

Release Bulletin

Replication Server® 15.7

UNIX and Linux

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iv Replication Server

Product Summary

This release bulletin provides late-breaking information about Replication Server® version 15.7. A more recent version may be available on the Web.

Supported Platforms and Operating Systems

Check the system requirements and system patches for the server on which you will install Replication Server.

Platform	Supported Operating Systems and Version
HP-UX Itanium (64-bit)	HP-UX 11.31 Note: The installer requires the gzip utility. Ensure that the path to gzip is set in the \$PATH environment variable.
Linux x86-64 (64-bit)	 Red Hat Enterprise Linux 5.5 kernel - 2.6.18-194.el5 SMP glibc - 2.5-49 Red Hat Enterprise Linux 6.0 kernel - 2.6.32-71.el6.x86_64 SMP glibc - 2.12-1.7.el6.x86_64 glibc - 2.12-1.7.el6.i686 SuSE Linux Enterprise Server SLES 10, Service Pack 2 kernel - 2.6.16.60-0.21 SMP glibc - 2.4-31.54 SuSE Linux Enterprise Server SLES 11 kernel - 2.6.27.19-5.1 glibc - 2.9-13.2 SuSE Linux Enterprise Server SLES 11, Service Pack 1 kernel - 2.6.32.12-0.7 glibc - 2.11.1-0.17.4

Platform	Supported Operating Systems and Version
Linux on IBM p-Series (Linux on POWER) (64-bit)	 Red Hat Enterprise Linux 5.5 kernel - 2.6.18-194.el5 SMP glibc - 2.5-49 Red Hat Enterprise Linux 6.0 kernel- 2.6.32-71.el6.ppc64 SMP glibc-2.12-1.7.el6.ppc64 glibc-2.12-1.7.el6.ppc SuSE Linux Enterprise Server SLES 10, Service Pack 2 kernel - 2.6.16.60-0.21-ppc64 SMP glibc - 2.4-31.54 SuSE Linux Enterprise Server SLES 11, Service Pack 1 kernel - 2.6.32.12-0.7-ppc64 SMP glibc - 2.11.1-0.17.4 Before you install Replication Server, install the runtime libraries for the IBM XL C compiler. To verify that IBM XL C runtime packages are installed, issue: vacpp.rte-10.1.0-0 If the message is "package vacpp.rte-10.1.0-0 is not installed", download the IBM XL C version 10.1 runtime executables from the IBM Web site at https://www-304.ibm.com/support/docview.wss?uid=swg24021253. Make sure that you select the appropriate installation package for your operating systems from the download table.
IBM AIX (64-bit)	 AIX 6.1 AIX 7.x Before you install Replication Server, install the IBM XL C/C++ Runtime for AIX and the SMP Runtime Libraries required for your version of AIX. Obtain the libraries from your IBM AIX operating system installation media. These libraries are also available from the IBM AIX Web site: The IBM XL C/C++ Runtime for AIX is available on the Web site under "Latest updates for supported IBM C and C++ compilers." The SMP Runtime Libraries for AIX are available on the Web site under "IBM XL C/C++ Enterprise Edition for AIX, Runtime Environment and Utilities."

Platform	Supported Operating Systems and Version
Sun Solaris SPARC	Solaris 10
(64-bit)	
Sun Solaris x64	Solaris 10
(64-bit)	

On Linux: Linux distribution vendors often provide errata packages, allowing you to upgrade and fix known issues within a release. Contact your Linux distributor for more information.

If your operating system requires patches, install the patches before you install Replication Server components.

Contact your operating system representative for patches recommended for Replication Server installed on your system. Do not use a patch that is older than the version suggested for your operating system. Use the patch recommended by the operating system vendor even if the patch version supersedes the listed patch.

For a complete list of supported operating systems, see the Sybase[®] Platform Certification Web site at *http://certification.sybase.com/ucr/search.do*.

Replication Server 15.7 64-bit for HP-UX Itanium

The 64-bit version of Replication Server for HP-UX Itanium uses the libtal64.cfg file to to provide configuration information such as driver, directory, and security services for Open Client/Server $^{\text{TM}}$ applications.

The 64-bit version of Replication Server for HP-UX Itanium is compiled with the 64-bit Sybase Open Client/Server. Therefore, the 64-bit version of Replication Server for HP uses the libtal64.cfg file for HP-UX Itanium, instead of the 32-bit libtal.cfg file.

Note: Consider all references to libtcl.cfg in the Replication Server documentation as libtcl64.cfg for HP-UX Itanium.

Internet Protocol Version 6

Operating systems and versions that support Internet Protocol version 6 (IPv6).

- HP-UX Itanium 11.31
- IBM AIX 6.1 and 7.x
- Linux RHEL 5.5 and 6.0
- Sun Solaris 10 SPARC and Sun Solaris 10 x64

Replication Server

Replication Server coordinates data replication activities for local databases and exchanges data with Replication Servers that manage data at other sites.

For detailed information about new features in Replication Server 15.7, see the *Replication Server New Features Guide*.

Replication Manager

The Replication Manager (RM) is a utility for creating, managing, and monitoring replication environments, and is available as a plug-in to Sybase CentralTM.

Replication Manager is not certified for use with Adaptive Server® Enterprise Cluster Edition.

For detailed information about Replication Manager, see the *Replication Server Administration Guide Volume 1*.

For information about commands used to manage replication, see the *Replication Server Reference Manual*.

Replication Monitoring Services

Replication Monitoring Services (RMS) monitors the servers and components in a replication environment, provides the ability to control the flow of data in the replication environment, and sets the configuration parameters.

RMS is not certified for use with Adaptive Server Enterprise Cluster Edition.

For detailed information about RMS, see the *Replication Server Administration Guide Volume 1*.

Sybase Control Center

Sybase Control Center (SCC) for Replication provides status information at a glance, using server monitors and a heat chart for displaying the availability or status of a specific server. The server monitors display high-level information, such as server version and platform. The server monitors also display critical performance counters to aid you in troubleshooting replication performance.

In Sybase Control Center 3.2.4, see Sybase Control Center for Replication.

ExpressConnect for Oracle

ExpressConnect for Oracle is an embedded library loaded by Replication Server for Oracle replication.

ExpressConnect for Oracle (ECO), which is available with Replication Server Options 15.5 and later, provides direct communication between Replication Server and a replicate Oracle data server. ECO eliminates the need for installing and setting up a separate gateway server, thereby improving performance and reducing the complexities of managing a replication system.

To use ECO, make sure:

- Replication Server is installed using the REP_EC_ORA license.
- The version of ECO that must be installed is ECO 15.5 ESD #1. Replication Server 15.7 does not work with ECO 15.5.

See the *ExpressConnect for Oracle Installation and Configuration Guide* in Replication Server Options 15.6 product documentation.

Separately Licensed Products

Obtain a separate license for each Replication Server Options component.

ExpressConnect for Oracle, Replication Agent, and Enterprise Connect Data Access

ExpressConnect for Oracle, Replication AgentTM, and Enterprise ConnectTM Data Access are available as a product called Replication Server Options that are available separately from Replication Server. You must have Replication Server to obtain Replication Server Options.

Replication Server Options provide bidirectional replication across distributed, heterogeneous systems. You can use the Replication Server Option components to implement replication on the Microsoft Windows and UNIX platforms.

Replication Server Options are available in three data-source-specific versions: Oracle, Microsoft SQL Server, and IBM DB2 UDB. See the *Release Bulletin for Replication Server Options 15.6 for Linux, Microsoft Windows, and UNIX* for details about supported platforms and compatible Replication Server versions.

Replication Server Data Assurance Option

Replication Server Data Assurance (DA) Option 15.7 is available as a separately licensed product for Replication Server and supports Replication Server versions 15.1 and later.

Replication Server DA Option compares row data and schema between two or more Adaptive Server[®] databases, and reports and optionally reconciles, discrepancies.

Replication Server Data Assurance Option is licensed through SySAM license manager and is available on multiple platforms. See Replication Server Data Assurance Option documentation for additional information.

Product Editions and Licenses

Replication Server 15.7 is released as the Enterprise Edition.

Replication Server 15.7 includes enhancements to real-time loading (RTL) replication to Sybase[®] IQ. If you are using the Replication Server Real-Time Loading Edition, you can use the RTL enhancements by upgrading to Replication Server 15.7.

Although real-time loading is supported on all platforms that Replication Server supports, Replication Agent for Oracle (RAO) is not available on Linux on POWER or on Sun Solaris x64. However, you can run RAO on any of the platforms it supports. For platforms on which RAO is available, see the *Installation Guide for Replication Agent* in the Replication Server Options documentation.

See Replication Installation Guide > Planning Your Installation > Obtaining a License.

To purchase licensed options, contact your Sybase sales representative.

Product Compatibility

Replication Server has been tested for compatibility with Adaptive Server and other Sybase products.

Adaptive Server

Review the Adaptive Server versions and its operating systems that are compatible with Replication Server.

Replication Server version 15.7 is fully compatible with both 32-bit and 64-bit versions of Adaptive Server Enterprise version 15.0 and later, and Adaptive Server Enterprise version 12.5.4 on HP-UX, IBM AIX, Linux, and Sun Solaris.

See the "Interoperability Between Adaptive Server and Replication Server" table.

Warning! Replication Server 15.7 is not compatible with the Adaptive Server 15.7 GA release. You can download the most current Adaptive Server 15.7 EBF from the Sybase Downloads Web site or contact Sybase Technical Support for detail to download the most current Adaptive Server 15.7 EBF for compatibility with Replication Server 15.7.

Note: Replication Server 15.7 supports only Adaptive Server 15.7 Multi-Path Replication[™] and Metadata Reduction features. No other Adaptive Server 15.7 new features are supported by Replication Server 15.7.

See the Replication Server New Features Guide.

A replication system can include Adaptive Servers, Replication Servers, DirectConnectTM products, and RepAgents on various operating systems.

Note: Sybase SQL Server versions 11.0.*x*, and Adaptive Server 12.5 and earlier are no longer supported.

See also

• Replication Server Interoperability on page 7

Adaptive Server 15.7 Compression

Replication Server 15.7 does not support replication of compressed columns or tables.

In-Row LOB Column Replication

The semantics and interface for replicating in-row LOB columns in Adaptive Server 15.7 is the same as that of LOB columns in versions earlier than 15.7.

To mark in-row LOB columns for replication, use:

```
sp_setrepcol stored procedure: sp_setrepcol table_name [, {column_name | null} [, {do_not_replicate | always_replicate | replicate_if_changed}]] [, use_index].
```

In addition, when replicating an in-row LOB column on the primary database, you can store the replicated data in-row or off-row, depending on the replicated database and replicated table settings. For example, if the page size is smaller in the replicate than in the primary, the replicated table row size is smaller, and the replicated LOB does not fit in-row; therefore the in-row value on the primary may be replicated as an off-row LOB value on the replicate.

Replication Server Interoperability

Review the interoperability of Replication Server against other Sybase products, across different platforms, and versions.

Replication Server is available as either a 32-bit application or a 64-bit application on Windows. The 32-bit version of Replication Server has been certified on both the 32-bit and 64-bit versions of Windows operating system. The 64-bit version of Replication Server is not certified on the 32-bit version of Windows operating system.

Even though two or more products may be interoperable, features introduced in a newer version of a product are not likely to be supported by older versions of the same products.

Table 1. Interoperability Between Adaptive Server and Replication Server

Operating System	Rep	licatio	on Sei	ver		Ada	Adaptive Server				
	15.7	15.6, 15.5	15.2, 15.1	15.0.1	12.6	15.7*	15.5	15.0.x	12.5.4		
HP-UX Itanium (64-bit)	X	X	X	х	х	X	X	X	x		
IBM AIX (32-bit)	n/a	n/a	X	X	X	n/a	n/a	n/a	n/a		
IBM AIX (64-bit)	X	X	x	x	X	X	X	X	x		
Linux x86 (32-bit)	n/a	X	x	x	X	n/a	X	X	x		
Linux x86-64 (64-bit)	х	х	X	X	X	X	X	X	x		
Linux on POWER (64-bit)	X	х	х	n/a	n/a	X	X	X	x		
Sun Solaris SPARC (32-bit)	n/a	n/a	х	х	х	n/a	х	X	х		
Sun Solaris SPARC (64-bit)	х	х	х	х	х	х	х	Х	х		
Sun Solaris x86-64 (32-bit)	n/a	n/a	х	n/a	n/a	n/a	n/a	n/a	n/a		
Sun Solaris x86-64 (64-bit)	х	х	х	n/a	n/a	х	х	X	Х		
Microsoft Windows x86 (32-bit)	х	х	х	х	х	Х	х	х	х		
Microsoft Windows x64 (64-bit)	х	х	n/a	n/a	n/a	Х	х	X	n/a		

Operating System	Rep	licatio	on Ser	ver		Adaptive Server			
	15.7	15.6, 15.5	15.2, 15.1	15.0.1	12.6	15.7*	15.5	15.0.x	12.5.4

 $\label{eq:loss} Legend: x = compatible; n/a = product \ not \ available \ or \ does \ not \ work \ with \ Replication \ Server \ on \ that platform.$

Table 2. Interoperability Between Replication Server, Open Client/Server, and Sybase IQ

Operating System	Rep	Replication Server			Ope Ser	en Clie ver	ent/	Sybase IQ			
	15.7	15.6, 15.5	15.2, 15.1	15.0.1	12.6	15.7	15.5	15.0	15.3	15.2, 15.1	12.7
HP-UX Itanium (64-bit)	x	X	X	X	х	х	X	X	X	х	X
IBM AIX (32-bit)	n/a	n/a	X	X	х	X	X	X	n/a	n/a	n/a
IBM AIX (64-bit)	x	x	X	x	х	X	x	х	X	x	X
Linux x86 (32-bit)	n/a	X	X	X	X	X	X	X	n/a	х	x
Linux x86-64 (64-bit)	X	X	X	X	х	x	х	X	X	х	X
Linux on POWER (32-bit)	n/a	n/a	n/a	n/a	n/a	X	X	X	n/a	n/a	n/a
Linux on POWER (64-bit)	Х	X	Х	n/a	n/a	Х	х	х	х	Х	x
Sun Solaris SPARC (32-bit)	n/a	n/a	Х	Х	х	Х	X	х	n/a	n/a	n/a
Sun Solaris SPARC (64-bit)	X	Х	х	Х	Х	х	х	х	Х	Х	x
Sun Solaris x86-64 (32-bit)	n/a	n/a	Х	n/a	n/a	Х	х	х	n/a	n/a	n/a

^{*} Adaptive Server 15.7 GA is not compatible with Replication Server 15.7, download the most current Adaptive Server 15.7 EBF from the Sybase Downloads Web site.

Operating System	Rep	Replication Server			Open Client/ Server			Sybase IQ			
	15.7	15.6, 15.5	15.2, 15.1	15.0.1	12.6	12.7	15.5	15.0	15.3	15.2, 15.1	12.7
Sun Solaris x86-64 (64-bit)	X	X	X	n/a	n/a	X	X	X	х	X	х
Microsoft Windows x86 (32-bit)	Х	Х	Х	Х	Х	X	X	х	х	Х	x
Microsoft Windows x64 (64-bit)	X	Х	n/a	n/a	n/a	Х	х	х	х	Х	х

Legend: x = compatible; n/a = product not available or does not work with Replication Server on that platform.

Sybase Control Center Compatibility

Replication Server 15.7 is compatible with Sybase Control Center version 3.2.4.

Installation and Upgrade

Get 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, see the *Replication Server Installation Guide*.

Special Installation Instructions

Additional installation updates for Replication Server that are omitted from or incorrect in the installation guide.

Sample Replication Server for Linux on POWER

Replication Server 15.7 installation process for Linux on POWER does not include starting a sample Replication Server. This is because ERSSD is not supported for 64-bit Linux on POWER.

The ERSSD requires Sybase SQL Anywhere® Server, which is not available in Replication Server 15.7 for Linux on POWER. Therefore, the procedures related to starting a sample Replication Server in the *Replication Server Installation Guide* are not relevant.

Enabling Asynchronous Disk I/O

HP-UX users must enable asynchronous I/O. Enabling asynchronous I/O improves I/O performance on character or raw block devices.

Prerequisites

Shut down Replication Server.

Install HP asynchronous I/O driver from the system administration manager (SAM). For help with installing this driver, contact your operating system administrator or HP technical support.

Task

1. Launch the kernel configuration:

```
kcweb -F
```

- 2. Select Modules.
- 3. Select asyncdsk and change the **Next Boot** to **static**.
- **4.** Rebuild the kernel and restart the system.
- **5.** Using *userid*, root, execute:

```
#/etc/mknod/dev/async c 101 4
#chmod 0660/dev/async
#chown uid /dev/async
#/etc/setprivgrp ugrp MLOCK
```

where:

- *uid* is the user ID who is starting Adaptive Server.
- *ugrp* is the group to which the user ID belongs.

Coexisting with Older Versions of SySAM

Replication Server 15.7 uses SySAM 2. You may use an earlier version of SySAM, but it must be modified.

Replication Server version 15.7 uses a newer version of Sybase Software Asset Management System (SySAM) and an updated license format. You can run only one instance of a license

server on a computer. To use earlier versions of Sybase products with Replication Server 15.7, see *SySAM Users Guide* for details.

For instructions on migrating a license server, see the SySAM Users Guide.

Special Upgrade and Downgrade Instructions

Review the additional special upgrade and downgrade instructions for Replication Server.

Replication Server Configuration Guide for UNIX contains detailed upgrade and downgrade instructions. Sybase strongly recommends that you read this information before you upgrade or downgrade Replication Server.

Warning! Before upgrading the user database to support Replication Server 15.5 and later, upgrade Adaptive Server Enterprise to version 12.5 or later. Otherwise, the upgrade fails.

Incompatible Function String in rs_sqlserver_function_class

When you upgrade from an earlier version of Replication Server using a customized **rs_sqlserver_function_class** in your connection, you may lose some customized function-string-class scope functions.

Sybase recommends that you back up these function strings before upgrading:

- · rs commit
- rs_get_lastcommit
- rs_get_thread_seq
- rs_get_thread_seq_noholdlock
- · rs_initialize_threads
- · rs ticket report
- · rs_update_threads

ExpressConnect for Oracle Upgrade Requirement

Replication Server 15.7 does not work with ECO 15.5. When upgrading to Replication Server 15.7, install ECO 15.5 ESD #1 or a more recent version.

See the ExpressConnect for Oracle Installation and Configuration Guide.

ERSSD Upgrade Requirement

Embedded Replication Server System Database (ERSSD) requires Sybase SQL Anywhere, which is compatible with 64-bit versions operating system.

If you are upgrading to Replication Server 15.7 on Sun Solaris SPARC, Sun Solaris 10 x64, or IBM AIX, and using ERSSD, platforms must be 64-bit for the upgrade to function properly. For these operating systems, ERSSD can only be run on 64-bit machines. This is a restriction of the underlying SQL Anywhere database.

Known Issues

Review the known issues and provided workarounds.

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.

Known Issues for Replication Server

Known issues and workarounds for Replication Server.

Table 3. Replication Server Issues

CR#	Description
690422	Incorrect value for text and image columns.
	In a warm standby environment, if you set text and image columns of a table to do_not_replicate on the active database, and you create a table replication definition for this table without send standby replication definition columns, the replication definition does not include the text and image columns. As a result, the standby database gets incorrect value for the text and image columns.
	Workaround:
	 Create the table replication definition with send standby replication definition col- umns clause.
	2. Drop the table replication definition if it is not necessary.
689260	dsi_command_convert for a table does not override in a warm standby application.
	Workaround: Add table owner name in the alter connection command. For example:
	<pre>alter connection to zeus_ds.omega { [for replicate table named dbo.alpha]}</pre>

CR#	Description
689026	Risk of data loss or duplication when altering multipath replication topology.
	Data loss or data duplication may occur if you change any of these items in a multipath replication system:
	 Bindings of objects to paths Number of paths when distributing objects by connections Configuration of logical paths Replication Server entries in the interfaces file
	Workaround: Before you alter the system topology, ensure that:
	 All Replication Servers involved in the previous topology are quiesced. Verify with admin quiesce_check. RepAgent starts reading from the end of the primary database log.
688215	If you apply an insert command with bulk interface and later apply an insert to that table that does not qualify for the bulk interface but qualifies for dynamic SQL, the dynamic SQL may fail and the DSI connection suspends. The Replication Server log shows: E. 2011/10/23 23:23:01. ERROR #5216 DSI EXEC(109(1) ost_rqalnxsuse2_15.rdb1) - /dsiutil.c(432) The interface function 'SQLBindParameter' returns FAIL for database 'ost_rqalnxsuse2_15.rdb1'. See messages
	from the interface function for more information. E. 2011/10/23 23:23:01. ERROR #1027 DSI EXEC(109(1) ost_rqalnxsuse2_15.rdb1) - /dsiutil.c(432) Open Client Client-Library error: Error: 16843024, Severity 1 'ct_param(): user api layer: external error: This routine cannot be called while results are pending for a command that has been sent to the server.'. I. 2011/10/23 23:23:01. The DSI thread for database 'ost_rqalnxsuse2_15.rdb1' is shutdown
	Workaround: Execute resume connection.
687280	Replication Server fails when you enable RTL.
	Replication Server fails when a replication definition contains more columns than the source table and when the replicate minimal columns is set to on. This occurs when an update or a delete is compiled first into the in-memory database, prior to an insert statement.
	Workaround: Remove either:
	 replicate minimal columns from the replication definition, or, Columns that do not exist in the source table from the replication definition.

CR#	Description
686258	Replication Server fails in some instances because it inconsistently manages owner qualification for the replicated objects when the HVAR feature, dsi_compile_enable, is set to on.
	Workaround: Set HVAR to off.
678521	Cannot find a matching function string for the function-string class rs_sqlserv-er_function_class.
	If you create multiple replication definitions for a specified primary table and you subsequently alter a column without an LOB datatype to be an LOB column in one of the replication definitions, the LOB-related function strings are not created automatically for one of the replication definitions at the replicate Replication Server. The replicate Replication Server log shows:
	Cannot find a matching function string for function 'all-types.rs_writetext' and function string class 'rs_sqlserver_function_class'.
	Workaround:
	1. Clear the failed Data Server Interface (DSI) connection queue by executing resume/skip tran until the DSI connection resumes.
	2. Drop the subscription to the problem replication definition at the replicate Replication Server, then drop the replication definition at the primary Replication Server, then recreate both.
657575	If a Stable Queue Transaction (SQT), Stable Queue Manager (SQM) page caches, or DSI Bulk/HVAR buffers are using heavy memory loads, Replication Server may fail when it exceeds the low default ulimit settings in the operating system.
	Workaround: Either:
	 Modify the runserver file with these settings: ulimit -d 'unlimited' ulimit -c 'unlimited' ulimit -m 'unlimited'
	 As an alternative, modify system wide limits. For example, on IBM AIX, change these default settings in /etc/security/limits file: fsize = -1 core = 2097151 cpu = -1 data = -1 rss = -1 stack = 65536 nofiles = 2000
	See your operating system documentation for similar implementations.

CR#	Description
653626	DSI may shutdown when creating connections to:
	 Oracle using profile rs_ase_to_oracle DB2 using profile rs_ase_to_db2 UDB using profile rs_ase_to_udb
	At the time of shutting down, Replication Server generates an error message. You see:
	Message from server: Message: 2601, State 6, Severity 14 'Attempt to insert duplicate key row in object 'rs_translation' with unique index 'rs_key_translation'
	The rs_translation system table has unique index on (classid, source_dtid). The two translation (ASE binary to <i>rs_oracle_binary</i> and ASE timestamp to <i>rs_oracle_binary</i>) generates the duplicate key insert error.
	Workaround : For Replication Server versions 15.5 and later, you have to manually remove the translations when you encounter this error. Open the SQL scripts and search for timestamp to find the related SQL statements.
	For ase_to_oracle:
	<pre>delete from rs_profdetail where profid = 0x0000000000000000000000000000000000</pre>
	delete from rs_profdetail where profid = 0x0000000000000000000000000000000000
	<pre>and pdetailid = 0x0000000000000000000000000000000000</pre>
	For ase_to_oracle_eco:
	<pre>delete from rs_profdetail where profid = 0x0000000000000000000000000000000000</pre>
	<pre>delete from rs_systext where parentid = 0x00000000000010042 and sequence = 1</pre>
	<pre>delete from rs_profdetail where profid = 0x0000000000000000000000000000000000</pre>
	delete from rs_systext where parentid = 0x00000000000010043 and sequence = 1
	For ase_to_oracle_ecda:
	<pre>delete from rs_profdetail where profid = 0x0000000000000000000000000000000000</pre>
	delete from rs_systext where parentid = 0x0000000000002003f and sequence = 1
	<pre>delete from rs_profdetail where profid = 0x0000000000000000000000000000000000</pre>
	<pre>delete from rs_systext where parentid = 0x00000000000020040 and sequence = 1</pre>
	For ase_to_udb:

CR#	Description
	<pre>delete from rs_profdetail where profid = 0x0000000000000000000000000000000000</pre>
	For ase_to_db2:
	<pre>delete from rs_profdetail where profid = 0x0000000000000012 and pdetailid = 0x000000000001231 delete from rs_systext where parentid = 0x0000000000001231 and sequence = 1</pre>
	<pre>delete from rs_profdetail where profid = 0x0000000000000012 and pdetailid = 0x000000000001232 delete from rs_systext where parentid = 0x0000000000001232 and sequence = 1</pre>
643174	timestamp columns are replicated in a warm standby and multisite availability (MSA) setup.
	timestamp columns are sent to the replicate database even if High Volume Adaptive Replication (HVAR) is set to on, send_timestamp_to_standby is set to off, and there is no replication definition defined.
	Workaround: Set HVAR to off, or create replication definition without the timestamp columns.
642091	RepAgent fails when Replication Server is configured to use Secure Sockets Layer (SSL) with an ERSSD.
	Workaround: Either:
	 Disable SSL using configure replication server with the use_ssl option, or, Do not use ERSSD if the Replication Server is configured to use SSL.

CR#	Description
629548	On IBM AIX 64-bit platforms, isql cannot connect to Replication Server using SSL.
	If you use isql and SYBASE.csh to connect to Replication Server through SSL, the connection fails. isql does not initialize the network filter.
	Workaround : Edit the LIBPATH environment variable in SYBASE.csh or SYB-ASE.sh.
	In SYBASE.csh:
	source SYBASE.csh setenv LIBPATH \$SYBASE/\$SYBASE_OCS/lib3p:\$LIBPATH
	In SYBASE.sh:
	source SYBASE.sh export LIBPATH=\$SYBASE/SYBASE_OCS/lib3p:\$LIBPATH
621751	Replication Server cannot connect to LDAP on 64-bit platforms.
	If the libsybdldap.so and libsybdldap64.so are not specified in the Directory section in libtcl.cfg, Replication Server cannot connect to the LDAP.
	Workaround: Manually edit the libtcl.cfg in \$SYBASE/\$SYBASE_OCS/config directory to include libsybdldap.so and libsybdldap64.so.
	For example:
	[DIRECTORY] ldap32=libsybdldap.so ldap://sylvester:3389 /dc=Sybase,dc=com??one??bindname=cn=Manager,dc=Syb- ase,dc=com??secret ldap64=libsybdldap64.so ldap://sylvester:3389 /dc=Sybase,dc=com??one??bindname=cn=Manager,dc=Syb- ase,dc=com??secret
	The entry name has changed from ldap to ldap32. To start the LDAP session with dscp utility:
	open Idap32
620380	Use rs_init to configure Replication Server with an existing RSSD.
	When configuring Replication Server 15.5 or later using the rs_init with an existing RSSD, an error occurs in rs_init .
	Workaround: Drop the RSSD before configuring the Replication Server.

Replication Server

CR#	Description
618624	Insufficient number of threads in Replication Server.
	If you increase the number of client connections and did not increase the number of Open Server TM threads that the Replication Server can use, Replication Server may shut down.
	Workaround:
	1. Log in to RSSD.
	2. Increase the value of num_threads.
	3. Restart Replication Server.
616941	Stack trace error at start-up when sort order is not in the objectid.dat file.
	If the sort order is not set correctly in the [collate] section of \$SYBASE/config/objectid.dat, a stack trace error occurs during Replication Server start-up.
	Workaround:
	1. Make sure that the character set and set order have been set correctly in Rep_Serv-er_name.cfg file. For example:
	• RS_charset=cp850
	RS_sortorder=scannocp
	2. Go to \$SYBASE/charsets/character set; for example, \$SYBASE/charsets/cp850.
	3. Locate and open corresponding sort order file; for example, scannocp.srt.
	4. Check the line that has an "id" and find the sort order ID, for example,
	id = 0x30; Unique ID # (48) for the sort order
	The sort order ID is 48.
	5. In \$SYBASE/config/objectid.dat, check that there is a line for that sort
	order under the [<i>collate</i>] section: 1.3.6.1.4.1.897.4.9.3.48 = scannocp
	The last number is the sort order ID (48), all other numbers are identical for all lines. If
	you have a custom sort order, add this line for it.
	6. Restart Replication Server.

CR#	Description
614717	Issues with parallel_dsi parameter
	When you change the value of the parallel_dsi parameter using the alter connection command or configure replication server command, Replication Server changes the existing configuration values of these parameters:
	dsi_num_threads
	dsi_num_large_xact_threads
	dsi_serialization_method dsi_sqt_max_cache_size
	This may impact your replication performance.
	Workaround : Set the parallel_dsi parameter first, and then manually set the desired values for the above-mentioned parameters for your environment if you do not want to use the default values.
607273	When the RSSD is loaded in an Adaptive Server 12.5.4 x server, rs_helprep fails when the <i>repdef_name</i> is greater than 30 characters.
	Workaround:
	Use single quote (') or double quote(") around the long repdef_name.
	• Use a truncated <i>repdef_name</i> . Truncate the <i>repdef_name</i> to the first 29 characters when issuing the rs_helprep request. The rs_helprep then appends the % wildcard at the end when it queries the RSSD tables.
	Upgrade RSSD data server to Adaptive Server 15.x.
571435	During subscription materialization, using quoted identifiers with a custom function string that includes a quoted constant causes a query failure. The replicate data server identifies the quoted constant as a column instead of a constant.
	Workaround : Create the subscription without a quoted constant or create the subscription without materialization.
452806	An application deadlock involving Replication Server and Adaptive Server may occur when Replication Server is configured to use parallel DSI while applying transactions to a table containing text and image columns.
	Workaround : Suspend and resume the DSI connection. If the DSI thread does not suspend, restart the Replication Server.

Known Issues for Replication Agent

Known issues and workarounds for Replication Agent.

Table 4. Replication Agent Issues

CR#	Description
689941	RepAgent for Adaptive Server handles some of the normalization errors from Replication Server as warnings, which may result in data loss.
	Workaround: Upgrade to Replication Server 15.7.
	• If you are using a version of Adaptive Server earlier than 15.7, the RepAgent log may show incorrect normalization errors. For example:
	Column unknown.unknown status 'always_replicate' in replication definition does not match database status 'replicate_if_changed'. Use 'alter replication definition' to set 'replicate_if_changed' status, at least until existing transactions have been processed. (Refer to Troubleshooting Guide for recovery procedures.)
	See the accurate error information in the Replication Server log. For example:
	E2011/11/16 09:17:11. ERROR #32057 REP AGENT(ost_replnxb9_32.pdb1) - /nrm/nrm.c(4175) The value given for 'blurbs.copy' cannot be translated from datatype 'text_status' to the required datatype 'varchar'.
	• If you are using a version of Adaptive Server later than 15.7, the RepAgent log shows the correct error information. For example, the RepAgent log shows:
	00:0002:00000:00018:2011/11/16 09:17:11.71 server Rep-Agent(4): Received the following error message from the Replication Server: Msg 32057. The value given for 'blurbs.copy' cannot be translated from datatype 'text_status' to the required datatype 'varchar'.
630089	Replication Agent for Oracle does not support the resynchronization scenario described in the Replication Server Heterogeneous Replication Guide > Oracle Replicate Databases Resynchronization > Database Resynchronization Scenarios Resynchronization topic.
	Workaround: None.

CR#	Description
596321, 596320	Replication Server does not support specifying owner information of stored procedures in the function replication definition for Oracle.
	Therefore, Replication Agent cannot send that information to Replication Server. Because the owner information is not available, the replicated stored procedure fails to execute at the Oracle standby database.
	Workaround : For each stored procedure that is replicated from an active to a standby database, create a corresponding function string. Specify owner information in the target stored procedure.
	To customize the function-string class of the standby connection, which is inherited from rs_oracle_function_class, enter:
	alter connection to dco2stb.ordb (standby connection) set function string class to my_oracle_function_class go

Known Issues for Sybase Central

Known issues and workarounds for Sybase Central.

Table 5. Sybase Central Issues

CR#	Description
688854	After installing the Replication Manager plug-in 15.7 in the same directory as Sybase IQ 15.3, an error occurs when you start Interactive SQL from Sybase Central the first time.
	Workaround: Ignore the error and click OK to start dbisql .
686721,	Cannot start Interactive SQL from Sybase Central.
683486, 639623	If you install the Replication Manager plug-in version 15.2, version 15.6, or version 15.7 after installing Adaptive Server 15.7 in the same directory, you cannot start Interactive SQL (dbisql) from Sybase Central.
	Workaround: Either:
	 Reinstall Adaptive Server 15.7 and choose custom installation, then select Sybase Central, Sybase Plug-in, and Interactive SQL, or, Before installing Replication Manager, rename scjview.shin shared/sybcentral600 to scjview.sh.save. After installing Replication Manager, rename shared/sybcentral600/scjview.sh.save back to shared/sybcentral600/scjview.sh.

CR#	Description
685820	Sybase IQ plug-in for Sybase Central not registered.
	If Sybase IQ 15.3 is installed on the same system as other products, such as Replication Server or Replication Manager, the Sybase IQ plug-in for Sybase Central may not be registered automatically.
	Workaround: Manually reregister Sybase IQ plug-in into Sybase Central.
343973	Users must have write privileges on home directory.
	Sybase Central writes a registry file in the user's home directory, and uses this registry file to store environment information from the Replication Manager. You must have write privileges on the user's home directory, or Sybase Central cannot save the environment information.
	Workaround : Ensure that each user has write privileges on the user's home directory.

Known Issues for RMS

Known issues and workarounds for RMS.

Table 6. RMS Issues

CR#	Description
616051	RMS does not support dynamic configuration of parameters from Replication Server.
	Executing the configure server command or the configure component command may not return all parameters from a Replication Server. The new parameters are also not displayed correctly in the Replication Manager plug-in when using a three-tier environment.
	Workaround : When configuring a Replication Server or its components, use a two-tier environment in the Replication Manager plug-in to connect and configure.

Known Issues for Replication Manager

Known issues and workarounds for Replication Manager.

Table 7. Replication Manager Issues

CR#	Description
619049	Simultaneously switching multiple warm standby pairs causes Replication Manager plug-in to fail.
	In a Replication Manager plug-in environment that contains multiple warm standby pairs, if you select multiple logical connections and choose switch active , all warm standby pairs attempt to switch simultaneously. You see:
	"Internal Error - Sybase Central"
	Workaround : Switch each warm standby pair individually. Wait until the switch active operation is complete on the first pair before you issue switch active on the next pair.
616057	The Replication Manager plug-in does not support configuration of the new block_size parameter. Configuring the parameter generates:
	"Option WITH SHUTDOWN required for block size change"
	Workaround: None.
611031	Java does not support the roman8 character set; therefore, you cannot select this character set in Replication Manager.
	Workaround: When adding a server to an environment:
	 Enter a user name and password that will let you access the environment. Do not select roman8 in the Character Set field for a server connection. Do not select "default" in the Character Set field for a server connection if the server default is roman8. Select another character set such as iso_1, utf8, or cp850, that is compatible with the
	server and Replication Manager.
606691	In a three-tier replication environment, the Replication Manager plug-in does not display the newer Replication Server parameters.
	Workaround:
	Add the replication environment in a normal two-tier Replication Manager environment.
	Add the servers for which you want to access the configuration parameters in this new environment.

Known Issues for Replication Server and Sybase IQ InfoPrimer Integration

These known issues concern the integration of Replication Server and Sybase IQ InfoPrimer.

Table 8. Replication Server and Sybase IQ InfoPrimer Integration Known Issues

CR#	Description
668152	Unexpected column mapping may occur in SQL Transformation projects.
	By default, staging table columns may not map to base table columns as expected if a base table column is:
	 An included attribute (column) in the Target tab in the Generic Transformation editor A key attribute (column)
	Has an expression specified in the Target tab of the Generic Transformation editor
	Workaround : For an update staging table, all transformations must be described in the Target tab of the Generic Transformation editor. All base table columns that are included attributes (columns) in the Target tab in the Generic Transformation editor must have expressions specified in the Target tab.
668147	Incorrect SQL may be generated for update operations.
	A SQL transformation for an update must check the bitmap column or columns of the update staging table to determine if transformations must be applied to base table columns. These transformations are specified in the Function column of the Attributes tab of the Generic Transformation editor and should be wrapped in CASE statements in the Generated Transformation. SQL statements, constant or calculated values, and functions that take more than one argument may not be properly wrapped in CASE statements. Workaround: Manually edit the Generated Transformation.
665408	Tables with Java-type or encrypted columns are not supported when no primary key is specified.
	In constructing the delete and update staging tables, Sybase IQ InfoPrimer includes only primary-key columns as published in the replication definition for the primary table. If no primary-key columns are specified, Sybase IQ InfoPrimer uses all published columns in the delete and update staging table schema, excluding LOB columns, Java columns, encrypted columns, and floating-point columns. However, Sybase IQ InfoPrimer cannot distinguish between Java columns and columns that have user-defined datatypes, nor can it determine which columns might be encrypted. Sybase IQ InfoPrimer therefore does not support primary tables containing Java-type or encrypted columns and for which you specify no primary key.

Known Issues for Replicating to Sybase IQ

Known issues concerning replication to Sybase IQ from Adaptive Server using Real-Time Loading (RTL) in Replication Server.

Table 9. Replicating to Sybase IQ Issues from Adaptive Server Using RTL

CR#	Description	
642212	rssetup.sql is missing from the scripts directory within the Sybase IQ 15.2 installation directory on Sun Solaris AMD x64 platforms.	
	Workaround : Obtain this script from another platform or contact Sybase Technical Support.	
641373	Lock table failure when replicating in Sybase IQ multiplex environment.	
	Because Replication Server connects and issues the lock table command, you must make the connection from the Replication Server to Sybase IQ in a multiplex environment to the coordinator node. Otherwise, you see:	
	E. 2010/09/14 08:51:13. ERROR #1028 DSI EXEC(104(1) pocmpx.iqdb) - dsiqmint.c(4234) Message from server: Message: -1004015, State 0, Severity 14 'SQL Anywhere Error -1004015: Permission denied: Command not allowed on Multiplex Writer servers. (saint_iqthresholdddl.cxx 14936)'.	
	Workaround: Change the interfaces file entry for Sybase IQ that the Replication Server uses, to connect to the coordinator node.	
620097	When RTL replicates data to Sybase IQ 15.x, data inserted into time and timestam columns may be corrupted. There is no warning nor error message indicating that the data corrupted.	
	Workaround: Select one of:	
	 If there is no text or image in the table, mark the table to not be compiled. RTL uses the function string to process instead of insert-location. Issue this command: alter connection to data_server.database for replicate table named table_name set dsi_compile_enable "off" This will effectively slow down the process. If there is text or image in the table, apply Sybase IQ 15.1 ESD #3 or use Sybase IQ 12.7 ESD #4 and later. 	

Replication Server

CR#	Description	
619358	Text and image column values are truncated when inserted into a Sybase IQ 15.1 database. This problem occurs in Sybase IQ 15.1 GA, ESD #1, and ESD #2.	
	Workaround: Apply Sybase IQ 15.1 ESD #3 or use Sybase IQ 12.7 ESD #4 and later.	
594620	When inserting data from Replication Server to Sybase IQ 15.0 and later using the insert-location, you may encounter the right truncation of string data error.	
	Workaround: In Sybase IQ, apply this command:	
	set option public.STRING_RTRUNCATION = "OFF"	
	By default, the STRING_RTRUNCATION option is set to on in Sybase IQ 15.0 and later.	

Known Installation Issues for Replication Server and Replication Manager

Known issues and workarounds for Replication Server and Replication Manager installation.

Table 10. Installer Issues

CR#	Description	
691905	Setting SCC RMI port screen is unavailable.	
	When you choose custom installation and then select SCC RMI Agent plug-in, the screen to set the SCC RMI port is unavailable.	
	Workaround: Manually start SCC. If there is a port conflict, manually edit the seice-config.xml in \$SYBASE/SCC-3_2/services/RMI to change RMI port and then restart SCC.	
685036	Installer generates incorrect value in a response file.	
	The response file created by the installer includes extra characters that may cause errors during installation.	
	For example:	
	#Start Sample Replication Server	
	RS_START_SAMPLE_RS=\"\",\"No\" < wrong value RS_START_SAMPLE_RS_1= RS_START_SAMPLE_RS_2=No RS_START_SAMPLE_RS_BOOLEAN_1=0 RS_START_SAMPLE_RS_BOOLEAN_2=1	
	#	
	Workaround : Edit the response file and change the response to Yes or No as appropriate.	

CR#	Description			
668368	"./setup.bin: !: not found" message appears.			
	You see an error message when you install Replication Server on a Sun Solaris machine.			
	Preparing to install/setup.bin: !: not found Extracting the installation resources from the installer archive Configuring the installer for this system's environment			
	Workaround: Ignore the message and continue with the installation.			
620755	Installation fails on Sun Solaris SPARC.			
	When the file descriptor limit is set to "unlimited," the installer fails with this message:			
	<pre>awk: insufficient memory for string storage Context is: >>></pre>			
	Workaround: Set the hard file descriptor limit to a number.			
619817	If the df command fails, the installer stops responding before the preinstallation summary pane appears.			
	Workaround : Execute strace -e statfs , statfs64 df to identify the NFS mounts that have a problem. Then execute umount -l <path></path> to unmount all trouble NFS mounts. Re-run the installer.			
619793	You cannot use the Tab and arrow keys to navigate the Choose Product Features window of the installation or uninstallation program.			
	Workaround:			
	 Uninstaller – use the mouse to click the Choose Product Features window. This sets the focus on the window and allows you to use your keyboard. Installer – use the mouse to select the features in the Choose Product Features window. 			
619784	Cannot run installer with default tar tool.			
	You see this error when the installer uses the GNU tar tool to extract files from the Replication Server suite archive:			
	The included VM could not be unarchived (TAR). Please try to download the installer again and make sure that you download using 'binary' mode. Please do not attempt to install this currently downloaded copy.			
	Workaround: Define /usr/bin/tar in \$PATH.			
619779	The installer fails to launch if you specify a path to setup.bin that contains "".			
	Workaround: Ensure that the path to setup.bin does not contain "".			

Replication Server

CR#	Description	
619771	The uninstallation program stops responding when you select Delete from the Delete User Files screen and then click Previous from the Uninstall Complete screen.	
	Workaround : Do not return to the Delete User Files screen after you have selected Delete.	
618722	Interactive installation using response file does not work.	
	When installing Replication Server in an interactive mode using a response file, the installer does not use the values stored in the file. In silent mode, the response file works as expected.	
	Workaround: None.	

Known Issues for SySAM License

Known issues and workarounds for SySAM License.

Table 11. SySAM License Issues

CR#	Description	
640129	When Replication Server requires multiple licenses but the license server has insufficient licenses, the error message displays an incorrect number for the license obtained.	
	For example, if Replication Server requires 4 licenses but has obtained only 2, the error message displays:	
	Replication Server requires 4 REP_SERVER licenses but only 4 could be obtained.	
	Workaround: Determine the number of licenses available, execute:	
	sysam status -a	

load Center to start a SySAM server, you see a message that you are using an invalid licens key, similar to: (SYBASE) Invalid license key (inconsistent authentication code) (SYBASE) License server system started on hpiabou (SYBASE) No features to serve, exiting (SYBASE) EXITING DUE TO SIGNAL 49 Exit reason 4 (lmgrd) SYBASE exited with status 49 (No features to serve (lmgrd) SYBASE daemon found no features. Please correct (lmgrd) license file and re-start daemons. (lmgrd) (lmgrd) This may be due to the fact that you are using (lmgrd) a different license file from the one you expect.	CR#	Description	
load Center to start a SySAM server, you see a message that you are using an invalid licens key, similar to: (SYBASE) Invalid license key (inconsistent authentication code) (SYBASE) License server system started on hpiabou (SYBASE) No features to serve, exiting (SYBASE) EXITING DUE TO SIGNAL 49 Exit reason 4 (lmgrd) SYBASE exited with status 49 (No features to serve (lmgrd) SYBASE daemon found no features. Please correct (lmgrd) license file and re-start daemons. (lmgrd) (lmgrd) This may be due to the fact that you are using (lmgrd) a different license file from the one you expect.	625227	7 SPDC-generated served partition-level license may not work.	
code) (SYBASE) License server system started on hpiabou (SYBASE) No features to serve, exiting (SYBASE) EXITING DUE TO SIGNAL 49 Exit reason 4 (lmgrd) SYBASE exited with status 49 (No features to serve (lmgrd) SYBASE daemon found no features. Please correct (lmgrd) license file and re-start daemons. (lmgrd) (lmgrd) This may be due to the fact that you are using (lmgrd) a different license file from the one you expect.		When you use a served partition-level license generated from the Sybase Product Download Center to start a SySAM server, you see a message that you are using an invalid license key, similar to:	
		(SYBASE) License server system started on hpiabou (SYBASE) No features to serve, exiting (SYBASE) EXITING DUE TO SIGNAL 49 Exit reason 4 (lmgrd) SYBASE exited with status 49 (No features to serve) (lmgrd) SYBASE daemon found no features. Please correct (lmgrd) license file and re-start daemons. (lmgrd) (lmgrd) This may be due to the fact that you are using (lmgrd) a different license file from the one you expect. (lmgrd) Check to make sure that: (lmgrd) /remote/cat_fc/nli/iq152.hpia/SYSAM-2_0/licenses/18965_hpiabou_ (lmgrd) is the license file you want to use.	

Known Issues for Replication Server Unsupported Operations

There are some limitations when using Replication Server unsupported operations.

These Adaptive Server operations may cause incorrect replication:

- Disabling the secondary truncation point with dbcc settrunc and then truncating the log can cause lost transactions.
- Replication Server does not support nested transactions within replicated stored procedures.

When you enable replication for a stored procedure using **sp_setrepproc** or **sp_setreplicate**, Adaptive Server always runs the stored procedure within a transaction. If you have not explicitly run the replicated stored procedure within a transaction, Adaptive Server places an implicit **begin transaction** command at the start of the procedure.

If the replicated stored procedure contains nested transaction commands such as **begin transaction**, **commit transaction**, or **rollback transaction**, you might get errors when you run the procedure. For example, a **rollback transaction** command rolls back to the start of the stored procedure, rather than to the nested **begin transaction** command, which was the intended rollback point.

 Data that is inserted into a primary table using an unlogged bulk copy operation is not replicated.

- To use the atomic method of subscription materialization:
 - The user who enters the create subscription command or the database owner must own the primary table. Alternatively, you must use user-defined function strings for select operations at the primary database.
 - If the database owner or maintenance user does not own the replicate table, use user-defined function strings for select operations at the replicate database. If the owner of the replicate table is different from the owner of the primary table, create a unique function string by using a distinct function-string class.

Known Issues with Language and Globalization

There is a limitation when using Japanese character sets in Replication Server. Neither the eucjis nor the sjis character set can be converted; this issue affects both Adaptive Server and Open Client™ and Open Server libraries.

Hankaku Katakana Conversion

In general, Japanese character sets are compatible. However, Hankaku Katakana characters, although they exist in both the eucjis and sjis character sets, cannot be converted. Converting data that contains Hankaku Katakana characters between eucjis and sjis does not work. This conversion problem occurs with character datatypes and the text datatype and is documented in the *Adaptive Server Enterprise System Administration Guide Volume 1* > Configuring Client/Server Character Set Conversions.

This conversion problem affects both Adaptive Server and the Sybase Open Client and Open Server libraries. Because Replication Server uses these libraries for all conversions, this problem also affects Replication Server.

In Replication Server, this type of failure is treated in the same way as is the case of a single character missing from the target character set. The remainder of the conversion succeeds and replication proceeds, and problem characters are replaced by question marks in the target data area. There is currently no way to escape this restriction with the Sybase connectivity libraries. However, in Adaptive Server, if you turn on trace flag number 2402, you can remove this restriction.

Using Trace Flag 2402

Generally, Sybase recommends that you set up your replication system so that Replication Server handles all character set conversions at the replicate Replication Server and prevents the replicate data server from performing any conversions. In this case, you can work around the Hankaku Katakana restriction if you set up your system so that the replicate data server performs the conversion.

This table shows how this might look if the primary data server used the sjis character set and the replicate data server used eucjis. Communication in this system is between each data server and its Replication Server and between the two Replication Servers.

Documentation Changes

Primary Replication Server	sjis
Replicate Replication Server	sjis
Primary data server	sjis
Replicate data server	eucjis

The primary and replicate Replication Servers are configured to use the same character set as the primary data server. (If only one Replication Server manages the primary and replicate data servers, configure it with the character set of the primary data server.)

In this configuration, when the replicate Replication Server connects to the replicate data server with character set sjis, the replicate data server detects this condition and converts data into its own character set, eucjis. If trace flag 2402 is activated in the replicate data server, then the conversion includes the Hankaku Katakana characters.

Setting Up Workaround

- 1. Configure your system as suggested.
- **2.** Turn on trace flag 2402 in the replicate data server (Adaptive Server) by including **-T2402** on the command line when you start Adaptive Server.

Changing Default Date Format for a Language

If you modify the common.loc file to change the default date format for a given language, make the corresponding change to the syslanguages table on all affected Adaptive Servers.

Documentation Changes

Read about updates, corrections, and clarifications to the documentation released with Replication Server 15.7.

SQL Anywhere Replication Support

Read about updates, corrections, and clarifications for SQL Anywhere documentation.

For information on SQL Anywhere support as a primary or a replicate database, see the SQL Anywhere documentation.

Replication Server Administration Guide: Volume 2

Read about updates, corrections, and clarifications for Replication Server Administration Guide: Volume 2.

Pre-15.1 Request Function Replication

The pre-15.1 version of the Request Function Replication topic has been removed from the Replication Server 15.7 Administration Guide Volume 2, as Replication Server versions earlier than 15.1 are no longer supported.

If you have versions of Replication Server earlier than 15.1 in your replication environment, see *Replication Server 15.6 Administration Guide: Volume 2>Appendix C: Pre-15.1 Request Function Replication* to replicate request functions in Replication Server.

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.

Downloading Sybase EBFs and Maintenance Reports

Get EBFs and maintenance reports from the Sybase Web site.

- 1. Point your Web browser to http://www.sybase.com/support.
- 2. From the menu bar or the slide-out menu, under **Support**, choose **EBFs/Maintenance**.
- 3. If prompted, enter your MySybase user name and password.
- **4.** (Optional) Select a filter from the **Display** drop-down list, select a time frame, and click **Go**.
- 5. 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.

6. Click the **Info** icon to display the EBF/Maintenance report, or click the product description to download the software.

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.

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