Saber View Installation Guide

Version E-2010.09, September 2010

SYNOPSYS®

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Contents

Contents

Installing Saber View

This document contains specific information to prepare for and verify installation of Saber View.

This document includes the following sections:

- Preparing for Installation
- Synopsys Common Licensing (SCL)
- Installing the Software
- Verifying the Installation
- Uninstalling Saber View
- Customer Support

Important: Saber View is functional starting from Saber B-2008.09-SP2 release with Saber Harness component installed.

The installation instructions in this document are the most up-to-date available at the time of production. For the latest installation information, see Saber release notes or documentation on SolvNet at http://solvnet.synopsys.com/.

Preparing for Installation

The following points are prerequisites for the installation process.

- If you have not already done so, retrieve your license keys from the SmartKeys Web page. To access the SmartKeys webpage, click the SmartKeys link from the Download Center.

  For detailed licensing information, see the Synopsys Licensing QuickStart Guide.

- It is essential that your browser supports Scalable Vector Graphics (SVG) and is enabled for Saber View to render and display netlists. If your browser does not support SVG, download an SVG Viewer browser plug-in from http://www.adobe.com/svg/viewer/install/.

- *Windows users:* You must have administration privileges for installing and uninstalling the tool. In addition, you must close all running Saber applications (Sketch or Saber) before starting any Saber installation processes on Windows.

- Verify that you have adequate disk space for installing Saber View.

- Close any open Saber applications before proceeding with the installation.

- Ensure that you have Saber View Version 2010.2.x.x or higher.

- Install Microsoft .NET Framework 3.5 with SP1 or higher, if not already installed.

- Ensure that the server is set up with the following configuration:

If your server is...	then...
Microsoft Windows Server 2003	- Ensure SP2 or higher is installed with all other available Microsoft Updates. - Ensure IIS 6.0 (IIS 5 Isolation Mode) is installed.
Windows XP Professional	- Ensure SP3 or higher is installed with all other available Microsoft Updates. - Ensure IIS 5.1 is installed.

Important: Contact your system administrator in case you have any issues installing the recommended Microsoft software.

Synopsys Common Licensing (SCL)

Synopsys Common Licensing (SCL) provides a single method of obtaining licenses used by all Synopsys tools. SCL reduces licensing administration complexity, minimizing the effort you expend in installing, maintaining, and managing licensing software for Synopsys tools.

Note: It is recommended that you download and install the latest version of SCL. To download the latest version of SCL, click "Synopsys Common Licensing" from the Download Center.

The following sections describe:

- Installing, Administrating, and Troubleshooting SCL
- SCL Documentation

Installing, Administrating, and Troubleshooting SCL

For information on installing, administrating and troubleshooting SCL see the Synopsys Licensing QuickStart Guide. The Synopsys Licensing Quick Start provides information on Downloading & Installing SCL, and other information that is necessary to administer and troubleshoot SCL.

The Documentation section provides links to the installation readme, release notes, administration guide and the FLEXnet User Manual.

Note: Install a single copy of SCL on your license server to be used with all Synopsys tools. Installation of Synopsys tools and SCL is not order dependent. That is, you can install SCL before or after you install your Synopsys tools. However, you cannot use any Synopsys tools reliant on SCL until you have installed and configured SCL.

SCL Documentation

The Synopsys Common Licensing Installation Notes, Synopsys Common Licensing Release Notes, and the Synopsys Common Licensing Administration Guide, are also available in PDF format in the SCL installation directory at `scl_root/docs/scl`.

The FLEXnet End Users Guide and FAQ is also available in PDF format in the SCL Installation directory at `docs/flexlmman`.

Installing the Software

This section covers the following topics:

- Installing the Autorendering Software
- Installing WebUI2
- Initializing Windows 2003 Server for Configuration (Windows 2003 Server Users Only)
- Configuring the Autorendering Software for the Web

Installing the Autorendering Software

To install Saber View:

1. Download the Saber release to a temporary directory. You can obtain the latest Saber download instructions from the Release Library, which is accessible through SolvNet.

2. Select the Saber Harness option for installation while installing Saber, in addition to other typical Saber components.

   For the latest installation information, see the Saber Installation Guide at: http://www.synopsys.com/Support/LI/Installation/Pages/default.aspx.

   Note: C:\Synopsys\Saber*<version>* is the default install location unless you choose a different location.

3. Extract the contents of `SaberView_2010.2.x.x` available from the location
   <Saber_Install_path>\Synopsys\Saber*<version>*\Saber\saberview\ to a temporary location.

4. Navigate to the *<temporary_location>*\v2009.2.x.x\webUI2.2009.2 folder and double-click `install.bat`. The Saber View installer performs the following tasks:

   - Creates a program installation directory, C:\Program Files\TTA\Netlist.

   - Creates the following icons on the desktop:

- WebUI: Web-Based Netlist Converter Application (Admin use only)

- Netlist: Launches the Saber View rendering application (Users)

Installing WebUI2

To install WebUI2 on a Windows 2003 server:

1. Create a new folder inside the wwwroot directory in the default IIS installation folder C:\inetpub\wwwroot. For example, C:\inetpub\wwwroot\NetlistConverter.

2. Navigate to the *<temporary_location>*\v2009.2.x.x\webUI2\ folder and extract the contents of `WebUI2.zip` file to C:\inetpub\wwwroot\NetlistConverter.

To install WebUI2 on a Windows XP machine, navigate to the *<temporary_location>*\v2009.2.x.x\webUI2\ folder and extract the contents of `WebUI2.zip` file to C:\inetpub\wwwroot\NetlistConverter.

Initializing Windows 2003 Server for Configuration (Windows 2003 Server Users Only)

To initialize Windows 2003 Server for configuration:

1. Click **Start > Settings > Control Panel > Administrative Tools > Internet Information Services (IIS) Manager**. The Internet Information Services (IIS) Manager window is displayed:
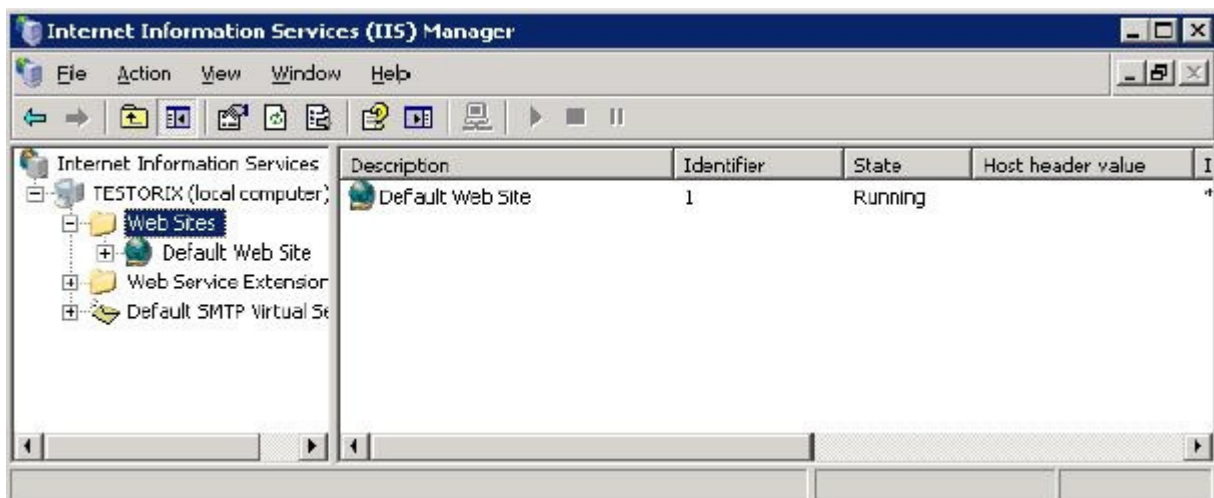
2. Navigate and expand the tree in the left panel to the location **Internet Information Services > SERVERNAME > Web Sites**, then right-click **Default Web Site**, and choose **Properties**. The Default Web Site Properties dialog box is displayed.

3. Click the **Services** tab and select the **Run WWW Service in IIS 5.0 isolation mode** check box.

4. Navigate and expand the tree in the left panel to the location **Internet Information Services > SERVERNAME > Web Service Extensions**, then right-click on **ASP.NET v2.0.xxxxx** from the list, and click **Allow**.
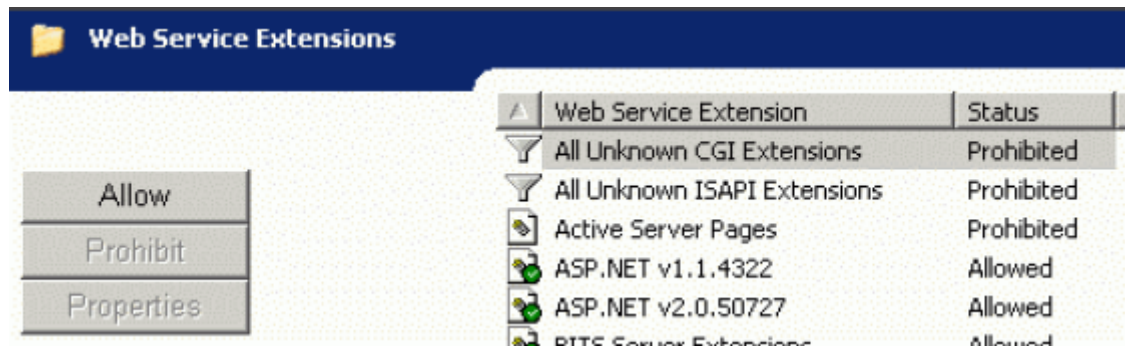
5. Navigate and expand the tree in the left panel to the location **Internet Information Services > SERVERNAME**, then right-click **Web Sites**, and choose **New > Web Site**. The Web Site Creation Wizard dialog box is displayed.

6. Enter the name of the web site and click **Next**.

7. Depending on the network infrastructure and server configuration, provide the following details and click **Next**:

Field	Value
Enter the IP address to use for this Web Site	For example, 10.x.x.x.
TCP port this Web site should use (Default: 80)	Use default: 80
Host header for this Web site (Default: None)	For example, www.netlistconverter.com

8. Enter the path where the web site files are located and click **Next**. For example, *c:\inetpub\wwwroot\NetlistConverter*.

9. Select the **Read** and **Read Scripts (such as ASP)** check box, then click **Next**, and then click **Finish**.

Configuring the Autorendering Software for the Web

To configure the autorendering software for the web:

> **Note:** Windows 2003 Users should first complete the Initializing the Windows 2003 Server procedure before continuing with this procedure.

1. Click **Start > Settings > Control Panel > Administrative Tools > Internet Information Services**. The Internet Information Services window is displayed:
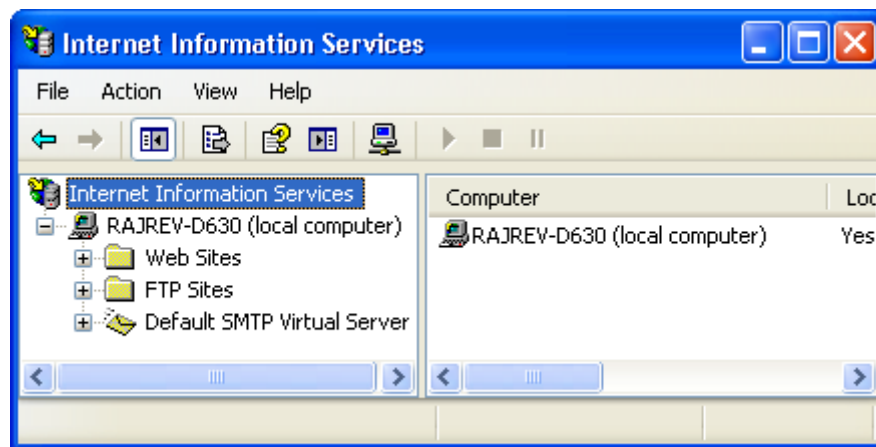
2. Navigate and expand the tree in the left panel to the location **local computer > Web Sites**, then right-click **Default Web Site**, and choose **Properties**. The Default Web Site Properties dialog box is displayed:

3. Click the **Home Directory** tab and configure the options as per the following table:

Option	Value
Local Path	Validate the local path. This path is configured during the IIS installation. For example, "C:\inetpub\wwwroot".
Read	All check boxes except for "Read" should be deselected.
Application name	Enter the application name. For example, "NetlistConverter"
Execute Permissions	Set to "Scripts only"

4. Click the **Documents** tab and then click the **Add** button. The Add Default Document dialog box is displayed.

   a. Enter "`default.aspx`" in the Add Default Document Name dialog box and click **OK**. The document type is added to the default document list.

   b. Use the ⬆ button and move the newly entered document type to the top of the list.

5. Click the **ASP.NET** tab and set the **ASP.NET version** to "2.0.xxxxx".

6. Click the **Directory Security** tab and then click the **Edit** button under the **Anonymous access and authentication control** group. The Authentication Methods dialog box is displayed:
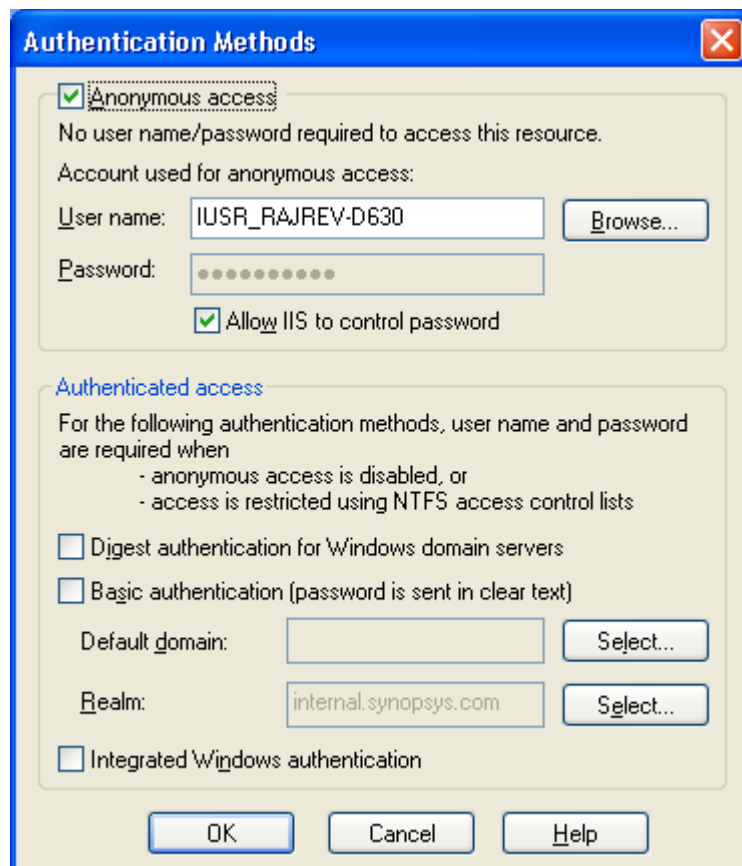
7. Deselect the **Integrated Windows authentication** option and click **OK**.

8. Click the **HTTP Headers** tab and then click the **File Types** button. The File Types dialog box is displayed.

The following file types must be available in the File Types dialog box for the SVG to render the netlist correctly:

File Type	Content Type (MIME)
`.jsz`	application/octet-stream
`.svg`	image/svg+xml

If the file types are already listed in the File Types dialog box, click **Cancel** and proceed with Step 9 else continue with the following steps to add the file types to the File Types list:

a. Click the **New Type** button. The File Type dialog box is displayed.

b. Enter the **Associated extension** value. For example, "`.jsz`"

c. Enter the **Content Type (MIME)** value. For example, "application/octet-stream"

d. Click **OK** to add file type to the File Types list.

Repeat steps a through d to add the `.svg` file type to the File Types list.

e. Click **OK** to accept the specified file types and close the File Types dialog box.

9. Click **OK** to close the Default Web Site Properties dialog box.

This section covers the following topics:

- Setting and Validating the ASPNET Account Permissions
- Setting and Validating Permissions on Files and Folders
- Setting and Validating COM Component Services
- Assigning Permissions to Users, Files, and Folders

Setting and Validating the ASPNET Account Permissions

To validate the existence of an ASPNET account and its permissions:

1. Click **Start > Settings > Control Panel > Administrative Tools > Computer Management**. The Computer Management window is displayed:
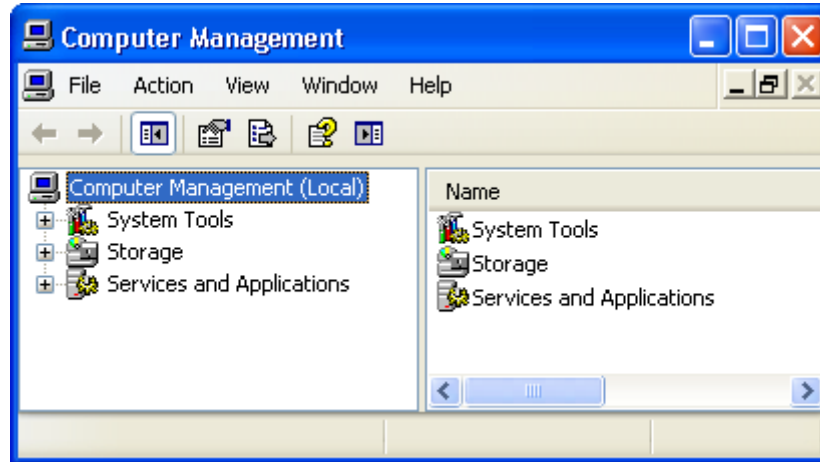
2. Navigate and expand the tree in the left panel to the location **System Tools > Local Users and Groups > Users**. If an ASPNET account already exists, it is displayed in the right panel in the Computer Management window.
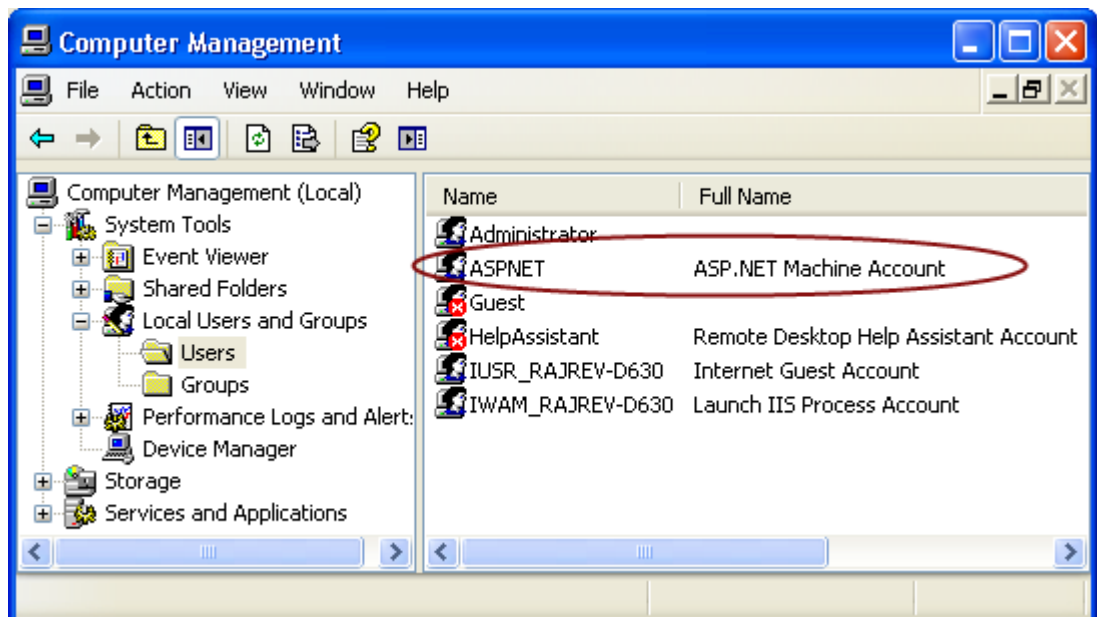
3. If an ASPNET account does not exist, create a new account and update the IIS metabase as follows:

   a. Click **Start > Run**, then type *cmd*, and press the **Enter** key. A Command Prompt window is displayed.

   b. Execute the following commands to create a new ASPNET account and update the IIS metabase:

   ```
   c:
   c:\
   cd %SYSTEMROOT%\Microsoft.NET\Framework\v2.0.50727
   aspnet_regiis.exe -i
   exit
   ```

   Result: A new account ASPNET with updated IIS metabase is shown in the right panel of the Computer Management window.

Setting and Validating Permissions on Files and Folders

Permissions on specific files and folders need to be set before invoking Saber View. The following table lists the specific files and folders for which permissions need to be set:

| File / Folder	Location	User	Permissions	Purpose
customer.xml	c:\program files\TTA\Netlist\Kernel_config	ASPNET	Write - Allow	Stores project, user, and other information.
Kernel folder	c:\program files\TTA\Netlist\Kernel	ASPNET	Read - Allow Write - Allow	Stores project data.
batch folder	c:\program files\TTA\Netlist\batch	ASPNET	Write - Allow	Stores batch output. The location of the folder can be changed in config.xml
cache folder	c:\inetpub\wwwroot\SaberView\cache	ASPNET	Read - Allow Write - Allow	Stores cache files send to the client. If this folder does not exist, it must be created.
Temp folder	c:\WINDOWS\Temp	ASPNET	Read - Allow Write - Allow	The technology XMLSerialization requires permissions on the windows temp folder. The location can be found in System Variables, variable TEMP.

See Assigning Permissions to Users, Files, and Folders.

Setting and Validating COM Component Services

To validate the existence of an ASPNET account and its permissions:

1. Click **Start > Settings > Control Panel > Administrative Tools > Component Services**. The Component Services window is displayed:
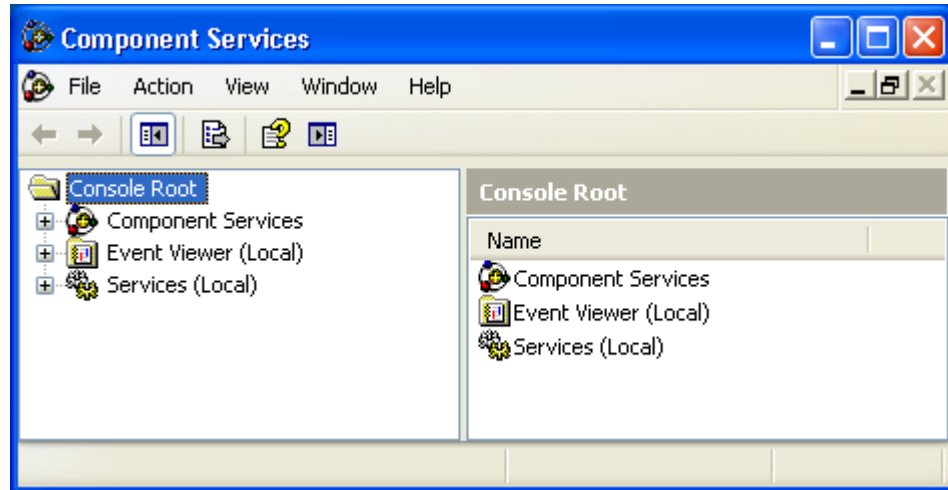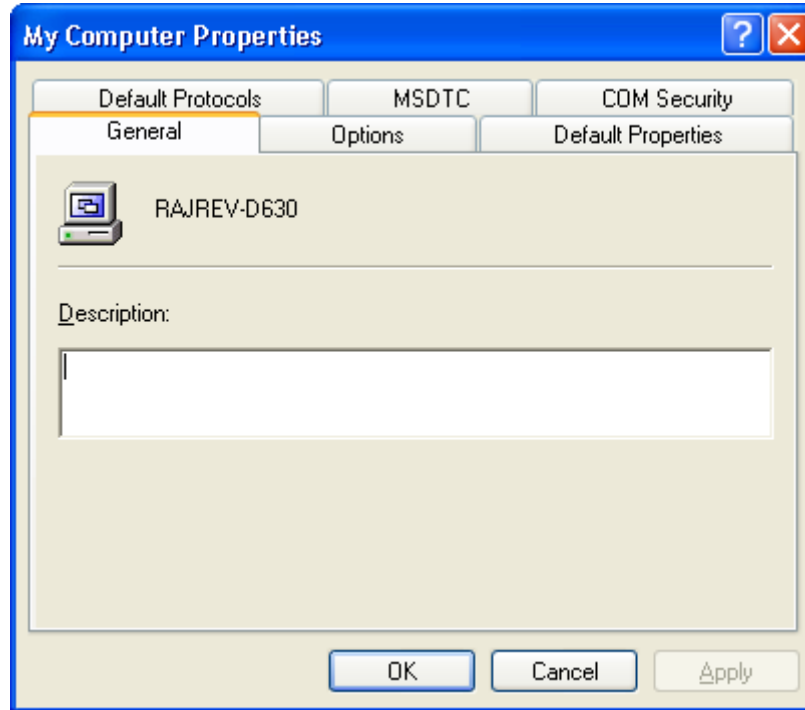
2. Navigate and expand the tree in the left panel to the location **Console Root > Component Services > Computers**, then right-click **My Computer** and choose **Properties**. The My Computer Properties window is displayed:

3. Click the **Default Properties** tab and configure the options as per the following table:

Option	Value
Enable Distributed COM on this Computer	Set to "Checked"
Default Authentication Level	Set to "Connect"
Default Impersonation Level	Set to "Identify"

4. Click the **COM Security** tab, and assign permissions to users as per the following table:

Group	Users	Permissions
Access Permissions	Anonymous Logon	Local Access - Allow
		Remote Access - Allow

Group	Users	Permissions
	Everyone	Local Access - Allow Remote Access - Allow
	Interactive	Local Access - Allow Remote Access - Allow
	Network	Local Access - Allow Remote Access - Allow
	System	Local Access - Allow Remote Access - Allow
Launch and Activation Permissions	Anonymous Logon	Local Launch - Allow Remote Launch - Allow Local Activation - Allow Remote Activation - Allow
	Everyone	Local Launch - Allow Remote Launch - Allow Local Activation - Allow Remote Activation - Allow
	Interactive	Local Launch - Allow Remote Launch - Allow Local Activation - Allow Remote Activation - Allow
	Network	Local Launch - Allow Remote Launch - Allow Local Activation - Allow Remote Activation - Allow
	System	Local Launch - Allow Remote Launch - Allow Local Activation - Allow Remote Activation - Allow

See Assigning Permissions to Users, Files, and Folders.

Assigning Permissions to Users, Files, and Folders

To add a user profile and assign permissions to that user for the specific files / folders:

1. Right-click on the file or folder, then choose **Properties**, then select the **Security** tab, and click the **Add** button. The Select Users, Computers, Groups dialog box is displayed:
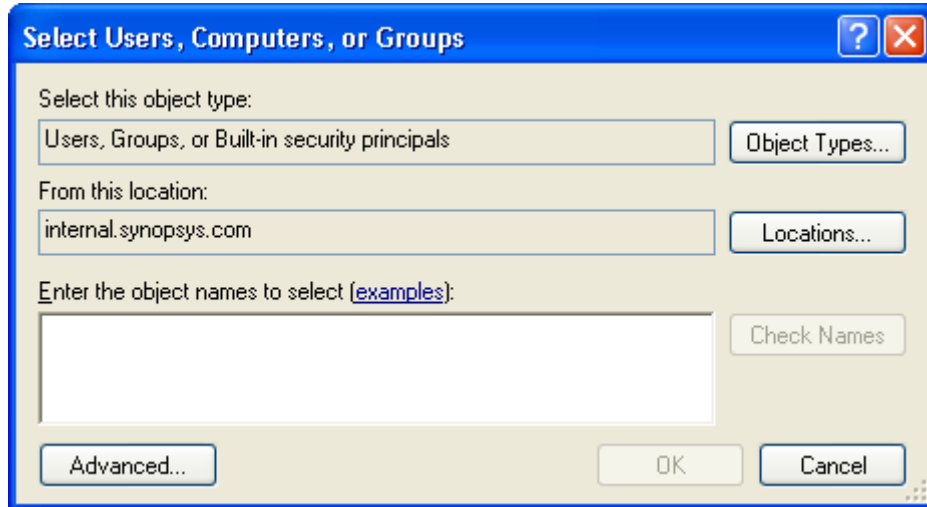
2. Click the **Locations** button, then click **(local computer),** and then click **OK**.

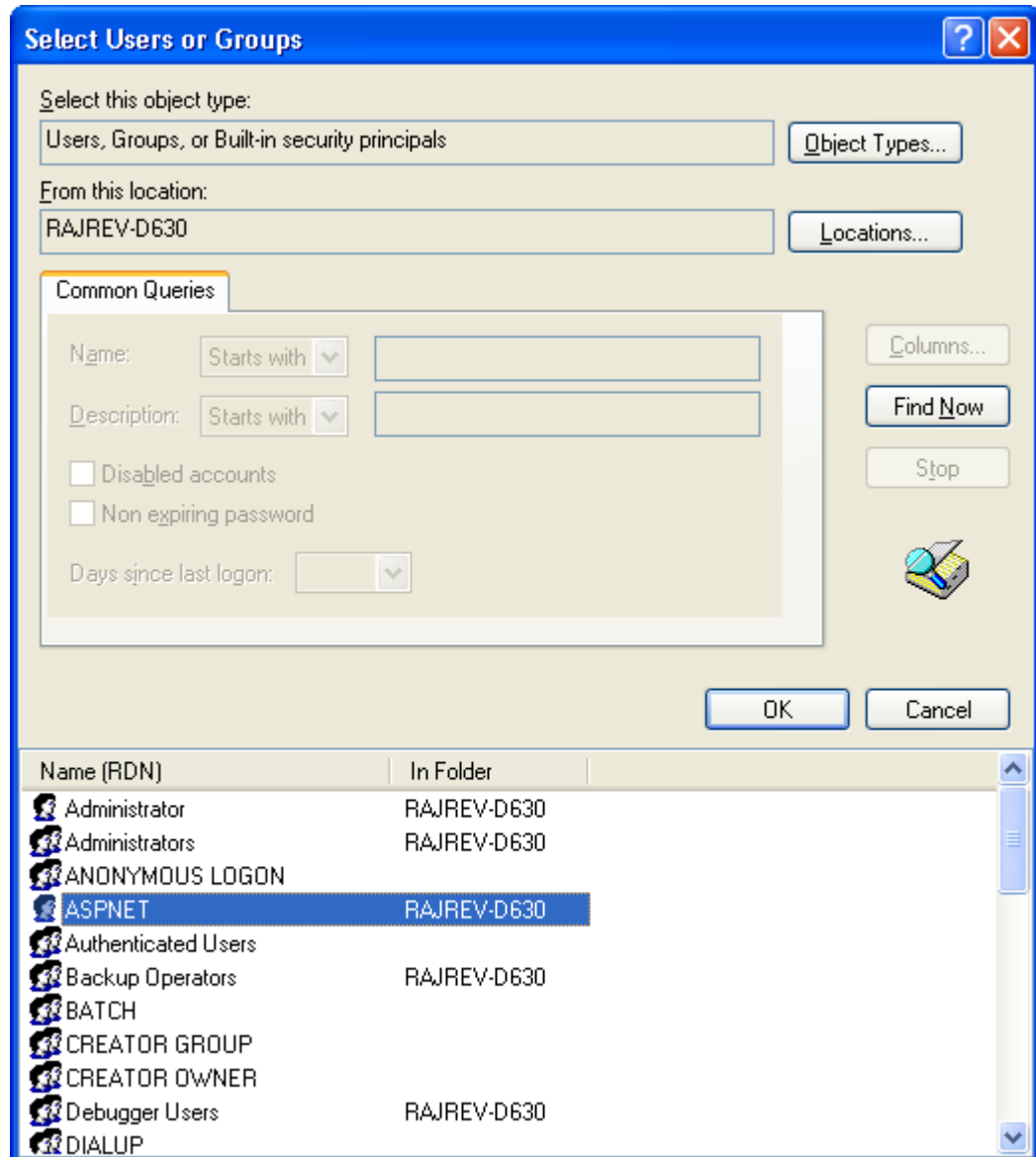3. Click the **Advanced** button and then click the **Find Now** button. A list of user profiles is populated in the bottom panel of the Select Users, Computers, Groups dialog box:
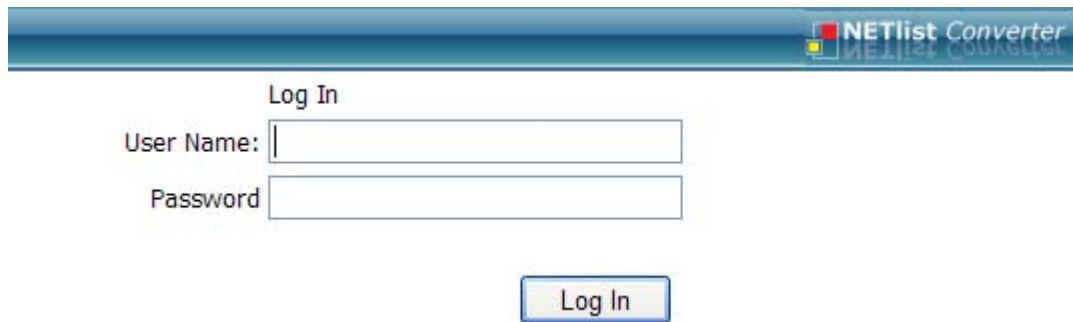

4. Select **ASPNET**, then click **OK** and then click **OK**. The user profile ASPNET is added to the user list in the **Security** tab.

5. Use the **Allow** or **Deny** check box to set the permissions as needed and click **OK**. The permissions are applied to the selected user and the file / folder.

Verifying the Installation

Saber View requires only a single license daemon, `snpslmd`. For additional information, see Installing Synopsys Tools.

To run Saber View:

1. Check that your `SNPSLMD_LICENSE_FILE` or `LM_LICENSE_FILE` variable is set to a valid licensing server. If you do not have a license, contact Customer Support to obtain one.

2. Launch a browser and type the URL *http://localhost* and press the Enter key. The Saber View login page is displayed:

3. Enter the login credentials supplied by Synopsys Technical Support to start using Saber View.

   If you do not have a valid login credentials, contact Customer Support.

Uninstalling Saber View

To uninstall the software, select and delete the Saber View installation folder (`C:\Program Files\TTA\`).

Customer Support

Customer support is available through SolvNet online customer support and through contacting the Synopsys Technical Support Center.

This section covers the following topics

- Accessing SolvNet

- Contacting the Synopsys Technical Support Center

Accessing SolvNet

SolvNet includes an electronic knowledge base of technical articles and answers to frequently asked questions about Synopsys tools. SolvNet also gives you access to a wide range of Synopsys online services, which include downloading software, viewing Documentation on the Web, and entering a call to the Support Center

To access SolvNet:

1. Go to the SolvNet Web page at http://solvnet.synopsys.com.

2. If prompted, enter your user name and password. (If you do not have a Synopsys user name and password, follow the instructions to register with SolvNet.)

If you need help using SolvNet, click Help on the SolvNet menu bar.

Contacting the Synopsys Technical Support Center

If you have problems, questions, or suggestions, you can contact the Synopsys Technical Support Center in the following ways:

1. Open a call to your local support center from the Web by going to http://solvnet.synopsys.com/EnterACall (Synopsys user name and password required).

2. Telephone your local support center.

- North America

    Toll Free: 800-245-8005, or send an e-mail message to saber-hotline@synopsys.com

- Europe

    Central Europe: +49-89-99320-0

    Northern Europe:

    　　　Scandinavia: +46 8 555 202 20

    　　　United Kingdom: +44 (0) 1189 965 1186

Southern Europe:

France: +33 (0) 810 810903

Italy: +39 039 6846 700

Israel: +972-9-9719600

- Asia-Pacific:

China: +8610-68029992

India: 1-800-102-7677

Korea: +82-2-3404-2700

Singapore: +65-62967433

Taiwan: 0800079595

Japan: 03-5746-1117