

# Release Bulletin Adaptive Server<sup>®</sup> Enterprise 15.7 SP100

Linux

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# **Product Summary**

This release bulletin provides late-breaking information about Adaptive Server<sup>®</sup> Enterprise version 15.7 SP100. A more recent version may be available on the Web.

Adaptive Server Enterprise server and client components are distributed on separate CDs or DVDs.

#### Installation Kit

The installation kit includes:

- Server media (CD or DVD)
- PC-Client media

## Adaptive Server Interoperability

Interoperability of Adaptive Server against other Sybase<sup>®</sup> products, across different platforms, versions, and client products.

Interoperability between big-endian and little-endian platforms has been verified. Windows, Linux x86-32, Linux x86-64, Sun Solaris x86-32, and Sun Solaris x86-64 are little-endian platforms. IBM AIX, Linux on Power, Sun Solaris SPARC, and HP-UX on Itanium are big-endian platforms.

**Note:** To use new features of Adaptive Server, make sure that your client supports them. See the client-specific documentation for information about the features your client supports. You may need to upgrade your client to use certain Adaptive Server features.

Client Name	Version	Supported Platform
Open Client <sup>™</sup> /Open Server <sup>™</sup>	15.7	<ul> <li>AIX 32-bit</li> <li>AIX 64-bit</li> <li>HP-UX IA 32-bit</li> <li>HP-UX IA 64-bit</li> <li>Linux x86 32-bit</li> <li>Linux x86-64 64-bit</li> <li>Linux Pseries 32-bit</li> <li>Linux Pseries 64-bit</li> <li>Solaris SPARC 32-bit</li> <li>Solaris x86 32-bit</li> <li>Solaris x86-64 64-bit</li> <li>Windows x86-64 64-bit</li> <li>Windows x86-64 64-bit</li> </ul>
	15.5	<ul> <li>AIX 32-bit</li> <li>AIX 64-bit</li> <li>HP-UX 32-bit</li> <li>HP-UX 64-bit</li> <li>HP-UX IA 32-bit</li> <li>HP-UX IA 64-bit</li> <li>Linux x86 32-bit</li> <li>Linux Pseries 32-bit</li> <li>Linux Pseries 64-bit</li> <li>Solaris SPARC 32-bit</li> <li>Solaris SPARC 64-bit</li> <li>Solaris x86-64 64-bit</li> <li>Solaris x86-64 64-bit</li> <li>Mac OS X Intel 32-bit</li> <li>Windows x86-64 64-bit</li> <li>Windows x86-64 64-bit</li> </ul>

Table 1. Supported Client Platforms for Adaptive Server

Client Name	Version	Supported Platform
Adaptive Server Enterprise Extension Module for Python	15.7	<ul> <li>AIX 64-bit</li> <li>HP-UX IA 64-bit</li> <li>Linux x86-64 64-bit</li> <li>Linux Pseries 64-bit</li> <li>Solaris SPARC 64-bit</li> <li>Solaris x86-64 64-bit</li> <li>Windows x86-64 64-bit</li> </ul>
Adaptive Server Enterprise Extension Module for PHP	15.7	<ul> <li>AIX 64-bit</li> <li>HP-UX IA 64-bit</li> <li>Linux x86-64 64-bit</li> <li>Linux Pseries 64-bit</li> <li>Solaris SPARC 64-bit</li> <li>Solaris x86-64 64-bit</li> <li>Windows x86-64 64-bit</li> </ul>
Adaptive Server Enterprise Database Driver for PERL	15.7	<ul> <li>AIX 32-bit</li> <li>HP-UX IA 32-bit</li> <li>Linux x86-64 64-bit</li> <li>Linux Pseries 32-bit</li> <li>Solaris SPARC 32-bit</li> <li>Solaris x86-64 32-bit</li> <li>Windows x86-64 64-bit</li> </ul>
$jConnect^{TM}$ for $JDBC^{TM}$	6.0.x, 7.0.x	• All
ODBC by Sybase	15.7	<ul> <li>Linux x86 32-bit</li> <li>Linux x86-64 64-bit</li> <li>AIX 64-bit</li> <li>HP-UX IA 64-bit</li> <li>Linux Pseries 64-bit</li> <li>Solaris SPARC 64-bit</li> <li>Solaris x86-64 64-bit</li> <li>Windows x86 32-bit</li> <li>Windows x86-64 64-bit</li> </ul>

Client Name	Version	Supported Platform
	15.5.x	<ul> <li>Linux x86 32-bit</li> <li>Linux x86-64 64-bit</li> <li>Mac OS X Intel 32-bit</li> <li>Windows x86 32-bit</li> <li>Windows x86-64 64-bit</li> </ul>
OLE DB by Sybase	15.7, 15.5.x	<ul><li>Windows x86 32-bit</li><li>Windows x86-64 64-bit</li></ul>
ADO.NET	2.x, 4.x	<ul><li>Windows x86 32-bit</li><li>Windows x86-64 64-bit</li></ul>
Replication Server <sup>®</sup>	15.7, 15.7.1	<ul> <li>IBM AIX POWER 64-bit</li> <li>HP-UX IA 64-bit</li> <li>Linux x86-64 64-bit</li> <li>Linux on POWER 64-bit</li> <li>Solaris SPARC 64-bit</li> <li>Solaris x86-64 64-bit</li> <li>Windows x86 32-bit</li> <li>Windows x86-64 64-bit</li> </ul>
	15.5, 15.6	<ul> <li>IBM AIX POWER 64-bit</li> <li>HP-UX IA 64-bit</li> <li>Linux x86 32-bit</li> <li>Linux x86-64 64-bit</li> <li>Linux on POWER 64-bit</li> <li>Solaris SPARC 64-bit</li> <li>Solaris x86-64 64-bit</li> <li>Windows x86 32-bit</li> <li>Windows x86-64 64-bit</li> </ul>

Client Name	Version	Supported Platform
	15.2	<ul> <li>IBM AIX POWER 32-bit</li> <li>IBM AIX POWER 64-bit</li> <li>HP-UX IA 64-bit</li> <li>Linux x86 32-bit</li> <li>Linux x86-64 64-bit</li> <li>Linux on POWER 64-bit</li> <li>Solaris SPARC 32-bit</li> <li>Solaris SPARC 64-bit</li> <li>Windows x86 32-bit</li> <li>Windows x86-64 64-bit</li> </ul>
Replication Manager plug-in	15.5, 15.6	<ul> <li>IBM AIX POWER 64-bit</li> <li>HP-UX IA 64-bit</li> <li>Linux x86 32-bit</li> <li>Linux x86-64 64-bit</li> <li>Linux on POWER 64-bit</li> <li>Solaris SPARC 64-bit</li> <li>Solaris x86-64 64-bit</li> <li>Windows x86 32-bit</li> <li>Windows x86-64 64-bit</li> </ul>
	15.2	<ul> <li>IBM AIX POWER 32-bit</li> <li>IBM AIX POWER 64-bit</li> <li>HP-UX IA 64-bit</li> <li>Linux x86 32-bit</li> <li>Linux x86-64 64-bit</li> <li>Linux on POWER 64-bit</li> <li>Solaris SPARC 32-bit</li> <li>Solaris SPARC 64-bit</li> <li>Windows x86 32-bit</li> <li>Windows x86-64 64-bit</li> </ul>

Note: Adaptive Server is supported on Sybase Control Center 3.2.8.

## **Product Compatibility**

Learn about Adaptive Server compatibility.

### Password Compatibility with Replication Server

There are some compatibility issues with replicating logins and roles between different versions of Adaptive Server.

You can replicate logins from Adaptive Server version 15.0.2 and later to earlier server versions only during the password downgrade period when **allow password downgrade** is set to 1.

You cannot replicate roles with passwords from Adaptive Server 15.7 and later to earlier server versions.

### In-Row LOB Column Replication

The semantics and interface for replicating in-row LOB columns in Adaptive Server 15.7 SP100 is the same as for LOB columns in earlier versions.

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

```
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.

# **Changes That Affect Existing Applications**

Learn about changes in Adaptive Server 15.7 SP100 that affect your existing applications.

### **Changes to Sybase Central**

The Sybase Central ASE plug-in is no longer included in the Adaptive Server installation image. Use Sybase Control Center 3.2.8 to manage your Adaptive 15.7 SP100 servers.

Sybase no longer maintains Sybase Central. However, if required, you can download Sybase Central plug-ins by going to the http://www.sybase.com/downloads site, then clicking **Maintenance Releases and Bug Fixes (EBFs)**.

### Backup Server and IBM Tivoli Storage Manager

Use a local backup server for dump and load to the IBM Tivoli Storage Manager; you cannot use a remote backup server for dumping and loading to the IBM Tivoli Storage Manager.

You can configure the IBM Tivoli Storage Manager on a different host machine than the local backup server.

### Software Developer Kit (SDK) and Open Server

For information about changes that affect Software Developer Kit (SDK), see the most recent release bulletins for these products on the Sybase Web site.

For information about new features, see the *New Features Bulletin Open Server and SDK for Windows, Linux, and UNIX.* 

### **Command Line Version of ddlgen**

The location of the command line version of **ddlgen** has been changed.

In Adaptive Server versions 15.7 ESD #1 and earlier, the command line version of **ddlgen**is in:

- UNIX \$SYBASE/ASEP/bin
- Windows SYBASES ASEP bin

In Adaptive Server version 15.7 ESD #2 and later, ddlgen is located in:

- Unix-\$SYBASE/ASE-15 0/bin
- Windows-%SYBASE%\ASE-15 0\bin

### **Compressed LOB Column Replication**

Compressed LOB column replication is supported only in Adaptive Server 15.7 ESD #1 and later, and Replication Server 15.7.1 and later. All intermediate Replication Servers in the route from Adaptive Server must also be version 15.7.1 and later.

### **Changed Functionality**

Learn about late-breaking functionality changes in Adaptive Server version 15.7 SP100.

### XML Services and External Entity Reference

As of release 15.7 SP100, you must use **sp\_configure 'enable xml', 2** to enable an external entity reference in XML documents.

In previous releases, executing **sp\_configure 'enable xml', 1** enabled XML services with an external entity reference.

**sp\_configure 'enable xml', 1** enables XML services but not with external entity reference in XML documents.

### Support for db2 Server Class

Adaptive Server does not support server class db2.

To use db2, migrate your db2 server class to the direct\_connect class.

# Installation and Configuration

Get last-minute information about installation, configuration, and upgrading and downgrading that was omitted from your installation guide, or that needs special emphasis.

### **Special Installation Instructions**

Learn about special installation instructions for this version of Adaptive Server.

#### OCS Connectivity Driver Files Not Installed

When installing Adaptive Server, if the destination directory has an existing OCS directory that is a later version than the Adaptive Server version being installed, the Adaptive Server installer does not install another OCS directory, and the driver files required by Adaptive Server will not be available. The workaround is to install the product with the oldest OCS version first.

#### Installing the Adaptive Server Plug-in

Before installing the ASE plug-in on top of Adaptive Server, close all Java applications. If you do not, the installation will fail. The entry in the log file states that a problem occurred while attempting to overwrite a JRE 7 file because the file is open.

Install Adaptive Server and all associated plug-ins in the same location.

### Amendments to the Response File for Silent Installation

For Adaptive Server 15.7 ESD#2 and later, the installer requires non-NULL passwords that are at least six characters long for the Adaptive Server sa login, and the Sybase Control Center logins uafadmin and sccadmin.

To accommodate this, the response file should include these additional rows:

```
SY_CFG_ASE_PASSWORD=<ASE sa password>
```

```
CONFIG_SCC_CSI_SCCADMIN_PWD=<Sybase Control Center admin password>
CONFIG_SCC_CSI_UAFADMIN_PWD=<Sybase Control Center agent admin
password>
```

The passwords for sccadmin and uafadmin logins need not be the same as the password for sa login.

```
Installing Enterprise Connect Data Access (ECDA) or MainframeConnect
DirectConnect for z/OS with Other Sybase Software
Sybase strongly recommends you install the ECDA DirectConnect option or
MainframeConnect<sup>™</sup> DirectConnect<sup>™</sup> for z/OS, including DirectConnect Manager, into its
own directory.
```

# **Special Configuration Instructions**

Special configuration instructions for this version of Adaptive Server.

### **Configure Adaptive Server for Clients Using EPEP Algorithm**

You can use **sp\_configure** to configure an Adaptive Server to require the Extended Plus Encrypted Password (EPEP) login protocol.

The **sp\_configure** parameter **net password encryption reqd** supports a value of 3, which indicates the server should only allow incoming clients that are using EPEP login protocol. The values 0, 1, and 2 also allow EPEP login protocol to be used when a client that supports the login protocol attempts to use it with an Adaptive Server that implements the EPEP login protocol.

Setting the value to 2 or 3 increases network memory to support the maximum configured connections using this protocol. The **additional network memory** configuration parameter dynamically adds more memory to the network memory pool used by EPEP. When the value is set to 3, the KPP Handler goes into sleep status, because there is no need to provide new RSA key pair for every connection. You can use the **sp\_who** command to check the KPP Handler status.

**Note:** Adaptive Server supports two versions of the login protocol using RSA asymmetric encryption. See "Securing login passwords on the network" in the *Security Administration Guide*.

## **Special Upgrade and Downgrade Instructions**

Get last-minute instructions for upgrading, downgrading, and migrating different versions of Adaptive Server.

### TIPSA Flag 0x4000 Error After Upgrade

The flag 0x4000 in TIPSA is set in Adaptive Server versions earlier than 15.7. This flag can cause unexpected errors after an upgrade.

The TIPSA 0x4000 flag is used by the LOB compression feature in Adaptive Server 15.7. After an upgrade to Adaptive Server 15.7 and later, an LOB column for which this flag was set in earlier versions is mistakenly treated as a compressed LOB column, which results in unexpected errors. To correct the flag issue after an upgrading to Adaptive Server 15.7 and later, use:

dbcc rebuild\_text()

### **Special Downgrade Instructions**

Learn about special downgrading instructions for this version of Adaptive Server.

# Use sp\_downgrade\_esd to Downgrade Fom Adaptive Server 15.7 SP100 to Earlier Versions

If you are downgrading from Adaptive Server 15.7 SP100 to 15.7 ESD #4, 15.7 ESD #3, 15.7 ESD #2, 15.7 ESD #1 and 15.7, use **sp\_downgrade\_esd**(not **sp\_downgrade**) to downgrade both Adaptive Server and any databases you may have upgraded to 15.7 SP100. See *Downgrading to an Earlier Version of Adaptive Server 15.7* in the installation guide for your platform.

### Loading Database Dumps into Earlier Versions

You cannot dump a database from a 15.7 SP100 version of Adaptive Server and load it into a database on a server running a release earlier than 15.7 SP100.

## **Known Installation Issues for Adaptive Server**

Learn about known installer issues and workarounds. Known issues are listed in descending order of Change Request (CR) numbers.

CR #	Description
739079	Update of Adaptive Server returns "Arithmetic overflow occurred" error for database size check.
	If any system database is greater than 2GB, updating an Adaptive Server with the Adaptive Server installer, or updatease (on UNIX) or updatease.exe (on Windows) utility, will fail with the error "Arithmetic overflow occurred."
	<b>Workaround</b> : To update an Adaptive Server, manually run the <b>updatease</b> utility, or for Windows the <b>updatease.exe</b> utility with the $-k$ argument. The $-k$ option tells the utility to skip the database size check.
	The utilities are located here:
	<ul> <li>UNIX - \$SYBASE/ASE-15_0/bin/updatease</li> <li>Windows - \$SYBASE\$\ASE-15_0\bin\updatease.exe</li> </ul>

CR #	Description		
736300	Replication Manager Plug-in (RMP) cannot be loaded after Adaptive Server is installed upon RMP		
	Installing Adaptive Server and Sybase Central into the same directory as Replication Server and Replication Manager Plug-in can cause the Replication Manager Plug-in to not load properly.		
	<b>Workaround</b> : Unset the SYBASE_JRE7 environment variable that is set in the SYBASE { $csh   env   sh$ } file before starting Sybase Central.		
	Rather than unsetting the SYBASE_JRE7 environment variable in the SYBASE file by commenting out the line, unset it on the command line in the same window that is used to start Sybase Central. This prevents other processes from being affected. Regardless of platform, do the following:		
	<ol> <li>Open a new window.</li> <li>Source the SYBASE file.</li> <li>Unset the SYBASE_JRE7 environment variable. See commands below.</li> <li>Execute the runSybaseCentral script.</li> </ol>		
	<ul> <li>for C-Shell (SYBASE.csh): unsetenv SYBASE_JRE7</li> <li>for Bourne Shell (SYBASE.sh): SYBASE_JRE7=export SYBASE_JRE7</li> <li>for Bash(?) Shell (SYBASE.env): SYBASE_JRE7=</li> </ul>		
692496	Configuring tempdb device for HA		
	When installing an Adaptive Server to be used in an HA configuration, the <b>sp_companion</b> stored procedure <b>configure</b> command may fail due to duplicate device names for the tempdbdev logical device.		
	<b>Workaround</b> : Do not specify the "Tempdb Device" (set the value of this field to blank) when configuring the secondary server during ASE installation.		
	• If additional tempdb space is required on either server, log in to this server after installation is complete and use the <b>alter database</b> command to increase the size of tempdb.		
	• If additional disk space is required to allocate the tempdb database, use the <b>disk init</b> command to create a new database device for tempdb.		
	• If a new device is created, the logical device name should be unique between the two servers.		

Description
Cannot start Sybase Central for Sybase IQ 15.4 after uninstalling Adaptive Server 15.7.
If you install Adaptive Server Enterprise 15.7 and Sybase IQ 15.4 in the same directory, then uninstall Adaptive Server, you cannot then start Sybase Central for IQ. This problem occurs because shared files are removed by the Adaptive Server uninstaller.
<b>Workaround</b> : If the version of Sybase Central installed with IQ 15.4 cannot be started after you uninstall Adaptive Server 15.7:
<ol> <li>Re-create the \$SYBASE/shared/JavaHelp-2_0 if necessary.</li> <li>Copy \$SYBASE/IQ-15_4/java/jh.jar to the \$SYBASE/shared/ JavaHelp-2_0 directory.</li> <li>Reload or register the IQ plug-in in Sybase Central.</li> </ol>
Cannot use DBISQL from Sybase Central after installing RMP on top of Adaptive Server 15.7.
Workaround: To enable DBISQL to launch, add the following into scjview.sh java arguments.
-Disql.repositoryDirectory="\$SYBROOT/DBISQL/bin"
Installing Adaptive Server 15.7 on top of Replication Agent <sup>TM</sup> 15.2 causes SySAM errors.
<b>Workaround</b> : Before installing Adaptive Server 15.7, modify the SySAM file permissions to include write permissions.
Cannot Start Adaptive Server Interactive SQL from Sybase Central.
If you install Replication Manager into the same directory as Adaptive Server, the Interactive SQL cannot start from Sybase Central, and issues: Interactive SQL could not load the "SQL Anywhare plugin", its "saip11.jar" file has been removed or has been deleted. You will not be able to connect to the databases handled by that plugin.
Workaround:
<ul> <li>Before installing Replication Manager, rename shared/sybcentral600/ scjview.sh toshared/sybcentral600/scjview.sh.save.</li> <li>After installing Replication Manager, rename shared/sybcentral600/ scjview.sh.save back toshared/sybcentral600/ scjview.sh.</li> </ul>

<ul> <li>IBM logical partitions.</li> <li>The machine ID for Linux PowerPCs on IBM logical partitions is the virtual machine! MAC address, which means that SySAM cannot identify a unique machine ID for Linux IBM logical partitions.</li> <li>Workaround: None. You cannot share a machine license between different operating systems.</li> <li>589483</li> <li>If the df command stops responding, the installation stops responding before the p installation summary pane appears.</li> <li>Workaround: <ol> <li>Identify the network file system (NFS) mounts that may have problems: strace -e statfs, statfs64 df</li> <li>Use the umount command to unmount an identified NFS mount: umount -1 <path></path></li> </ol> </li> <li>3. Repeat the above steps until there are no more NFS mounts that have stopped responding.</li> <li>The umount command failed to unmount the offending NFS, you may need to fix the probl at the source or restart the machine.</li> <li>588793</li> <li>Installing Adaptive Server 15.5 and later versions that use Install Anywhere on old directories that have been installed with InstallShield Multiplatform can lead to incompatibility issues.</li> </ul>	CR #	Description	
<ul> <li>MAC address, which means that SySAM cannot identify a unique machine ID for Linux IBM logical partitions.</li> <li>Workaround: None. You cannot share a machine license between different operating systems.</li> <li>589483 If the df command stops responding, the installation stops responding before the p installation summary pane appears.</li> <li>Workaround: <ol> <li>Identify the network file system (NFS) mounts that may have problems: strace -e statfs, statfs64 df</li> <li>Use the umount command to unmount an identified NFS mount: umount -l <path></path></li> <li>Repeat the above steps until there are no more NFS mounts that have stopped responding.</li> <li>The umount command requires root permission.</li> <li>If umount command failed to unmount the offending NFS, you may need to fix the problat the source or restart the machine.</li> </ol> </li> <li>588793 Installing Adaptive Server 15.5 and later versions that use Install Anywhere on old directories that have been installed with InstallShield Multiplatform can lead to incompatibility issues.</li> </ul>	625837	Cannot share machine-level license by different Linux PowerPC operating systems on IBM logical partitions.	
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<ol> <li>Identify the network file system (NFS) mounts that may have problems: strace -e statfs, statfs64 df</li> <li>Use the umount command to unmount an identified NFS mount: umount -1 <path></path></li> <li>Repeat the above steps until there are no more NFS mounts that have stopped responding.</li> <li>The umount command requires root permission.</li> <li>If umount command failed to unmount the offending NFS, you may need to fix the probl at the source or restart the machine.</li> <li>588793 Installing Adaptive Server 15.5 and later versions that use Install Anywhere on old directories that have been installed with InstallShield Multiplatform can lead to incompatibility issues.</li> </ol>	589483	If the df command stops responding, the installation stops responding before the pre- installation summary pane appears.	
<ul> <li>strace -e statfs, statfs64 df</li> <li>2. Use the umount command to unmount an identified NFS mount: umount -1 <path></path></li> <li>3. Repeat the above steps until there are no more NFS mounts that have stopped responding.</li> <li>The umount command requires root permission.</li> <li>If umount command failed to unmount the offending NFS, you may need to fix the probl at the source or restart the machine.</li> <li>588793 Installing Adaptive Server 15.5 and later versions that use Install Anywhere on old directories that have been installed with InstallShield Multiplatform can lead to incompatibility issues.</li> </ul>		Workaround:	
<ul> <li>umount -1 <path></path></li> <li>3. Repeat the above steps until there are no more NFS mounts that have stopped responding.</li> <li>The umount command requires root permission.</li> <li>If umount command failed to unmount the offending NFS, you may need to fix the problem at the source or restart the machine.</li> <li>588793 Installing Adaptive Server 15.5 and later versions that use Install Anywhere on old directories that have been installed with InstallShield Multiplatform can lead to incompatibility issues.</li> </ul>			
<ul> <li>responding.</li> <li>The umount command requires root permission.</li> <li>If umount command failed to unmount the offending NFS, you may need to fix the probl at the source or restart the machine.</li> <li>588793 Installing Adaptive Server 15.5 and later versions that use Install Anywhere on old directories that have been installed with InstallShield Multiplatform can lead to incompatibility issues.</li> </ul>			
If umount command failed to unmount the offending NFS, you may need to fix the problat the source or restart the machine.         588793       Installing Adaptive Server 15.5 and later versions that use Install Anywhere on old directories that have been installed with InstallShield Multiplatform can lead to incompatibility issues.			
at the source or restart the machine.         588793       Installing Adaptive Server 15.5 and later versions that use Install Anywhere on old directories that have been installed with InstallShield Multiplatform can lead to incompatibility issues.		The <b>umount</b> command requires <b>root</b> permission.	
directories that have been installed with InstallShield Multiplatform can lead to incompatibility issues.		If <b>umount</b> command failed to unmount the offending NFS, you may need to fix the problem at the source or restart the machine.	
These issues occur while using products installed with different installer technologies:	588793		
		These issues occur while using products installed with different installer technologies:	
		product installed using the other installer, the same files included in both installers are	
		• If you run either the Install Anywhere or InstallShield Multiplatform <b>uninstaller</b> , the same files installed by both installers are removed without any indicating messages.	
<b>Workaround</b> : Do not install products that use Install Anywhere and products that use InstallShield Multiplatform in the same directory.		<b>Workaround</b> : Do not install products that use Install Anywhere and products that use InstallShield Multiplatform in the same directory.	
583979 The installer does not validate feature names specified in the response file when y install in silent mode.	583979	The installer does not validate feature names specified in the response file when you install in silent mode.	
Workaround: Ensure that the specified feature names are correct.		Workaround: Ensure that the specified feature names are correct.	

# **Known Issues for Adaptive Server**

Learn about known issues and apply workarounds for Adaptive Server. Known issues are listed in descending order of Change Request (CR) numbers.

Sybase does not include system problem reports (SPRs) and closed problem reports (CPRs) with Adaptive Server Enterprise. You can search the Web site for solved cases. Click **Support** > Services > Solved Cases.

CR #	Description
739773	The load database with listonly=load_sql command may generate load commands which, if executed, may require manually altering the target database for the load to succeed.
	This issue can occur in cases where an <b>alter database off</b> command was run on the source database.
	Workaround: Manually alter the target database.
739080	The show_condensed_text function returns a NULL value for queries in the statement cache when the enable literal autoparam configuration parameter is enabled.
	Workaround: Do not use the show_condensed_text function when enable literal autoparam is enabled.
738744	A cumulative dump cannot be used as a meta-data file for the sybdumptran utility.
	Workaround: None.
738675	load database with verify does not support automatic physical database rearrangement.
	If <b>load database with verify</b> is executed, the automatic remapping between the source and target database to ensure that the data segment is on data devices and the log segment is on log devices is not performed. This may result in the behaviour of releases prior to 15.7 SP100, which is the data segment may be mapped to log devices and the log segment may be mapped to data devices in the target database.
	<b>Workaround:</b> Sybase recommends that you use the <b>dump database with verify</b> command to verify the database.

CR #	Description	
696072	In some Cluster Edition configurations, Adaptive Server 624 and 69x errors may occur during database replication of a database or replication of tables within a database.	
	In active-active or active-passive cluster configurations, you can configure RepAgent to run on only one node of the cluster. In rare circumstances, when RepAgent reads an older image of database log pages that is on disk while the latest image is on another node, you may see Adaptive Server 624 and 69x errors.	
	Workaround: Sybase recommends that for:	
	<ul> <li>Active-passive configuration – run RepAgent on the active node to ensure that data and log pages are on the same node as RepAgent.</li> <li>Active-active configuration – start Adaptive Server with the 16872 trace flag to prevent log page corruption and 69x errors. However, using this flag degrades the server performance.</li> </ul>	
695625	Confidentiality service causes error.	
	This message is reported by Open Client applications connecting to Adaptive Server Enterprise:	
	ct_send(): network packet layer: internal Client Library error: State error: trying to write when connection is expecting a read.	
	This message is reported in some cases when Kerberos message confidentiality service is turned on.	
	Workaround: Reconnect to the server with confidentiality service turned off.	
684556	The select for update semantics introduced in version 15.7 do not support datapages- locked tables.	
	select for update support exists only for datarows-locked pages.	
639813	An error is raised when renaming a read only database	
	Error (3906) can occur when executing <b>sp_renamedb</b> on a database that has 'read only' status. Also, when attempting to turn off the 'read only' status on a database that you have attempted to rename, error 3501 is raised.	
	<b>Workaround:</b> Execute <b>sp_renamedb</b> stored procedure from master database context as follows:	
	use master	
	go sp_renamedb <dbname>, <new_dbname> go</new_dbname></dbname>	

CR #	Description		
627114	On Linux RHEL 5, not all shared memory is released when hugepages are in use.		
	When Adaptive Server is configured with hugepages on the Linux platform, not all of the shared memory is released when shutting down Adaptive Server. See the Linux bug description here: https://bugzilla.redhat.com/show_bug.cgi?id=593131.		
	Workaround: Install the Linux kernel patch for this bug to resolve the memory leak.		
595923	There are two known issues with transfer table:		
	<ul> <li>When creating a unique index that is using the ignore_dup_key property, importing a row with a key that is already present in the table leads to an error, and the import is aborted. This differs from when a duplicate key is inserted with bcp or with a regular insert statement, since in those cases, the row is discarded, and the transaction continues.</li> <li>When an insert trigger exists, the trigger is not fired when data is inserted through</li> </ul>		
	transfer tablefrom.		
	Workaround: None.		
589269	Adaptive Server may stop responding during start-up.		
	If you are using the in-memory database or relaxed-durability database feature, Adaptive Server may run into a timeslice error during start-up if it cannot access the license server as it starts.		
	Workaround: Make sure Adaptive Server can access the license server.		
578921	On Linux SUSE Enterprise 11 systems, configuring an Adaptive Server fails with SEGV while retrieving user ID and password from Network Information Service (NIS).		
	While creating the PCA-JVM, Adaptive Server can retrieve ID and password information using Network Security Services (NSS), but not NIS.		
	Workaround: Use either of these:		
	• In /etc/nssswitch.conf, specify the retrieval order to be either "compat" or "files NIS."		
	<ul> <li>Add the ID and password for the user starting the Adaptive Server to the local files / etc/passwd and /etc/shadow. This ensures that the ID and password information is available locally, and that contacting NIS is unnecessary. If you cannot add the user information to local files, ensure that the Name Service Cache Daemon (NSCD) is running on the server host machine. The NSCD maintains a cache of the ID and password information that is consulted prior to dispatching a request to the NIS for this information.</li> </ul>		

CR #	Description
576652	SySAM2 enabled products incorrectly determine the number of cores and chips on quad-core processors.
	This may be as a result of your Adaptive Server small business edition or chip license not being activated and having gone into a grace period.
	Workaround: Remove this line from your SySAM properties file, if it exists: cpuinfo.mechanism=NOAPICCHECK
	If the problem still remains, set the following environment variable, then run the products: (sh) export SYBASE_SAM_CPUINFO=CPUID (csh) setenv SYBASE_SAM_CPUINFO CPUID
	If the problem still remains, please contact Sybase Technical Support.
558020	dsedit fails with translation table syntax errors.
	When you try to enter a new server entry or a port number, the <b>dsedit</b> utility fails and displays parsing errors similar to:
	<pre>Warning: translation table syntax error: Unknown keysym name: osfActivate. Warning: found while parsing ':<key>osfActivate: ManagerParentActivate()'. Warning: String to TranslationTable conversion encountered errors. Warning: translation table syntax error: Unknown keysym name: osfBeginLine. Warning: found while parsing ':<key>osfBeginLine: ManagerGadgetTraverseHome()'</key></key></pre>
	These errors indicate that the X-server program that renders graphics is not cached or set up as the default for the environment.
	Workaround: Set the environment variable XKEYSYMDB:
	<pre>% setenv XKEYSYMDB "/usr/share/X11/XKeysymDB"</pre>

# **Documentation Updates**

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

### **Enabling Custom Password Checks**

This information supplements the "Enabling Custom Password Checks" documentation in the Security Administration Guide.

In Adaptive Server 15.7 SP100 and later, **sp\_extrapwdchecks** allows NULL values for **caller\_password** and **loginame** parameters.

The caller\_password parameter is NULL when:

- The system security officer creates a new login account using create login command.
- The system security officer modifies the login account's password using **alter login** ... **modify password** command.

The loginame parameter is NULL when:

• The system security officer creates a new login account using the create login command.

To implement password history checks, create a new user table to store password histories:

```
create table pwdhistory
(
    name varchar(30)not null, -- Login name.
    password varbinary(30)not null, -- old password.
    pwdate datetime not null, -- datetime changed.
    changedby varchar(30)not null -- Who changed.
)
go
```

Create a new stored procedure **master.dbo.sp\_extrapwdchecks** which saves previously used passwords in an encrypted form in the pwdhistory table and disallows reuse of used passwords. The **sp\_extrapwdchecks** user-defined stored procedure is called by Adaptive Server automatically when either the **create login** or **alter login** ... **modify password** commands are executed. The following is an example of the implementation of

#### sp\_extrapwdchecks:

```
create proc sp_extrapwdchecks
(
@caller_password varchar(30) = NULL, -- the current password of caller
@new_password varchar(30), -- the new password of the target acct
@loginame varchar(30) = NULL -- user to change password on
)
as
begin
declare @current_time datetime,
    @encrypted_old_pwd varbinary(30),
    @encrypted_new_pwd varbinary(30),
    @salt varchar(8),
    @changedby varchar(30),
    @cutoffdate datetime
```

#### **Documentation Updates**

```
select @changedby = suser name()
select @salt = null
-- NOTE : caller password and/or loginame arguments can be null.
-- In these cases, password history checks should be skipped.
-- @loginame is null when SSO creates a new login account
-- using "create login" command.
 -- @caller password is null when
 -- 1. SSO creates a new login account using
-- "create login" command.
 -- 2. SSO modifies the login account's password using
-- "alter login ... modify password" command.
-- Business logic for custom password checks should be
 -- implemented here.
 -- If there is no need to maintain password history, return
-- from here.
if (@loginame is NULL)
begin
     return 0
end
-- Change this line according to the needs of your installation.
-- This checks below keep history of 12 months only.
select @current time = getdate(),@cutoffdate = dateadd
    (month, -12, getdate())
delete master..pwdhistory
where name = @loginame
and pwdate < @cutoffdate
select @salt = substring(password, 1, 8) from master..pwdhistory
     where pwdate =
         (select max(pwdate) from master..pwdhistory where
         name=@loginame) and name=@loginame
if @salt is null
begin
     select @salt = substring(hash
         (password random(8), 'shal'), 1, 8)
 end
 select @encrypted new pwd = @salt + hash
         (@salt + @new password, 'sha1')
if not exists ( select 1 from master..pwdhistory
    where name = @loginame and password = @encrypted_new_pwd )
```

```
begin
        -- new password has not been used before
        if (@loginame != @changedby)
        begin
            return 0
        end
        -- Save old password
        select @encrypted old pwd = @salt + hash
            (@salt + @caller password, 'sha1')
        insert master..pwdhistory
            select @loginame,
                @encrypted old pwd,@current time, @changedby
        return (0)
    end
    else
    begin
           raiserror 22001 --user defined error message
    end
end
qo
```

### isql -K keytab\_file Parameter

The documentation for isql incorrectly describes the -K keytab\_file parameter.

The description in the Utility Guide for the isql -K keytab\_file parameter currently reads:

#### -K keytab\_file

specifies the path to the keytab file used for authentication in DCE. keytab\_file specifies a DCE keytab that contains the security key for the user name you specify in -U. Create keytab files using the DCE decep utility. See your DCE documentation. If you do not specify -K, the isql user must be logged in to DCE with the same user name specified in -U.

The correct description for the **-K keytab\_file** parameter is:

(used only with Kerberos security) specifies a Kerberos keytab file that contains the security key for the user name specified with the -U option. To create a keytab, see your Kerberos documentation. If you do not specify the -K option, the isql user must be logged in to Kerberos with the same user name as specified with the -U option.

# Job Scheduler Parameter job scheduler interval

The configuration parameter **job scheduler interval** incorrectly describes the value of units as minutes.

The documentation provides the value of units for the configuration parameter as follows:

```
job scheduler interval Default value : 1 (in minutes)
```

Range of values : 1 - 600

The correct unit value is seconds.

## Job Scheduler Command sp\_sjobdrop

The **sp\_sjobdrop** name parameter incorrectly states that the name of a job or a schedule can be used for the name argument. You must use the ID of scheduled job, job, or schedule for the name argument.

## **Security Built-in Function Permissions**

The documentation regarding permissions for several built-in functions is incomplete.

Functions	Permissions
asehostname	With granular permissions enabled, you must be granted <b>select</b> on <b>asehostname</b> or have manage server permission to execute <b>asehostname</b> . With granular permissions disabled, you must be granted <b>select</b> on <b>asehostname</b> or be a user with sa_role to execute <b>asehostname</b> .
migrate_instance_id	Any user can execute migrate_instance_id.
show_cached_text	With granular permissions enabled, you must be a user with mon_role, or have monitor qp performance permission to execute <b>show_cached_text</b> . With granular permissions disabled, you must be a user with mon_role or sa_role to execute <b>show_cached_text</b> .

Table 2.

Functions	Permissions
show_cached_text_long	With granular permissions enabled, you must be a user with mon_role, or have monitor qp performance permission to execute <b>show_cached_text_long</b> . With granular permissions disabled, you must be a user with
	mon_role or sa_role to execute <b>show_cached_text_long</b> .
show_plan	With granular permissions enabled, you must be a user with monitor qp performance permission to execute <b>show_plan</b> .
	With granular permissions disabled, you must be a user with sa_role to execute <b>show_plan</b> .
user_id	Any user can execute <b>user_id</b> .
workload_metric	With granular permissions enabled, you must have manage cluster permission or be a user with ha_role to execute workload_metric.
	With granular permissions disabled, you must be a user with sa_role or ha_role to execute <b>workload_metric</b> .

# Shareable Temporary Tables

The Transact-SQL Users Guide incorrectly states that a shared temporary table exists until the current session ends, or until its owner drops it using **drop table**.

While hash temporary tables exist until the current session or scope is exited, shared temporary tables exist until they are explicitly dropped. You can find the incorrect information in *Creating Databases and Tables > Creating Tables > Using temporary tables*.

# **Hash-Based Update Statistics**

The New Features Guide for 15.7 ESD #2 describes the **update statistics** configuration parameter **hashing**, which enables Adaptive Server to gather hash-based statistics but an example showing that three parameters are required for the option is missing.

This is an example of using update statistics using the hashing option:

```
sp configure 'update statistics hashing', 0, 'on'
```

# Additional Information for Windows Failover in a High Availability System

This information supplements the Adaptive Server 15.7 document Using Failover in a High Availability System > Configuring Adaptive Server for Failover on Windows.

Two Windows systems are required. Microsoft Cluster Server must be installed on both systems and they must be configured together as a Microsoft cluster. Sybase recommends that you set up and test failover of a simple application such as Notepad on the cluster to ensure that the basic failover capabilities of the cluster are working properly. All configuration must be performed from an account that has Domain Administrator privilege.

### **Configure Adaptive Server for Failover on Windows**

Start the failover cluster manager and use the syconfig utility to configure the Adaptive Server.

### Prerequisites

- 1. Download and install Microsoft .NET runtime package V4.0
- 2. The .NET runtime includes a utility called installutil.exe. Locate this and copy it to %SYBASE%\ASE-15 0\install
- **3.** Run the command **sybcpnin –s** on each cluster node. This installs the "Sybase Companion Server" resource type and Sybase Cluster Administrator extensions.

### Task

1. Select Start > Administrative tools, then right click Failover Cluster Manager and choose Run as administrator.

Each instance of an Adaptive Server companion server primary/secondary pair requires a dedicated shared disk that can be failed over between the cluster nodes (you can configure additional shared devices later). The shared disk must be online to the cluster node on which you are configuring Adaptive Server. You might want to create a temporary group and assign the shared disk to this group. When the Adaptive Server companion server setup is complete, it automatically creates its own group, and you can then move the shared disk can then to the new Adaptive Server group.

- 2. When syconfig prompts you to create the various devices, alter these default values:
  - a) Increase the sybsystemprocs size by 30MB over the default value
  - b) Alter all the path names so that they are stored on the shared-cluster disk
  - c) Alter the name of the tempdb device to be unique on each Adaptive Server instance in the cluster

3. Test that the two Adaptive Servers can execute remote commands:

Assuming our servers are called ASE1 and ASE2:

- In ASE1 isql connection, enter: ASE2...sp\_who;
- In ASE2 isql connection, enter: **ASE1...sp\_who**;

Verify that these commands both succeed. If they do not, verify:

- That the Windows global variables such as %SYBASE%, and so on are set.
- The %SYBASE%\%SYBASE ASE%\ini\sql.ini file entries
- You can use isql to connect to the ASE1 from m1 and m2. If connecting from m1 fails, then there is a problem with the m1. If connecting from m2 fails, and you find that there is no problem with the m2 environment, try connecting from a third machine. If the connection fails from a third machine, check the firewall settings, as it may prevent you from logging in from outside of m1.

**Note:** You might want to make backup copies of your master, sybsystemprocs and other devices at this time so you can easily get back to this point.

- 4. Configure the asymmetric failover companionship.
  - a) On ASE2 enter:

```
sp_companion ASE1, "configure" , null, sa, <sa pswd>, sa, <sa
pswd>
```

As part of the companion configuration, a new group called ASE1\_GRP is created. The group contains the Adaptive Server service name which is the same as the server name (ASE1). ASE1 becomes the primary server and ASE2 the secondary.

- b) Move the shared disk containing ASE1's master and other devices into the new group ASE1\_GRP.
- c) Inside the new group, ASE1\_GRP, right-click the service name ASE1, select Properties, and choose the Dependency tab. Add a new dependency of ASE1 on the shared disk that has just been moved. This ensures that the cluster brings the disk online before attempting to start Adaptive Server.
- d) Right-click on **ASE1\_GRP** and choose **Properties**. On the General tab, in the Preferred owner subwindow, choose **m1**. For failback m1 must be the location of ASE1.
- e) To set values based on tasks, click the **Maximum failures in the specified period** tab. For example (these values are for reference only; determine the actual values based on your specific needs): 50-100 for test, 10-20 for production.
- f) If you need to perform a failback, choose **Allow failback**; otherwise, choose **Prevent failback**.

To configure symmetric failover companionship, perform the same set of above steps on server ASE1, substituting ASE2 for ASE1 in the various commands.

- 5. To test the asymmetric HA companionship failover and failback:
  - a) On ASE1, issue shutdown with nowait

- b) On m1 taskmgr, issue kill ASE1 process
- c) On m1 service, issuestop ASE1
- d) On the Failover Cluster Manager, ASE1\_GRP ASE1 offline
- e) On the Failover Cluster Manager, ASE1\_GRP ASE1 simulating failure on the ASE
- f) On the Failover Cluster Manager, ASE1\_GRP disk1 simulating failure on the disk
- g) Shut down machine m1
- h) Turn off the power to machine m1

The above actions should result in a ASE1 shared disk failover to ASE2. On ASE2 will show the ASE1 databases and devices. ASE1 client connections with –Q failover property should also failover to ASE2.

**Note:** Asymmetrically shutting down of ASE2 does not cause a failover because the group ASE2 has not been created in this case.

- **6.** HA test for a completed failback:
  - a) On ASE2, enter:

```
sp_companion ASE1 , "prepare_failback"
```

- b) On m1 service start ASE1
- c) On the Failover Cluster Manager: ASE1\_GRP | ASE1: bring online
- d) Turn on the power to machine m1.

To test the symmetric companionship, you can perform these steps on both machines, or only on ASE1.

Also see "CR 692496, Configuring tempdb device for HA" in the Known Installation Issues for Adaptive Server.

The following syconfig utility fields must be set correctly.

- Connection protocol TCP
- Connection value-hostname,portnumber The host and port number must separated by a comma.
- If syconfig is not started in the ASE configuration file location, the parameter field must specify -c <ase>.cfg, where <ase>.cfg is the full path of the file.

### Setting maximum failed logins

The documentation provides incorrect examples for the maximum number of failed logins.

• Use this example:

```
create role intern_role with passwd "temp244", max failed_logins
20
```

#### Disregard this example:

```
create role intern_role with passwd "temp244", maximum failed logins 20
```

## Changing the maximum failed logins for specific roles

The documentation provides incorrect examples for removing overrides or changing the maximum number of failed logins for a role.

The correct example for removing the overrides for the maximum number of failed logins for all roles is:

alter role "all overrides" set max failed\_logins -1

The correct example for changing the maximum failed logins allowed for "physician\_role" to 5 is:

alter role physician\_role set max failed\_logins 5

## Changing the maximum failed logins for specific logins

The documentation provides an incorrect example for changing the maximium number of failed logins for a login.

The correct example is:

alter login joe modify max failed attempts 40

### Values for lock timeout pipe active

The default value and the range of values for **lock timeout pipe active**, as described in the System Administration Guide are incorrect.

The correct values are:

Default value 0 (off) Range of values 1 (on), 0 (off)

### dbcc page Parameter logical

The documentation for the dbcc page command incorrectly describes the logical parameter.

The correct description for the logical parameter is:

If cache = 1, then value of this parameter is considered as 1 and value passed for **pageno** parameter is treated as logical page number.

If cache = 0, then value of this parameter is taken as the virtual device number and value passed for **pageno** parameter will be treated as virtual page number. The virtual device number can be obtained from the master..sysusages table.

## Behavior of Concurrent DDLs and reorg defrag

This information supplements the Adaptive Server 15.7 SP100 documentation for Incremental Reorganization and describes how concurrent DDLs behave when **reorg defrag** is in progress and how **reorg defrag** behaves during concurrent DDLs.

- When **reorg defrag** is in progress on a table, invocation of any schema changing utility or data reorganization utility fails with error 11051. In rare cases of race condition between **reorg defrag** and the other utility, one of them might have to wait for the other to complete.
- When **reorg defrag** utility is in progress on a table, another invocation of **reorg defrag** on the same table will fail with error 8233.
- When a schema changing utility or data reorganization utility is in progress, invocation of **reorg defrag** would wait for the utility to complete before proceeding to defragment the data.

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

# **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

# **Accessibility Features**

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

Documentation for this product 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.

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.