Release Bulletin
Appeon® 5.1 for PowerBuilder®
for Sun Solaris

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2. Product summary

Enclosed is Appeon® 5.1 for PowerBuilder® for Sun Solaris, which is compatible with Sybase PowerBuilder and Sybase EAServer for the Sun Solaris platform. Please refer to the *Appeon Installation Guide* for detailed system requirements.

2.1 Version components

Appeon 5.1 for PowerBuilder includes the following components:

- Appeon Server (includes Appeon Enterprise Manager - AEM, and Appeon Server Status Monitor)

- Appeon Developer (Windows only)

  Appeon Developer provides two deployment options: Appeon Xcelerator deployment and Pure-JavaScript deployment. However, Appeon Server for Sun Solaris only supports applications deployed with Appeon Xcelerator.

- Appeon Server Web Component

- Appeon Help (Windows only)

- Appeon Demo Applications:

  - Appeon Code Examples Demo

  - Appeon Sales Application Demo

  - Appeon ACF Demo

- Sybase EAServer 5.5

3. Special installation instructions

3.1 Referring to the Appeon Installation Guide

Complete installation instructions for Appeon 5.1 for Sun Solaris can be found in the *Appeon Installation Guide for Sun Solaris* included with the Appeon 5.1 software package. It is **important** for the user to make sure that all system requirements, Appeon Server installation prerequisites, and Appeon Developer installation prerequisites are met. Please read carefully and follow each step listed in the document.

3.2 Installing Appeon for PowerBuilder components

3.2.1 Installing EAServer 5.5

Appeon provides EAServer 5.5 silent installation during the Appeon Server installation. If you have not installed EAServer 5.5, you can install it during the Appeon Server installation. If you have already installed EAServer 5.5, you can skip this option and install Appeon Server only. In this case, you should verify that EAServer is fully installed and works properly before you install Appeon.

3.2.2 Installation from network unavailable

Silent installation of EAServer from a network is unsupported. This causes the error message Can't find setenv.bat.The program will be terminated. to appear. Always copy the EAServer files to the local machine first, and then start the installation process.

3.2.3 Abnormal exit from the installation process

If the Appeon 5.1 installation closes abnormally (such as due to electricity breakdown or computer logoff), the installation process cannot be immediately resumed. Instead, an error message will appear. When the error occurs, restart the installation process by rebooting the computer or manually killing the msiexec.exe process in the task manager.

3.2.4 Starting AppeonDB

Either of the following two methods can be used to start the Appeon Server database; AppeonDB:

- Method #1 - start AppeonDB with Appeon Server by executing $JAGUAR/appeon/bin/appeonserverstart.sh

- Method #2 - start AppeonDB separately by executing $JAGUAR/bin/appeondb.sh. After AppeonDB is started, execute $JAGUAR/bin/serverstart.sh to start Appeon Server

Do not start AppeonDB in the background of bash with the command nohup ./serverstart.sh & or nohup ./appeondb.sh &. Appeon Server will fail to respond.

3.2.5 Certified PBVM versions

Appeon performed full test on EAServer PBVM 9.0.2 Build 7509 and 10.0.1 Build 5502 for Sun Solaris. When deploying NVOs from PowerBuilder to EAServer for Sun Solaris, make sure the PowerBuilder version to be used is compatible with the EAServer PBVM version.

4. Features unavailable in Sun Solaris

Appeon 5.1 for Sun Solaris provides the same basic features as Appeon 5.1 for Windows. See Table 1 for a list of the unavailable features for the Sun Solaris platform.

Table 1: Unavailable Features in Appeon 5.1 for PowerBuilder for Sun Solaris

Features	Component	Description
Pure-JavaScript deployment unavailable	Appeon Server Web Component	If Appeon Developer detects that it is deploying an application using the Pure-JavaScript deployment method to Appeon Server in Solaris, an error message appears and the deployment process is stopped.
Server-side PDF printing	Appeon Server	Appeon Server uses some Windows DLLs for PDF printing, so PDF printing is unsupported in Solaris.
AppeonPrint2PDF function	Appeon Server	Because PDF printing at the server is unsupported, the AppeonPrint2PDF function is unsupported.
DataWindow SaveAs to WMF and XLS	Appeon Server Web Component	Saving a DataWindow as an XLS or WMF file is unsupported in Solaris.
Appeon DataWindow Menu	Appeon Server Web Component	The appeonpopmenuon and appeonpopmenu functions previously provided in the Appeon Workarounds PBL have been removed.
AppeonDataWindow and AppeonDataStore	Appeon Server Web Component	Appeondatawindow and appeondatastore previously provided in the Appeon Workarounds PBL have been removed. As a result, the workaround for GetFullState, SetFullState, GetChanges and SetChanges is unavailable.

Features	Component	Description
DataWindow Data Caching	AEM	The DataWindow Data Cache tool works with Web servers running on Windows (such as the Apache Web server running on Windows), but does not function with Web servers running on UNIX (such as the Apache Web server running on Solaris).
Packages generated by Package Wizard	Appeon Developer	The setup packages generated using Appeon Developer Package Wizard run on the Windows platform only

5. Known issues

5.1 Normal behavior with necessary explanation

5.1.1 Appeon Developer shortcut

After Appeon Developer and Appeon Server are installed, click the Appeon Developer *Run* button, and you may not see any of the demo applications listed, although you can run the applications in Internet Explorer. If this occurs, it is normal behavior because a Web application will be listed only if you have performed the Web deployment process.

5.1.2 Appeon Developer toolbar does not respond

When you attempt to activate an Appeon Developer tool, such as, Configure, immediately after the deployment of a large application, the tool may be slow to respond or not respond at all. The tool may take a few minutes to work properly.

This is normal behavior. After you click the *Finish* or *Finish and Run* button to end an application deployment process, it takes a while for the Appeon Developer execution program EonADT50.exe to end (that is, the CPU usage of the EonADT50.exe in the Windows Task Manager returns to 0). The larger the application, the longer it takes for the EonADT50.exe to end. The Appeon Developer toolbar tools cannot be activated until the CPU usage of the EonADT50.exe returns to 0.

5.1.3 Avoid using existing folder name in Web server Web root for application Web URL

Avoid setting application Web URLs to as existing folder names in the Web server Web root because:

1   If a Web application uses an existing folder under the Web root as the Web URL, a large number of Web files belonging to the application will be deployed to that folder, making it difficult to use the folder for its original purpose.

2   If a Web application uses a folder that is reserved for the Web server or Appeon Server, some important files belonging to the Web server or Appeon Server may be replaced or even removed when the application is undeployed.

The following are folder names reserved for the Web server or Appeon Server that should not be used as an application Web URLs: *appeon*, *classes*, *docs*, *images*, *ir*, *wst*, and *WEB-INF*.

5.1.4 Internet Explorer Refresh button

When a Web application is running, clicking the Internet Explorer Refresh button will restart the Web application immediately.

5.1.5 Remote deployment failure

Deployment to a remote server can fail with an unsupported deployment profile configuration.

An unsupported deployment profile configuration is: a given Appeon Developer deployment profile containing a mix of both local and remote Appeon Servers; the local server has a "localhost" listener. With this configuration, the application will deploy successfully to the local Appeon Server but not to the remote Appeon Servers.

Workaround: Remove the "localhost" listener from the local Appeon Server or change the name of the listener.

5.1.6 "Failed to send the request to Web server" error during deployment

In some cases, while performing task 3 of an application's deployment, although the Web Server is connected without any problem, Appeon Developer fails to deploy the application to the Web Server, resulting in a `Failed to send the request to Web server` error message. This error occurs when the Web Server is handling deployment requests from several machines running Appeon Developer. Although the Server can process several deployments simultaneously, it cannot write to a certain file for several different deployments at one time.

Workaround: Wait a few minutes and try the deployment again using the "Deploy Already Generated Application" mode.

5.1.7 DataWindow issues with applications upgraded to a newer version of PowerBuilder

After an application has been upgraded to PowerBuilder 9.0, 10.0, or 10.5, some DataWindows or DataWindow columns may not be saved in the correct PowerBuilder 9.0, 10.0, or 10.5 formats. This issue seems to most often affect applications upgraded from PowerBuilder 5.0 or 6.0.

For the Appeon Xcelerator deployment option, the Appeon Developer Feature Analysis tool can catch DataWindows that are not correctly upgraded. For the Pure-JavaScript deployment option, the Feature Analysis tool cannot catch such DataWindows.

The older PowerBuilder format will cause one of two errors that are documented below with solutions:

- Error #1 - in the application deployment, the task 1 "application source code export" exits abnormally while trying to get the list of objects from application PBLs.

  Solution - open each DataWindow of the application in PowerBuilder 9.0, and save the DataWindow again using the same DataWindow name.

- Error #2 - some DataWindow columns do not display any data.

  Solution - open the affected DataWindow in PowerBuilder 9.0, change the DataWindow column to another name and save. Then change the column back to the original name and save again.

5.1.8 Unable to abort a deadlocked transaction by closing IE

When deadlock occurs during the execution of SQL statements or stored procedures, unlike client/server applications, the deadlocked transaction cannot be aborted by closing IE. This is because the database transaction is connected to the Appeon Server, rather than to the client.

To abort a transaction when deadlock occurs, use any of the following workarounds:

- Restart the database

- Abort the transaction at the Database Server, or

- Wait until the transaction time out

5.2 Issues caused by other software

5.2.1 Sybase Enterprise Portal issue

With applications deployed with Appeon Xcelerator, when you try to maximize or minimize an application loaded in Enterprise Portal (EP) 6.1 or Unwired Accelerator (UA) 6.5, or click the portlet title, EP or UA attempts to reload the application but fails. This issue is currently being researched by Sybase.

- Workaround #1 - when the portlet turns blank after clicking the Maximize, Minimize button or the portlet title, click the Internet Explorer Refresh button to rerun the application.

- Workaround #2: Modify the EP *pageserver_body_ie_mixed_divIFrame.jsp* file before running Appeon applications in EP.

Original:

portletBars.append("\n\t\t\t document.write(\"<td nowrap width=17 valign=bottom align=right height=11><img name='minimize'+theId+"' id='minimize'+theId+"' src='\"+minimizeIcon_img+\"' width='12' height='12' border='0' ALT='"+(String)messages.get("ALT_MIN_WIN")+"'>
 </td>\"); \n");

```
portletBars.append("\n\t\t\t document.write(\"<td nowrap width=17
valign=bottom align=right height=11><a
href=\\\"javascript:maximizeTileWindow('"+theId+"')\\\"><img
name='expandIcon"+theId+"' id='expandIcon<"+theId+">'
src='\"+expandIcon_img+\"'  border='0'
```

```
ALT='"+(String)messages.get("ALT_MAX_WIN")+"'></a><span
class='nbsp'> </span></td>\"); \n");
```

<div align="center">Modified:</div>

portletBars.append("\n\t\t\t document.write(\"<td nowrap width=17 valign=bottom align=right height=11 onclick=\\\"javascript:resizeTileWindow('"+theId+"', '"+height+"', '"+tileid+"', "+security+", '"+theIframe+"')\\\"> <img name='minimize'+theId+"' id='minimize'+theId+"' src=\"+minimizeIcon_img+\"' width='12' height='12' border='0' ALT='"+(String)messages.get("ALT_MIN_WIN")+"'> </td>\"); \n");

portletBars.append("\n\t\t\t document.write(\"<td nowrap width=17 valign=bottom align=right height=11 onclick=\\\"maximizeTileWindow('"+theId+"');\\\" > <img name='expandIcon'+theId+"' id='expandIcon<'+theId+"'>' src=\"+expandIcon_img+\"' border='0' ALT='"+(String)messages.get("ALT_MAX_WIN")+"'> </td>\"); \n");

5.2.2 PowerBuilder SaveAs issues

SaveAs in PowerBuilder applications

In a PowerBuilder application, if the user saves a file (such as a text file) to a folder other than the PowerBuilder application folder, the relative path of the PowerBuilder application is changed to the specified path. As a result, the images in the PowerBuilder application cannot be retrieved successfully from the correct relative path and displayed in the application.

This is normal behavior for PowerBuilder. As a workaround, always save these files to the PowerBuilder application folder.

Pure-JavaScript Readonly DataWindow cannot display >10 thousand rows of data

Appeon applies PowerBuilder SaveAs for generating readonly DataWindows. If the data for the readonly DataWindow is too large (more than 10 thousand rows), PowerBuilder SaveAs cannot save the data into *WMF* file, and the readonly DataWindow only displays blank page.

• Workaround #1 - enable Appeon DataWindow Menu for the DataWindow. In the Web application, the user can view the DataWindow in PDF format via the Appeon DataWindow Menu Print View item. Refer to the Web Enhancements and Differences section in Appeon Features Help for instructions on how to enable Appeon DataWindow Menu.

• Workaround #2 - reduce the number of rows in the DataWindow to avoid the problem.

Nested reports over five pages do not display

Nested reports longer than five pages cannot be viewed in the DataWindow of the Web application. This is caused by a limitation of PowerBuilder.

Workaround - enable the server-side PDF printing for the DataWindow. In the Web application, the user can view the DataWindow in PDF format. Refer to the DataWindow printing section in Appeon Features Help for Appeon Xcelerator for instructions on how to enable server PDF printing.

"Expecting a 3 retrieval arguments but got 1" or "Nested arguments are incorrectly specified" error when opening a nested report

A nested report runs in a client/server application but cannot be opened on the Web and an error dialog box similar to `Expecting 3 retrieval arguments but got 1` or `Nested arguments are incorrectly specified` appears.

Possible solution - in the PowerBuilder application, open the report and move it one unit to one side and then back to its original position. Redeploy the application using the deployment wizard.

A DropDownDataWindow column displays in actual value instead of the display value

If a composite DataWindow contains an editable DropDownDataWindow column, the DropDownDataWindow column may display in its actual value instead of displaying a value due to a PowerBuilder SaveAs bug (CR 367968).

Workaround - enable server-side PDF printing for the DataWindow. In the Web application, the user can view the DataWindow in PDF format. Refer to the DataWindow printing section in Appeon Features Help for Appeon Xcelerator for instructions on how to enable server PDF printing.

5.2.3 Updating char data in DataWindow fails

In PowerBuilder 10.0, updating char data in DataWindow will fail if the length of char string exceeds that of the corresponding field in the database table.

This is a PowerBuilder 10 issue (CR 397893).

5.2.4 ListView InsertColumn error

When adding a column to a ListView control by the InsertColumn function, the new column contains display values that are duplicated from the original column, and executing GetItem for the column returns incorrect values.

This is a PowerBuilder issue and can be repaired with PowerBuilder 9.0.2 Build 7638.

5.2.5 Non-English characters do not display properly

If the PowerBuilder application is based on a non-English language, using a SQL Server database, non-English characters may not display properly in the Appeon-deployed Web application. One of the most commonly affected collations for SQL Server is SQL_Latin1_General_CP1251_CI_AS. This issue is caused by a defect in the SQL Server JDBC driver. In general, this issue will not be encountered in the PowerBuilder application unless the PowerBuilder application is also using the SQL Server JDBC driver.

Solution - upgrade the Microsoft SQL Server JDBC Driver to the latest SP. (Service Pack 2 version 2.2.0037 was the latest version at the time of this bulletin). This upgrade is available from the Microsoft Web site at http://www.microsoft.com/downloads/details.aspx?FamilyID=9f1874b6-f8e1-4bd6-947c-0fc5bf05bf71&DisplayLang=en.

5.2.6 Sybase iAnywhere driver issue with stored procedure

If a DataWindow uses an ASA stored procedure with at least one IN parameter, with iAnywhere driver the DataWindow cannot retrieve data successfully. This is an issue with iAnywhere driver (CR 325795). Stored procedures without parameters are not affected.

Workaround - use SUN JDBC-ODBC driver instead of iAnywhere driver for applications with stored procedures that require IN parameters.

5.2.7 Browser popup issue

If anti-popup software, such as Popup Stopper by Panicware, is installed and is active on the client machine, it will not allow browser popups to occur. Software that prevents Internet browser popups can cause certain operations to be disabled in the Appeon-deployed Web applications, such as Print View, or other operations that automatically load an Internet Explorer window or a popup dialog.

Workaround - disable the anti-popup software to allow Print View, or other browser-related features to work properly

5.2.8 EonServerInit and EonDataServer error in Jaguar.log

In the *jaguar.log* file, an `eonserverinit` error may appear during Jaguar startup. When the user attempts to retrieve data from the database, a little further down in the log file, the `eondataserver` error may appear.

This is an issue with the Sybase licensing program, SYSAM, which causes a conflict between the ASE EJB container and EAServer. When the ASE EJB option is installed on a computer, it disables the ability to run the PowerBuilder Virtual Machine in EAServer. Appeon requires PowerBuilder Virtual Machine to function properly.

Workaround: Remove the ASE EJB option from the SYSAM license file by following these three steps:

1   Back up the SYSAM license file

2   Edit the SYSAM license file and delete the line "ASE_EJB..."

3   Restart EAServer

5.2.9 Outer join error when using Oracle database

The PowerBuilder application cannot use an Oracle database while using the Outer Join (OJ) syntax of SQL92 (specifying ANSI_Escape as the Outer Join Syntax). Otherwise, if an Outer Join is specified for a DataWindow, there will be an Outer Join error when attempting to retrieve data into the DataWindow. This is because Oracle's JDBC drivers do not support Outer Join syntax {oj outerjoin}.

Workaround:

1   Select the ANSI or PB option in the Outer Join Syntax drop-down list in the Syntax tab of the Database Profile Setup dialog box.

2   Move the syntax into 3-tier NVO, apply the Oracle native driver, and then workaround the DataWindow syntax using the SetFullState and GetFullState functions.

5.2.10 Oracle stored procedure error ORA-24334

Typically this error occurs when an Oracle stored procedure in a PowerBuilder DataWindow returns a resultset by use of a cursor. The stored procedure will run properly in PL/SQL. However, if the DataWindow in PowerBuilder utilizes this same stored procedure, PowerBuilder will return the Oracle error: ORA-24334.

Oracle has resolved this in Oracle 9.2.0.3 Patch 2 and Oracle 9.2.0.4.

5.3 Features that do not function correctly

5.3.1 Server-side PDF printing unsupported in Appeon Server cluster

Server-side PDF printing fails to work in the Appeon Server cluster. When users click the link in the PDF Repository window to open a PDF file, the Web server plug-in may distribute the request to another Appeon Server in the cluster, instead of the server where the PDF file is generated.

5.3.2 Appeon Debugger failed to start

When debugging an Appeon application which is deployed to a remote Web server, the error `Files in the Web server are not updated` appears. This error occurs if the FTP service of that remote Web server is stopped, which blocks Appeon Debugger from reading files on that Web server.

Solution - start the FTP service of the remote Web server.

5.3.3 "Failed to execute the JScript Encode" error

A `Failed to execute the JScript Encode` error occurs when a Web application executes a dynamic SQL statement that is a string with colon (":") in it. For example, executing the following syntax triggers the error:

```
execute immediate "ALTER SESSION SET NLS_DATE_FORMAT
='rr/MM/DD
hh24:mi:ss'" using sqlca;
```

This is an Appeon bug and will be fixed in the next version. If you use Appeon 5.1 for PowerBuilder, work around the issue by assigning the SQL statement string to a variable and dynamically executing the variable. For example:

```
string ls_sql
ls_sql = "ALTER SESSION SET NLS_DATE_FORMAT ='rr/MM/DD
hh24:mi:ss'"
```

```
execute immediate :ls_sql using sqlca;
```

5.3.4 Appeon demos fail to run

The Web version of Appeon demo applications may fail to start when you launch them directly after the installation of Appeon Server. Restarting Appeon Server can solve the problem.

5.3.5 Deployment security setting does not work with LDAP security type

If Appeon Server applies LDAP security and the deployment security for the Appeon Server is set to ON in AEM, deployments to the Appeon Server always fail even though all settings made for the Appeon Server in Appeon Developer are correct. The reason is that the LDAP user name and password specified in the Appeon Server profile configuration cannot pass the deployment security authentication. This is an Appeon bug and will be fixed in the future versions.

Workaround - to apply LDAP security, make sure the deployment security for the Appeon Server is set to OFF.

5.3.6 Using constant to call ASE stored procedure with output parameter

It is unsupported to use a constant to call an ASE stored procedure that contains output parameters. The call will return a different value from the value returned in PowerBuilder.

Workaround - assign the constant to a variable, and use the variable as the output parameter for calling the stored procedure.

5.3.7 Executing dwcontrol.object.data[n]

Executing dot notation dwcontrol.object.data[n] on the Web produces different results from PowerBuilder.

Solution - use any of the following dot notations as a substitute for dwcontrol.object.data[n]:

- dwcontrol.object.data.primary[n]

- dwcontrol.object.data.current[n], or

- dwcontrol.object.data.primary.current[n]

5.4 Multiple language issues

5.4.1 Chinese characters in n-Tier DataWindow

Chinese characters cannot be saved in a distributed DataWindow. This is not an Appeon bug. This problem also exists in PowerBuilder applications.

5.4.2 ASA database issue

ASA 7.0 cannot fully support double-byte language characters, such as Chinese and Korean. Workaround: Use ASA 8.0.2 instead.

5.4.3 Korean resource file issue

In Appeon 5.1, the Korean resource files were not available at the time of release. Although Korean can be selected as the application language in the application profile, the messages will display in English.

5.4.4 Locale setting of the operating system

Make sure that the language selected for the operating system is the same as the Application Language selected in the application profile. Otherwise, an error may occur during PDF printing.

6. Bug fixes in Appeon 5.1 for PowerBuilder

Bug ID 26569

In Italy or other Appeon uncertified locale environment, error occurs if the Mask property of a column using the EditMask edit style is set to HH:MM.

Bug ID 26581

Rows and buffers are reset before retrieving data when the return value of the RetreiveStart event is 2.

Bug ID 26580

The Page DataWindow expression function always returns 1.

Bug ID 26586

Data in the computed filed in a nested DataWindow cannot be displayed completely if the Resize property for the computed field is set to Autosize.

Bug ID 26583

Datawindow data are displayed in wrong order if the AcceptText function is called in the EditChanged event.

Bug ID 26588

Column header in the computed field displays nothing in dynamically created DataWindow.

Bug ID 26587

Focus automatically shifts to the IE 7 frame instead of the field with the incorrect data, if the user enters failes to meet the DataWindow validation rule and you click the Ok button in the popup message box.

Bug ID 26589

Error occurs when the SetItem function and Embedded SQLs are executed in sequence in some DataWindow events.

Bug ID 26590

Displays wrong tab page if the SelectTab function is called after the MoveTab function.

Bug ID 26594

Fails to download the BMP file when using IIS to redirect HTTPS/SSL requests.

Bug ID 26597

Negative numbers are displayed wrongly if the Format of a DataWindow column contains percentage (%).

Bug ID 26599

"00055: Cannot find weekday data type of the user defined variable error" is listed in the UFA report for an Xcelerator deployment.

Bug ID 26617

Documentation says the 3D chart type is supported in Graph object.

Bug ID 26584

Appeon cannot analyze the SQLs if the symbol '--' is contained.

Bug ID 26575

Fails to run Appeon Web applications after the setglb control is installed and registered.

Bug ID 26582

DataWindow update fails if the DateTime field contains a microsecond.

Bug ID 26540

Fail to update a computed field in the secondary datawindow when the RowsCopy function is called.

Bug ID 26591

Decimal fraction is missed in displaying if input number in the DataWindow is negative decimal.

Bug ID 26592

The column position is incorrect if the DataWindow with Crosstab style is created dynamcially.

Bug ID 26593

The Popup window cannot regain the focus if it shifted to the Respond window in which the Popup window opens.

Bug ID 26600

DataWindows with CrossTab style fail to retrieve data if the computed field expression contains another computed field.

7. Product compatibilities

The current installation program for Appeon 5.1 has been tested to work only with the configurations and settings stated in the *Appeon Installation Guide*. Please read the document carefully.

8. Technical support

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

9. Other sources of information

Use the Sybase Getting Started CD and the Sybase Product Manuals Web site to learn more about your product:

- The Getting Started CD contains release bulletins and installation guides in PDF format, and may also contain other documents or updated information not included on the SyBooks CD. It is included with your software. To read or print documents on the Getting Started CD, you need Adobe Acrobat Reader, which you can download at no charge from the Adobe Web site using a link provided on the CD.

- The Sybase Product Manuals Web site is an online version of the SyBooks CD that you can access using a standard Web browser. In addition to product manuals, you will find links to EBFs/Maintenance, Technical Documents, Case Management, Solved Cases, newsgroups, and the Sybase Developer Network.

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