger than 32KB, which is the default. The Adaptive Server ODBC drive truncates any data value that is larger than the value you set here.

#### ❖ Increasing the text size value using Database Options

- 1 In the Properties window for the database connection, double-click the edit icon of the Database Options field to display the Enter Properties window.
- 2 In the “Extended Connect Options” field, enter “TEXTSIZE=*N*” where *N* is the text size value you want to set.

### 6.1.9 Performance logging preference is disabled

**[CR #529904]** The Performance Logging option in the Preference window is visible but disabled. The Performance Data feature is not available in Sybase IQ ETL 4.5.

### 6.1.10 Cannot access demo repository after reinstalling to a different directory

**[CR #531201]** Problems accessing the demo repository occur if you install another copy of Sybase IQ ETL Development into a directory that is different from the original installation directory. Even if you uninstall the first installation of Sybase IQ ETL Development, registry entries remain that are not overwritten with a new install.

*Workaround:* You can do one of:

- Install to the same directory that you used originally.

- Contact Sybase Technical Support for assistance if you intend to install to a different directory.

### 6.1.11 Cannot select Oracle database using ODBC driver

**[CR #533166]** If you try to select an Oracle database after you select ODBC as the interface, an error message displays:

```
Could not catalog list : [HYC00] [Oracle] [ODBC] Optional  
feature not implemented.
```

The Oracle ODBC driver does not support the listing of catalog-level metadata, such as database names.

*Workaround:* Use the Oracle native driver.

### 6.1.12 Cannot run ETL 4.5 when earlier ETL versions are running

**[CR #535684]** You cannot run ETL 4.5 concurrently with earlier versions of ETL, due to registry and resource conflicts.

### 6.1.13 Reenter password when accessing ETL 4.2 repositories

**[CR #535864]** You must re-enter the repository user password to log in to access a repository created with ETL versions earlier than ETL 4.5.

### 6.1.14 Scheduled jobs fail to run in Windows Vista

**[CR #535937]** Jobs and projects that you schedule in Windows Vista using the ETL Runtime Manager fail to execute, due to changes in the Scheduler API in Windows API.

*Workaround:* Schedule the job or project using the ETL Runtime Manager, and then in the Windows Vista Task Scheduler, add a trigger for the task such as “On a schedule” or “At logon.” You cannot select the “At startup” trigger.

### 6.1.15 Command line execution fails without the default port number

**[CR #538717]** Command line execution fails if you attempt to use the default port number of 5124 but you do not include it in the command line.

*Workaround:* You must enter the default port number of 5124 in the command line, for example:

```
GridNode -con --port 5124 --server localhost  
-f "..\testdata\tpms\tpms_TestB.xml"
```

### 6.1.16 Query Designer output has different column names

**[CR #539577]** When you apply a function to a table in Query Designer, the output column name in the Content Browser is different for different databases and may bear no relation with the source column name. For example:

DBMS	Function	Query in Query Designer	Source column name	Output column name
IBM DB2	CHAR	<code>select CHAR(col_1) from DATE_TBL</code>	COL_1	1
Adaptive Server	convert	<code>select convert(char(10), ID) from CUSTOMER_TBL</code>	ID	col_1
Sybase IQ	convert	<code>select convert(char(10), id) from alt_sales_orders</code>	id	id
Microsoft Access	SUM	<code>select SUM(SA_TOTAL) from SALES</code>	SA_TOTAL	Expr1000

*Workaround:* Use column aliases when you enter queries in Query Designer so that the column alias displays as the output column name. For example, using the column alias mycolumn:

```
select CHAR(col_1) as mycolumn from TEST_TBL
```

### 6.1.17 ETL Server stops responding if there is insufficient temp space in Sybase IQ

**[CR #538896]** ETL Server can stop responding if there is insufficient temp space on the source Sybase IQ database server when transferring a large amount of data from Sybase IQ.

*Workaround:* Increase the temp space for the Sybase IQ server to a minimum of 1GB.

### 6.1.18 Reinstalling ETL Server fails on IBM AIX 5.3

**[CR #538923]** Reinstalling Sybase IQ ETL Server 4.5 for IBM AIX 5.3 to an existing ETL Server 4.5 installation directory fails.

*Workaround:* Back up the user data files in the existing installation, then uninstall before doing a reinstall.

### 6.1.19 Use server name caching to connect to a specific Sybase IQ server

**[CR #540023]** ETL may not connect to a specific Sybase IQ server using ODBC if there are multiple Sybase IQ servers with the same server name, database name, and port number.

*Workaround:* Use server name caching to connect to the target Sybase IQ server. Add the DoBroadcast=DIRECT communication parameter to the CommLinks connection parameter in the *.odbc.ini* file in your ETL Server:

```
CommLinks=tcPIP (DoBroadCast=DIRECT;host=iq server;port=2638)
```

See “Server name caching for faster connections,” in Chapter 3, “Sybase IQ Connections” in the *Sybase IQ 12.7 System Administration Guide*.

### 6.1.20 Parallel project execution is not certified for ETL 4.5

Sybase recommends execution of projects in parallel for demonstration but not for production environments. Contact Sybase for information on when this functionality will be certified.

## 6.2 Problems with ETL components

This section documents known problems with ETL components:

### 6.2.1 Improving performance in accessing Sybase IQ

**[CR #447948]** Using components such as DB Staging, DB Data Sink Insert, DB Data Sink Update, or DB Data Sink Delete to access Sybase IQ can degrade performance.

*Workaround:* To improve performance, you can do one of:

- Use the IQ Loader File via Load Table and IQ Loader DB via Insert Location loader components to speed up loading into Sybase IQ.
- Use Adaptive Server Enterprise, Adaptive Server Anywhere, or Microsoft Access instead of Sybase IQ for the staging portion of your project.
- If you still want to use Sybase IQ for staging, split the project into new staging and loading projects. Use DB Bulk Load Sybase IQ instead of DB Staging in the new staging project and use IQ Loader File via Load Table and IQ Loader DB via Insert Location to speed up loading into Sybase IQ in the new loading project.

### 6.2.2 Unable to import XML file which has more than 32 sibling elements

**[CR #490536]** The XML via SQL Data Provider component fails to open XML files that contain more than 32 sibling elements.

*Workaround:* Set Create Flat View to 0 in the XML Options property of the XML via SQL Data Provider component. You must set up sub-queries manually using the Content Explorer.

### 6.2.3 ETL may stop responding if you specify 0 to retrieve all records from a table

**[CR #494304]** If you run a query in the Query Designer to retrieve records from a table containing 10000 or more records, ETL may stop responding if you enter 0 as the number of records to return in one of:

- Query Designer window.
- A query you create from the Properties window for the component.
- File | Preferences | Workbench | Query Designer | Default number of records to retrieve from Query Designer.

ETL should return all rows in the result set if you specify 0 but stops responding because the Java virtual machine cannot obtain enough memory to display the result set.

*Workaround:* Increase the maximum heap size the Java virtual machine can address; change the default `-Xmx256M` to `-Xmx512M` in the `IQETLDev.lap` file in the ETL installation directory.

### 6.2.4 Table and column names cannot be database keywords

**[CR #496346]** You cannot use database key words such as “variable” as the names of tables or columns in Sybase IQ ETL 4.5.

*Workaround:* None.

### 6.2.5 Last row of source text file not loaded to Sybase IQ

**[CR #497950]** Sybase IQ does not accept the last row of a source text file from ETL when you use the IQ Loader File via Load Table component if the last row does not end with a trailing row delimiter.

*Workaround:* Add a line delimiter at the end of the last row in the source text file. For example, in Windows, with the row delimiter specified as CRLF, place the cursor at the end of the last row and press Enter to add a row delimiter to the last row.

### **6.2.6 The *uSetLocale* JavaScript function works only on Windows platforms**

**[CR #531483]** The *uSetLocale* javascript function only works on Windows platforms. On UNIX platforms, setting *uSetLocale* to any language will still display output in English for *uMonthName*, *uMonthNameShort*, *uWeekdayName*, and *uWeekdayNameShort*.

*Workaround:* None.

### **6.2.7 Do not include multiple DB Data Provider Index Load component instances in a job**

**[CR #531678]** You cannot include multiple instances of a project that contains a “DB Data Provider Index Load” component in the same job.

*Workaround:* Execute the project in multiple jobs.

### **6.2.8 ETL 4.5 does not process write block size value**

**[CR #535236]** Due to architectural changes in Sybase IQ ETL 4.5, you need not enter the value for write block size when you configure your project although the Write Block Size field still displays in ETL Development. ETL does not process any value you enter in the field, as the write block size is determined by the read block size.

### **6.2.9 Insert Location component does not support encrypted passwords**

**[CR #536482]** Sybase IQ ETL 4.5 does not support the Encrypted Password option in the “IQ Loader DB via Insert Location” component connection information if the source database is Sybase IQ 12.7.

*Workaround:* None.

### **6.2.10 Performance degrades with jobs containing a large number of projects**

**[CR #536574]** ETL performance may degrade when you save jobs containing greater than 20 projects. Factors such as available memory and database space also affect performance.

*Workaround:* You can do one of:

- Increase the available database space for the database that holds the ETL repository.
- Break the job into several smaller jobs.
- Use the IQ Loader DB via Insert Location component to transfer a large number of tables.

### 6.2.11 Insert Location project fails if network packet size setting is incorrect

**[CR #536684]** Projects that use Adaptive Server as the source and that contain the IQ Loader DB via Insert Location component fail if the network packet size for the component is larger than or equal to the maximum network packet size of the Adaptive Server.

*Workaround:* Before you execute the project:

- 1 Connect to the Adaptive Server and execute `sp_configure 'max network packet size'` to display the maximum network packet size Run Value for your Adaptive Server.
- 2 In ETL, enter a packet size for IQ Loader DB via Insert Location that is less than or equal to the Adaptive Server maximum network packet size Run Value obtained in step 1.

For example, if your Adaptive Server maximum network packet size Run Value is 2048 bytes, your ETL packet size for the IQ Loader DB via Insert Location component must be less than or equal to 4 as 4 translates to a Adaptive Server Run Value of  $4 * 512 = 2048$  bytes.

### 6.2.12 Project fails if you do not save a parameter set after editing it

**[CR #537448]** If you do not save a parameter set after editing it, the project containing the parameter set fails to execute.

*Workaround:* Save the parameter set after you make any edits and then execute the project containing the edited parameter set.

### 6.2.13 No support for Zenkaku characters in variable names

**[CR #537735]** You cannot start the IN Port and OUT Port columns in the Data Calculator JavaScript component with Japanese Zenkaku characters which are full-width characters as the ETL JavaScript engine does not support variable names:

- Starting with Zenkaku numeric characters.
- Containing Zenkaku punctuation and non-alphanumeric characters in any location within the variable name.

*Workaround:* None.

### 6.2.14 Provide schema name to distinguish between tables with the same name

**[CR #538891]** Projects do not execute correctly if you manually enter table names without the schema name and there are other tables in the source database or target database with the same name.

*Workaround:* Use the list of tables to select a table so that the user name is automatically attached to the table name, or enter the schema name manually for ETL to distinguish between tables with the same name.

### 6.2.15 Project generation fails when you migrate a large number of tables

**[CR #539777]** In Migration Wizard, project generation fails when you migrate a large number of tables from Adaptive Server to Sybase IQ.

*Workaround:* You can do one of:

- Increase the available database space for the database that holds the ETL repository.
- Migrate a smaller number of tables at a time.
- Use the IQ Loader DB via Insert Location component to transfer a large number of tables.

### 6.2.16 Text Data Provider fails if “Skip First Rows=0” for FTP source

**[CR #540626]** The Text Data Provider component does not transfer data if you keep the default value of 0 (zero) in the Skip First Rows field when you enter a FTP URL as the text source for the component.

*Workaround:* Enter 1 in the Skip First Rows field, save the configuration, change the value for Skip First Rows to 0, and save the configuration again.

### 6.2.17 Stepping through DB Data Sink Insert fails with error message

**[CR #540658]** If you right-click the DB Data Sink Insert component in a project and select Step, then repeat this procedure, the connection to the database drops and an error message displays:

```
"DB Operation write: Cannot accept 'bulk' in state  
'disconnected'."
```

*Workaround:* Right-click and select “Initialize and Step” the second time you want to step through a DB Data Sink Insert component.

### 6.2.18 JavaScript Debugger stops responding after adding a variable to the watch list

**[CR #541268]** The JavaScript Debugger stops responding if you add a variable to the watch list, then start the JavaScript Debugger, and go through the javascript.

*Workaround:* None

### 6.2.19 Cannot delete attached connections created in earlier ETL versions

**[CR #541791]** Deleting a Job component in a job created in earlier versions of Sybase IQ ETL does not delete the attached connections.

*Workaround:* Delete and recreate the Job component.

---

**Warning!** Back up the original job *before* you edit any job created in versions of Sybase IQ ETL earlier than 4.5.

---

#### ❖ Deleting and recreating a Job component

- 1 Unselect File | Preferences | Workbench | Appearance | “Create links automatically when components are added.”
- 2 Delete both the component and its attached links.
- 3 Add the new component.
- 4 Redraw the connections.
- 5 Save the job.
- 6 Optionally reselect File | Preferences | Workbench | Appearance | “Create links automatically when components are added” to restore the default preference.

### 6.2.20 ETL may stop responding if tables contain a large number of columns

**[CR #541647 and CR #541781]** When you execute a project with tables containing hundreds of columns, ETL Server may stop responding intermittently. Attempts to save the project may also cause ETL Development to stop responding intermittently.

*Workaround:* None.

## 6.3 Problems with internationalization

This section documents known problems with multibyte and non-Western characters.

### 6.3.1 Cannot install to directory having a multibyte character name

**[CR #453042]** You cannot install Sybase IQ ETL into a directory that has non-Western or multibyte characters in the directory name.

*Workaround:* None.

### 6.3.2 Insert Location component cannot load Unicode data from Microsoft SQL Server.

**[CR #530253]** The IQ Loader DB via Insert Location component cannot load non-Western and multibyte character data from Microsoft SQL Server to Sybase IQ using Sybase Enterprise Connect™ Data Access (ECDA).

*Workaround:* None.

### 6.3.3 Cannot enter multibyte characters in password fields

**[CR #530806]** You cannot directly type in non-Western or multibyte characters in some ETL password fields; for example, in the Database Configuration window for components. You can type only ASCII characters directly into password fields.

*Workaround:* You can paste non-Western or multibyte character passwords directly into the password field.

### 6.3.4 Multibyte characters in Windows XP 64-bit do not display correctly

**[CR #534273]** Multibyte characters in the values for variables in javascript expressions within ETL projects on the Windows XP 64-bit platform do not display correctly.

*Workaround:* Add the variable to a watch list to view the variable value.

### 6.3.5 IQ Loader DB via Insert Location does not support multibyte characters in database, schema, and table names

**[CR #538789]** Projects using the IQ Loader DB via Insert Location component fail if the source database, schema, or table name contains multibyte characters.

*Workaround:* Use the migration wizard to extract data from multibyte databases, schemas, or table names.

### 6.3.6 uSetEnv fails with multibyte or non-Western characters

**[CR #539437]** The uSetEnv function fails if one of the arguments given to the function contains multibyte or non-Western characters.

*Workaround:* On the command line, set ETL to support UTF-8, for example:

```
set LANG=zh.UTF-8
```

### 6.3.7 Japanese character does not convert correctly from Oracle 10g

**[CR #539726]** The Japanese character “ ~ ”, also known as UTF-16LE: 0x5EFF, does not convert correctly from the source Oracle 10g database if you use the Oracle 10g or 11g native interfaces, or the Oracle 10g or 11g ODBC interfaces in ETL Development on Windows XP.

*Workaround:* In ETL Development, use the Microsoft ODBC driver for Oracle that ships with Windows XP and set the NLS\_LANG environment variable for locale to “AMERICAN\_AMERICA.JA16SJIS” in the registry of your ETL Development machine running on Windows XP.

### 6.3.8 Select correct character set encoding to display Unicode characters properly

**[CR #540139]** Characters display incorrectly unless you select the correct “endianness” type for the character set encoding for Unicode files that have a Byte Order Marker (BOM), when you load character data using the “Text Data Provider” or “Text Data Sink” components.

*Workaround:* In the Character Encoding field of the component configuration window, select the character set encoding with the correct endianness type for character data. For example, select:

- UTF-16LE to process text files encoded in UTF-16LE which have a BOM at the beginning of the file where LE means “little-endian” since the BOM is at the beginning of the file.
- UTF-16BE to process text files encoded in UTF-16BE with a BOM at the end of the file where BE means “big-endian” since the BOM is at the end of the file.

### 6.3.9 Schema list does not display for Chinese Windows platforms

**[CR #541713]** When you select the native Oracle interface on English Windows Vista with a Chinese language package installed and on native Chinese Windows 2003, the Schema field in the component configuration window and Properties window does not prompt you with the existing schemas as you type in a schema name.

*Workaround:* Select the schema from the Schema field instead typing it in.

## 6.4 Problems with third-party products and components

This section documents known problems with third-party products and components.

### 6.4.1 Recommended settings for IQ database options

**[CR #447097]** The IQ database option `FORCE_NO_SCROLL_CURSORS` should be at the default setting `OFF` or a fetch error may occur while moving data using ETL.

*Workaround:* To adjust database option settings, use the `SET OPTION` command in `dbisql` or, in Sybase Central, right-click the database and choose Set Options.

### 6.4.2 Project execution may stop responding when database runs out of space

**[CR #455779]** When a database involved in a data transfer runs out of space, project execution may halt. This happens because the database driver does not return with an error message but waits to continue until space is available.

*Workaround:* Ensure that sufficient space is available before running a project or job.

### 6.4.3 Do not use ETL keywords in queries

**[CR #475056]** ETL projects do not execute if you use ETL keywords in the query string.

*Workaround:* Do not use ETL key words such as “execute,” “simulate,” or any of the ETL functions in Appendix A, “Function Reference” in the *Sybase IQ ETL 4.5 Users Guide*, in query strings.

### 6.4.4 Project fails if text data file is larger than 1GB on IBM AIX

**[CR #477788]** You cannot generate text data files larger than 1GB on IBM AIX, due to constraints in the operating system.

*Workaround:* None.

### 6.4.5 Use ODBC to connect to a SQL Anywhere repository you created in ETL 4.2

**[CR #480747]** If you create a SQL Anywhere repository in ETL 4.2 using ODBC, when you migrate to ETL 4.5, you must use ODBC to connect to the same repository.

*Workaround:* None.

### 6.4.6 Some ETL Flash demos cannot run in Windows Vista

**[CR #482997]** Running ETL Flash demos in Windows Vista can result in stack trace errors due to a missing Adobe Flash Player component in Windows Vista.

*Workaround:* See the Adobe TechNote: Troubleshoot Adobe Flash Player installation for Windows at [http://www.adobe.com/go/tn\\_19166](http://www.adobe.com/go/tn_19166).

### 6.4.7 Specify “Use Cursors” for Adaptive Server ODBC data source

**[CR #500832]** ETL cannot display the binary, varbinary, or time value from Adaptive Server Enterprise using the ODBC interface.

*Workaround:* Select “Use Cursors” when you configure the ODBC data source for Adaptive Server.

### 6.4.8 No databases display if you have ODBC driver 15.0.105

**[CR #531861]** If you use Adaptive Server ODBC driver version 15.0.105 or earlier, ETL does not display any database in the Host Name field of the Properties window when you select ODBC for your database interface.

*Workaround:* Upgrade to Sybase Adaptive Server ODBC driver version 15.0.305 or later.

### 6.4.9 Cannot find invalid data using ODBC with block execution

**[CR #532311]** When you perform block execution using ODBC, ETL finds only the first set of invalid data.

*Workaround:* To ensure ETL writes each row of invalid data to the reject log file, change these Database Options values of the Data Sink component:

- Write Rejected Records to File – enter the path to the reject file.
- Enable Bulk Load – set to 0.

### 6.4.10 ETL Server cannot start in Red Hat Enterprise Linux 5.0 32-bit

**[CR #536724]** ETL Server may not start in Red Hat Enterprise Linux 5.0, and this error message displays:

```
./GridNode: error while loading shared libraries:  
etl_installation_path/libgpengine.so: cannot restore  
segment prot after reloc: Permission denied
```

*Workaround:* Using root or sudo authority:

- 1 Disable SELinux (security-enhanced Linux) by adding the line SELinux=disabled to the `/etc/sysconfig/selinux` file.
- 2 Restart the machine.
- 3 Restart ETL Server.

### 6.4.11 Wrong date format written to DB2 on IBM AIX

**[CR #538539]** Using DB Data Provider Index Load and Text Data Sink components, the output date format to DB2 on IBM AIX is incorrect.

*Workaround:* There are two workarounds:

- 1 Set the Read Block Size to 1. Be aware that reducing the read block size decreases performance.

- 2 Use the CHAR function to change the query to convert the date or time column to the char datatype. For example, if col\_1 is a date column, col\_2 is a time column, and col\_3 is a timestamp (which does not exhibit the problem), this SQL statement corrects the problem. This statement does not force the user to change the Read Block Size and avoids performance degradation associated with larger block processing:

```
select CHAR(col_1), CHAR(col_2), col_3 from DATE_TIME_TBL
```

Text Data Sink component output is:

```
COL_1, COL_2, COL_3

1963-12-08, 12.00.00, 1991-03-02 08:30:00.000

1967-04-10, 12.01.01, 1991-04-02 08:30:00.000
```

If you do not use the CHAR function, the Text Data Sink output is:

```
COL_1, COL_2, COL_3

1963-12-08, 12:00:00, 1991-03-02 08:30:00.000

0004-10-00, 01:01:00, 1991-04-02 08:30:00.000
```

To view the data written to the DB2 table, for example the DATE4\_TBL table, enter:

```
select * from DATE4_TBL
```

The content in DATE4\_TBL in DB2 is:

```
COL_1      COL_2      COL_3
-----
12/08/1963 12:00:00 1991-03-02-08.30.00.000000

04/10/1967 12:01:01 1991-04-02-08.30.00.000000
```

### 6.4.12 Projects on Windows platforms fail with pipe error messages

**[CR #539346]** Projects may fail with a “pipe does not exist” or “pipe permission” error when ETL Server and Sybase IQ server are on different Windows platforms.

*Workaround:*

- 1 Verify that the Sybase IQ and ETL Server hosts can both access the shared directories on each other:
  - a If Sybase IQ is running on Windows 2003, which is a multiuser operating system, ensure that you are logged in to the session where the target Sybase IQ server was started
  - b Ensure you can see the target Sybase IQ server when you try to access the ETL Server host from within the Sybase IQ host.
- 2 If pipe errors still exist after following workaround 1, specify a data file instead of a pipe name for the Load Stage option in the IQ Bulk Load Sybase IQ component to execute the project containing the component. See “DB Bulk Load Sybase IQ,” in Chapter 5 “Components” in the *Sybase IQ ETL 4.5 Users Guide*.

### 6.4.13 Sybase IQ repositories do not support concurrent ETL write operations

**[CR #541129]** Error messages display if you transfer and save projects from multiple ETL Development users concurrently to the same ETL repository on the same Sybase IQ server. Sybase IQ does not support concurrent ETL Development write operations to a specific repository.

*Workaround:* Avoid concurrent write operations when using Sybase IQ as a repository.

## 7. Documentation updates and clarifications

This section contains updates and clarifications to the product documentation, online help, and demos.

### 7.1 Displaying ETL Development, product manuals, and demos

To ensure you can properly view and use the ETL Development GUI and the ETL product manuals, and run the ETL Flash demos that are installed with the product:

- Set the screen resolution to 1024x768 pixels as the Content Explorer dialog is too large to display when the screen resolution is set to 800x600 pixels.
- To run ETL Flash demos in Windows Vista, install the latest version of Adobe Flash Player from the Adobe Web site at <http://www.adobe.com>.
- To access the New Features Guide from Help | What's New in ETL Development, install the latest version of Adobe Reader from the Adobe Web site at <http://www.adobe.com>.

## 7.2 Users Guide

This section describes updates and clarifications to the *Sybase IQ ETL 4.5 Users Guide*.

### 7.2.1 Changes to Execution Monitor

**[CR #451155]** The Execution Monitor described in Chapter 4, “Advanced Concepts and Tools” includes new features that allow you to save the results of project and job execution:

- Save Results button – saves the results of the project you are executing to a HTML file.
- Copy button – select a job or project from the Job or Projects pane and then right-click to copy the execution results of the job or project and paste to a different application, such as Notepad or Microsoft Word.

### 7.2.2 Changes to Text Data Provider and Text Data Sink components

**[CR #461969]** The Text Data Provider and Text Data Sink components described in “Source components,” and in “Destination components,” respectively in Chapter 5, “Components” include an optional property:

Property	Description
Fixed by Bytes	Specify how ETL interprets the values provided for line length, column start and column end for non-Western and multibyte characters: <ul style="list-style-type: none"> <li>• Not selected – the values are interpreted as number of characters. This is the default.</li> <li>• Selected – the values are interpreted as number of bytes.</li> </ul>

### 7.2.3 Changes to uSystemFolder function

**[CR #536900]** The uSystemFolder function described in Appendix A, “Function Reference” does not support these Constant Special Item ID List (CSIDL) values for folders in Sybase IQ ETL 4.5:

- BITBUCKET
- COMMON\_ALTSTARTUP
- DRIVES
- INTERNET
- LOCAL\_APPDATA
- NETWORK
- PRINTERS

### 7.2.4 Name change for IQ Loader DB via Load Table component

**[CR #538971]** The IQ Loader DB via Load Table component described in “Loader components,” in Chapter 5, “Components” has been renamed to IQ Loader File via Load Table.

### 7.2.5 Transferring a project copies execution properties

**[CR #540169]** Transferring a project copies execution properties as well as project definitions.

The note in the procedure “Transferring a project,” in “Managing projects,” in Chapter 3, “Projects and Jobs” should be:

---

**Note** Transfer copies project definitions and execution properties. Parameter sets are not transferred.

---

## 7.3 New Features Guide

This section describes updates and clarifications to the *Sybase IQ ETL 4.5 New Features Guide*.

### 7.3.1 Name change for IQ Loader DB via Load Table component

**[CR #538971]** The IQ Loader DB via Load Table component described in “Sybase IQ load support enhancements” has been renamed to IQ Loader File via Load Table.

## 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 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.

## 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.