Release Bulletin for Runtime

Sybase Unwired Platform 2.1 ESD #1

Contents

Contents

Product Summary

This release bulletin discusses known issues, workarounds, as well as late-breaking documentation updates for Sybase® Unwired Platform Runtime version 2.1 ESD #1.

For information about new features in this version, see *New Features for Sybase Mobile SDK and Runtime 2.1 ESD #1*.

For information about accessibility, see *Accessibility Features* on page 16.

Upgrading and Migrating

Learn about options available in the upgrade.

Beginning with Unwired Platform version 2.1.1, the upgrade installer automatically adds Sybase SAP® DOE Connector (DOE-C) if it is not present in your earlier version installation, and upgrades DOE-C if it is present.

Installing Online Data Proxy in a Cluster

Unwired Platform version 2.1.1 supports installation of Online Data Proxy in a cluster.

Getting Online Data Proxy installed in a Unwired Platform cluster is a two-part process.

1. Install the full version 2.1 Unwired Platform Runtime in a cluster.
   See the version 2.1 *Installation Guide for Runtime*.
2. Upgrade this cluster to Unwired Platform 2.1.1.
   See the version 2.1.1 cover letter.

Native Client Version Compatibility Matrix

This shows compatibility between versions of the Client Object API and Unwired Server.

Native Client Object API and Unwired Server Version Compatibility

	Unwired Server 1.2	**Unwired Server 1.5.x**	**Unwired Server 2.0.x**	**Unwired Server 2.1**	**Unwired Server 2.1 ESD#1**
Native Client Object API 1.2	YES	NO	NO	NO	NO
Native Client Object API 1.5.x	NO	YES	YES	YES	YES
Native Client Object API 2.0.x	NO	NO	YES	YES	YES
Native Client Object API 2.1	NO	NO	NO	YES	YES
Native Client Object API 2.1 ESD#1	NO	NO	NO	NO	YES

Replacing Existing Sybase Control Center Login Modules with Delegate Login Module

If you have manually configured a login provider to work with Unwired Server for authentication, Sybase strongly recommends that you update csi.properties and roles-map.xml to use the newly added Delegate Login module. The Runtime upgrade script automatically replaces the PreConfigured User Login Module entries when found in their respective files.

Adding the Delegate Login module simplifies the maintenance of your Sybase Control Center authentication providers because this module delegates authentication and authorization of the Sybase Control Center users to the "Admin" security configuration of the local (same node). For details see *Making "Admin" Security Configuration Production-Ready* and *Configuration Files* in the *Security* guide.

1. Open <*SCC_HOME*>\conf\csi.properties and add the Delegate Login module to it.

   A completed file looks similar to this example. Delegate Login appears in bold.

```
## This file defines the default CSI configuration

############################################
## login modules ##
############################################
## Anonymous Login Module
CSI.loginModule.
1.provider=com.sybase.ua.services.security.anonymous.AnonymousLog
inModule
CSI.loginModule.1.controlFlag=sufficient
CSI.loginModule.1.options.moduleName=Anonymous Login Module
CSI.loginModule.1.options.roles=uaAnonymous

############################################
## authorizers ##
############################################
## XML Authorizer
CSI.authorizer.
1.provider=com.sybase.ua.services.security.xml.XMLAuthorizer

############################################
## attributers ##
############################################
## XML Attributer
CSI.attributer.
1.provider=com.sybase.ua.services.security.xml.XMLAttributer

## SUP PreConfiguredUser and Delegation Login Modules
CSI.loginModule.2.options.moduleName=SUP Delegation Login Module

CSI.loginModule.
2.provider=com.sybase.ua.services.security.sup.SUPDelegateLoginMo
dule
CSI.loginModule.2.controlFlag=sufficient
```

2. Open <*SCC_HOME*>\conf\roles-map.xml, then insert the entries in bold to use only the Delegation Login Module.

   This module is bolded in this example:

```
<?xml version="1.0" encoding="UTF-8"?>
<roles-map>
 <uaf-roles>
   <role name="uaAgentAdmin" description="Agent administrator
role" />
   <role name="uaPluginAdmin" description="Plugin administrator
role" />
   <role name="uaOSAdmin" description="Operation system
administrator role" />
   <role name="uaASEAdmin" description="ASE administrator role" />
   <role name="uaUser" description="User role" />
```

```
   <role name="uaGuest" description="Guest role" />
   <role name="uaAnonymous" description="Anonymous role" />
   <role name="sccAdminRole" description="SCC Administrator
Role" />
   <role name="sccOperRole" description="SCC Operator Role" />
   <role name="sccUserRole" description="SCC User Role" />
   <role name="sccGuestRole" description="SCC Guest Role" />
   <role name="jmxDirectAccess" description="JMX Direct Access
Role" />
 </uaf-roles>
 <security-modules>

   <module name="SUP Delegation Login Module">
     <role-mapping modRole="SUP Administrator"
uafRole="uaAnonymous,uaAgentAdmin,uaPluginAdmin,sccAdminRole,sccU
serRole,sccOperRole,sccGuestRole,jmxDirectAccess"/>
     <role-mapping modRole="SUP Domain Administrator"
uafRole="uaAnonymous,uaAgentAdmin,uaPluginAdmin,sccUserRole,sccOp
erRole,sccGuestRole,jmxDirectAccess"/>
   </module>
   <module name="Anonymous Login Module">
     <role-mapping modRole="uaAnonymous" uafRole="uaAnonymous" />
   </module>
 </security-modules>
</roles-map>
```

Known Issues with Installing, Uninstalling, and Upgrading

Learn about known installation, uninstallation and upgrade issues and workarounds.

See the *Sybase Unwired Platform Installation Guide for Runtime* for upgrade and migration information.

CR #	Description
704936	**"An Unknown server error has occurred" after upgrade of SUP 2.1.**
	An upgrade from SUP 2.1 to SUP 2.1 ESD #1 is causing some errors in Sybase Control Center (SCC). Several tabs return the error:
	`"An Unknown server error has occurred"`
	These errors occur on the cluster node in the Properties and Pending Changes tabs, and under Server Configuration in the General, Communication Ports, SSL Configuration, Performance Configuration, and Replication tabs.
	Workaround: Download EBF #20128. Refer to the EBF README for instructions.

CR #	Description
697579	**Cannot add a new node to an existing cluster.**
	When you try to add an additional node to an existing SUP 2.1 ESD #1 (EBF #19762) cluster, the new node is unable to start. To add extra nodes and have them start correctly, you need to install the new nodes with the new SUP 2.1 ESD #1 (EBF #20128).
	Workaround: Download and install the new SUP 2.1 ESD #1 (EBF #20128) on the new nodes.
696536	**Cluster Upgrade Successful from 2.0.1 to 2.1.1, But Device Client Synchronization Fails**
	After successfully upgrading from 2.0.1 to 2.1.1 in a cluster, device client synchronization fails. This is due to a host name change that was introduced in Sybase Unwired Platform 2.1 for the data tier host; the **serverName** property for the messagingdb file is set to the host name of the first server node, and not to the data tier host. This is not an issue for single node installations.
	Workaround:
	1. Navigate to: `<UnwiredPlatform_InstallDir>\UnwiredPlat-form\Servers\UnwiredServer\Repository\Instance\com\sybase\djc\sql\DataSource`.
	2. Open `messagingdb.properties` in a text editor.
	3. Fix the **serverName** value to use the host name (network name) from the UNC data path the user entered during the 2.0 cluster installation, and not the primary Unwired Server name. For example, if the user entered `\\someHost.myDomain.com\Data` as the UNC path to the shared data folder in the data tier installation, the **serverName** value should be updated to *someHost.mydomain.com*.
	4. Save the file, and repeat the process for the second node.
	5. Restart the Sybase Unwired Platform nodes.
694214	**Silent Installation Fails on Shared Host Microsoft Cluster**
	If you attempt to perform a silent installation for a shared host MS cluster scenario, you can install the data tier component successfully, but when you try to install Unwired Server on the same host, the silent installation fails with an error message:
	`The data path must be in UNC format when installing a cluster node.`
	Workaround: To perform a shared host Microsoft Cluster installation, you must run the installer in graphical mode.
693727	**Unwired Server upgrade from version 2.1 to 2.1 ESD #1 fails**
	If you installed SUP 2.1 and never started Unwired Server, the upgrade fails.
	Workaround: Before upgrading to SUP 2.1 ESD #1, start the SUP 2.1 Unwired Server at least once.

CR #	Description
692712	**When upgrading to Sybase Unwired Platform 2.1 ESD #1, you receive an error message:** ```"***Error!!! Error!!!*** The Messaging installer completed with the following errors. These errors will have to be addressed before the services become functional. Please refer to documentation for recovery process. Database upgrade failed."``` This error happens when the Messaging server database upgrade does not complete. The most likely reason for this is that the Messaging server database had some lingering connections to a table while the upgrade was running. You can get more detailed information from the trace file located in `<UnwiredPlatform_InstallDir>\UnwiredPlatform\UnwiredServer\Logs\DBUpgrader`. **Workaround**: 1. Stop all Sybase Unwired server services in all the application nodes. 2. Restart the database services in the data tier node. This is to make sure the Messaging Database has no open connections. 3. From the primary application nodes, open a Windows command window and navigate to `<UnwiredPlatform_InstallDir>\UnwiredPlatform\Servers\Messaging\Bin` folder. 4. Run the command **dbupgrader –v current** and make sure no error messages are displayed. 5. Then run the command **tracemigrator –i** and make sure no error messages are displayed. If the message says no action is taken because the migration is already done, it is okay. 6. Start the Sybase Unwired Server service in the application node and verify it can start.
688350	**When a version 2.1 project is opened in Unwired WorkSpace, the message says it is version is 2.0.1** This is a routine message. It reflects the version number of Unwired WorkSpace that was packaged with Unwired Platform 2.1, rather than the Unwired Platform version number. **Workaround**: Ignore the version number in the message and click **OK** on the prompt.

686034	**Incorrect error message displays when the Sybase Unwired Platform 2.1 installer does not match the system bit version.**
	
	If you attempt to run the 32-bit installer on a 64-bit system, the error message displays:
	
	```Your system requires the 32-bit installer of Sybase Unwired Platform.```
	
	If you attempt to run the 64-bit installer on a 32-bit system, the error message displays:
	
	```Your system requires the 64-bit installer of Sybase Unwired Platform.```
	
	Workaround: None. Use the installer that matches your system bit version.

CR #	Description
679421	**Communication port number conflicts can occur when installing Sybase Unwired Platform 2.1 if you indicate consecutive port numbers for the Server Administration, Data Change Notification, and Replication ports.** The Sybase Unwired Platform Runtime installer automatically creates secure port numbers by incrementing the unsecure port numbers (indicated during installation) by one. **Workaround**: Do not use consecutive port numbers for the unsecured communication ports to avoid port number conflicts.

Known Issues for Unwired Server

Learn about known issues and apply workarounds for Unwired Server.

CR #	Description
692800	**DOE sends messages to the User even if Application Connection is removed** **Workaround**: Unsubscribe the user before deleting the Application Connection since deleting the ApplicationConnection does not trigger the Unsubscribe User operation. Performing the Unsubscribe operation manually ensures that both the device and the DOE are sent the Unsubscribe notification, and this will stop further processing of messages from either end.
691957	Personalization keys with a default value do not work when redeploying a mobile business object with an added load argument associated with the personalization key. Workaround: None
691517	Synchronization fails after adding an operation to a Mobile Business Object, then redeploying it using the **Update** mode. Workaround: None.
688576	**The Oracle data type NCLOB is not supported** **Workaround**: If possible, convert the value within the select statement or update statement.
686551	**Unwired Platform data must be manually transferred on a periodic basis to System Landscape Directory (SLD).** **Workaround**: Schedule the batch files, `runXMLgenerator.bat` and `sendPayload.bat`, to send periodic updates into the SLD, located in `<UnwiredPlatform_InstallDir>\Servers\UnwiredServer\SLD\`. For more details, see *Registering Sybase Unwired Platform with System Landscape Directory* in *System Administration*.

CR #	Description
686043	**Even though a domain is disabled, messaging clients will get messages from server.**
	Workaround: To disable any outbound activity to a client, lock the application connection associated with that client.
674579	**For Back End Search definitions, the ESDMA converter does not support type definitions within a WSDL.**
	Workaround: Modify the ESDMA to remove any in-line type definitions and explicitly define them. The expected list of data types appearing in WSDL under ESDMA_Bundle \mappings\loc**EntityName*.wsdl are "CHAR", "LANG", "TIMS6", "DATS8", "DEC", "INT" OR length is zero. Save and deploy the ESDMA bundle to Unwired Server.
576726	**The full range of valid values is not supported if the attribute uses the default datatype (int) for a SQL Anywhere® database column of type unsigned int.**
	Workaround: To support the full range of valid values for an unsigned int attribute in the EIS, set the datatype for the corresponding MBO attribute as long.

Known Issues for Sybase SAP DOE Connector

Learn about known issues and apply workarounds for Sybase SAP® DOE Connector (DOE-C).

CR #	Description
693843	The SAP SSO2 credentials are being incorrectly cached across user sessions, which could lead to inappropriate credentials being used for all DOE operations, including search and CUD requests.
	Requests might be processed with the incorrect user credentials, or the technical user credentials, depending upon ordering.
	Workaround: None.

Known Issues for Sybase Control Center

Learn about known issues and apply workarounds for Sybase Control Center.

CR #	Description
693605	**Sybase Control Center allows you to enter a value of zero (0) for the DOE connection end point in the DOE Extract Window field in the Connections Properties dialog.** **Workaround**: Enter a positive integer larger than zero (0). Refer to the DOE-C connection end point properties reference in *System Administration > System Reference > EIS Data Source Connection Properties Reference*.
686063	**File upload operations, such as MBO package deployment and MBO package import, do not work in Firefox or Chrome.** **Workaround**: Use Internet Explorer instead.
683775	**In some instances when stopping the Sybase Control Center 3.2 service using the Windows Services tool or using the Stop Sybase Unwired Platform Services shortcut, the Sybase Control Center service displays `Stopping` in Windows Control Panel yet fails to stop.** This can prevent connection to WiFi service on certain networks. **Workaround:** To stop the Sybase Control Center service: 1. Launch Windows Task Manager. 2. Locate the `sccservice.exe *32` process, right-click and select **End Process Tree**. This option also kills the Sybase Control Center database repository server process `dbsrv11.exe *32`. **Note:** For 32-bit machines, `*32` does not appear.
674805	**RSOE running status is uncertain.** In the Sybase Control Center administration pane, Outbound Enabler tab, when the Status column shows "Running," the Status Description column shows: `Relay Server outbound enabler is running. Please check the log file to confirm the status.` In the following cases, the console may detect that an RSOE is running, even though the RSOE is actually in an error state. • The RSOE log level is set too high (4 or 5). Sybase Control Center cannot detect the status from scanning the RSOE log. • The RSOE enters an unrecognized error condition. For example, when RSOE connects to Relay Server through an Internet proxy server, if the proxy server shuts down, the RSOE is effectively in an error state. The RSOE may continue to retry the connection indefinitely, and produce no log message recognized as an error.

CR #	Description
672293	**Data source connections do not support passwords with special characters.**
	Workaround: When defining a data source connection from Unwired Server, do not use special characters. For example, alphanumeric characters work well, but a password such as "aAQ!72qK8#tC04@3RbxL097n8W0" fails when you attempt to ping the server.

Documentation Issues and Updates for Runtime

Read about updates, corrections, and clarifications to the documentation released with Sybase Unwired Platform Runtime.

CR #	Description
732372	**Running the Pack Tool Utility**
	As part of a regular administrative procedure, run the **packtool.exe** utility to keep the system in the proper running state and to compress the ADS data file (`QUEUED_MESSAG-ES.adm`) for increased messaging client performance.
	Important: In a clustered environment, you must use the latest version of the **packtool.exe** utility. Contact Technical Support, or use the utility shipped with Sybase Unwired Platform 2.1 ESD #2 or later.
723144	**Corrections to the truststore and keystore file paths are provided.**
	The file paths for the keystore and truststore previously included in *Changing Keystore and Truststore Passwords* on page 12 have been modified to include the `Security` directory:
	1. The command window location is changed to `<UnwiredPlatform_InstallDir>\UnwiredPlatform\Servers\UnwiredServer\Repository\Security`.
	2. The commands to change the keystore and truststore passwords are changed to:
	• For the keystore password, use: `keytool -storepasswd -new NewPwd -keystore Security\keystore.jks`
	• For the truststore password, use: `keytool -storepasswd -new NewPwd -truststore Security\truststore.jks`
	• For private key entries in keystore, use: `keytool -keypasswd -alias Name -new NewPwd -keystore Security\keystore.jks`

CR #	Description
696989	**Changing Unwired Server Host Name** In *Changing Unwired Server Host Name* in both *Troubleshooting* and *System Adminis-tration*, step 5 is only required for upgrading from Sybase Unwired Platform 2.0 to Sybase Unwired Platform 2.1 ESD #1. **Workaround**: You can disregard this step for upgrades from version 2.1.
696314	**Troubleshooting: Exception During Upgrade if EA Server and Sybase Unwired Plat-form Are Installed on Same Machine** When upgrading, an unhandled exception (`'System.MissingMethodExcep-tion')` occurred in `JMSBridge.exe [8320]` is received. This only occurs if an EA Server installation and a Sybase Unwired Platform installation coexist on the same machine. If there are different versions of the `com.syb-ase.iiop.net.dll` files on the system, it causes the exception. **Workaround**: Ensure that your environment path includes only the Sybase Unwired Plat-form `com.sybase.iiop.net.dll` assembly, if you have EA Server installed on the same machine: 1. Use a strings command (using UNIX tools for Windows) to check if `SetTrus-tAllCertificates` exists on the assembly file that `jmsbridge.exe` loa-ded. From a command prompt, enter: ``` >strings -a com.sybase.iiop.net.dll	grep SetTrustAll- Certificates ``` The command reports back with `SetTrustAllCertificates` if it exists within the assembly. 2. Remove the EAServer installed `com.sybase.iiop.net.dll` from the global assembly cache (GAC).

CR #	Description
695982	**Clarification Regarding Default SUP Roles** While five roles are available by default for the 'admin' security configuration, only three roles are necessary for enabling role-based access to administrative and DCN interfaces. Default roles include: • **SUP Administrator** – The platform administrator for the runtime and mobile artifacts. A required role for the "admin" security configuration. See *SUP Administrator and SUP Domain Administrator*. • **SUP Domain Administrator** – The administrator assigned to a domain. A required role for the "admin" security configuration. See *SUP Administrator and SUP Domain Administrator*. • **SUP DCN User** – The administrative user for DCNs. A required role for the "admin" security configuration. This role must be mapped in *every* security configuration assigned to deployed MBO packages that receive DCN requests. See *SUP DCN User Role*. • **SUP User, SUP Developer** – Sample logical roles that have no impact on administration. Do not map these roles or you may expose administration privileges inadvertently to non-administration users. **Workaround:** None.
674889	**Apple Push Notification Service (APNS) Works on iPad Devices.** These topics incorrectly state that APNS cannot be used with iPad devices: • *iOS Provisioning with APNS* in *System Administration* • *Apple Push Notification Service Configuration* in *OData SDK Developer Guide*

Changing Keystore and Truststore Passwords

The Unwired Platform (used by both Unwired Server and Sybase Control Center to manage certificates and keys) keystore and truststore locations are protected by a password. In production environments, replacing default passwords is encouraged.

Prerequisites
Before you begin, back up the contents of `<UnwiredPlatform_InstallDir>` `\UnwiredPlatform\Servers\UnwiredServer\Repository`.

Task

In production environments, use the keytool utility to change the default passwords for the keystore and truststore locations.

1. Open a command prompt window from this location:
   `<UnwiredPlatform_InstallDir>\UnwiredPlatform\Servers`
   `\UnwiredServer\Repository\Security`.

2. Run commands to change the current password for the keystore, truststore, and private key entries as required for your environment.

   You must enter the same password for a keystore and each of the private entries associated with that store.

   There is no provision in Sybase Control Center to specify a different password for the private key aliases.

   For the keystore password, use: `keytool -storepasswd -new NewPwd -keystore Security\keystore.jks`

   For the truststore password, use: `keytool -storepasswd -new NewPwd -truststore Security\truststore.jks`

   For private key entries in keystore, use: `keytool -keypasswd -alias Name -new NewPwd -keystore Security\keystore.jks`

3. At the prompt, enter the current password.

   If this is the first time changing the password, enter the default password of `changeit`. Otherwise, enter the current password.

4. In Sybase Control Center, configure the Primary Unwired Server SSL certificates to use these passwords. If these certificates are already configured, update the passwords currently configured.

   Click **Servers > *PrimaryServerName* > Server Configuration > General**, then click the **SSL Configuration** tab. For details, see *Defining Certificates for SSL Encryption* .

   If you do not ensure the correct password is set, you can expect a connection failure. See *Keystore Tampering Message Suggests that Connection with Unwired Server Fails* in the *Troubleshooting* guide.

5. Restart all Unwired Platform services using the Windows Control Panel services tool.

Running the Pack Tool Utility

As part of a regular administrative procedure, run the Pack Tool utility to defragment and reclaim unused space within tables and memo files that the Advantage Database Server® (ADS) data file uses. This will ensure that Unwired Server continues to run in the proper state.

Prerequisites

Contact Technical Support for the latest version of the **packtool.exe** utility. You need the **packtool.exe** utility for Sybase Unwired Platform 2.1 ESD#2 or later.

Ensure that you have sufficient free disk space for the packing process. The free disk space must be at least the size of the largest table.

- Single node installations – check in `UnwiredPlatform_InstallDir` `\UnwiredPlatform\Servers\MessagingServer\Data\OBR`
- Cluster installations – check in `UnwiredPlatform_InstallDir` `\UnwiredPlatform\Data\Messaging\OBR`

You need to look for the largest table, including the sum of all three table files with the extensions `.adt`, `.adi`, and `.adm`. Not all tables have corresponding `.adi` and `.adm` files.

Task

1. Stop all Sybase Unwired Platform services including the Advantage Database Server service.

   In a clustered installation, make sure services on all the nodes are stopped.

2. Back up your ADS database files (all the files in the `OBR` folder).

3. Start the Advantage Database Server service only.

   All Sybase Unwired Platform services except Advantage Database Server service must remain stopped until the pack is complete.

4. Open a command prompt window.

   If this is a cluster installation, do this in any of the application server nodes.

   If you are running Vista, Windows 7, or Windows 2008, make sure you run the command prompt as the Administrator.

5. Navigate to `UnwiredPlatform_InstallDir\UnwiredPlatform\Servers` `\MessagingServer\Bin`.

6. Run **packtool.exe**, with no arguments.

After running **packtool.exe**, a new log file is created in `UnwiredPlatform_InstallDir\UnwiredPlatform\Servers` `\MessagingServer\Bin` in the format `yyyyMMddTHHmmss PackTable.log`.

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.