



Installation Guide for Sybase Mobile SDK

Sybase Unwired Platform 2.2

Windows

DOCUMENT ID: DC01697-01-0220-02

LAST REVISED: January 2013

Copyright © 2013 by Sybase, Inc. All rights reserved.

This publication pertains to Sybase software and to any subsequent release until otherwise indicated in new editions or technical notes. Information in this document is subject to change without notice. The software described herein is furnished under a license agreement, and it may be used or copied only in accordance with the terms of that agreement.

Upgrades are provided only at regularly scheduled software release dates. No part of this publication may be reproduced, transmitted, or translated in any form or by any means, electronic, mechanical, manual, optical, or otherwise, without the prior written permission of Sybase, Inc.

Sybase trademarks can be viewed at the Sybase trademarks page at <http://www.sybase.com/detail?id=1011207>. Sybase and the marks listed are trademarks of Sybase, Inc. ® indicates registration in the United States of America.

SAP and other SAP products and services mentioned herein as well as their respective logos are trademarks or registered trademarks of SAP AG in Germany and in several other countries all over the world.

Java and all Java-based marks are trademarks or registered trademarks of Oracle and/or its affiliates in the U.S. and other countries.

Unicode and the Unicode Logo are registered trademarks of Unicode, Inc.

All other company and product names mentioned may be trademarks of the respective companies with which they are associated.

Use, duplication, or disclosure by the government is subject to the restrictions set forth in subparagraph (c)(1)(ii) of DFARS 52.227-7013 for the DOD and as set forth in FAR 52.227-19(a)-(d) for civilian agencies.

Sybase, Inc., One Sybase Drive, Dublin, CA 94568.

Contents

CHAPTER 1: Getting Started	1
Obtaining a License	1
Determining Host IDs	2
Comparing License Deployment Models	3
Generating Licenses at SPDC	4
Logging in to SPDC and Beginning License Generation	4
Generating Licenses at SMP	8
Generating License Keys	9
Locating Information in a License File	9
Setting a Fixed Port Number for SySAM License Server	11
CHAPTER 2: Installing Sybase Mobile SDK	13
Preparing for Installation	13
Entering License Information	14
Selecting Installation Options	18
Completing the Installation	19
Verifying the Installation	20
Verifying an Installation on Same Host as Unwired Server	20
Verifying a Remote Installation	21
Protecting the Installation	22
CHAPTER 3: Installing an Upgraded Sybase Mobile SDK	25
CHAPTER 4: Uninstalling	27

CHAPTER 5: Scripting Silent Installation or Uninstallation	29
Silent Installation	29
Planning a Silent Installation	30
Modifying Properties in the SilentInstall_Win.txt File	30
Running a Silent Installation	30
Silent Uninstallation	31
Planning a Silent Uninstallation	31
Running a Silent Uninstallation	32
CHAPTER 6: Troubleshooting	35
Updating the Database Connection Profile	35
CHAPTER 7: Obtaining Help and Additional Information	37
Documentation Roadmap for Sybase Unwired Platform	37
APPENDIX A: Installation Directory Reference	39
Index	43

Before you begin installing Sybase® Mobile SDK, familiarize yourself with system requirements and installation prerequisites.

Although Sybase Mobile SDK works closely with the Unwired Server component in Sybase Unwired Platform Runtime, the installation of Sybase Mobile SDK is independent of the Unwired Server installation. Sybase Mobile SDK may be installed on a server or developer workstation, with or without Unwired Server. If Unwired Server has already been installed, there is no need to shut down the Unwired Server services before installing or uninstalling Sybase Mobile SDK.

For information on system requirements for Sybase Mobile SDK, see *Supported Hardware and Software*.

For information on installing an Unwired Server instance to work with your Sybase Mobile SDK installation, see *Installing Unwired Platform Runtime on a Single Server* in *Installation Guide for Runtime*.

New Installations

If you are installing Sybase Mobile SDK on a system where there is no earlier version of either Sybase Mobile SDK or Unwired Server installed, you need to provide a license. See *Obtaining a License* on page 1.

If you are installing Sybase Mobile SDK on a system where a version of Unwired Platform Runtime is already installed, the Sybase Mobile SDK installer installs using the Unwired Server license. See *Chapter 2, Installing Sybase Mobile SDK* on page 13.

Upgrade Installations

If you are installing Sybase Mobile SDK on a system where an earlier version has been installed, see *Chapter 3, Installing an Upgraded Sybase Mobile SDK* on page 25.

Obtaining a License

There are two ways to obtain your Unwired Platform license, depending on how you purchased the product.

When you purchase SySAM 2-enabled Sybase products, you must generate, download, and deploy SySAM product licenses.

- If you purchased your product from Sybase or an authorized Sybase reseller, go to the secure Sybase Product Download Center (SPDC) at <https://sybase.subscribenet.com> and

CHAPTER 1: Getting Started

log in to generate license keys. The license generation process may vary slightly, depending on whether you ordered directly from Sybase or from a Sybase reseller.

- If you ordered your product under an SAP® contract and were directed to download from SAP Service Marketplace (SMP), you can use SMP at <http://service.sap.com/licensekeys> (login required) to generate license keys for Sybase products that use SySAM 2-based licenses.

For more complete information about SySAM, see:

- *SySAM 2 Users Guide* online at <http://infocenter.sybase.com/help/topic/com.sybase.infocenter.dc00530.0220/doc/html/title.html>
- *Fast Track to SySAM 2.0* white paper, available at *Fast Track to SySAM 2.0*
- *SySAM FAQ* online at <http://www.sybase.com/detail?id=1038615>
- *SySAM* product page online at <http://www.sybase.com/products/allproductsa-z/sysam>

Determining Host IDs

When you generate licenses at SPDC or SMP, you must specify the host ID of the machine where the licenses will be deployed.

- For unserved licenses, specify the host ID of the machine where the product will run. If you are running a product with per-CPU or per-CHIP licensing that supports SySAM sub-capacity, and you want to run the product in a virtualized environment, see *SySAM Sub-capacity Licensing* in the *SySAM Users Guide* for information about determining the host ID for unserved licenses.
- For served licenses, specify the host ID of the machine where the license server will run.

SPDC or SMP remembers the host information so that you can select the same license server when generating additional licenses.

To determine the host ID of the machine, run the **lmutil** utility from a terminal window or the Windows command prompt. For example:

```
lmutil lmhostid
```

Note: You can download the **lmutil** utility from the Flexera Software Web site at http://www.globes.com/support/fnp_utilities_download.htm.

You can also determine the host ID using native operating system commands. See the Frequently Asked Questions topic "What is my Host ID?":

- SPDC: <https://sybase.subscribenet.com/control/sybs/faqs#30-4>
- SMP: <https://websmp208.sap-ag.de/~sapidb/011000358700001006652011E> (requires login)

Comparing License Deployment Models

Learn about license deployment models.

Unserviced Licenses	Served Licenses
Licenses can be used only on the machine for which the license was generated.	Licenses can be distributed from a network license server to products running on any network machine.
<p>Generate licenses at SPDC or SMP for each machine that will run the product:</p> <ol style="list-style-type: none"> 1. Specify the host ID of the machine where the product will run. 2. Generate a license for that machine. 3. Save the license to the specified machine. 4. Repeat steps 1 – 3 for each machine where the product will run. 	<p>Generate licenses at SPDC or SMP for products running on multiple machines:</p> <ol style="list-style-type: none"> 1. Specify the host ID of the license server. 2. Specify the number of required licenses. 3. Save the licenses to the license server host machine.
No license administration is required. However, when new licenses are required for product updates, you must update and deploy each license for each machine where the product update will run.	The license server requires administration. When new licenses are required for product updates, SPDC or SMP lets you update all licenses for a specific license server in a single step.
No license reporting or asset management capabilities are available.	Allows license monitoring and reporting of license use, capacity planning, and asset management using SAMreport.
Installed locally and always available.	Requires a functioning license server and network. If the license server or network fails, you must fix the problem or install an alternate license server before the product grace period expires.
If a machine where the product is running fails, you must regenerate all of its licenses and deploy those licenses to the replacement machines.	<p>If a machine where the product is running fails, you can move the product to a new machine, and it will acquire licenses from the running license server.</p> <p>If the license server host machine fails, use the Manage License Hosts functionality at SPDC or SMP to move its licenses to a new network license server host.</p>
License files are distributed across each machine running a product, and therefore they are difficult to manage and control.	License files are centrally located and managed.
Unserviced Standalone Seat (SS) licenses do not allow product use via Remote Desktop Connection or other terminal services clients.	Products can be used via Remote Desktop Connection or other Terminal Services clients, irrespective of the type of license in use.

Generating Licenses at SPDC

Before you log in to SPDC and generate licenses, use this information as a reminder of the information you should have available and the tasks that you should have completed.

Table 1. Information Needed Before License Generation

Required Information or Action	License Model		Description
	Served	Un-served	
License deployment model	X	X	Decide whether to use a served or unserved license deployment model. Typically, this is a company-wide decision that is made only once. Therefore, this is one of the most important things to determine before license generation.
Product machine host ID		X	Determine the host ID of the machine, or machine partition where the product will run.
License server – download and install	X		Download and install the SySAM license server before you generate the product’s licenses, and before you install the product.
License server host ID	X		Determine the host ID of the machine where the license server will run.
License server host name	X		Determine the host name of the machine where the license server will run.
License server TCP/IP port numbers	X		Determine the port numbers on which the license server will listen for license requests. Note: If you do not specify the license server port numbers during license generation, the license server uses the first available ports in the range 27000 to 27009. If a firewall exists between the server and the client machines, fix the license server port numbers to allow access to the ports. See <i>Access Through a Firewall or VPN</i> in the <i>SySAM Users Guide</i> .

Logging in to SPDC and Beginning License Generation

Once you log in to SPDC and begin license generation, complete your product’s license generation using the procedure that applies to the license deployment model you chose, either for generating served licenses or for generating unserved licenses.

If your product has been ordered from a Sybase reseller, perform the “Web Key step” instructions, where noted.

1. Go to the SPDC login page at <https://sybase.subscribenet.com>.
 - Go to the SPDC Web Key Registration page at <https://sybase.subscribenet.com/webkey>.
2. Enter the login ID and password, then click **Login**. If you forget your password, click **Password Finder**.

Your password is sent to you in an e-mail message.

 - Enter the authorization string from the Web Key Certificate provided by the reseller when your Sybase product was purchased, then click **Submit Web Key**.

Note: If you do not know your SPDC account login ID and password, or Web Key Certificate authorization string, contact the person who ordered your product.

- At the Web Key Registration page, enter your account information, then click one of these options:
 - **Submit My Registration Information** – to register your product using your direct account information.
 - **Anonymous Activation** – to activate your product anonymously.
3. Select the product family that includes the product for which you want to generate a license; for example, Adaptive Server Enterprise.
 4. Depending on the product family you choose, you may see an additional Product Information page.
 - a. Product suites – if your product is included in one or more suites, select the suite that includes your product; for example, ASE Small Business Edition.
 - b. Product version and platform – select the product version, name, and operating system that matches your product order.
 5. If this is the first time you selected a specific product edition and platform, you must accept the Sybase License Agreement before you are allowed to generate a license for that product.
 6. If your product software installation requires a license key (also referred to as the license file), click **License Keys** on the Product Download page.
 7. On the License Information page:
 - a. Select the option button to the left of the product for which to generate a license; for example, “CPU License (CP), ASE Enterprise Edition 15.7 for Sun Solaris SPARC 64-bit.”
 - b. Scroll down and click **Select to Generate**.
 8. In the Generate Licenses wizard, choose a license deployment model:
 - **Served license** – go to *Generating Served Licenses* in the *Sybase Software Asset Management (SySAM) 2 Users Guide* to complete the license generation and download process.

CHAPTER 1: Getting Started

- **Unserviced license** – go to *Generating Unserved Licenses* in the *Sybase Software Asset Management (SySAM) 2 Users Guide* to complete the license generation and download process.

Note: Some Sybase products or license types do not offer a choice of license deployment models and do not display this page. If this is the case, continue through the Generate Licenses wizard to generate your license.

Click **Next**.

Generating Unserved Licenses

Generate and download an unserved license for your product.

1. Enter the number of machines (up to 10) for which to generate unserved licenses, and click **Next**.
2. Enter:
 - **Node Host ID** – enter the host ID of the machine where the product will be run. If you do not know the host ID, select **What Is My Host ID?** or see *Determining Host IDs* in the *Sybase Software Asset Management (SySAM) 2 Users Guide* at <http://infocenter.sybase.com/help/topic/com.sybase.infocenter.dc00530.0220/doc/html/title.html>.
 - **Host Name** – enter the machine host name.

For some license types, you must enter the number of licenses to generate. If you are unsure of the license quantity, select **How Many Licenses Should I Generate?**.

3. Click **Generate**.
4. When the license has generated, review the information on the View Licenses page, then, if the license information is correct, select one of:
 - If you generated only one license, click **Download License File**.
 - If you generated several licenses, click **Download All Licenses for Host**.

Note: Before you download and save generated licenses, you can select **Print Friendly** to print a paper copy of the license, or **License Overview** to return to the License Information page and generate additional licenses.

- To correct license information before downloading the license, click **License Overview**, select the license to be corrected and click **Check In** to reset the license to its original state. Repeat the license generation process.
5. If you chose to download licenses, when the File Download dialog box opens, click **Save**.
6. Save the generated licenses with a `.lic` file name extension. Although `$$SYBASE / SYSAM-2_0/licenses` is typically the directory where unserved licenses are located, your product may have a different requirement. See your product installation guide and release bulletin for product-specific information.

Note: If you do not save the license files with a `.lic` extension, SySAM does not recognize the licenses.

Next, install your licensed product using the instructions in the product installation guide and release bulletin.

Generating Served Licenses

Generate and download a served license for your product.

1. Enter the number of licenses to generate and click **Next**.

If you are unsure of the license quantity, select **How Many Licenses Should I Generate?**.

2. Select an existing license server host, or enter the host ID, and an optional host name and port number, of a new license server host.

When completing this step, use these recommendations:

- If you do not know the license server host ID, select **What Is My host ID?** or see *Determining Host IDs* in the *Sybase Software Asset Management (SySAM) 2 Users Guide* at <http://infocenter.sybase.com/help/topic/com.sybase.infocenter.dc00530.0220/doc/html/title.html>.
- Although the host name is optional, Sybase recommends that you provide the host name to ease future license administration.
- The port number is optional unless your product configuration is going to use three-server redundancy (see the next bullet item). Any unused port number between 0 and 64000 is valid. On UNIX, choose a port number greater than 1024; most port numbers less than 1024 are privileged port numbers. If you do not specify a TCP/IP port number, a default port between 27000 and 27009 is used.
- To generate a license for a three-server redundant configuration, enter the required information: license server host ID, host name, and port number for all three machines. Enter a port number outside of the 27000 to 27009 range. You must enter the fully qualified domain name (FQDN) as the host name if any client machine requires an FQDN to contact a license server machine.

Note: You cannot upgrade SySAM 1.0 licenses and use them in a three-server redundant configuration.

3. Click **Generate**.
4. When the license has generated, review the information on the View Licenses page, then, if the license information is correct and you do not need to generate additional licenses, select one of:
 - If you generated only one license, click **Download License File**.
 - If you generated several licenses, click **Download All Licenses for Host**.

Note: Before you download and save generated licenses, you can select **Print Friendly** to print a paper copy of the license.

- a) To correct license information, click **License Overview**, select the license to be corrected and click **Check In** to reset the license to its original state. Repeat the license generation process, starting with step 1 of this procedure.
 - b) To generate additional licenses, click **License Overview** and repeat the generation process for the additional product licenses.
5. When the File Download dialog box opens, click **Save**.
 6. Save the license files with a `.lic` file name extension to the `SYSAM-2_0/licenses` directory of the license server installation.

Warning! If you do not save the license files with a `.lic` extension, SySAM does not recognize the licenses.

7. After you save the license files to the license server, enter in a command prompt (Windows) or a shell window (Linux/UNIX) on the machine where your license server is running:

```
sysam reread
```

Your new licenses are registered with the license server.

Generating Licenses at SMP

Before you log in to SMP and generate licenses, use this information as a reminder of the information you should have available and the tasks that you should have completed.

Table 2. Information Needed Before License Generation

Required Information or Action	License Model		Description
	Served	Un-served	
License deployment model	X	X	Decide whether to use a served or unserved license deployment model. Typically, this is a company-wide decision that is made only once. Therefore, this is one of the most important things to determine before license generation.
Product machine host ID		X	Determine the host ID of the machine, or machine partition where the product will run.
License server – download and install	X		Download and install the SySAM license server before you generate the product’s licenses, and before you install the product.

Required Information or Action	License Model		Description
	Served	Un-served	
License server host ID	X		Determine the host ID of the machine where the license server will run.
License server host name	X		Determine the host name of the machine where the license server will run.
License server TCP/IP port numbers	X		Determine the two port numbers on which the license server will listen for license requests.

Generating License Keys

If you have purchased Sybase products that use SySAM 2-based licenses under SAP contract and are directed to download from SAP Service Marketplace (SMP), you can use SMP to generate license keys.

1. Go to the SAP Marketplace main page at <http://service.sap.com/licensekeys>.
2. Log in using your SMP credentials.
3. Select **SAP Support Portal**.
4. Select **Keys & Requests > License Keys**.
5. Follow the instructions in the "How to generate license keys for SAP Sybase products" presentation available under the "Documentation and Helpful Resources" quick access link.

Locating Information in a License File

After you download a license file, you may need to get some information from it to complete your installation.

1. Use a text editor to open your license file.
2. Locate the uncommented line that begins with the string for your Unwired Platform edition:
 - Enterprise Edition – INCREMENT SUP_ENTSRVR
 - Enterprise Developer Edition – INCREMENT SUP_ENTDEV
 - Personal Developer Edition – INCREMENT SUP_DEVELOPER

For example:

- For Enterprise Edition:

```
...
INCREMENT SUP_ENTSRVR SYBASE 2011.11150 permanent uncounted \
  VENDOR_STRING=PE=EE;LT=CP HOSTID=000c29d300bd
```

CHAPTER 1: Getting Started

```
PLATFORMS="i86_n \  
...
```

- For Enterprise Developer Edition:

```
...  
INCREMENT SUP_ENTDEV SYBASE 2011.11150 permanent uncounted \  
    VENDOR_STRING=PE=EE;LT=CP HOSTID=000c29d300bd  
PLATFORMS="i86_n \  
...
```

- For Personal Developer Edition:

```
...  
INCREMENT SUP_DEVELOPER SYBASE 2011.11150 permanent uncounted \  
    VENDOR_STRING=PE=EE;LT=CP HOSTID=000c29d300bd  
PLATFORMS="i86_n \  
...
```

The rest of the examples in this section show the beginning of this line as it appears for Enterprise Edition; the details equally apply to all editions.

3. Determine whether the server license is served or unserved.

If the line you located in step 2 ends with "uncounted", it is an unserved license. For example:

```
...  
INCREMENT SUP_ENTSRVR SYBASE 2011.11150 permanent uncounted \  
    VENDOR_STRING=PE=EE;LT=CP HOSTID=000c29d300bd PLATFORMS="i86_n  
\  
...
```

If that line ends with a number immediately following a date, it is a served license. For example:

```
...  
INCREMENT SUP_ENTSRVR SYBASE 2011.11150 permanent 10 \  
    VENDOR_STRING=PE=EE;LT=CP HOSTID=000c29d300bd PLATFORMS="i86_n  
\  
...
```

4. Determine the product edition and license type for the license.

For both served and unserved licenses, note the value of PE (product edition) and LT (license type) in the line following the line you located in step 2. For example:

```
...  
INCREMENT SUP_ENTSRVR SYBASE 2011.11150 permanent uncounted \  
    VENDOR_STRING=PE=EE;LT=CP HOSTID=000c29d300bd PLATFORMS="i86_n  
\  
...
```

The PE value is the license product edition value; "EE" in the example above.

The LT value is the license type value; "CP" in the example above.

5. If you are installing Enterprise Edition, determine the number of client licenses.

If your license type is Development and Test (DT), you can change this number later.

- a) Locate the uncommented line, beginning with INCREMENT SUP_ENTCLIENT.

For example:

```
INCREMENT SUP_ENTCLIENT SYBASE 2011.11150 permanent uncounted \
  VENDOR_STRING=PE=EE;LT=ST HOSTID=000c29d300bd
PLATFORMS="i86_n \
...
```

- b) Determine whether the client licenses are served or unserved.

If the line beginning with INCREMENT SUP_ENTCLIENT ends with "uncounted", the client licenses are unserved. For example:

```
INCREMENT SUP_ENTCLIENT SYBASE 2011.11150 permanent uncounted \
  VENDOR_STRING=PE=EE;LT=ST HOSTID=000c29d300bd
PLATFORMS="i86_n \
  x64_n" ISSUER="CO=Sybase,
Inc.;V=2.0;AS=A;MP=3120;CP=100;EGO=" \
...
```

If that line ends with a number immediately after a date, the client licenses are served. For example:

```
INCREMENT SUP_ENTCLIENT SYBASE 2011.11150 permanent 100 \
  VENDOR_STRING=PE=EE;LT=ST HOSTID=000c29d300bd
PLATFORMS="i86_n \
...
```

- c) Determine the number of client licenses.

For unserved client licenses, the number of client licenses is the value of CP two lines below the line beginning with INCREMENT SUP_ENTCLIENT. For example:

```
INCREMENT SUP_ENTCLIENT SYBASE 2011.11150 permanent uncounted \
  VENDOR_STRING=PE=EE;LT=ST HOSTID=000c29d300bd
PLATFORMS="i86_n \
  x64_n" ISSUER="CO=Sybase,
Inc.;V=2.0;AS=A;MP=3120;CP=100;EGO=" \
...
```

For served client licenses, the number of client licenses is the value at the end of the line beginning with INCREMENT SUP_ENTCLIENT. For example:

```
INCREMENT SUP_ENTCLIENT SYBASE 2011.11150 permanent 100 \
  VENDOR_STRING=PE=EE;LT=ST HOSTID=000c29d300bd
PLATFORMS="i86_n \
...
```

Setting a Fixed Port Number for SySAM License Server

To use a served license when there are no ports available, you can edit the license file to specify a fixed port number.

The VENDOR SYBASE daemon is a license management process that runs on Unwired Platform hosts. It normally uses a dynamically assigned port to communicate with the SySAM license server.

CHAPTER 1: Getting Started

This task is required when Sybase Unwired Platform is deployed in an environment in which there are no available ports in the 27000-27009 range for the licensing server to dynamically assign.

1. Obtain a port number that Unwired Platform can use to communicate with the SySAM license server.
2. Back up the license file.
3. Use a text editor to open the license file, and locate the `VENDOR SYBASE` line, near the top of the file.
4. At the end of that line, type `PORT=` followed by the port number you obtained.

For example, if you use port 27010:

```
VENDOR SYBASE PORT=27010
```

You must leave a space between "SYBASE" and "PORT."

5. Save and close the license file.

Sybase Mobile SDK works closely with Unwired Server, but its installation is independent of the Unwired Server installation.

1. *Preparing for Installation*

Ensure that the host on which you are installing Sybase Mobile SDK meets the system requirements and is ready for you to begin the installation.

2. *Entering License Information*

Start the Sybase Mobile SDK installer and enter license information.

3. *Selecting Installation Options*

Specify the installation directory.

4. *Completing the Installation*

Review the installation summary and launch the installation process.

5. *Verifying the Installation*

After you complete the installation, verify that the installation was successful before proceeding.

6. *Protecting the Installation*

Proper functioning of the Sybase Mobile SDK is critically dependent on specific versions of Eclipse components.

Preparing for Installation

Ensure that the host on which you are installing Sybase Mobile SDK meets the system requirements and is ready for you to begin the installation.

1. If User Access Control (UAC) is present in the version of Windows where you are installing, disable it. You must restart the system for the change to take effect.
2. Verify that the target system meets the system requirements for Sybase Mobile SDK. See *Supported Hardware and Software*.
3. Verify that you have Administrator privileges on the installation target host.
4. If the JAVA_TOOL_OPTIONS environment variable is set, remove it before you start the installation.

Check for the JAVA_TOOL_OPTIONS environment variable in both **User variables** and **System variables** panes of the Environment Variables dialog.

- a) Right-click **My Computer** and select **Properties**.

- b) Select the **Advanced** tab, then click **Environment Variables**.
 - c) Select `JAVA_TOOL_OPTIONS` and click **Delete**.
 - d) Click **OK** to exit all dialogs.
5. If there is an earlier version of Sybase Mobile SDK installed on the same computer where you are installing this version, back up any `workspace` directory trees used by Sybase Unwired WorkSpace.

Although installing this version of Sybase Mobile SDK does not overwrite those files, you should create backups that have only been opened in the earlier version. If you open an earlier version project in the later version of Sybase Mobile SDK, you are committed to migrating the project to the later version. Backups keep open the option to go back to the earlier version.

6. If you wish to use the sampleDB database that is packaged with Unwired Platform, be sure that the Unwired Server that you plan to connect to from your Sybase Mobile SDK installation has the Sybase Unwired SampleDB service running.

If the Windows service that runs the sampleDB server, Sybase Unwired SampleDB, has not been created:

- a) In the file system where the Unwired Server is installed, go to the `SUP_HOME` \Servers\UnwiredServer\bin directory.
- b) Run the `sampledb.bat` script.

To create the service to start automatically, enter:

```
sampledb.bat install auto
```

To create the service to be started manually, enter:

```
sampledb.bat install manual
```

- c) Start the Sybase Unwired SampleDB service you just created, either by using the Windows Services control panel, or by entering, at the command prompt:.

```
sampledb.bat start
```

For more information on the `sampledb.bat` script, see *Create or Remove the Windows Service for sampledb Server (sampledb) Utility* in *System Administration*.

Entering License Information

Start the Sybase Mobile SDK installer and enter license information.

1. Start the Sybase Mobile SDK installer using one of these methods:
 - Insert the Sybase Mobile SDK installation media.
 - Install from a Web download. Extract all the archive files to the same temporary directory on a local disk, not a shared drive.

Note: Use a short path, preferably a folder directly below the root directory, such as `C:\temp`. Path must include only ASCII alphanumeric characters, underscore (`_`), hyphen (`-`), and period (`.`).

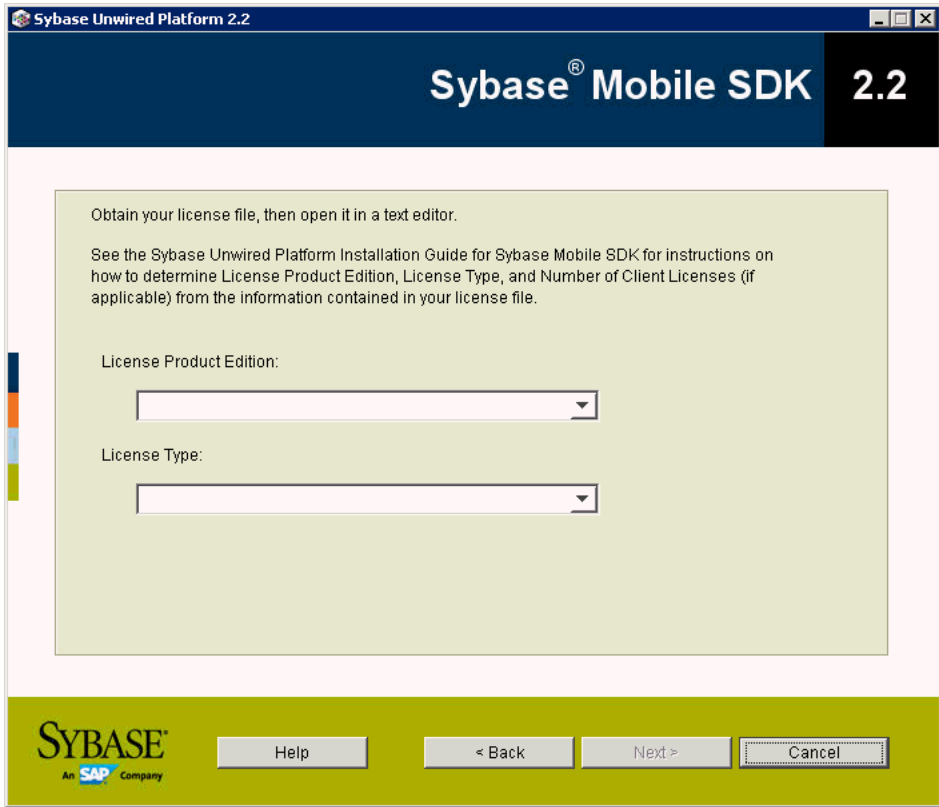
- Install from an image on the network. You must access the installation image from a mapped drive, not a UNC path.

Browse to the location of the `setup.exe` file, and:

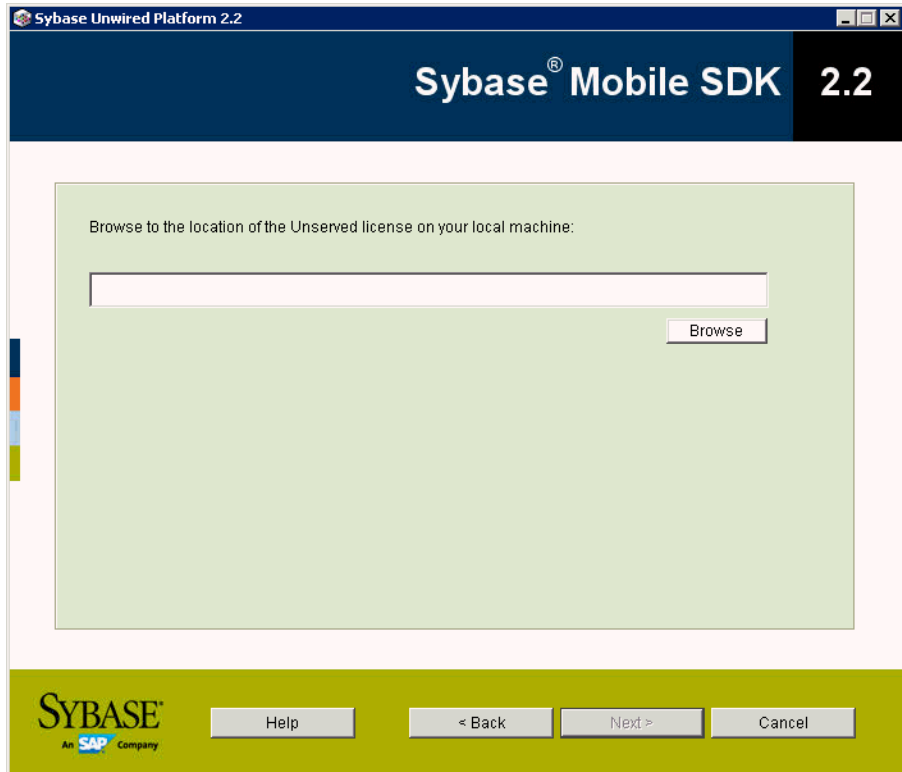
- On Windows 7 and Windows Server 2008 R2, right-click the `setup.exe` file and select **Run as Administrator**.
 - On earlier supported versions of Windows, double-click the `setup.exe` file.
2. On the installer welcome page, click **Next**.
 3. If you are installing on a system that does not have a licensed Unwired Platform installation, select your license model and click **Next**.

Evaluation	Allows you to evaluate Unwired Platform for 30 days. A license file is not required.
Unserviced (local) license	Standalone license managed locally by the host.
Served (remote) license	Standalone license managed by a license server.

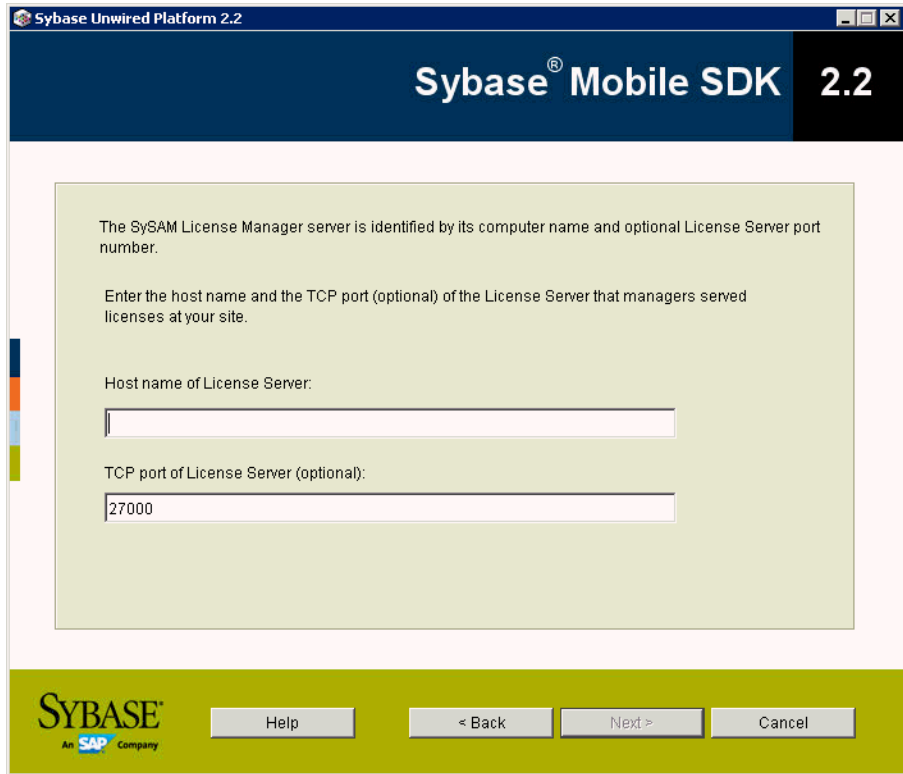
4. On the end-user license agreement page, select your country, accept the terms of the license agreement and click **Next**.
5. If you are installing on a system that does not have a licensed Unwired Platform installation, on the license details page, select your License Product Edition and License Type.



6. If you are installing on a system that does not have a licensed Unwired Platform installation, enter the location of your license file.
 - If you selected **Unserviced (local) license**, enter the absolute path to the license file on the installation target host. The path must include only ASCII characters.



- If you selected **Served (remote) license**, enter the **Host Name of License Server** and **TCP Port of License Server**.



If you get an error, such as `Failed to check out license`, click **OK**, then click **Back** to confirm the license model (served or unserved), License Product Edition, and License Type.

Selecting Installation Options

Specify the installation directory.

1. Specify the absolute path to the installation location, which must reside in a local drive on the target host.

The total length of the path must be 30 characters or less.

Directory names in the path can contain only:

- ASCII alphanumeric characters
 - Underscore (_), hyphen (-), and period (.) characters
2. If you are prompted that an existing installation of Sybase Unwired Platform has been detected:
 - Click **Next** to install Sybase Mobile SDK under that directory.

- If the path to that location would be too long (more than 30 characters), click **Browse** to select a different location, then click **Next**.



Completing the Installation

Review the installation summary and launch the installation process.

1. On the summary information page, verify the installation features and click **Install**.
2. (Optional) Click **View Release Bulletin**.
3. Click **Finish**.

You can now access this Sybase Mobile SDK installation through the Windows Start menu: **Start > (All) Programs > Sybase > Unwired Platform > Sybase Unwired WorkSpace 2.2**. If an earlier version of Sybase Mobile SDK was installed on the same system, its menu option remains: **Start > (All) Programs > Sybase > Unwired Platform > Sybase Unwired WorkSpace**, or ... **Sybase Unwired WorkSpace x.x**, where "x.x" is the earlier version number.

For information about configuring Sybase Mobile SDK, see *Sybase Mobile WorkSpace - Mobile Business Object Development*.

Verifying the Installation

After you complete the installation, verify that the installation was successful before proceeding.

See also

- *Protecting the Installation* on page 22

Verifying an Installation on Same Host as Unwired Server

Start up Sybase Unwired WorkSpace and connect to Unwired Server.

1. Start up Sybase Unwired WorkSpace.
 - a) From the Windows task bar, select **Start > (All) Programs > Sybase > Unwired Platform > Sybase Unwired WorkSpace 2.2**.
 - b) Accept the default workspace location.
2. Verify that the connection profile for the Unwired Server to which you are connecting matches the settings for that server.

Change any connection profile settings as needed to match those for the target Unwired Server.
3. Ping My Unwired Server to be sure it is running.
 - a) In Enterprise Explorer, expand the **Unwired Servers** folder.
 - b) Right-click **My Unwired Server** and select **Ping**.
 - c) If you do not see a **Ping succeeded!** message, start the server (from Windows: **Start > (All) Programs > Sybase > Unwired Platform > Start Unwired Platform Services** and ping the server again.
 - d) If the ping still fails, with exception `java.lang.ClassNotFoundException: com.sybase.jdbc3.jdbc.SybDriver`, see *Updating the Database Connection Profile* on page 35.
 - e) If the ping still fails, without a `ClassNotFoundException`, port numbers were probably customized during Unwired Server installation. In Sybase Control Center, check the port numbers used for the Unwired Server instance that you are trying to connect to and update the server's connection profile to match in Sybase Sybase Unwired WorkSpace.
4. Connect to Unwired Server.

In Enterprise Explorer, expand the **Unwired Servers** folder, right-click **My Unwired Server**, and click **Connect**.

5. Make sure sampleDB is installed on the Unwired Server to which you connected. See the last step in *Preparing for Installation* on page 13.
6. Connect to sampledb.

In Enterprise Explorer, expand **Database Connections**, right-click **My Sample Database**, and click **Connect**.

If the ping still fails, without a `ClassNotFoundException`, port numbers were probably customized during Unwired Server installation. In Sybase Control Center, check the port numbers used for the Unwired Server instance that you are trying to connect to and update the server's connection profile to match in Sybase Unwired WorkSpace.

Verifying a Remote Installation

If you have installed Sybase Mobile SDK on a system where no Unwired Server is installed, start up Sybase Unwired WorkSpace and connect remotely to Unwired Server.

Prerequisites

Ping the host name of the Unwired Server you plan to use remotely with Sybase Mobile SDK to be sure it is running.

Task

1. Start up Sybase Unwired WorkSpace.
 - a) From the Windows task bar, select **Start > (All) Programs > Sybase > Unwired Platform > Sybase Unwired WorkSpace 2.2**.
 - b) Accept the default workspace location.
2. Verify that the connection profile for the Unwired Server to which you are connecting matches the settings for that server.

Change any connection profile settings as needed to match those for the target Unwired Server.
3. Modify the default connection profile for My Unwired Server.
 - a) In Enterprise Explorer, expand the **Unwired Servers** folder.
 - b) Right-click **My Unwired Server** and select **Properties**.
 - c) In the Properties for My Unwired Server dialog, in the left panel, select **Unwired Server Connection Profile**.
 - d) In the **Host** field, enter the host name for the Unwired Server you want to connect to and click **Test Connection**.

If you do not see a `Ping succeeded!` message, check the spelling on the host name you entered; if you successfully pinged this server before starting this procedure, this ping should also succeed, if the same name is entered here.

CHAPTER 2: Installing Sybase Mobile SDK

- e) If the ping still fails, with exception `java.lang.ClassNotFoundException: com.sybase.jdbc3.jdbc.SybDriver`, see *Updating the Database Connection Profile* on page 35.
 - f) If the ping still fails, without a `ClassNotFoundException`, port numbers were probably customized during Unwired Server installation. In Sybase Control Center, check the port numbers used for the Unwired Server instance that you are trying to connect to and update the server's connection profile to match in Sybase Unwired WorkSpace.
 - g) Click **OK** to save the change.
4. Connect to Unwired Server.
In Enterprise Explorer, expand **Unwired Servers**, right-click **My Unwired Server**, and click **Connect**.
 5. Make sure sampleDB is installed on the Unwired Server to which you connected.
See the last step in *Preparing for Installation* on page 13.
 6. Modify the default connection profile for My Sample Database.
 - a) In Enterprise Explorer, right-click **My Sample Database** and select **Properties**.
 - b) In the Properties for My Sample Database dialog, in the left panel, select **Sybase ASA Connection Profile**.
 - c) In the **Host** field, enter the host name for the Unwired Server you want to connect to and click **Test Connection**.
If you do not see a `Ping succeeded!` message, check the spelling on the host name you entered; if you successfully pinged this server before starting this procedure, this ping should also succeed, if the same name is entered here.
 - d) Click **OK** to save the change.
 7. Connect to sampledb.
In Enterprise Explorer, expand **Database Connections**, right-click **My Sample Database**, and click **Connect**.
If the ping still fails, with exception `java.lang.ClassNotFoundException: com.sybase.jdbc3.jdbc.SybDriver`, see *Updating the Database Connection Profile* on page 35.

Protecting the Installation

Proper functioning of the Sybase Mobile SDK is critically dependent on specific versions of Eclipse components.

This version of Sybase Mobile SDK uses specific versions of Eclipse components. These versions have been tested and found to work well with each other and with Sybase Mobile SDK. Before you start the Sybase Unwired WorkSpace, review the information in *Chapter 3, Installing an Upgraded Sybase Mobile SDK* on page 25. To preserve the integrity of existing

Eclipse workspaces, ensure that you point to a new Eclipse workspace the first time you start Sybase Unwired WorkSpace.

Note: Do not use the Eclipse update site to update any Eclipse plugins or contributed plug-ins like GMP, GEF, DTPs etc.

See also

- *Verifying the Installation* on page 20

Installing an Upgraded Sybase Mobile SDK

You can install version 2.2 of the Sybase Mobile SDK on the same system as an earlier version of the SDK. The earlier version of the SDK is not upgraded and you can use both versions as needed.

The installer places the new version SDK installation in a subdirectory at the same level as the earlier SDK version, for example:

```
<MobileSDK_InstallDir>  
  MobileSDK213  
  MobileSDK22
```

Maintaining more than one version of Sybase Mobile SDK allows you to defer making application code changes until you are ready to do so, or until you need to use features that are available only in the newer SDK version.

- Continue using the earlier SDK version to make minor modifications in applications that do not require features that are only available in the later version.
- Migrate applications to the newer SDK version to use features that are available only in the later version. See *Developer Guide: Migrating to Sybase Mobile SDK*.
- When you have finished migrating all your applications to the newer SDK version, you can remove the older version using the Windows Add/Remove Programs option on the Control Panel.

Uninstall Sybase Mobile SDK using the Control Panel option to remove programs, which launches the uninstaller.

Prerequisites

Before you uninstall Sybase Mobile SDK:

- Shut down Sybase Unwired WorkSpace.
- Back up any user-created files and log files you want to keep from the installation directories to another location.
- Prevent virus scans, backups, and system updates from interfering with the uninstallation by either excluding the Sybase Mobile SDK installation directory from these processes or having these processes temporarily disabled.

Task

1. From the Control Panel, begin removing the program.
This starts the uninstaller.
2. Click **Next** in the welcome window.
3. Click **Uninstall** to start uninstalling Sybase Mobile SDK.
4. Click **Finish** when you see:

The InstallShield wizard has successfully uninstalled Sybase Mobile SDK *<version>*.

Scripting Silent Installation or Uninstallation

You can automate installation, upgrading, or uninstallation of Sybase Mobile SDK components by specifying settings in a text file, then running a script that silently runs the Sybase Mobile SDK installer or uninstaller.

Silent Installation

Use the `SilentInstall_Win.bat` script to automate the installation or upgrade process. The Sybase Mobile SDK installer runs silently, taking input from the `SilentInstall_Win.txt` file.

The silent installation capability allows you to perform any particular type of Sybase Mobile SDK installation or upgrade, without entering information through the installer interface. There is no difference in the scripting process between a silent installation and a silent upgrade.

- Configure installer settings in a `SilentInstall_Win.txt` file.
- Run the installer from the command prompt, using the `SilentInstall_Win.bat` script.
- If User Access Control (UAC) is present in the version of Windows where you are installing, disable it. Restart Windows for the change to take effect.

Note: The Sybase Mobile SDK installer can only install SDK components. The Unwired Platform Runtime requires a different installer for the server components.

1. *Planning a Silent Installation*

Review the content of the default `SilentInstall_Win.txt` file and determine what changes you must make for the Sybase Mobile SDK installation you want to automate.

2. *Modifying Properties in the SilentInstall_Win.txt File*

Edit a separate copy of the default `SilentInstall_Win.txt` configuration file for each type of Sybase Mobile SDK installation you want to automate.

3. *Running a Silent Installation*

Run the `SilentInstall_Win.bat` script from a command prompt.

Planning a Silent Installation

Review the content of the default `SilentInstall_Win.txt` file and determine what changes you must make for the Sybase Mobile SDK installation you want to automate.

1. Locate the `SilentInstall_Win.bat` script and `SilentInstall_Win.txt` file in the root directory of the Sybase Mobile SDK installation media.
2. If you cannot modify those files on the installation media, create a copy of the installer image in a location from which you can run the installer.
3. Use a text editor to open the `SilentInstall_Win.txt` file, and review the current settings.

Comments preceding each group of settings describe the valid options, and any special requirements for the entry.

4. Determine what changes you want to make in the installation settings.

For example, you may want to change license information and installation location.

Modifying Properties in the SilentInstall_Win.txt File

Edit a separate copy of the default `SilentInstall_Win.txt` configuration file for each type of Sybase Mobile SDK installation you want to automate.

1. From the root directory of the installer image, use a text editor to open `SilentInstall_Win.txt`.
2. Make the changes you have determined are necessary.
3. Save your changes.

Running a Silent Installation

Run the `SilentInstall_Win.bat` script from a command prompt.

Prerequisites

1. To accommodate Unwired Platform internal communications, you may need to reconfigure intrusion detection/prevention systems (either hardware- or software-based). See the Unwired Platform *Landscape Design and Integration* guide.
2. Run the installation script as an administrator on Windows 7 and Windows Server 2008 R2.

Task

1. Confirm that the root directory of the installer image contains the `SilentInstall_Win.txt` configuration file that you modified for a particular installation type.

- From a command prompt on the installation target host, navigate to the root directory of the installer image and launch the silent installation script:

```
SilentInstall_Win.bat
```

- Check the log files for errors.

Errors encountered after the installation destination is created are logged in `SUP_HOME\InstallLogs\SDKInstall.log`.

Silent Uninstallation

Use the `SilentUninstall_Win.bat` script to automate the uninstallation process. The Sybase Mobile SDK uninstaller runs silently, taking input from the `SilentUninstall_Win.txt` file.

The silent uninstallation capability allows you to perform uninstallation of Sybase Mobile SDK, without entering information through the uninstaller interface.

- Run the uninstaller from the command prompt, using the `SilentUninstall_Win.bat` script.
- There are no options with silent uninstallation.

When you run a silent installation, the `SilentUninstall_Win.bat` script and `SilentUninstall_Win.txt` configuration file are copied to the `SUP_HOME\Uninstaller` directory. If you did not run a silent installation, you must:

- Copy those files to the location above from the Sybase Mobile SDK installation media root directory.

Note: The Sybase Mobile SDK uninstaller can only uninstall SDK components. The Unwired Platform Runtime Runtime requires a different uninstaller for the server components.

1. *Planning a Silent Uninstallation*

Move and modify the `SilentUninstall_Win.bat` file.

2. *Running a Silent Uninstallation*

Run the `SilentUninstall_Win.bat` script from a command prompt.

Planning a Silent Uninstallation

Move and modify the `SilentUninstall_Win.bat` file.

- Move the `SilentUninstall_Win.bat` to a temporary location outside of the Sybase Mobile SDK installation tree.

For example, `C:\temp`.

Note: The current location of the `SilentUninstall_Win.bat` file should be the `SUP_HOME\Uninstaller` directory, where either a silent installation placed it or you copied it earlier.

2. Use a text editor to open the `SilentUninstall_Win.bat` file, and change the line beginning with `cd` as follows.

Line before change:

```
cd /d %~dp0
```

Line after change:

```
cd /d SUP_HOME\Uninstaller
```

Where `SUP_HOME` is the complete path to the Sybase Mobile SDK installation directory.

Running a Silent Uninstallation

Run the `SilentUninstall_Win.bat` script from a command prompt.

Prerequisites

1. Shut down the same processes on the target host as if you were running the installer manually. See the chapter in this guide that covers the type of installation you are automating.
2. Prevent backups and virus scans from interfering with the uninstallation. You can either exclude the Unwired Platform installation directory from backups and virus scans, or temporarily disable them.
3. Run the uninstallation script as an administrator on Windows 7 and Windows Server 2008 R2.

Task

1. On the host where you want to run a silent uninstallation, confirm that the `SUP_HOME\SUP_HOME\Uninstaller` directory contains the correct version of the `SilentUninstall_Win.txt` configuration file that you modified for a particular uninstallation type.
2. From a command prompt on the installation target host, navigate to the directory to which you moved the `SilentUninstall_Win.bat` file and launch the silent uninstallation script:

```
SilentUninstall_Win.bat
```

3. Check for errors in `SUP_HOME\InstallLogs\SDKUninstall.log`.
4. Delete any folders and files remaining in the Sybase Mobile SDK installation directory, if the uninstaller could not remove them.

If you cannot delete the Sybase Control Center installation directory (C:\Sybase\
\SCC-X_X by default), see *Troubleshooting Uninstallation*.

5. Restart the system.

Restart is necessary to delete folders and files remaining in the Unwired Platform installation directory.

6. Repeat these steps on different servers for each uninstallation you are automating.

CHAPTER 6 **Troubleshooting**

Determine the cause of common problems and apply the recommended solution.

Updating the Database Connection Profile

Due to JDBC driver location changes, beginning in Sybase Unwired Platform version 2.1. ESD #3, the existing database connection profile may fail to ping/connect with this exception:

```
java.lang.ClassNotFoundException:  
com.sybase.jdbc3.jdbc.SybDriver.
```

If you see this error, change the JDBC driver location. For example, for a SQL Anywhere® connection profile:

1. In Enterprise Explorer, right-click the database connection profile, and select **Properties**.
2. In the left pane, select **Sybase ASA Connection Properties**.
3. Click the upper-right triangle button to invoke the Edit Driver Definition dialog.
4. Select the **Jar List** tab, and select the driver file entry that contains the incorrect JDBC driver file path, then click the **Edit JAR/Zip** button to invoke the Select the file dialog.
5. Click **Look in** to specify the path. For example: `SUP_HOME\Unwired_WorkSpace\\Eclipse\sybase_workspace\framework\eclipse\plugins\com.sybase.jconnect_7.0.0.201211301842\lib`.
6. Click **OK** to complete the driver definition location change.
7. Click **OK** to complete the connection profile properties change.

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.

Documentation Roadmap for Sybase Unwired Platform

Sybase Unwired Platform documents are available for administrative and mobile development user roles. Some administrative documents are also used in the development and test environment; some documents are used by all users.

See *Documentation Roadmap* in *Fundamentals* for document descriptions by user role.

Check the Sybase® Product Documentation Web site regularly for updates: <http://sybooks.sybase.com/sybooks/sybooks.xhtml?id=1289&camp;c=firsttab&camp;a=0&camp;p=categories>, then navigate to the most current version.

APPENDIX A **Installation Directory Reference**

Use the information in this topic to locate the libraries you need with different API sets and device platforms.

The following table shows the top level subdirectories created when you install Sybase Mobile SDK.

By default, Sybase Mobile SDK components are installed in the `C:\Sybase\UnwiredPlatform\MobileSDKXX` directory. In this Guide, `SUP_HOME` represents the Sybase Mobile SDK installation directory, down to the `MobileSDK-X_X` folder,

Table 3. Sybase Mobile SDK Installation Subdirectories

Directory	Description
<code>_jvm</code>	JVM used by the uninstaller.
<code>Eclipse</code>	Eclipse files for Sybase Unwired Workspace GUI
<code>HybridApp</code>	Libraries supporting Hybrid App applications
<code>HybridApp\API\AppFramework</code>	Hybrid App application framework files
<code>HybridApp\API\Container</code>	JavaScript files supporting Hybrid App applications
<code>HybridApp\API\Container\android</code>	Android-specific APIs for Hybrid App applications
<code>HybridApp\API\Container\blackberry</code>	BlackBerry-specific APIs for Hybrid App applications
<code>HybridApp\API\Container\ios</code>	iOS-specific APIs for Hybrid App applications
<code>HybridApp\API\Container\wm</code>	Windows Mobile-specific APIs for Hybrid App applications
<code>HybridApp\Containers\Android</code>	Android-specific libraries for Hybrid App applications
<code>HybridApp\Containers\BB</code>	BlackBerry-specific libraries for Hybrid App applications
<code>HybridApp\Containers\iOS</code>	iOS-specific libraries for Hybrid App applications

APPENDIX A: Installation Directory Reference

Directory	Description
HybridApp\Containers\wm	Windows Mobile-specific libraries for Hybrid App applications
HybridApp\PackagingTool	Packaging Tool files for Hybrid App applications
InstallLogs	Log files created each time the Sybase Mobile SDK installer is used. Use these logs to troubleshoot installer issues.
JDKx.x.x_x	JDK required by Sybase Mobile SDK components.
licenses	SySAM license file for Sybase Mobile SDK and license files for third-party components included in Sybase Mobile SDK.
MAKit	Mobile Analytics Kit-specific libraries for Hybrid Web Container
ObjectAPI	Libraries supporting Object API applications
ObjectAPI\Android	Android-specific files for Object API
ObjectAPI\apidoc	Reference documentation for Object API
ObjectAPI\BB	BlackBerry-specific files for Object API
ObjectAPI\DOE	Libraries supporting Object API applications that connect to SAP Data Orchestration Engine (DOE)
ObjectAPI\DOE\Android	Android-specific files using Object API with DOE
ObjectAPI\DOE\iOS	iOS-specific files using Object API with DOE
ObjectAPI\DOE\Win32	Win32-specific files using Object API with DOE
ObjectAPI\DOE\WM	Windows Mobile-specific files using Object API with DOE
ObjectAPI\iOS	iOS-specific files for Object API
ObjectAPI\Utils	Utilities supporting Object API applications
ObjectAPI\Win32	Win32-specific files for Object API
ObjectAPI\Win32\UltraLite	Win32 libraries for Object API applications using UltraLite database on device
ObjectAPI\WM	Windows Mobile-specific files for Object API

APPENDIX A: Installation Directory Reference

Directory	Description
ObjectAPI\WM\PocketPC	Windows Mobile-specific files for Object API on Pocket PC
ObjectAPI\WM\Smartphone	Windows Mobile-specific files for Object API on Smartphone
ObjectAPI\WM\Ultralite	Windows Mobile libraries for Object API applications using UltraLite database on device
OData	Libraries supporting OData applications
OData\Android	Android-specific files for OData
OData\BB	Blackberry-specific files for OData
OData\iOS	iOS-specific files for OData
sapjco	SAP Java Connector files
ThirdParty	License terms of third-party components included in Sybase Mobile SDK.
Uninstaller	Sybase Mobile SDK uninstaller.
MobileWorkSpace	Sybase Unwired WorkSpace development environment.

APPENDIX A: Installation Directory Reference

Index

D

- database connection profile
 - connecting to Unwired Server on same host 20
 - connecting to Unwired Server remotely 21
 - updating 35
- documentation roadmap 37

G

- generating
 - served licenses 7
 - unserved licenses 6
- getting started 1

H

- host IDs
 - determining 2
 - lmutil utility 2

I

- installation directories 39
- installing Sybase Mobile SDK 13

L

- license deployment models
 - comparison of 3
 - recommendations 3
- license file
 - locating information 9
 - obtaining 1
- licenses
 - license files 11
 - models 1
 - obtaining 1
 - recommendations for license models 3

P

- ports, communication
 - SySAM license server 11

- prerequisites 1
- protecting the installation 22

R

- recommendations
 - license models 3

S

- served license
 - model 1
- served licenses 7
- silent installation 29
 - configuration file 30
 - planning 30
 - running 30
- silent installation, upgrade, or uninstallation 29
- silent uninstallation 31
 - planning 31
 - running 32
- silent upgrade 29
 - planning 30
- SPDC
 - generating served licenses 7
 - generating unserved licenses 6
- Sybase Software Asset Management for licenses 1
- SySAM license server 1
 - communication port 11

T

- troubleshooting 35

U

- uninstalling 27
 - silently 31
- unserved license
 - model 1
- unserved licenses 6
- updating database connection profile 35
- upgrading 25

Index

V

verifying the installation 20

 Sybase Mobile SDK installed remotely 21

Sybase Mobile SDK on same host as Unwired
Server 20