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Asset Vision 5.0 SP2

Installation

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Industrial^{IT}
Asset Vision 5.0 SP2

Installation

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Appendix A - Terminology

About This Book

General

This manual includes information pertinent to installation and setup of prerequisite third party software, automated and manual installation of Asset Vision Professional, manual installation of Asset Vision Professional, installation of Device Library Wizard, and necessary post-installation setup of Asset Vision Professional. This manual does not include information on site planning, engineering planning, software configuration, network design, etc., which can be found in other manuals.

Asset Vision Professional and other functional area software described in this book is at Asset Vision 5.0 SP2. The installation procedures described in this manual require Windows Administrator privileges.

The security measures described in this document, such as user access, network security, firewalls, virus protection, etc., represent possible steps the user should consider based on a risk assessment for a particular application and installation. This risk assessment, as well as the proper implementation, configuration, installation, operation, administration, and maintenance of all relevant security related equipment, software, and procedures, are the responsibility of the user.

This manual refers, at places, to 800xA System documentation and individual product documentation. Consider the following while referring to these documents in the context of Asset Vision:

- Ignore all the sections and descriptions referring to 800xA specific configuration and operation. For example:
  - Configuration of AC800M controller and its I/O Modules
  - User Interfaces like Plant Explorer Workplace, Operator Workplace etc,.
  - All references to Control Builder M

Relate 800xA user accounts to corresponding Asset Vision user accounts. For example: “800xA Service User” corresponds to “Asset Vision Professional Service User”.

Document Conventions

Microsoft Windows conventions are normally used for the standard presentation of material when entering text, key sequences, prompts, messages, menu items, screen elements, etc.

Warning, Caution, Information, and Tip Icons

This publication includes **Warning**, **Caution**, and **Information** where appropriate to point out safety related or other important information. It also includes **Tip** to point out useful hints to the reader. The corresponding symbols should be interpreted as follows:

Electrical warning icon indicates the presence of a hazard which could result in *electrical shock.*

Warning icon indicates the presence of a hazard which could result in *personal injury.*

Caution icon indicates important information or warning related to the concept discussed in the text. It might indicate the presence of a hazard which could result in *corruption of software or damage to equipment/property.*

Information icon alerts the reader to pertinent facts and conditions.

Tip icon indicates advice on, for example, how to design your project or how to use a certain function

Although **Warning** hazards are related to personal injury, and **Caution** hazards are associated with equipment or property damage, it should be understood that operation of damaged equipment could, under certain operational conditions, result

in degraded process performance leading to personal injury or death. Therefore, **fully comply** with all **Warning** and **Caution** notices.

Terminology

A complete and comprehensive list of terms is included in Industrial IT, 800xA System, Function Description (3BSE038018Rxxxx). A list of terms associated with Asset Vision is provided in Appendix A, Terminology.

Related Documentation

The following is a listing of documentation related to Asset Vision.

Title	Description
Asset Vision Professional 5.0 SP2 Basic Configuration and Operation Manual	This manual provides details about basic configuration of Asset Vision Professional and basic operations that can be performed with Asset Vision Professional.
Asset Vision Professional 5.0 SP2 Advanced Configuration Manual	This document provides greater detail on all areas of usage of Asset Vision Professional. It is intended for advanced usage of Asset Vision Professional covering details such as SNMP and CMMS setup.

Section 1 Pre-installation Setup

Introduction

Asset Vision Professional is an application for managing, configuring and optimizing assets and their performance.

The key functional areas within Asset Vision are:

- Device Management and Fieldbus
- Asset Optimization

The user has access to information from these areas via the Asset Vision Professional Workplace. Traditional engineering functions for device parameterization and configuration are available. In addition, Asset Vision Professional allows the user to have direct access to device documentation, standard operating procedures, drawings etc., depending on how the application has been configured.

The enabling technique for the above is the Aspect Object™ technology.

Prior to the installation of Asset Vision Professional, a set of pre-installation tasks need to be performed. A number of these may already be in place on the target computer, nevertheless it is important to verify that all of the following are correctly set-up prior to installing the Asset Vision Professional software.

All interactions with the PC while meeting Software Requirements must be done using the same local Administrators account. If the local Administrators account has not been created, contact the IT administrator. To determine if the local Administrators account has been created, right-click on My Computer, select **Manage and** open the Users folder under Local Users and Groups. Right-click on the log-in name, and select **Properties**. On the ensuing pop-up, select the Member Of tab. If Administrators is displayed, then a local administrators account has been created.

Asset Vision Professional is best viewed with a screen resolution of **1280x1024** pixels.

Hardware Requirements

For PCs used to run Asset Vision Professional, refer to *Third Party HW Products Verified for Industrial IT System 800xA (3BSE046579)* for a list of hardware.

Hardware Accessories

- ifak PROFIBUS Adapter (is Pro USBx12)
- ifak HART Modem (is HART USB)
- USB to RS232 9-pin convertor from Keyspan (Product Number: *USA-19HS*, Driver Version: 3.4)
- USB Hubs: Digi Hubport / 4c 10-28V DC powered USB 2.0 hub
- RS-232 to RS-485 Converters: Advantech (ADAM) 4520 Rev D2

For installing and configuring the above mentioned products, refer to the corresponding product manuals.

Software Requirements

The following softwares are necessary during the installation of the Asset Vision Professional. Make sure these softwares are handy before the installation.

- Asset Vision Professional license
- Visual Basic installation media
- MS Office 2003 with SP3 or MS Office 2007 SP1, if not installed already
- Is pro multiserver license must be purchased from Ifak System, if PROFIBUS is used.

1.0 Install Microsoft Windows XP with SP2

If Microsoft Windows XP has to be used as the operating system platform, then install Windows XP Professional with Service Pack 2 as per instructions from Microsoft.

The U.S. English version of the operating system is required.

The recommended Internet Explorer version is 7.0.

2.0 Microsoft Office 2003/2007 Applications

Microsoft Excel and Microsoft Word are used in reporting and data import functions within Asset Vision. Install Excel and Word from the Office 2003 suite of applications from Microsoft with service pack SP3 or from Office 2007 with service pack SP1. Installation instructions for the these two can be found in the corresponding Microsoft Office 2003 or Office 2007 installation manuals from Microsoft. If required, other applications from the Microsoft Office 2003/2007 suite can be installed.

3.0 Antivirus

Install an Antivirus software prior to installing Asset Vision. Regularly updated antivirus definitions from the corresponding antivirus vendor helps in increased security.

4.0 System Backup Software

It is recommended that the system backup software, such as Norton Ghost from Symantec Corporation, is installed. This is useful in taking complete backup of the hard drive(s) with a functional Asset Vision installation. A functional system can then be completely recovered through the backup taken. The state of the recovered system will be same as the state of the system at the time of taking the backup. Installation instructions for the backup software should be obtained from the software vendor.

5.0 Computer Properties Set-up

Some of the Windows configurations, such as, Computer Name, Workgroup that this computer belongs to, Time Zone and Daylight Savings, and Regional Options, are automatically performed by the System Installer. The Asset Vision System Installer automatically installs the additional software and components required for a functional Asset Vision.

5.1 Virtual Memory Configuration

A correct configuration of virtual memory can enhance performance considerably. As a rule of thumb the size of **pagefile.sys** should be physical RAM x 2.5 or at least 1.5 GB. As another rule of thumb, if one more disk or partition exists, put the **pagefile.sys** there. After installation and starting up the nodes, use standard Windows procedures, via Windows Task Manager, to verify that the virtual memory being used is less than the configured value of the virtual memory.

5.2 Miscellaneous Windows Settings

To prevent the CPU intensive redrawing of the window, disable Show Window Contents, while dragging in the Display Properties dialog.

5.3 Disable Energy Saver and Screen Saver

It is recommended NOT to have any Energy Saving and screen saver functionality activated on Asset Vision Professional nodes, as this might lead to longer reaction times in case of an emergency. If the workstation BIOS has an Energy Saver configuration, configure it on a Node basis. The Windows energy saving data is user dependent.

The energy saving setting may be accessed in two ways. The BIOS setup is available whenever the server or workstation is powered up. It may also be accessed via Power Options in Windows Control Panel. The screen saver may be turned off in the Display Properties option in Windows Control Panel.

5.4 Disable Web Browser Popup Blocker

Some third party software may offer a web browser popup blocker. If a popup blocker is being used on a web browser, disable it during use of these web based applications.

5.5 Disable Virus Checking Software

If virus checking software is installed, disable it until after Asset Vision Professional is installed and configured (post installation).

5.6 Disable Automatic Updates

Ensure that all Windows Operating System Service Packs mentioned are installed in order to access this functionality.

1. If the selected Windows Operating System comes with an Automatic Updates component, it must be disabled. Select:

   Start > Control Panel > Automatic Updates

2. Enable Turn off Automatic Updates and click **OK**.

Make sure that all the pre-requisite softwares mentioned above are properly installed, and the computer meets the minimum hardware requirements to take maximum advantage of Asset Vision Professional. Asset Vision Professional may not function effectively if the pre-requisites are not met.

Section 2 Setup of Asset Vision System Installer

Installing Asset Vision System Installer

The automated installer for Asset Vision configures Windows and installs the necessary software for Asset Vision. This section describes in detail the installation steps for installing Asset Vision.

When the Asset Vision DVD is inserted into the drive, a screen similar to the one shown in Figure 1 is automatically launched. Alternately, the Asset Vision System Installer is located in the 'System_Installer' folder on the DVD. Double-click on setup.exe to start the installation of Asset Vision System Installer.

The Asset Vision System Installer user account is not created at this point. Login as a user having Administrator rights.

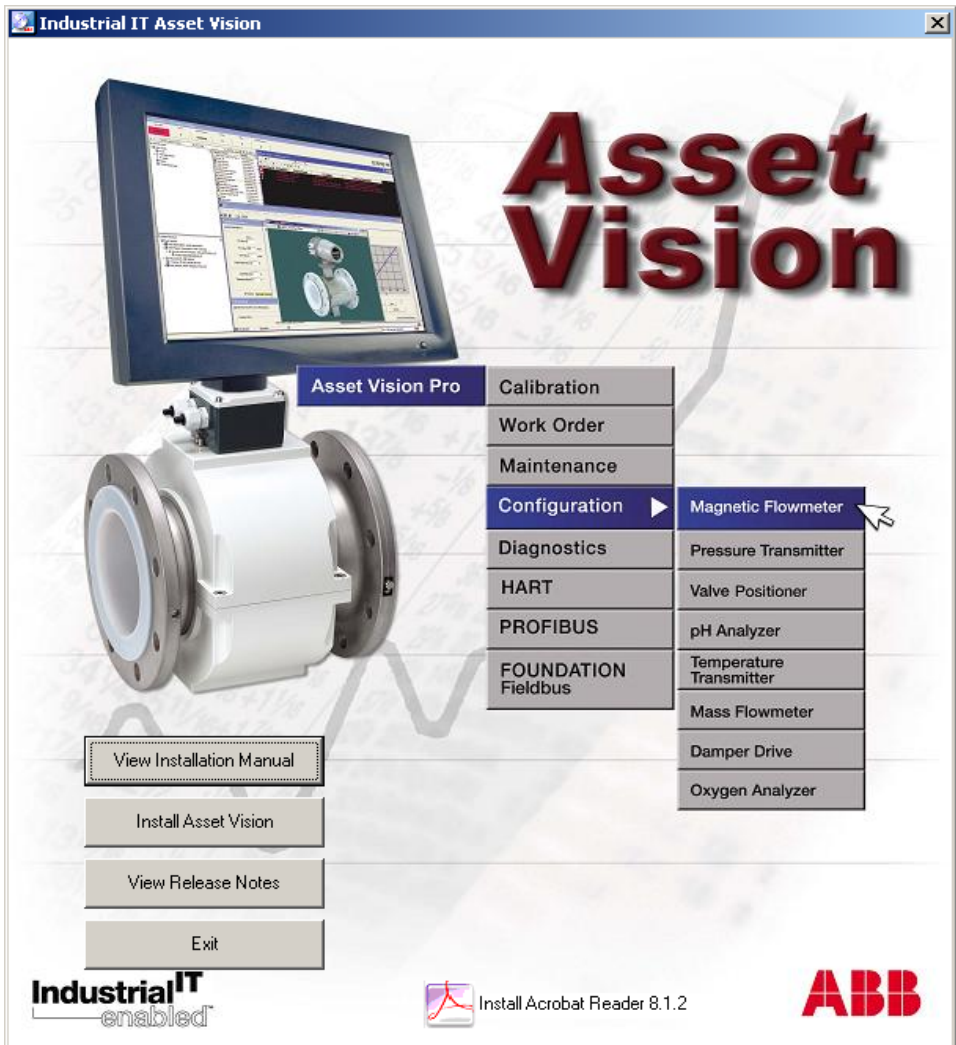
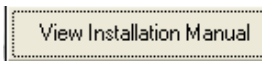
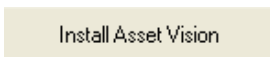
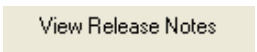


Figure 1. Industrial IT Asset Vision Professional Splash Screen

Table 1. Button Descriptions

Button	Description
	Clicking this button opens the Asset Vision Professional Installation Manual.
	Clicking this button opens ABB Asset Vision Installer Installation Wizard.
	Clicking this button opens the Asset Vision Professional 5.0 SP2 Release Notes.
	Clicking this button closes the splash screen.

To open Installation Manual and Release Notes, Adobe Acrobat Reader 8.1.2 must be installed. If the reader is not already installed, click **Install Acrobat Reader 8.1.2** and perform the on screen instructions to install the reader.

clicking on **Install Asset Vision**, a welcome screen similar to the one shown in Figure 2 appears, listing "ABB Asset Vision System Installer" as the software about to be installed. By default, the check box next to it is selected. Click **Install**.

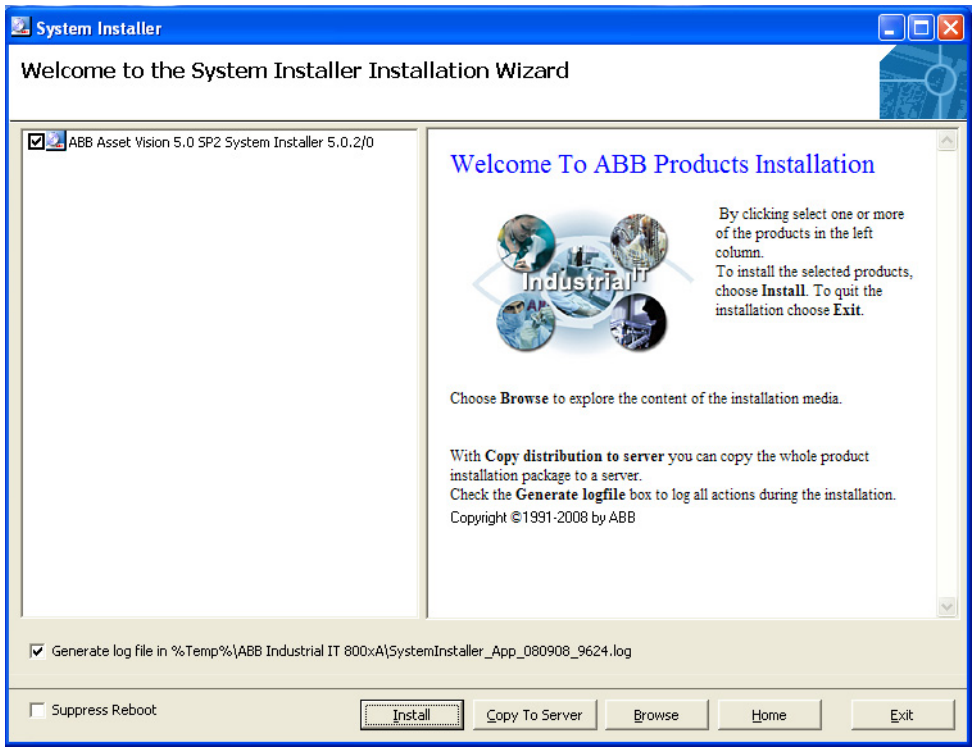


Figure 2. Asset Vision System Installer Welcome Screen

The wizard installs all the necessary system installer components. If the Windows Installer 3.1 is not installed, then a screen similar to the one shown in Figure 3 is displayed.

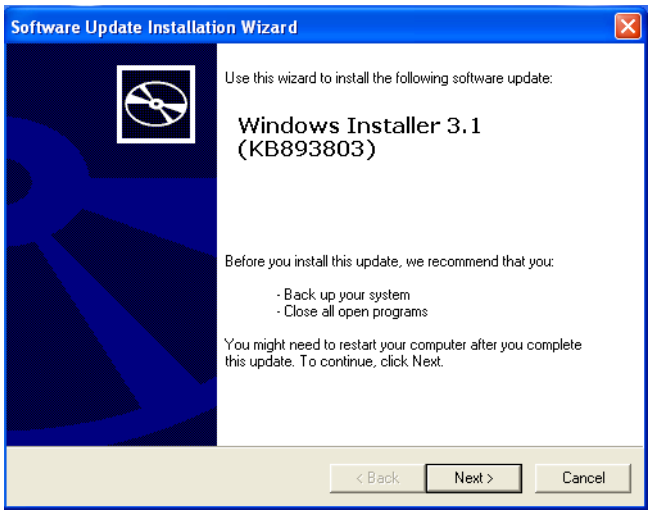


Figure 3. Asset Vision Windows Installer Wizard

Click **Next**. A license agreement screen is displayed as shown in Figure 4.

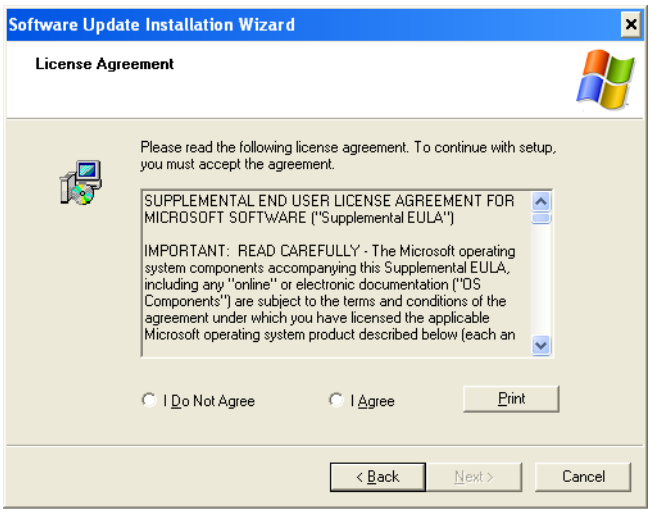


Figure 4. License Agreement

Read the license agreement carefully and select **I Agree**, and click **Next**.

If a pop-up window is displayed for stopping and starting some services, click **continue**.

The installation of Windows Installer is complete and a message similar to the one shown in Figure 5 is displayed.

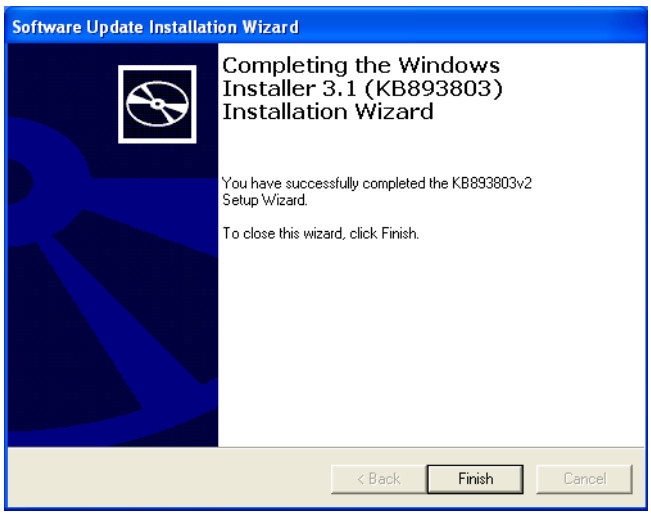


Figure 5. Asset Vision System Installer Complete

Click **Finish**.

Now, the Asset Vision System Installer checks if the Dot Net framework 3.5 is installed. If the dot net framework 3.5 is not installed, then the installation starts automatically.

The Dot Net framework 3.5 installation might take several minutes depending on the PC hardware capabilities.

The license agreement screen similar to the one shown in Figure 6 is displayed.

Figure 6. Dot Net License Agreement

Select **I have read and ACCEPT the terms of the License Agreement** and click **Install**.

Dot Net framework 3.5 is installed and a message similar to the one as shown in Figure 7 is displayed.

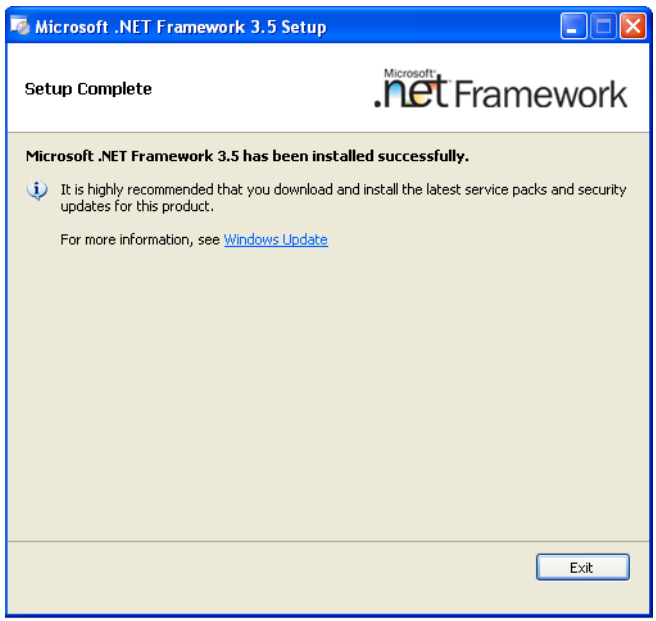


Figure 7. Dot Net Framework 3.5 Installation Complete

Click **Exit**.

The installation of Asset Vision System Installer starts. A screen similar to the one shown in Figure 8 is displayed.

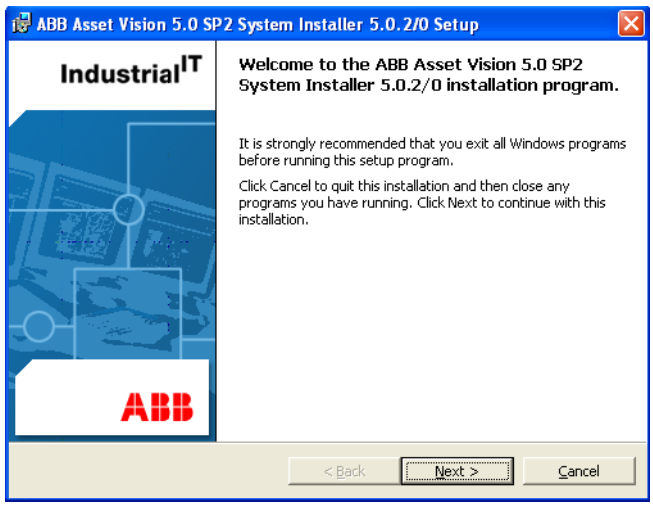


Figure 8. Asset Vision System Installer Setup Welcome Screen

Click **Next**.

The license agreement screen similar to the one shown in Figure 9 is displayed.

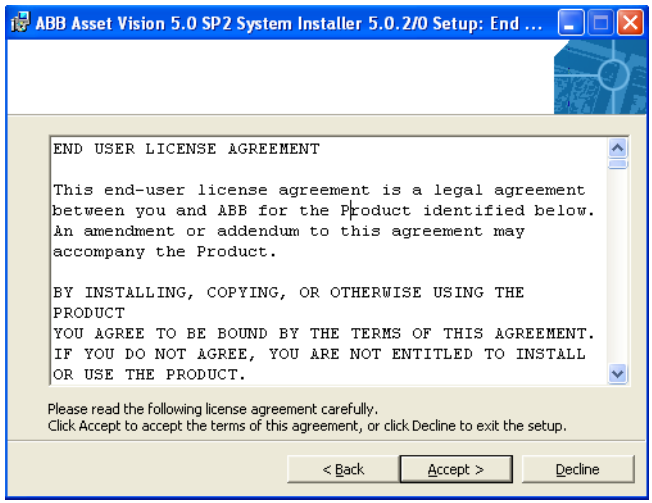


Figure 9. System Installer License Agreement

Click **Accept**. A registration form is displayed as shown in Figure 10, asking for the user and company name.

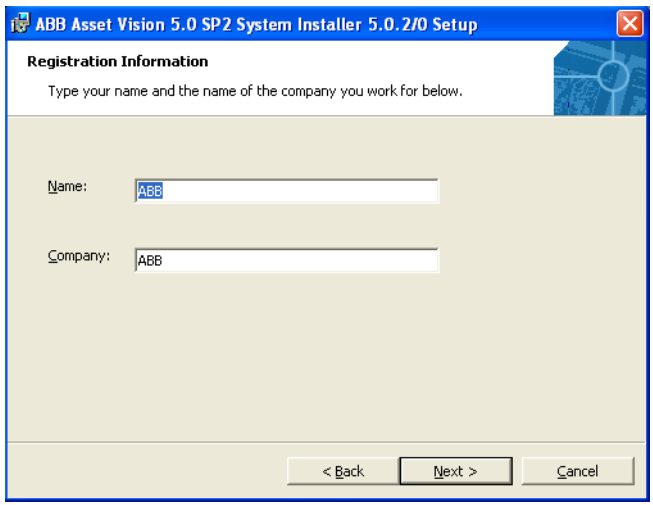


Figure 10. System Installer Registration Form

Enter the user and company name in the respective fields and click **Next**. An installation type screen, similar to the one shown in Figure 11 is displayed.

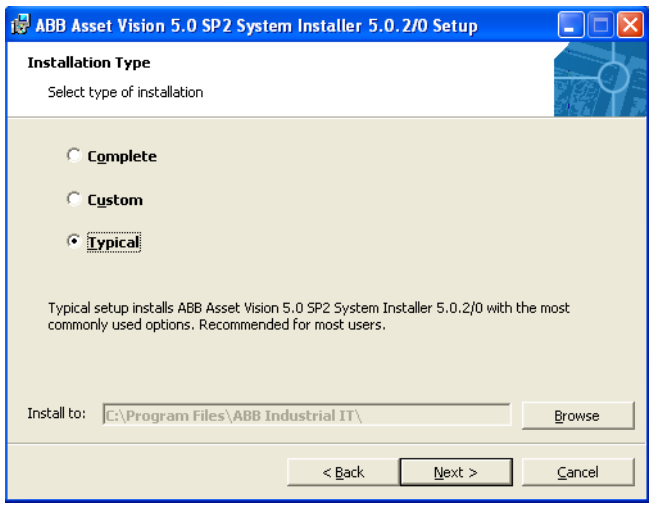


Figure 11. Asset Vision Installation Type

Click **Next**. The Asset Vision System Installer is ready to be installed and waits for the command from the user.

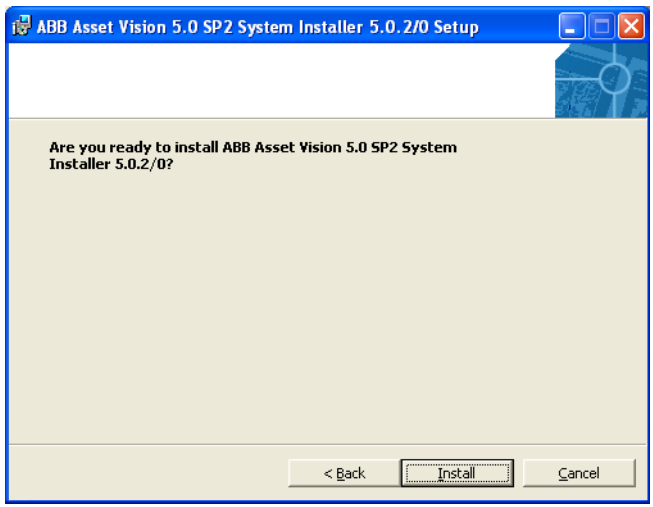


Figure 12. Asset Vision System Installer Ready

Click **Install**.The installation of Asset Vision System Installer is in progress and a screen similar to the one shown in Figure 13 is displayed.

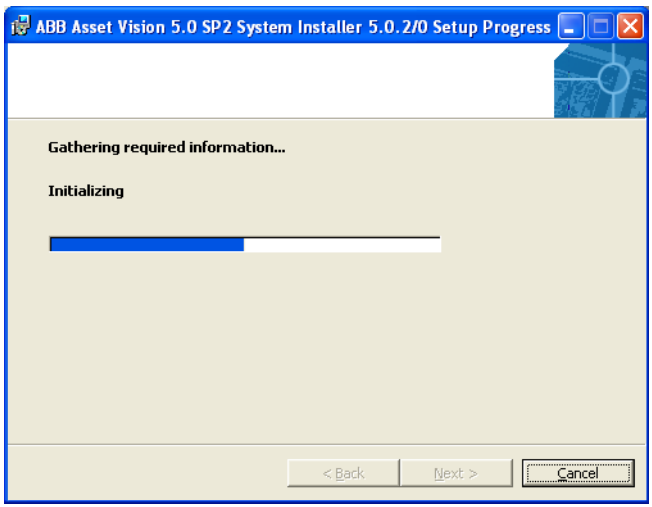


Figure 13. Asset Vision System Installer Progress Bar

After the system installers installation is complete, a message similar to the one shown in Figure 14 is displayed.

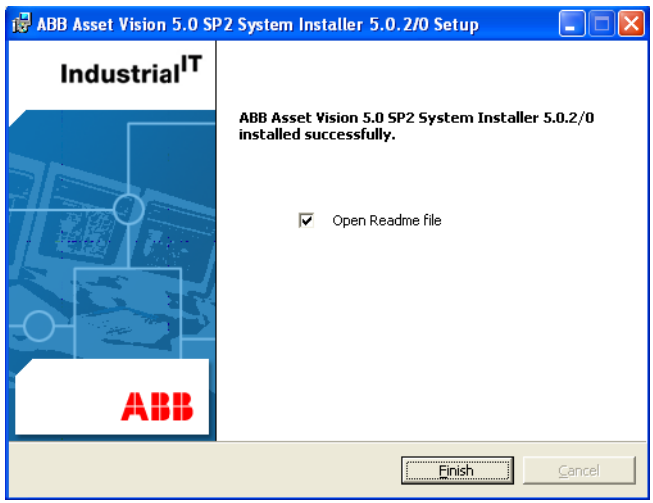


Figure 14. Asset Vision System Installer Setup Complete

You can now start setting up the system, that is described in the next section Section 3, Setup of Asset Vision Professional

Section 3 Setup of Asset Vision Professional

SettingUp Asset Vision Professional

Login with user account having administrative rights and ensure the Asset Vision DVD is inserted into the drive to install Asset Vision.

Disable all other Network Adapters except Ethernet LAN Network Adapter. For example, Bluetooth and Wireless Network Adapter in the system should be disabled.

Setup Asset Vision using the Asset Vision System Installer. From the **Start** menu, select **Programs > ABB Asset Vision System Installer > Asset Vision Professional > Start Install & Setup of this node**.

A welcome screen similar to the one shown in Figure 15 is displayed. Click **Next**.

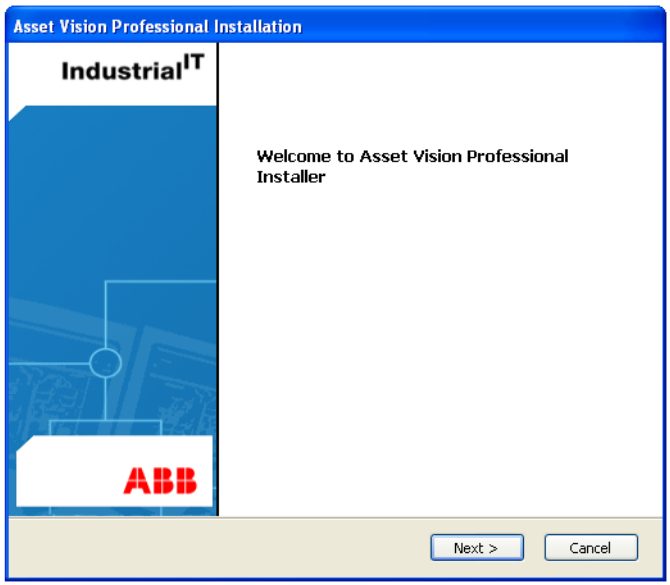


Figure 15. Asset Vision Professional Installer Welcome Screen

As Asset Vision prepares for the installation, a screen similar to the one shown in Figure 16, is displayed indicating the progress. Once the preparation is complete, the **Next** button is enabled. Click **Next**.

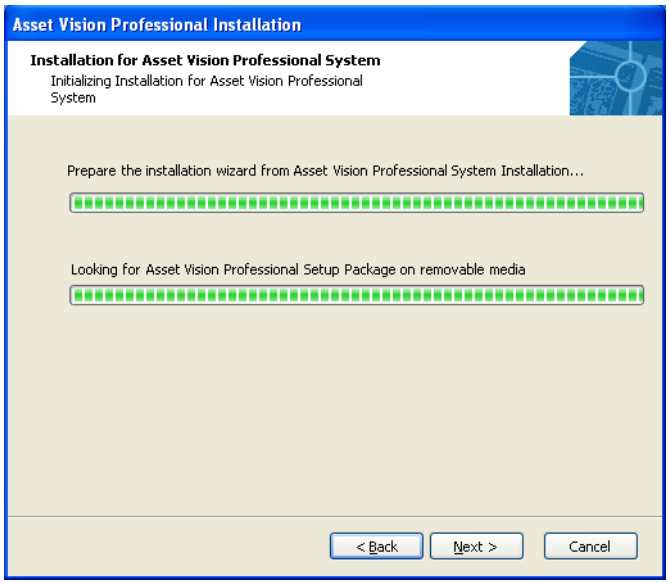


Figure 16. Initializing Asset Vision Professional Installation

The Windows Automatic Logon Settings screen, similar to the one shown in Figure 17 is displayed.

Figure 17. Asset Vision Professional Auto Logon Settings Screen

Enter the username and password and click **OK**. The system verifies the username and password entered, and if the credentials entered are correct, then the installation continues.

Clicking **Cancel** will proceed Windows configuration in manual mode and after restarting the system, the user has to logon manually to continue Windows configuration.

In the resulting screen, similar to the one shown in Figure 18, enter the details according to the information given in Table 2.

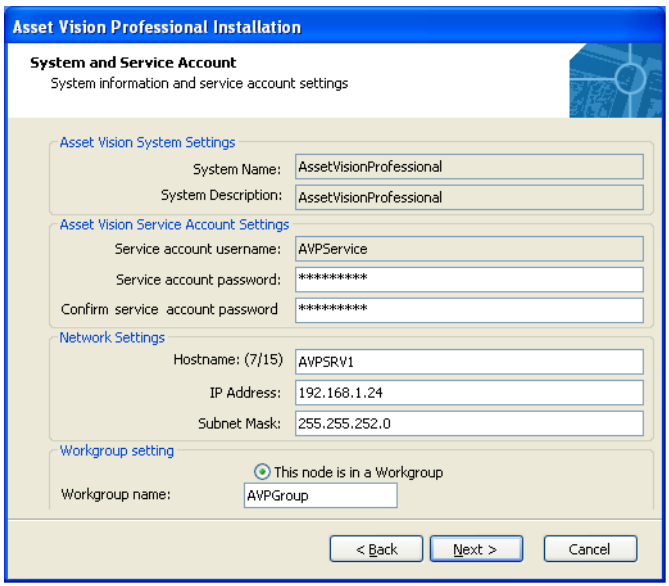


Figure 18. Asset Vision Professional System and Service Account Screen

Table 2. System and Service Account Settings

Field	Description
Service account password	Enter the service account password
Confirm Service account password	Enter the service account password that is entered in the **Service account password** field for confirmation.
Hostname	Sets the machine name for identification in a network. Recommended Hostname is “**AVPSRV1**”.

Table 2. System and Service Account Settings (Continued)

Field	Description
IP Address	Sets the IP (Internet Protocol) Address (A unique number that identifies a device in a network) of the machine to the one specified in this field. The recommended IP address for the node is '**192.168.1.24**'.
Subnet Mask	Provide the subnet mask on which the network is located. The recommended subnet mask is '255.255.255.0'.
Workgroup setting	Indicates whether the machine on which the Asset Vision Professional is installed is in a workgroup or not.
Workgroup Name	The machine, on which Asset Vision is installed, must be a part of a workgroup. Provide the name of the workgroup. Recommended workgroup name is "**AVPGROUP**".

Table 3 shows the Usersand the default passwords that will be created during Asset Vision Professional System Installation.

Table 3. Username and Default Passwords

User Name	Default Password
AVPService	Asset123#
AVPAdmin	Asset123#
mnteng	Asset123#
mntsupv	Asset123#
mnttech	Asset123#

It is recommended that the default password for all users must be changed for security reasons.

Click **Next**. A pop-up message is displayed as shown in Figure 19, asking for the confirmation to add new users or edit the existing users.

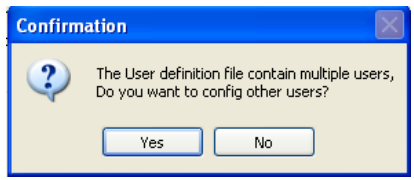


Figure 19. Asset Vision Professional Confirming Hostname and IPaddress

Click **Yes**. A screen similar to the one shown in the Figure 20 is displayed.

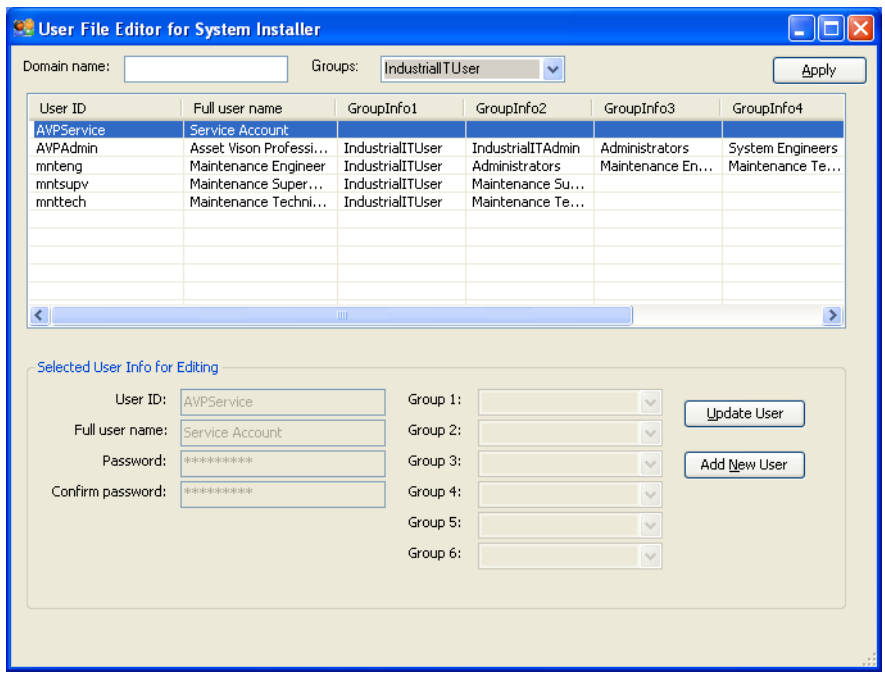


Figure 20. Asset Vision Professional User Information Editor

Edit Users

To edit any user information, double-click on the corresponding user row in the table displayed. This populates the user data in the corresponding fields. Edit the information and click **Update User**.

The default Passwords for all users is "*Asset123#*". The default password for all users must be changed for security reasons.

To change the default password for any user, double-click on the user row in the table displayed. This populates the user data in the corresponding fields. For Asset Vision Professional Service User, all fields are disabled as shown in Figure 20 and for Asset Vision Professional Administrator User, only the Password and Confirm Password fields are enabled in a screen, similar to the one shown in Figure 21. For all other users, all fields are enabled as shown in Figure 22.

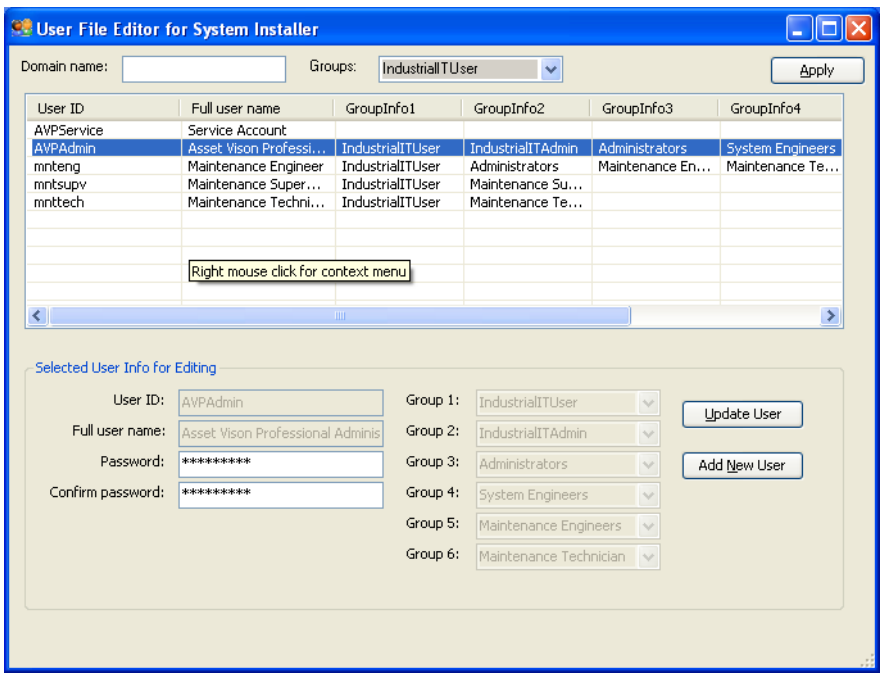


Figure 21. Asset Vision Professional User Information Editor1

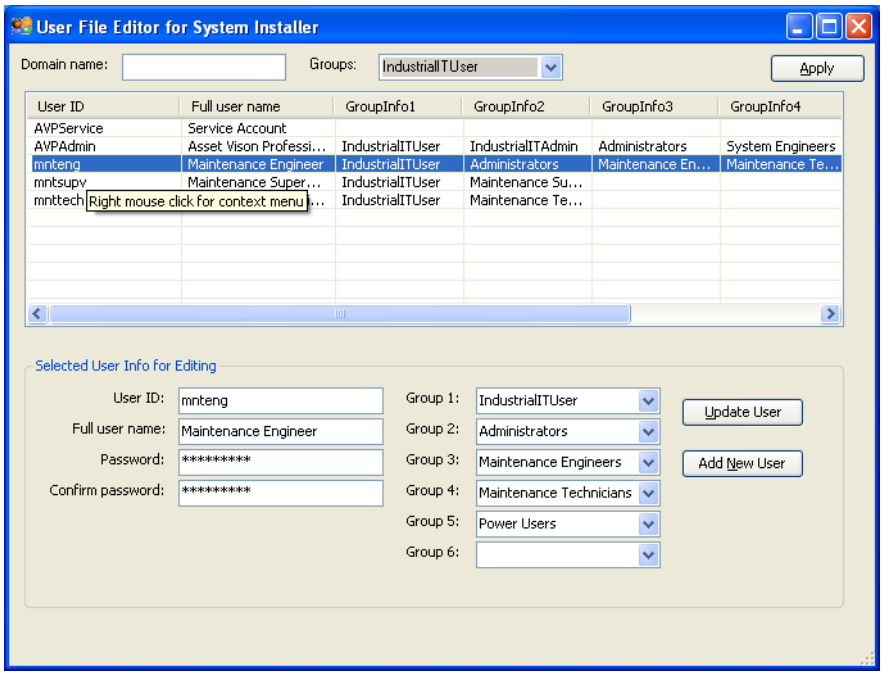


Figure 22. Asset Vision Professional User Information Editor2

Enter the password and confirm the password in the respective fields and click **Update User**.

Add Users

To add a new user, click on an empty row and enter the information in the fields provided, as described in Table 4, and click **Add New User**.

Table 4. User Information

Fields	Description
User ID	The id of the user.
Full user name	Full name of the user for whom the id is created.
Password	Password corresponding to the user.
Confirm Password	Confirm the password provided in the password field.
Group1 to Group 6	The user group that the user is affiliated to.

Once all the correct information is entered, click **Add NewUser**. After the add or edit operation is complete, click **Apply** for the modification to take effect..

Ensure that any new user being added is part of "IndustrialIT user" user group.

If the new user is required to be a part of Asset Vision Professional Administrator, then the user should be a part of "IndustrialIT Admin" group.

If the new user is required to be a part of Windows Administrator, then user should be a part of "Administrators" group.

Click **Next.** A screen similar to the one as shown in Figure 23 displays the terms and conditions for the use of ABB Software. Read the terms and conditions carefully

and select the **I accept the term in the license agreement** check box and click **Next**.

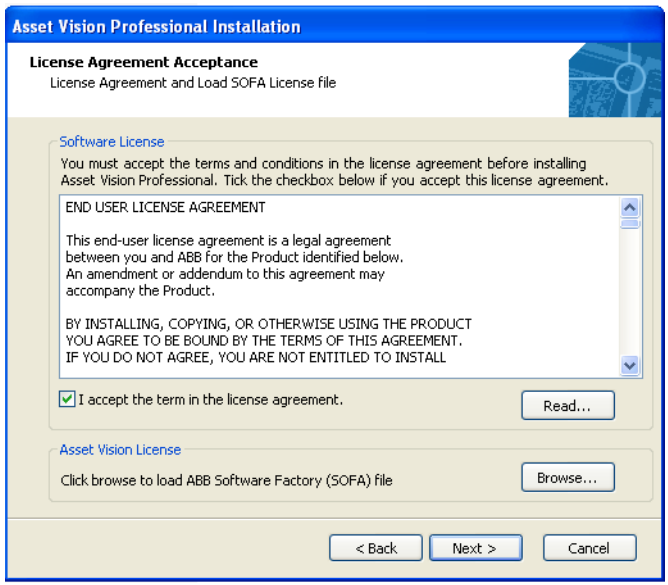


Figure 23. Asset Vision Professional License Agreement Acceptance

In the resulting screen, similar to the one shown in Figure 24, click **Finish** to confirm the start of the system installation.

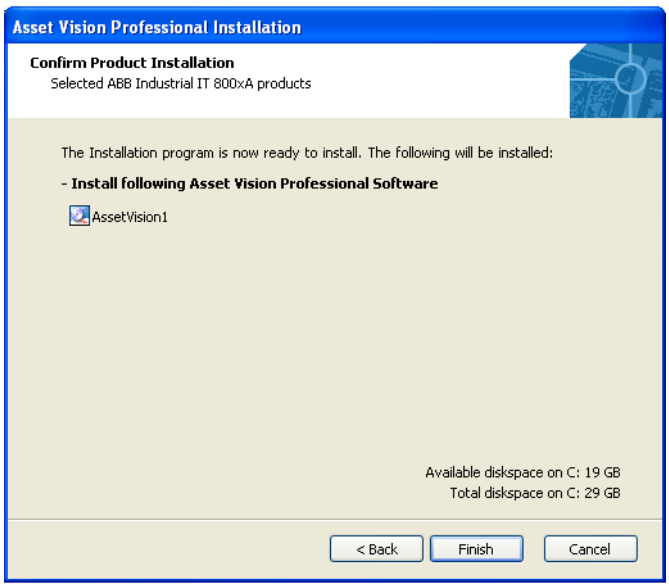


Figure 24. Asset Vision Professional Product Installation Confirmation

The Asset Vision System Installer starts configuring windows as required by the Asset Vision Professional node. This operation is completely automatic, and during this operation the following are configured.

- Network adapters
- Windows components and services
- Join workgroup

- Windows users and groups

Figure 25. Asset Vision Professional Configuration Wizard

After the configuration is complete, the system automatically reboots for 3-4 times for the changes to take effect. Login as AVPAdmin User as shown in Figure 26.

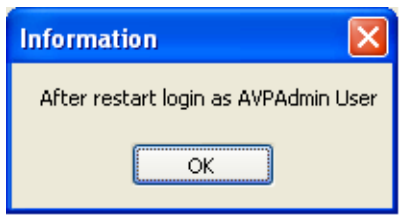


Figure 26. Asset Vision Professional User ID

The default password for the user is **Asset123#**, if default password is not changed by the user.

Verifying the Base System

The setup automatically continues by verifying whether the required components are installed. The Asset Vision Verifier Tool Wizard, similar to the one shown in Figure 27, is displayed. Click **Next**.

Installing some components requires a machine restart. Restart the machine when prompted.

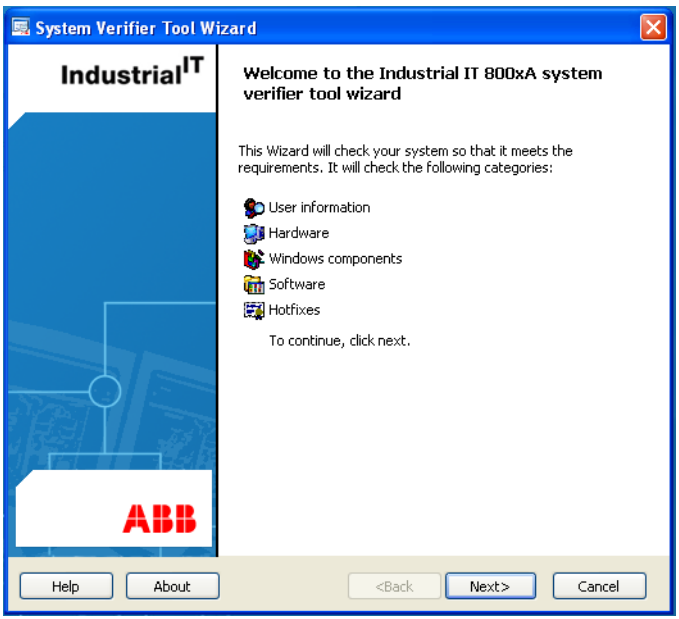


Figure 27. Asset Vision Professional System Verifier Wizard

In the resulting screen, similar to the one shown in Figure 28, the verifier tool checks whether the current AVPAdmin is granted with the Administrator rights on the system.

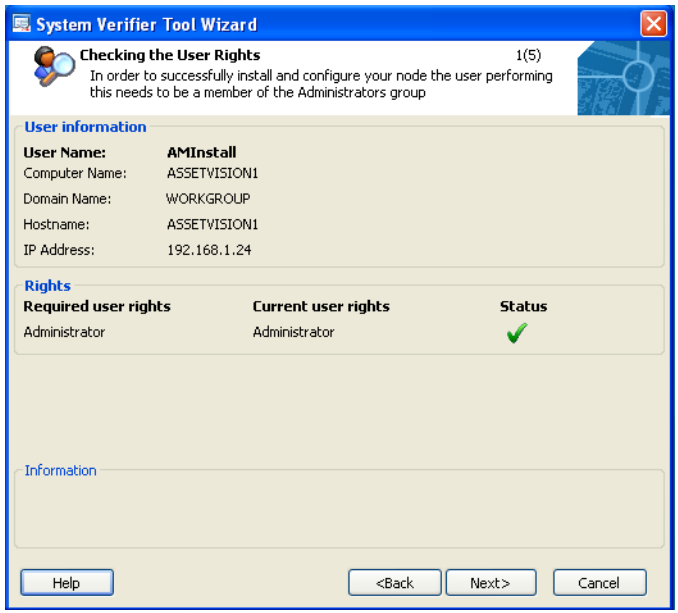


Figure 28. Asset Vision Professional Checking User Rights

A red cross mark indicates that the current user does not have the administrator rights, and hence cannot install the software on the system. In this case, exit from the current installation and logoff from the PC. Login to the system as “Administrator” and grant the necessary rights to the “AVPAdmin” user. Refer to the Windows documentation on granting rights or contact the System Administrator. Once the administrator rights are granted to the “AVPAdmin” user, then login to the system again as “AVPAdmin”.

To continue with the installation, from the **Start** menu, go to **Programs > ABB Asset Vision System Installer >Asset Vision Professional > Resume Install & Setup of this node**. The installation will continue from the point where it had stopped.

A green tick mark indicates that the user has administrator rights and can proceed with the installation. Click **Next** to continue.

In the next screen as shown in Figure 29, the Asset Vision Verifier Tool Wizard checks for hardware compliance. A green tick indicates that a hardware requirement is met. An exclamation denotes that a hardware requirement does not meet the minimum requirement and that Asset Vision will nevertheless work, but with decreased performance. A red cross indicates that a hardware requirement is incompatible for the effective functioning of Asset Vision.

Make sure, that the minimum hardware requirement is met. This ensures the minimum performance of Asset Vision.

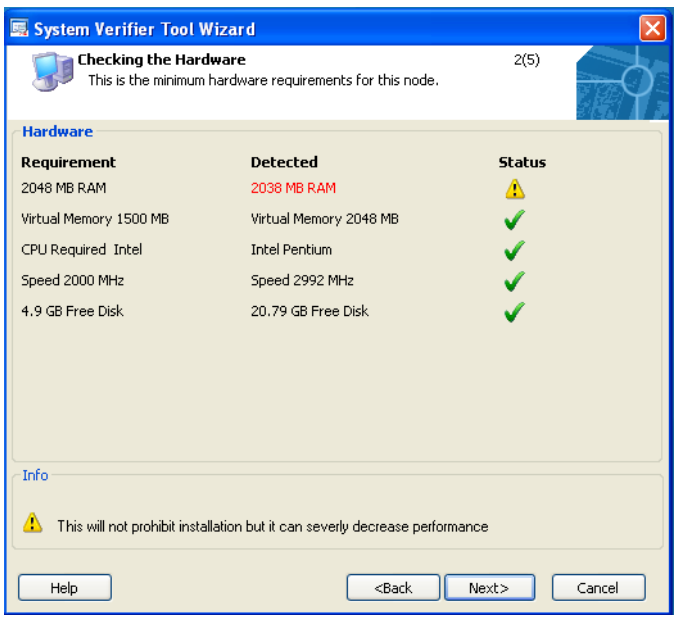


Figure 29. Asset Vision Professional Checking Hardware Requirements

Click **Next**.

In the resulting screen, similar to the one shown in Figure 30, the Asset Vision Verifier Tool Wizard, verifies the installed Microsoft Software Components, that the Asset Vision will use. If any of the listed software components are already installed, the status of the software component is ticked green. If any of the software components is not installed, the status indicates a red cross against that component.

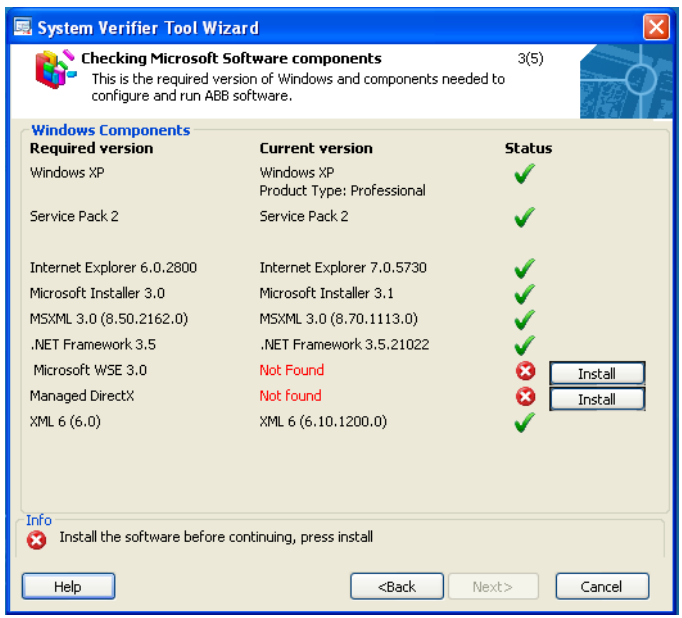


Figure 30. Asset Vision Professional Checking Installed Microsoft Components

An **Install** button is displayed next to the status of the software component that is not installed, similar to what is shown in Figure 30. Click **Install** to install the missing Windows component. Once the status of all the components is ticked green, the **Next** button is enabled. Click **Next**.

In the resulting screen, similar to the one shown in Figure 31, the Asset Vision Verifier Tool Wizard verifies for additional software components installed, that

Asset Vision system will use. If any of the listed additional software component is already installed, the status of the software component is ticked green. If any of the software components is not installed, the status indicates a red cross against that component.

An **Install or Info** button is displayed next to the status of the software component that is not installed, similar to the one shown in Figure 31.

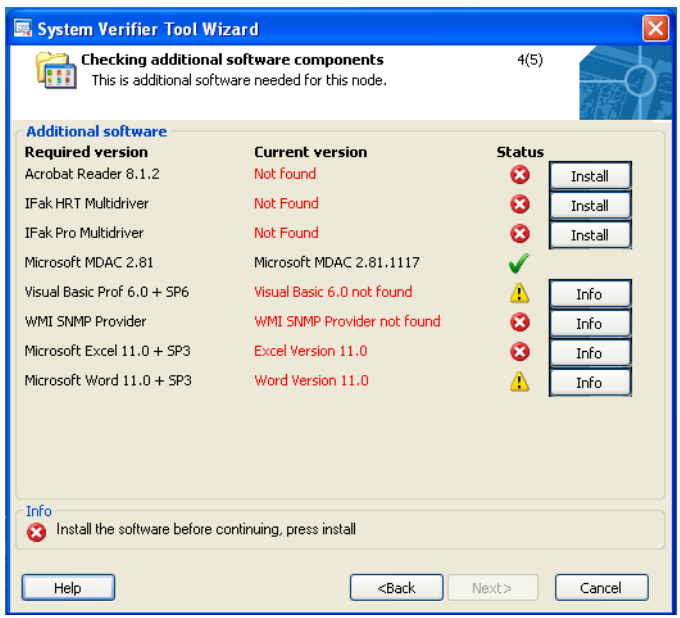


Figure 31. Asset Vision Professional Checking Additional Software Components

Click **Install** to install the missing software component and perform the installation instructions.

Click **Info**. The procedure to install the missing software component is displayed. Once the status of all the software components is ticked green, the **Next** button is enabled. Click **Next**.

In the next screen, similar to the one shown in Figure 32, the Asset Vision Verifier Tool Wizard verifies the installed hotfixes.

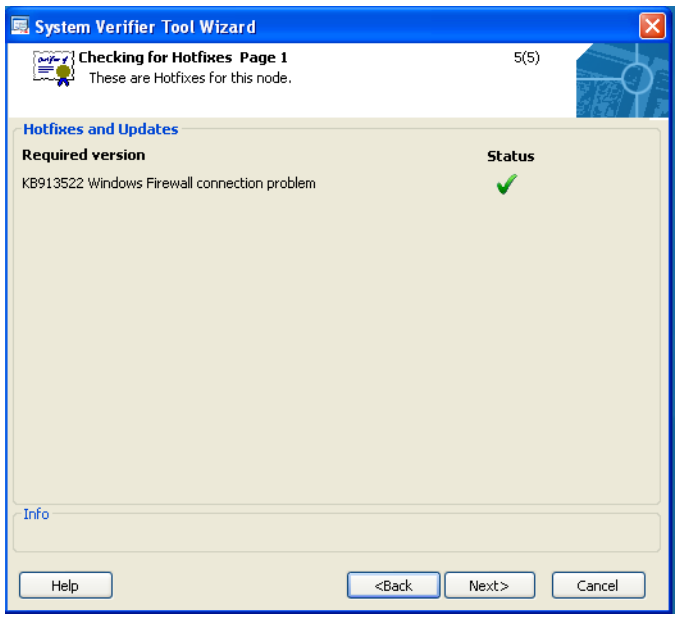


Figure 32. Asset Vision Professional Checking Hotfixes

If the listed hotfixes are already installed, then the status of the corresponding hotfixes are ticked green. If any hotfix is not installed, the status of the corresponding hotfix is marked with a red cross and an **Install** button is displayed next to it. Click **Install** to install the missing hotfix, and follow instructions on the screen. If prompted for a machine restart, restart the machine and continue with the system setup.

Once the status of all the listed hotfix is ticked green, the **Next** button is enabled. Click **Next**.

A Security Warning dialog box, similar to the one shown in Figure 33 is displayed Download and install the latest security related hotfixes, that Microsoft releases from time to time.

Figure 33. Asset Vision Professional Microsoft Security Related Hotfixes

If the Windows operating system is already updated with the latest security hotfixes, click **No** to continue with the installation.

If any new security hotfixes from Microsoft are available, then click **Yes** to exit from the system setup. Install the security hotfixes from Microsoft, and then continue with the system setup by selecting **Start > Programs > ABB Asset Vision System Installer > Asset Vision Professional > Resume Install and Setup of this node**.

It is recommended that Asset Vision be updated with the latest security hotfixes all the time to ensure necessary levels of security. The recommended ABB certified hotfixes are available for download at http://solutionsbank.abb.com.

Once the base system verification process is complete, a screen similar to the one shown in Figure 34 is displayed, with a verification report.

Click **Save** to save the report in a text file.

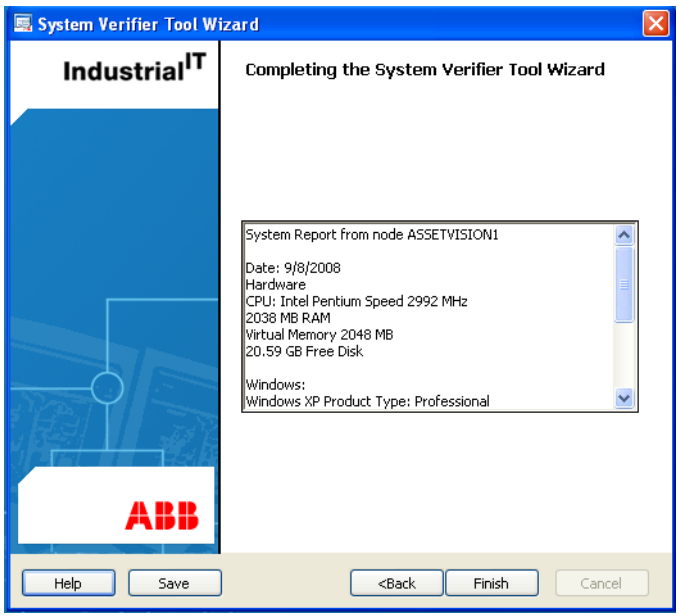


Figure 34. Asset Vision Professional System Report

Click **Finish** to complete the Asset Vision verification process.

Installing Asset Vision Professional

The system setup is ready to install the Asset Vision Professional software components. In a screen, similar to the one shown in Figure 35, all the ABB

software components that will be installed for Asset Vision Professional are displayed. All listed software is automatically installed once the installation begins.

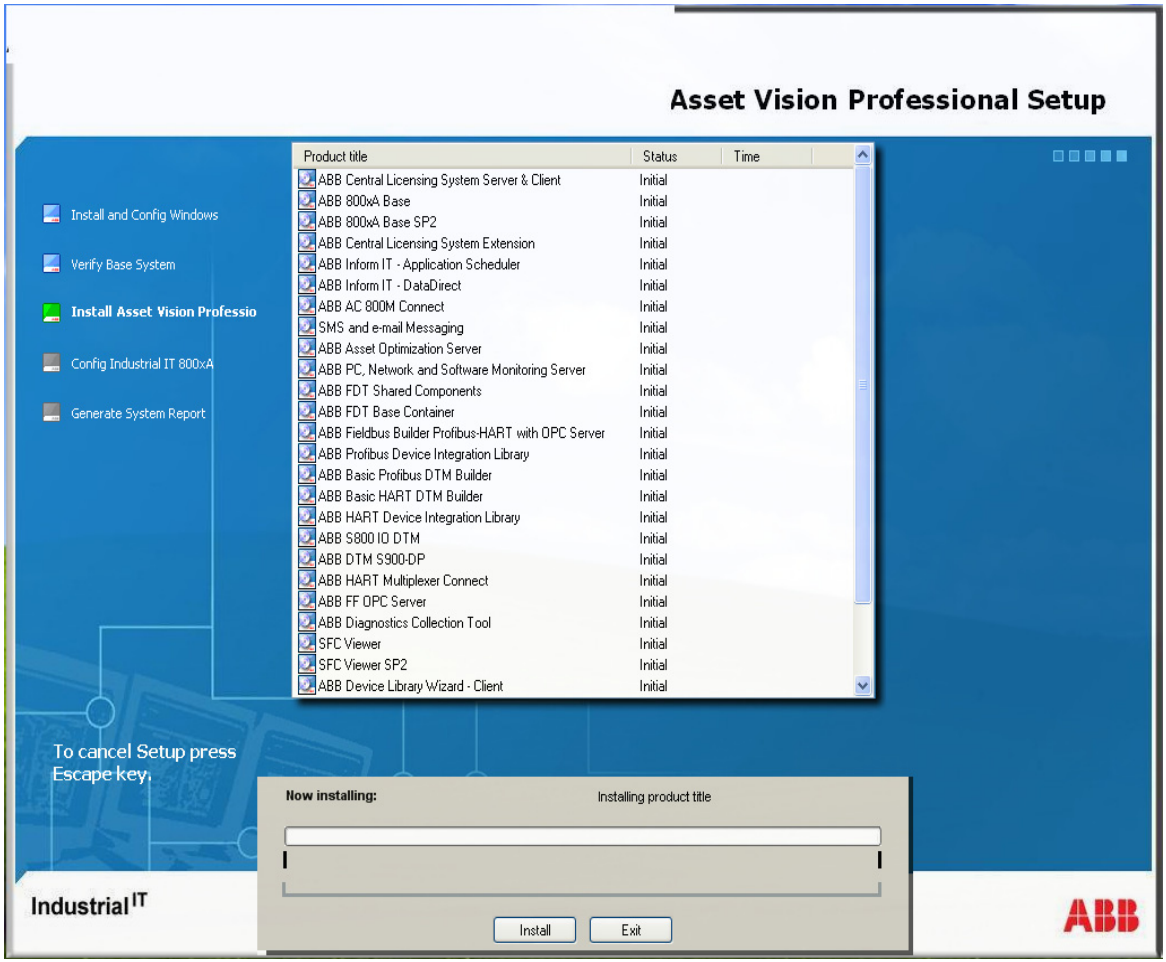


Figure 35. Asset Vision Professional Setup Screen

Click **Install** to begin the installation of the ABB software components for Asset Vision Professional. The software component being installed along with the

installation progress of that component is displayed. After all the components are installed, the installer will prompt for a machine reboot. Click **OK**.

Configuring Asset Vision Professional

After Installing Asset Vision Professional, the installer will start configuring it. A screen similar to the one shown in Figure 36 is displayed. Click **Next**.

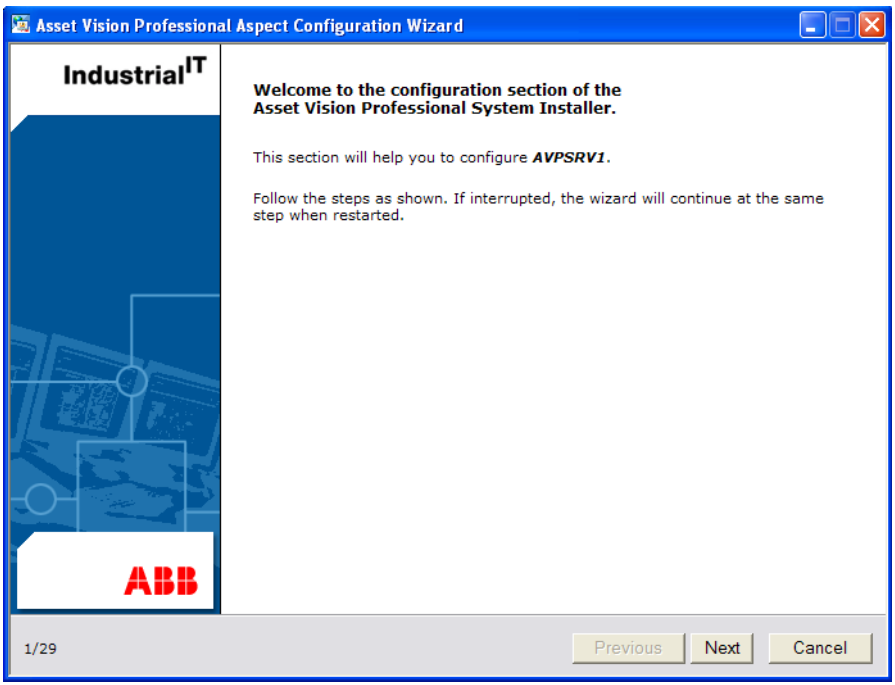


Figure 36. Asset Vision Professional Configuration Wizard-Welcome Screen

In the resulting screen, similar to the one shown in Figure 37, the installer prompts the user to take a backup of the system, using a disk imaging software such as Norton Ghost from Symantec Corporation.

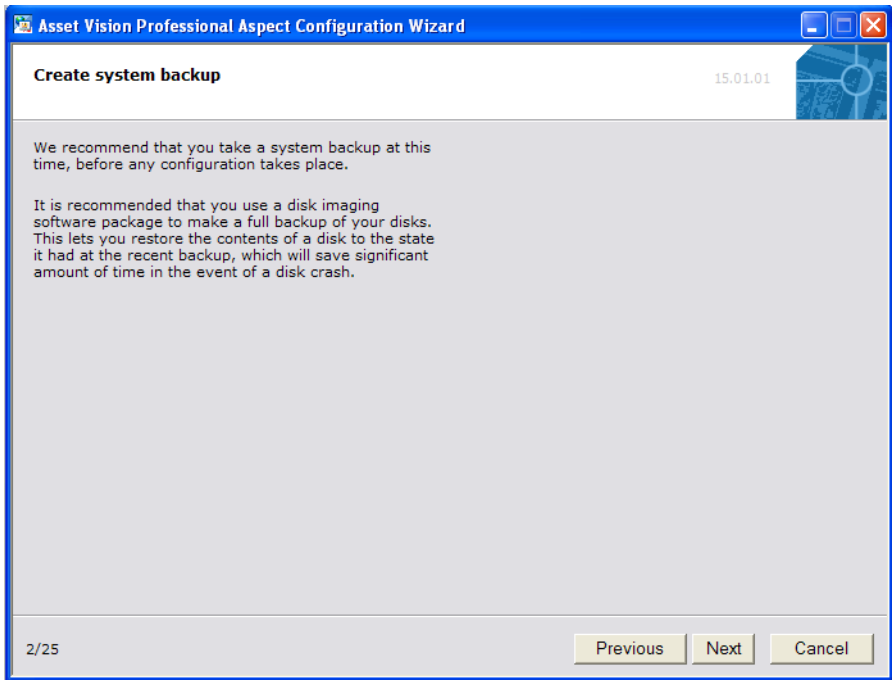


Figure 37. Asset Vision Professional Configuration Create System Backup

In the event of a system crash, this backup is used to restore the system to the state at which the backup was taken, saving significant time but not having to install Asset Vision up to this stage.

To take a backup, exit the current installation by clicking **Cancel**. Press "**Esc**" and click **Yes** in the popup dialog to exit the current installation. Take a backup of the Asset Vision hard disk. After the backup is complete, continue the installation through the **Start > Programs > ABB Asset Vision System Installer > Asset Vision Professional > Resume Install & Setup of this node**.

Once the installer starts, click **Next**. A screen similar to the one shown in Figure 38, displays an important note on Microsoft ActiveX Controls. Read the information carefully and click **Next**.

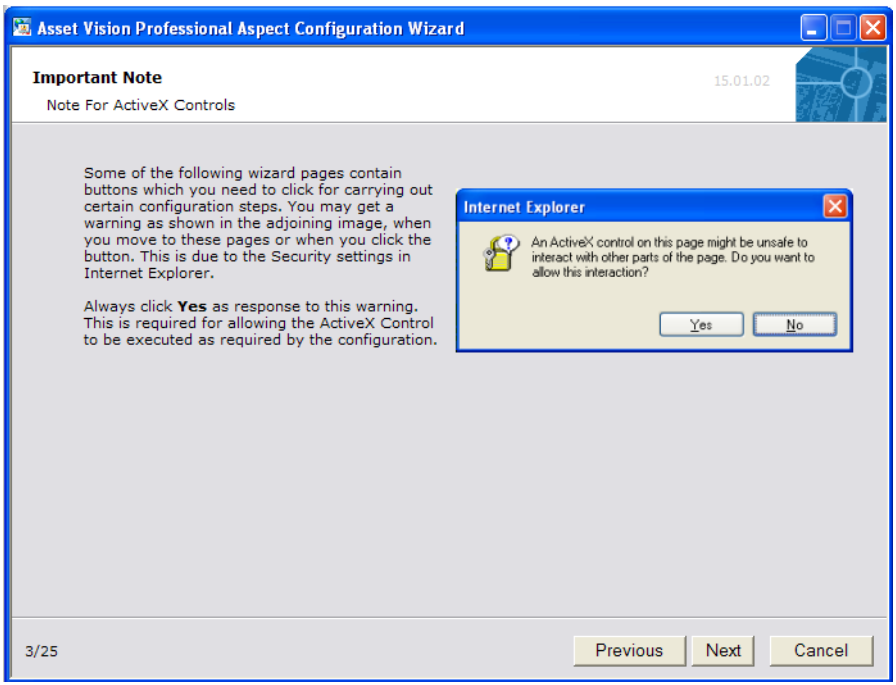


Figure 38. Asset Vision Professional Important Note on ActiveX Control

In the resulting screen, similar to the one shown in Figure 39, provide the Asset Vision Professional license.

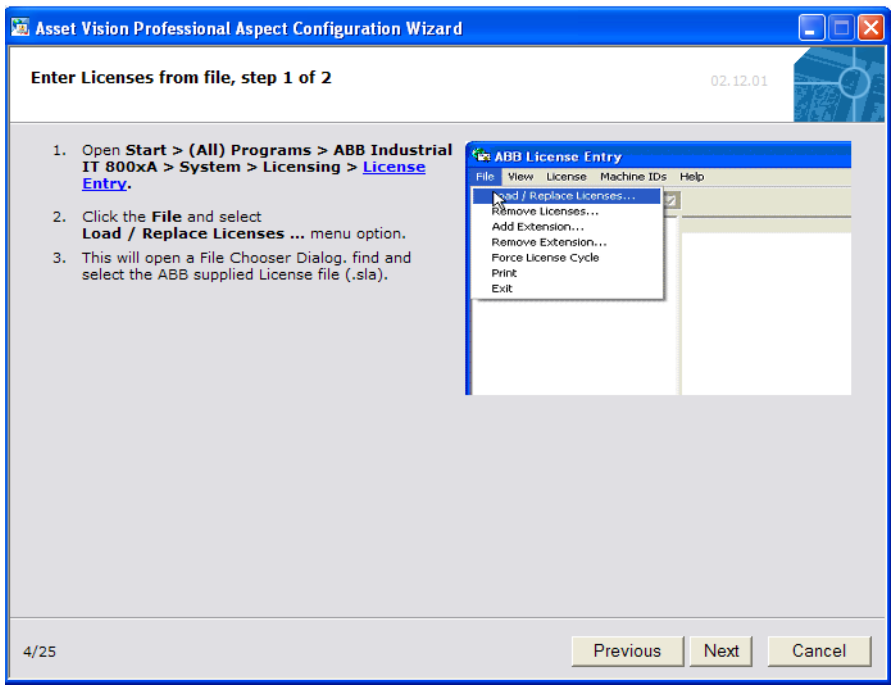


Figure 39. Asset Vision Professional License File Step1

Click the link **License Entry**. Depending on the security settings of the Internet Explorer, a popup might appear displaying information about an ActiveX control trying to open, such as the one shown in Figure 40.

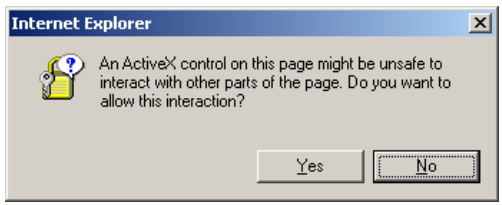


Figure 40. ActiveX Control Notification of Internet Explorer

Click **Yes** to open the ABB License Tool. When the License Entry tool opens, click **Next** in the Asset Vision Professional Aspect Configuration Wizard to read further instructions on entering the license file, which displays a screen similar to the one shown in Figure 41.

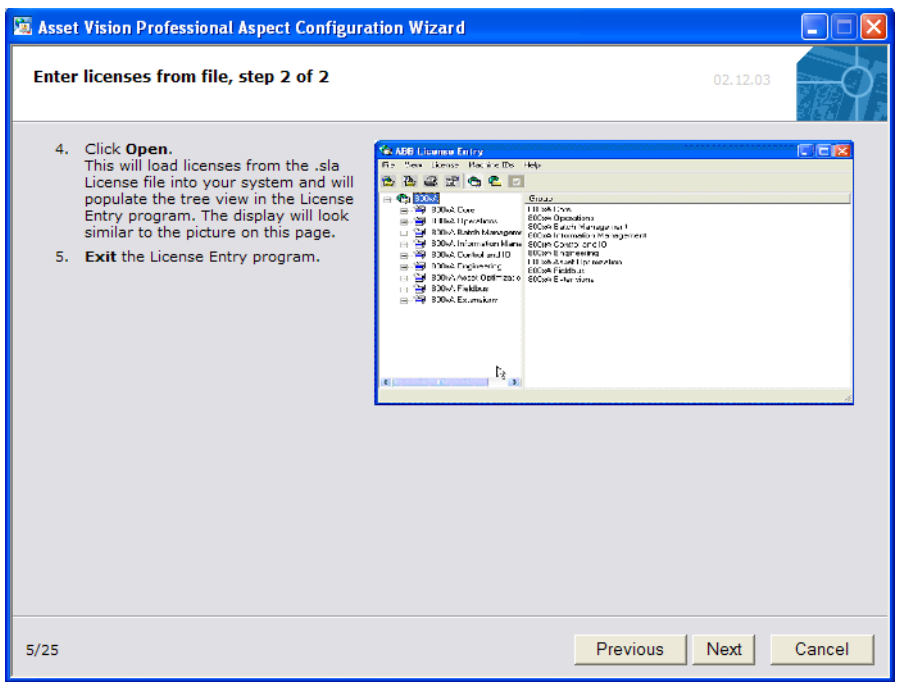


Figure 41. Asset Vision Professional License File Step2

Follow the steps mentioned in the screens, as shown in Figure 39 and Figure 41, or read the following instructions to load the license file.

1. Open **Start > (All) Programs > ABB Industrial IT 800xA > System > Licensing > License Entry**.
2. From the **File** menu, of the License Entry tool, select **Load / Replace Licenses...**.
3. This opens a file chooser dialog box. Browse and select the corresponding license file (*.sla* file) for Asset Vision.
4. Click **Open**.
   This will load the licenses from the .sla license file into the system and populate the tree view in the License Entry tool.
5. Exit the License Entry program.

Get in touch with the ABB Customer Support to obtain the license for the respective region.

Click **Next**.

In the resulting screen, as shown in Figure 42, perform the steps listed below.

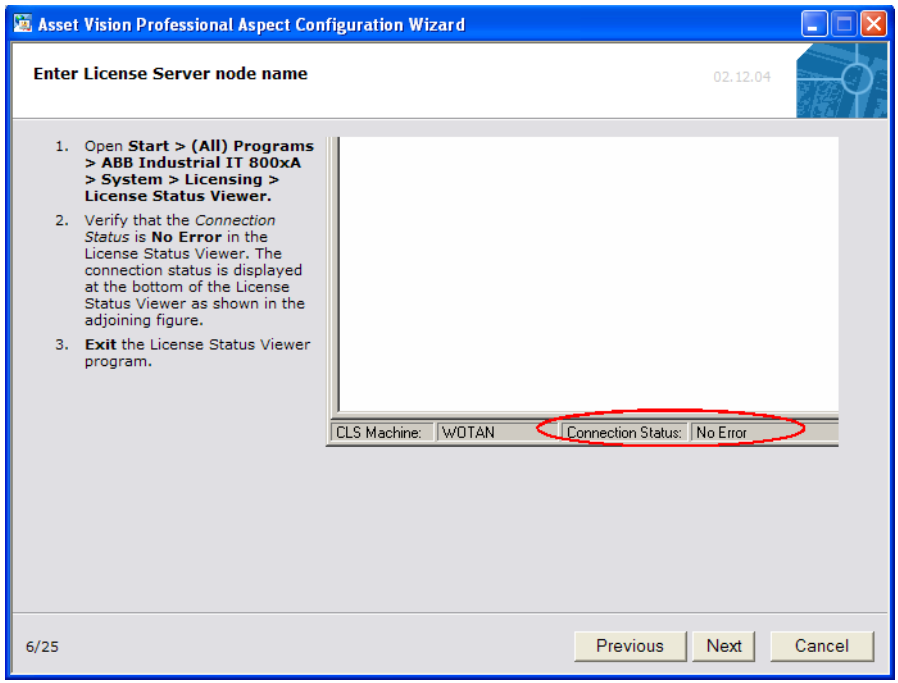


Figure 42. Enter License Server Node Name

1. Open **Start** > (**All**) **Programs** > **ABB Industrial IT 800xA** > **System** > **Licensing** > **License Status Viewer**.
2. Verify that the *Connection Status*, which is displayed at the bottom of the screen as shown, is marked **No Error**.
3. **Exit** the License Status Viewer program.

Click **Next**.

In the screen, similar to the one shown in Figure 43, configure Windows Users and User Groups that are to be used by Asset Vision.

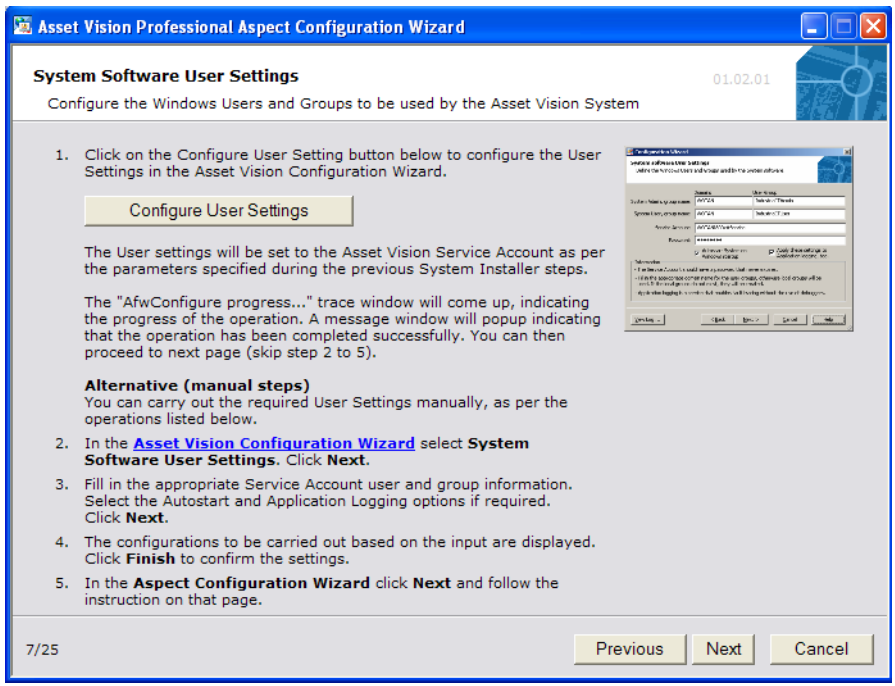


Figure 43. System software User Settings

Click **Configure User Settings.** Depending on the security settings of the Internet Explorer, a popup might appear displaying information about an ActiveX control trying to open.

Click **Yes** to continue configuring the user settings for Asset Vision. The User settings will be set to '**AVPService**', an Asset Vision Service Account, as per the parameters specified during earlier System Installation steps.

A progress window appears indicating the progress of the operation. A message is displayed in a screen similar to the one shown in Figure 44, indicating the successful completion of the task.

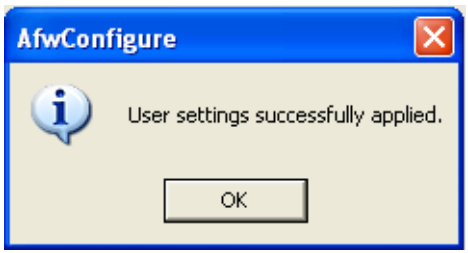


Figure 44. User Settings Successful

Click **OK** and click on the **Next** button to move on to the next screen, similar to the one shown in Figure 45.

In the event that the ActiveX control does not open, follow the instruction steps mentioned below.

1. In the Asset Vision Configuration Wizard, select **System Software User Settings** and click **Next**.
2. Enter the Service Account user (AVPService User) and group information. Select the Autostart and Application Logging options if required, and then click **Next**.
3. A list of the configurations to be carried are displayed. Click **Finish** to confirm the settings.
4. In the Aspect Configuration Wizard, click **Next** and follow the instructions on that page.

After completing the User settings, click **Next** to set the Network Access Security option.

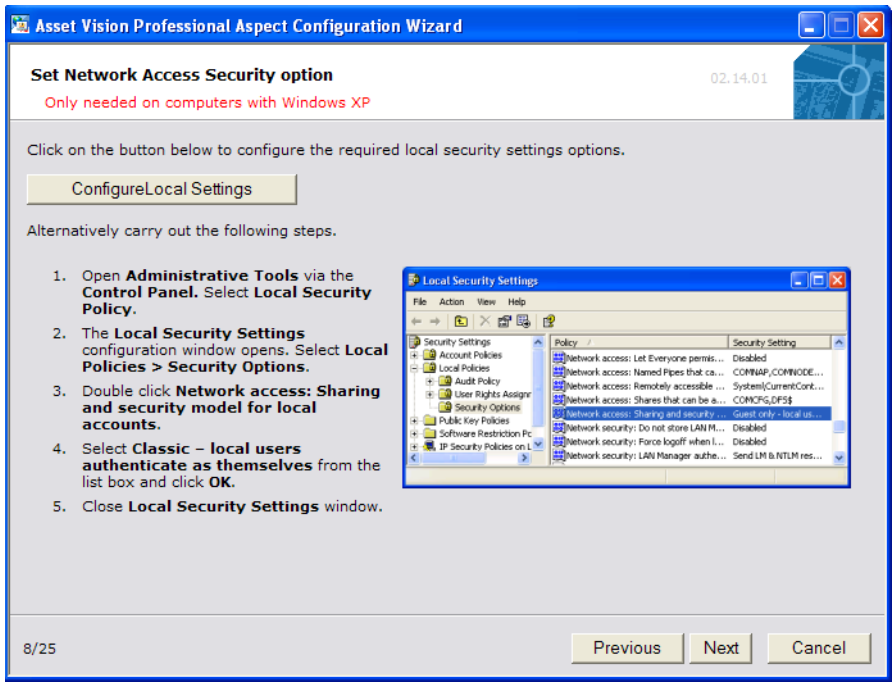


Figure 45. Configure Network Access Security Option

Click **Configure Local Settings**. Depending on the security settings of the Internet Explorer, a popup might appear displaying information about an ActiveX control trying to open.

Click **Yes** to continue and to automatically configure the local settings for Asset Vision.

In the event that the ActiveX control does not open, follow the instructions steps mentioned below.

1. Open “Administrative Tools” from **Start** menu, **Settings > Control Panel > Administrative Tools** and open **Local Security Policy**.

2. Once the Local Security Settings configuration window opens, select **Local Policies > Security Options**.
3. Double-click **Network access: Sharing and security model for local accounts**.
4. Select **Classic - local users authenticate as themselves** from the list box and click **OK**.
5. Close the **Local Security Settings** window.

Once the Network Access Security options is configured, click **Next** to configure daylight savings and power settings in a screen similar to the one shown in Figure 46

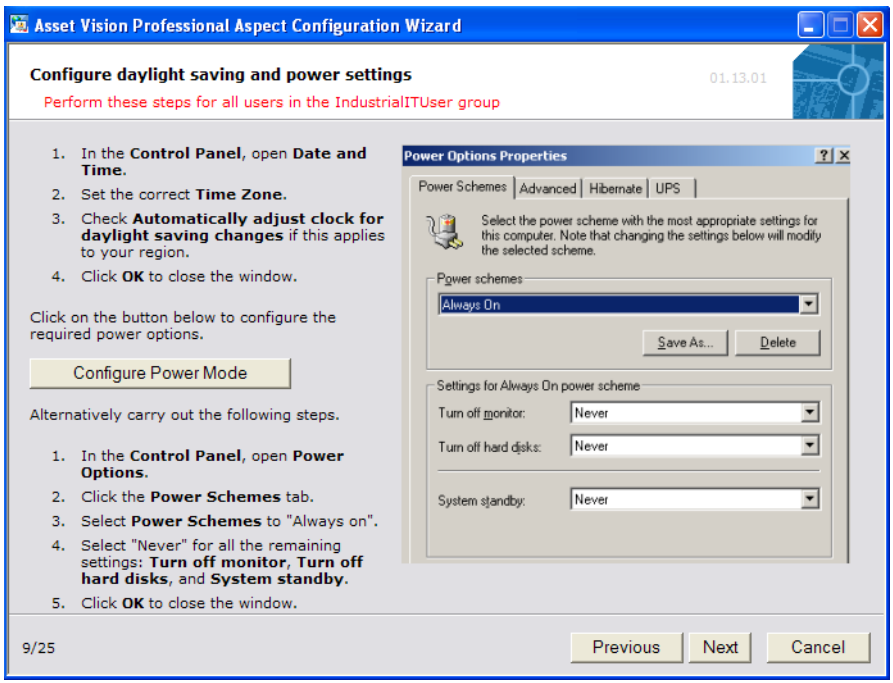


Figure 46. Configure Daylight Saving and Power Settings

Perform the following steps to set the daylight savings option on the machine:

1. From the Start menu, select **Settings > Control Panel** and open **Date and Time**.
2. Set the appropriate **Time Zone** to match the respective region.
3. Select the **Automatically adjust clock for daylight changes** check box, if this applies to the respective region.
4. Click **OK**.

Click **Configure Power Mode** in a screen, similar to the one shown in Figure 46. Depending on the security settings of the Internet Explorer, a popup might appear displaying information about an ActiveX control trying to open.

Click **Yes** to continue and configure the power mode for laptop.

In the event that the ActiveX control does not open, perform the following steps to configure the power mode for laptop.

1. From the **Start** menu, select **Settings > Control Panel** and open **Power Options**.
2. Select the **Power Schemes** tab.
3. Select the “Power schemes” to **Always On**.
4. Select **Never** for the remaining options: **Turn off monitor**, **Turn off hard disks** and **System standby**.
5. Click **OK** to close the window.

After setting the daylight savings and power options, click **Next** to set the regional options in a screen similar to the one shown in Figure 47.

Perform these steps for all users in the ‘IndustrialITUser’ Group.

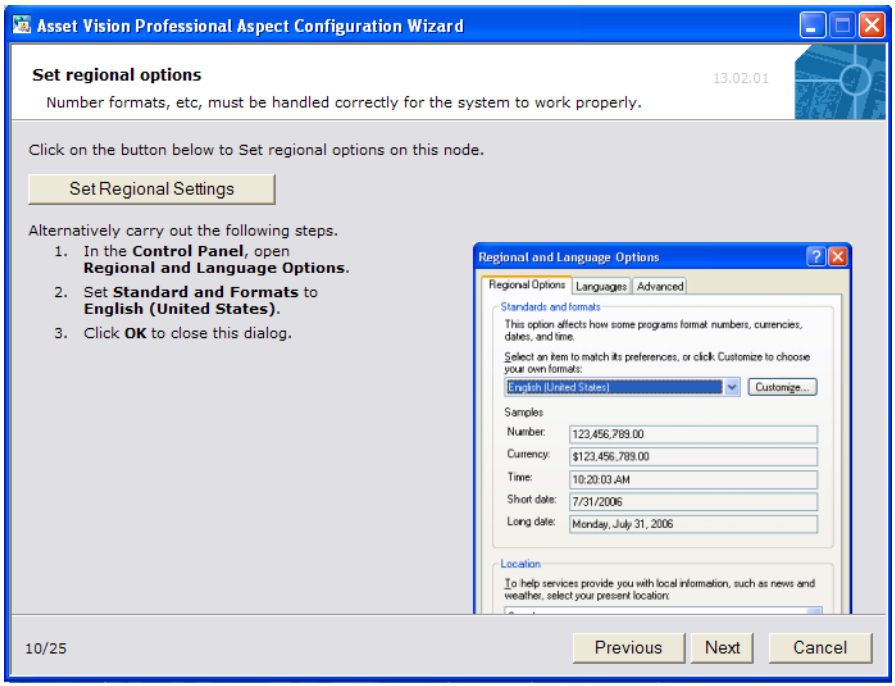


Figure 47. Configure Regional Options

Click **Set Regional Settings** as shown in Figure 47. Depending on the security settings of Internet Explorer, a popup might appear displaying information about an ActiveX control trying to open.

Click **Yes** to continue setting regional settings and follow steps 2 and 3 mentioned below.

In the event that the ActiveX control does not open, follow the instructions steps 1 through 3 mentioned below to set the regional settings.

1. From the **Start** menu, select **Settings > Control Panel** and open **Regional and Language Options**.
2. In the **Regional Options** tab, set the "Standards and formats" to **English (United States)**.
3. Click **OK** to close the window.

Once the regional options are set, click **Next** to disable Windows Time service in a screen similar to the one shown in Figure 48.

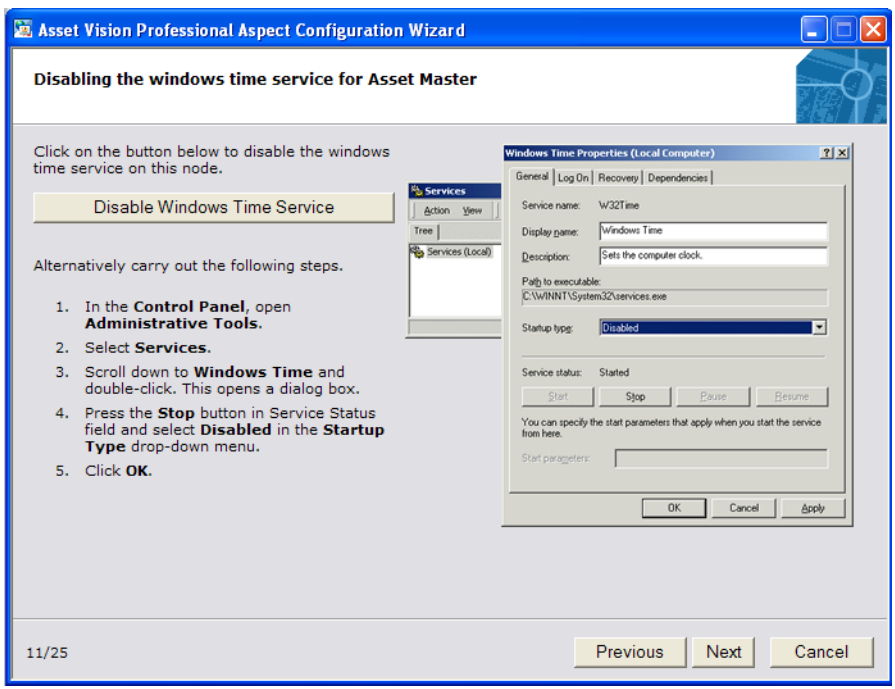


Figure 48. Disable Window Time Service

Click **Disable Windows Time Service** as shown in Figure 48. Depending on the security settings of the Internet Explorer, a popup might appear displaying information about an ActiveX control trying to open.

Click **Yes** to continue and automatically disable the Windows Time service.

After successful disabling of window time service, a message appears that the windows time service is disabled.

In the event that the ActiveX control does not open, perform the follow the instructions steps mentioned below.

1. From the **Start** menu, select **Settings > Control Panel > Administrative Tools** and open **Services**.
2. From the list of service, double-click on the service named **Windows Time**.
3. In the resulting window, click **Stop** to stop the service if it is running. Select **Disabled** from the **Startup type** drop-down list.
4. Click **OK** to close the window.

Once the Windows Time service is disabled, click **Next**.

The resulting screen, similar to the once shown in Figure 49, provides instructions to configure FOUNDATION Fieldbus.

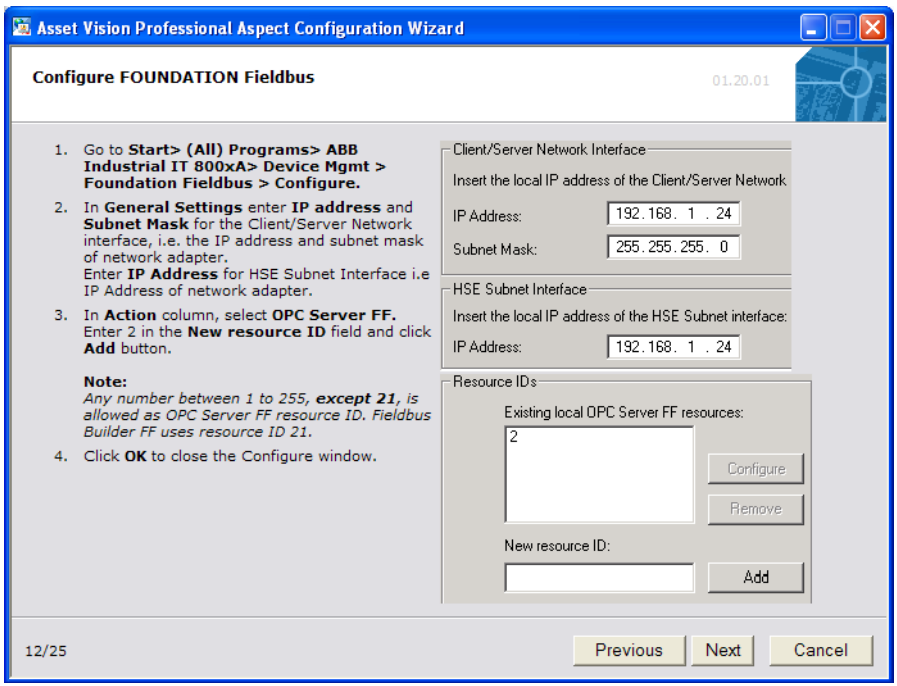


Figure 49. Configure Foundation Fieldbus

Perform the following steps to manually configure FOUNDATION Fieldbus:

1. From the **Start** menu, select **(All) Programs > ABB Industrial IT 800xA > Device Mgmt > FOUNDATION Fieldbus > Configure**. This opens the "Configure" program for FOUNDATION Fieldbus Device Integration. From the list in the Actions column, select OPC Server FF.
2. Enter the IP address and the Subnet Mask for the Client/Server network interface.
3. Enter the IP address for High Speed Ethernet (HSE) subnet Interface.

4. Select **OPC Server FF** in Action column.

The resource Id for the *OPC Server FF* can range from 1 to 255, but Fieldbus Builder FF has the fixed resource Id **21** for Fieldbus Builder FF. This Id cannot be changed, and hence **21** as resource Id is not recommended as a new resource Id.

The recommended resource ID is **2**.

5. Click **OK**.

Click **Next** to see instructions on restoring Asset Vision.

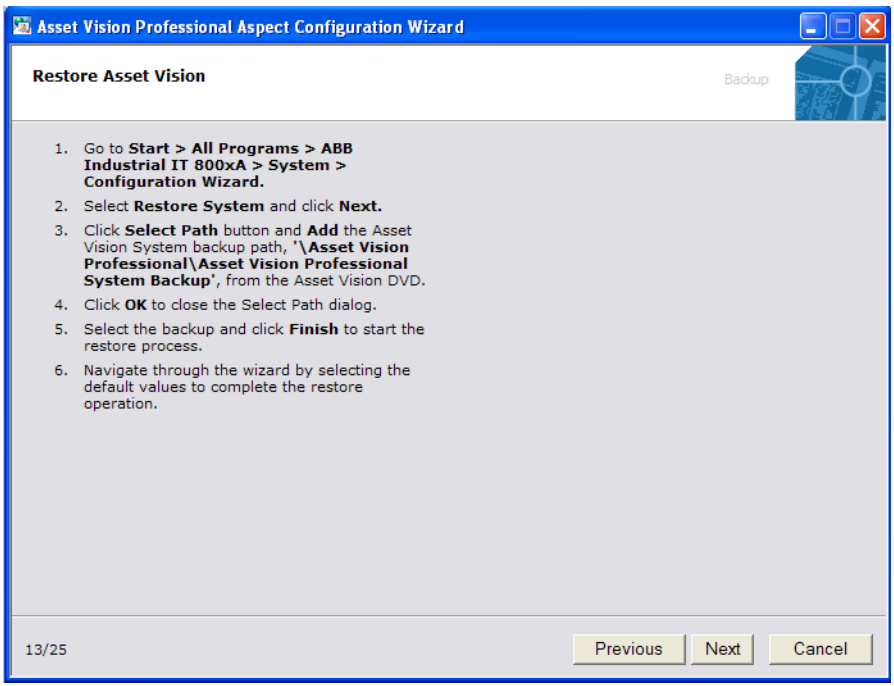


Figure 50. Restore Asset Vision

The process of restoring the system might take a few minutes to a few hours depending on the PC hardware capabilities.

Perform the following steps to restore the Asset Vision system:

1. From the **Start** menu select **(All) Programs > ABB Industrial IT 800xA > System > Configuration Wizard**.
2. From the listed actions in the Configuration Wizard, select **Restore System** and click **Next**.
3. Click **Select Path**. In the "Select Path" dialog box, click **Add** to locate Asset Vision System Backup. Browse the '**\Asset Vision Professional\Asset Vision System Backup**' folder on the Asset Vision DVD, and click **OK**.
4. In the "Select Path" dialog box, a path is displayed. Select this path and then click **OK** to close the dialog.
5. In the Configuration Wizard, the backup location with the date of the backup is displayed. Select the listed backup and click **Next**.
6. In the subsequent screens of the Configuration Wizard, use the default values and click **Next**.
7. In the resulting screen, verify the summary of the selections made for the system restore. When the summary report is in order, click **Finish** to start the system restore process.

Once the system is restored completely, a machine restart prompt appears. Restart the machine and continue the system configuration from selecting **Start > Programs > ABB Asset Vision System Installer > Asset Vision Professional > Resume Install and Setup of this node**. A set of screens are displayed and keep clicking **Next** in all the screens until a screen similar to the one shown in Figure 51 is displayed.

Check the following indicators to verify whether the system is running:

1. Hover the cursor over the System Status icon in the Windows Notification area, near the lower right corner of the screen. The popup message should indicate that the system is **Enabled**.

2. Wait until the system is running and the icon turns green. It might take a few minutes for the system to be created and started, depending on the machine.

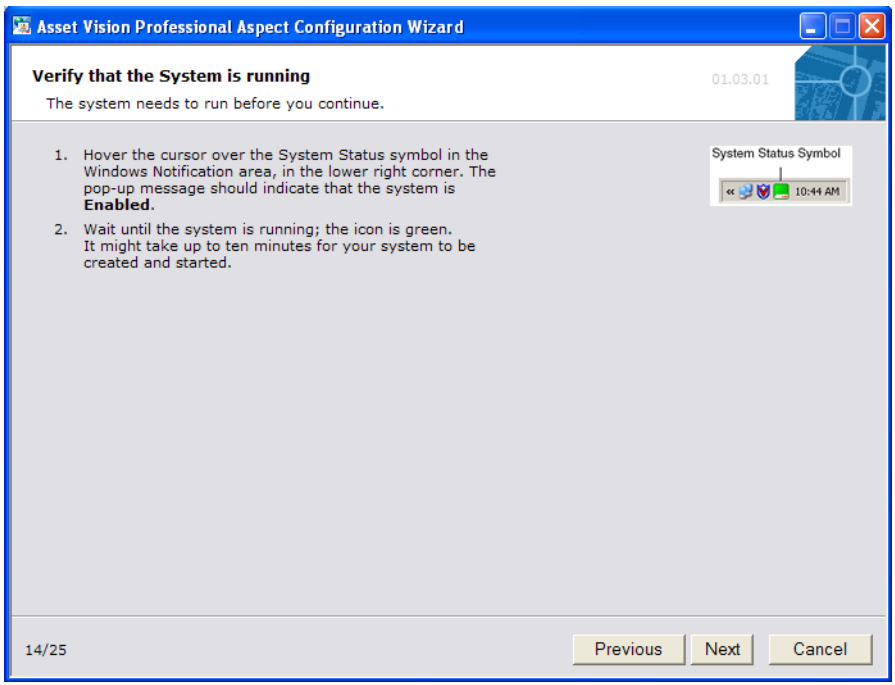


Figure 51. Verify Whether System is Running

Once the system restore is complete and verified, click **Next** in Asset Vision Configuration Wizard.

A screen, similar to the one shown in Figure 52 is displayed, wherein instructions are provided for verifying whether all Asset Vision related servers are running.

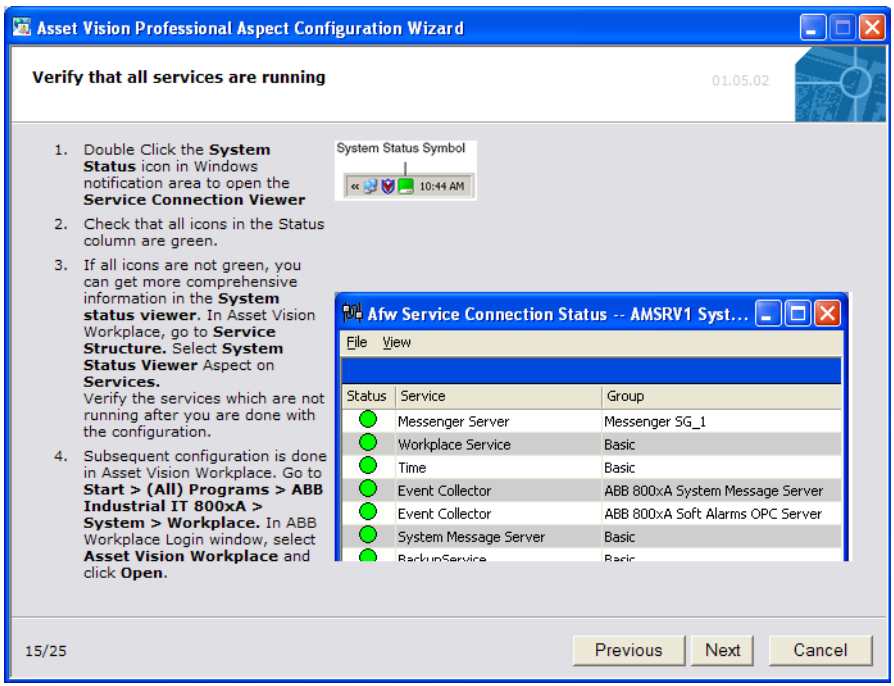


Figure 52. Verify Services are Running

Follow these steps to verify whether all the servers are running.

1. Double-click on the **System Status** icon in the Windows notification area to open the **Service Connection Viewer**.
2. Check whether the status of all the listed services are green. If the status of any service is not green, then more information is available in the System Status Viewer.
3. Open the Asset Vision Professional Workplace and select Service Structure. Select **Services** and open **System Status Viewer** aspect. Verify the services that are not running when the configuration is complete.

4. Subsequent configurations are performed within Asset Vision Professional Workplace. To open Asset Vision Professional Workplace, select **Start** > (**All**) **Programs** > **ABB Industrial IT 800xA** > **System** > **Workplace**. Select **Asset Vision Workplace** and click **Open**.

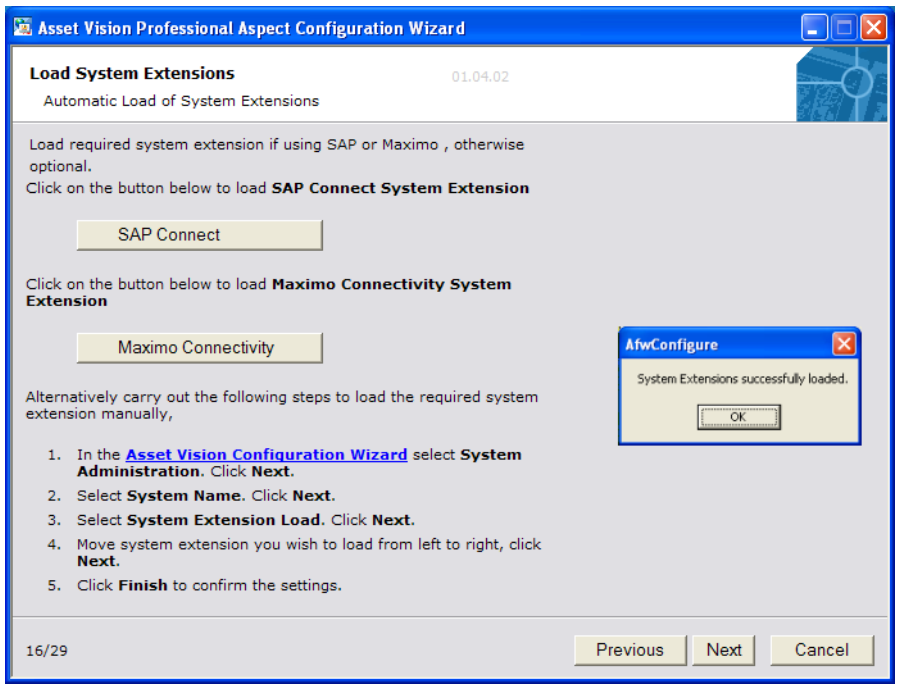


Figure 53. Loading System Extensions

Ensure that all the services are running, with their corresponding status green in the Service Connection Viewer, and the Asset Vision is open.

Click **Next** to configure Device Management System (DMS) software users in a screen similar to the one shown in Figure 54.

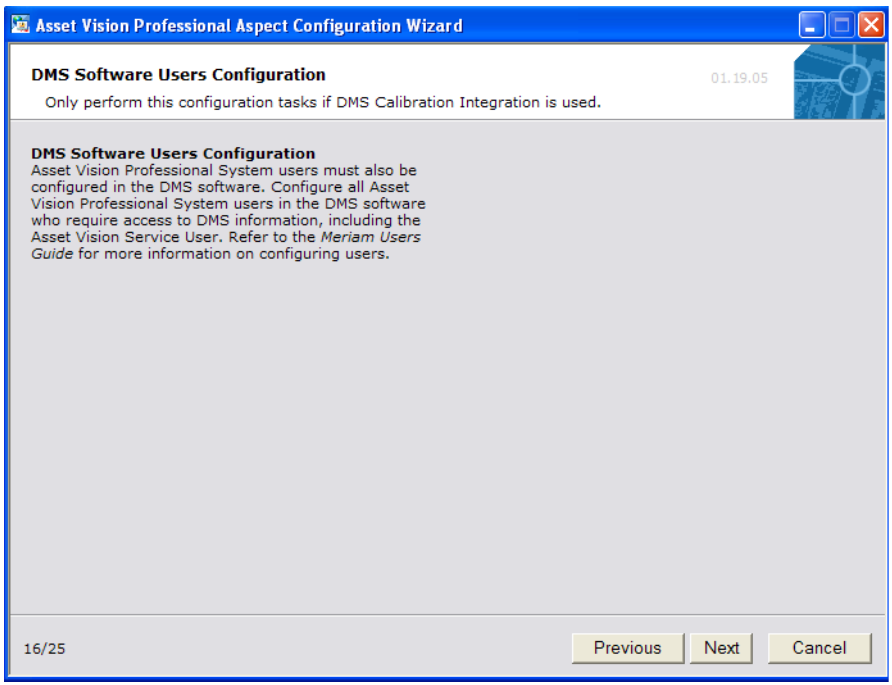


Figure 54. Configure DMS Users

Click **Next** to see how to Associate User Groups.

A screen similar to the one shown in Figure 55 is displayed with steps to associate user groups. Refer to Table 5 to see the user group mapping between Windows and Asset Vision Professional.

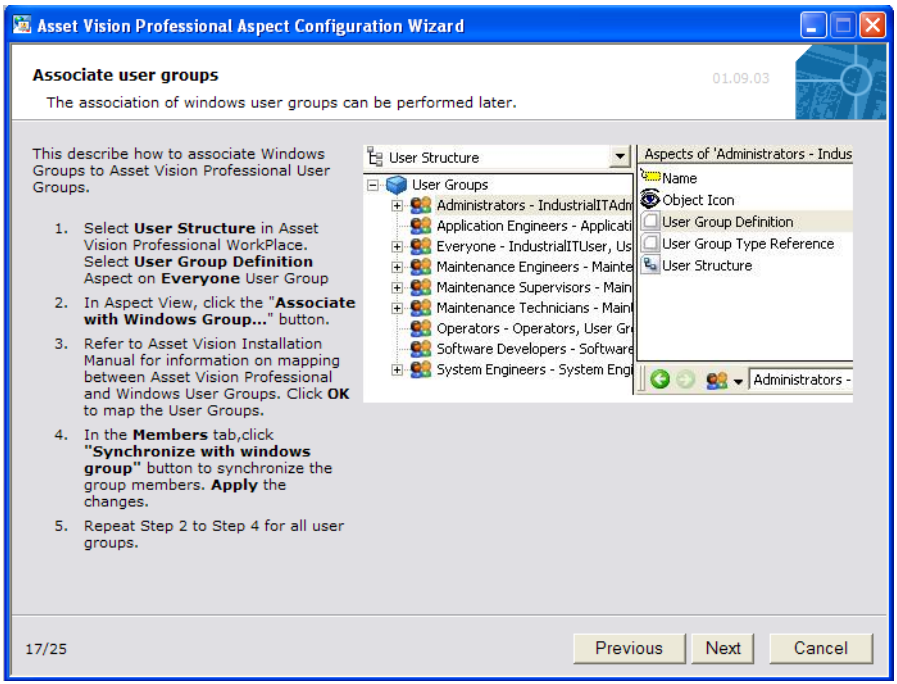


Figure 55. Associate User Groups

Table 5. User Groups Mapping

Asset Vision Professional User Group	Windows User Group
Everyone	Industrial IT User
Administrators	Industrial IT Admin

Table 5. User Groups Mapping (Continued)

Asset Vision Professional User Group	Windows User Group
Application Engineers	Application Engineers
Software Developers	Software Developers
System Engineers	System Engineers
Operators	Operators
Maintenance Technicians	Maintenance Technicians
Maintenance Supervisors	Maintenance Supervisors
Maintenance Engineers	Maintenance Engineers

The following steps are optional and they describe how Windows Groups can be associated with the User Groups in the Asset Vision Professional System.

Perform the following steps to associate Windows User Groups with the Asset Vision Professional User Groups:

1. In Asset Vision Professional Workplace, select the **User Groups** object from the **User Structure** list.
2. Select a user group object from the list of objects under User Groups. Begin the associations from the **Everyone** user group and open its **User Group Definition** aspect and click **Associate with Windows Group...**.
3. In the dialog window that opens, select the corresponding Windows group as per Table 5 and click **OK,** and then click **Apply**.
4. Users can be added from the **Members** tab by clicking **Synchronize with Windows Group...**.
5. Repeat steps 2 through 4 for all user group objects that have a corresponding Windows user group.

Once user group association is complete, click **Next** to see how to configure time service in a screen similar to the one shown in Figure 56.

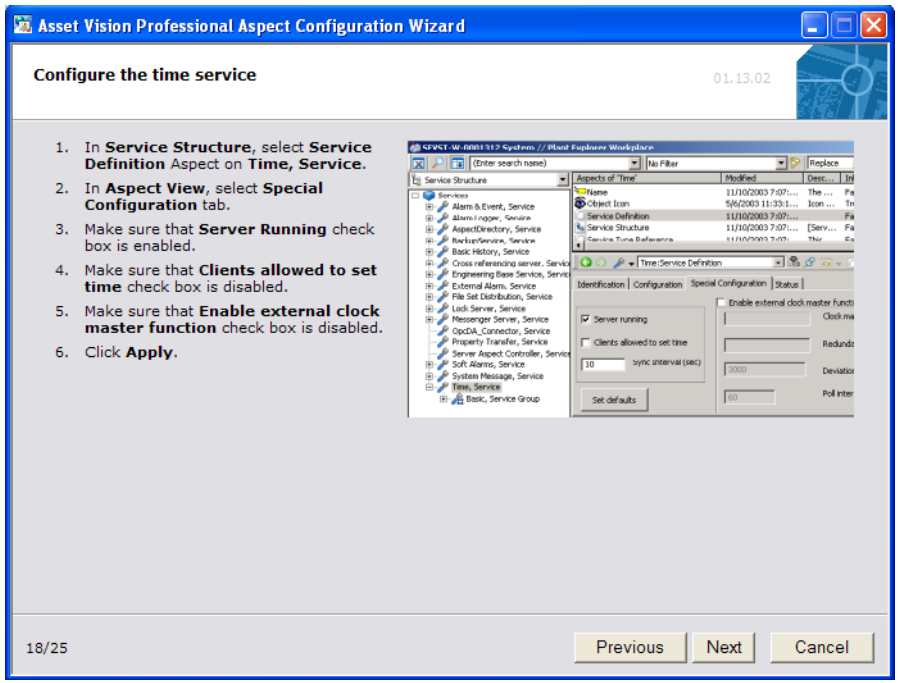


Figure 56. Configure Time Service

Perform the following steps to configure the time service in Asset Vision.

1. In Asset Vision Professional, select **Service Structure**.
2. Expand **Services** and select **Time, Service**. In the Aspect view, select **Service Definition**.
3. Select the **Special Configuration** tab
   a. Make sure that the **Server Running** check box is selected.
   b. Make sure that the **Clients allowed to set time** check box is cleared.
   c. Make sure that the **Enable external clock master function** check box is cleared.

4. Click **Apply** to save the changes.

Once the time service is configured in Asset Vision Professional, Click **Next**. The Configuration Wizard displays procedure to configure alarm logger in a screen similar to the one shown in Figure 57.

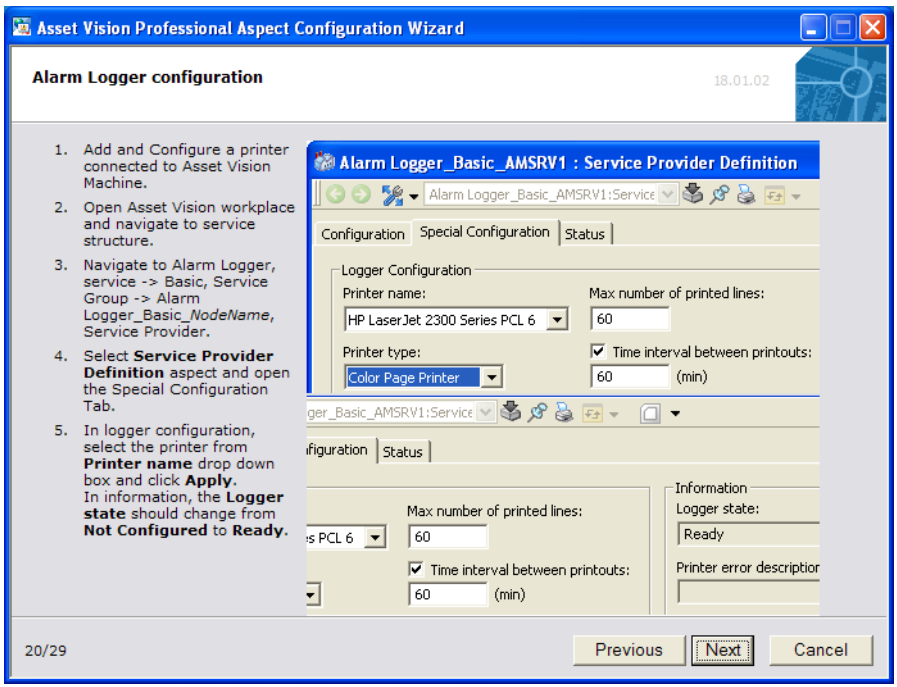


Figure 57. Configuring Alarm Logger

Perform the following steps to configure alarm logger:

1. Add and configure a printer connected to Asset Vision machine.
2. Open Asset Vision workplace and select **service structure**.
3. Select **Alarm Logger, service > Basic, Service Group > Alarm Logger_Basic_NodeName, Service Provider**.

4. Select Service Provider Definition aspect and select the **Special Configuration** tab.
5. In the Logger Configuration section, select the required printer name from the drop-down list and click **Apply**. The logger state changes from **Not Configured** to **Ready**.

Click **Next**. The Configuration Wizard now displays procedure to set security level in MS office in a screen similar to the one shown in Figure 58.

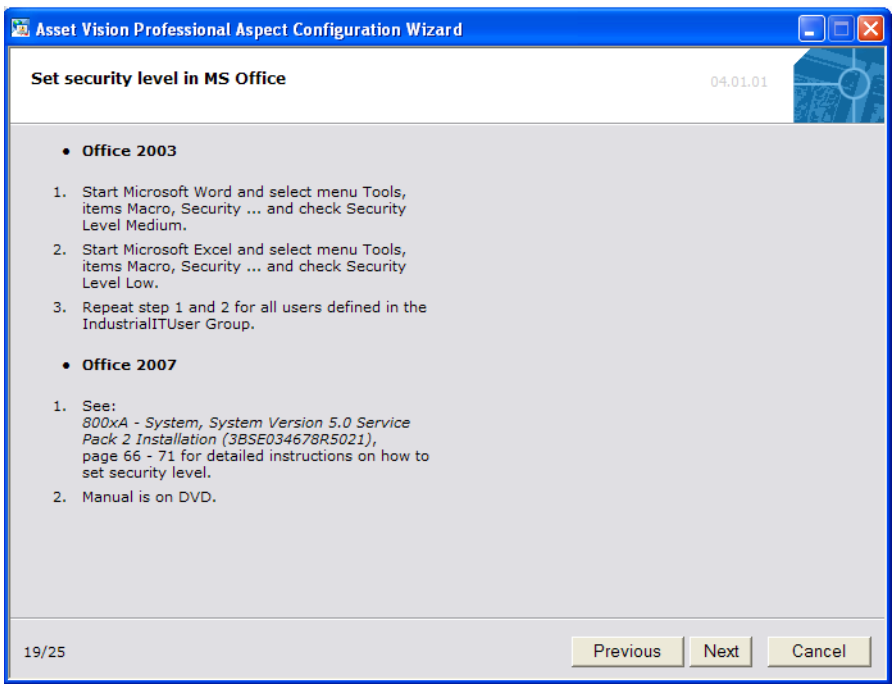


Figure 58. Setting Security Level in MS Office

Perform the following steps to set security level in MS Office 2003:

1. Open MS Word. Select **Tools > Macro > Security...**. The Security window is displayed. Select the **Security Level** tab and select the option **Medium**, and click **OK**.

2. Open MS Excel. Select **Tools > Macro > Security...**. The Security window is displayed. Select the **Security Level** tab and select the option **Low**, and click **OK.**

3. Repeat step1 and step2 for all users defined in the IndustrialITUser Group.

Refer to *800xA - System, System Version 5.0 Service Pack 2 Installation (3BSE034678R5021)* page 66 - 71for detailed instructions on how to set security level in MS Office 2007.

Click **Next** to see how to configure DCOM for HART multiplexer Connect.

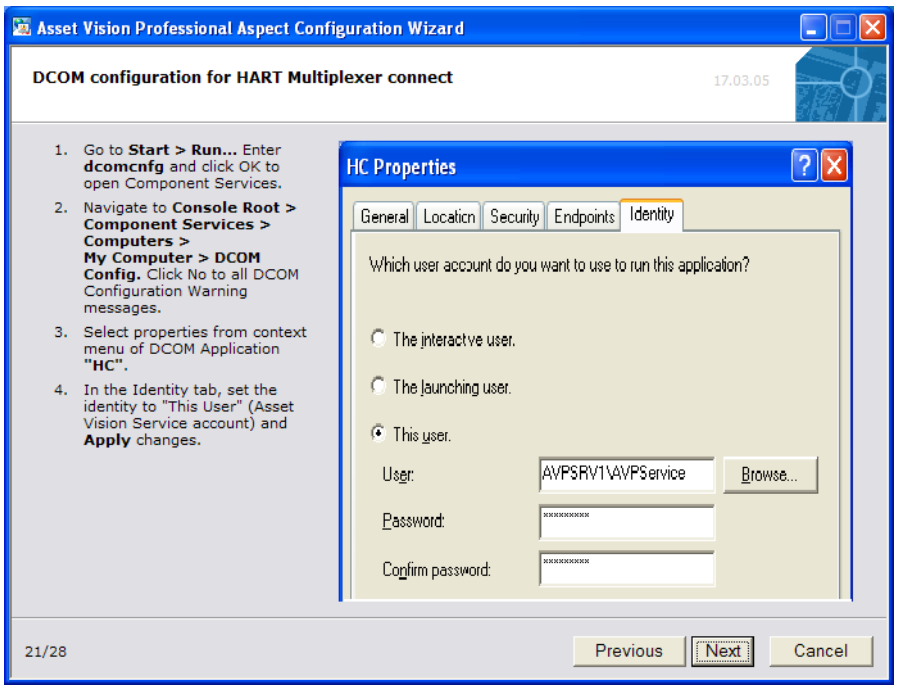


Figure 59. DCOM Configuration for HART Multiplexer

Perform the following steps to configure DCOM for a HART Multiplexer Connect:

1. From the **Start** menu, select **Run** and enter **dcomcnfg** and click **OK**.

2. From the **Console Root**, select **Component Services > Computers > My Computer > DCOM Config**.
3. Right-click on the **HC** component and select **Properties**.
4. Select the **Identity** tab in the Properties window, and set the identity to **This User (Asset Vision Professional service account)**.
5. Click **OK**.

Once the DCOM for HART Multiplexer connect in the Asset Vision Professional system is configured, click **Next**. This will result in a screen similar to the one shown in Figure 60.

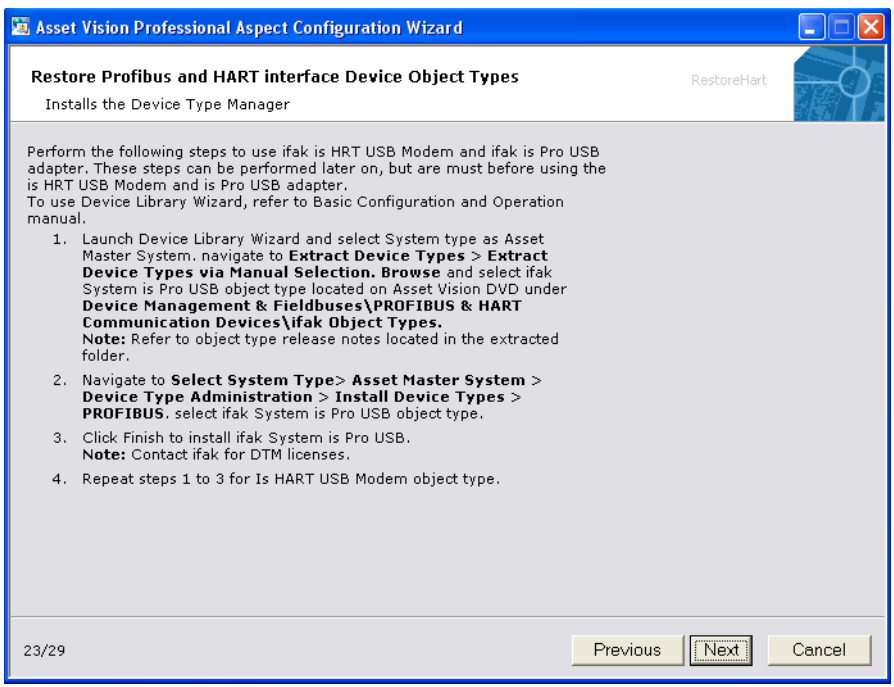


Figure 60. Restore PROFIBUS

Perform the following steps to use ifak PROFIBUS adapter. These steps can be performed later on, but are must before using the adapter.

To use Device Library Wizard, refer to *Industrial IT, Asset Vision Professional 5.0 SP2, Basic Configuration and Operation (3KXD151800R4201)*.

1. Double-click the Device Library Wizard icon on the Desktop. Select **Asset Master** and navigate to **Extract Device Types > Extract Device Types via Manual Selection**. Browse and select **ifak PROFIBUS adapter (ifak_System_is_Pro_USB)** located on Asset Vision DVD under **Device Management & Fieldbuses\PROFIBUS & HART Communication Devices\ifak Object Types**. Click **Next** and then Click **Finish** to complete the extraction. Click Main Menu to return to select type of configuration screen.

Refer to object type release notes located in the extract folder.

2. Select **Select System Type> Asset Master System > Device Type Administration > Install Device Types > PROFIBUS**. Select **IFAK_System_isPro_USB** object type.
3. Click **Finish** to install ifak is PRO Adapter.

Contact ifak for DTM licenses. Restoring either Is Net Cube Gateway or Is Pro USB adapter object type is sufficient to work with Profibus devices.

During restore/installation of “IFAK System is Pro USB V3.0 - DP” object type, “is Pro FDT V3” will be installed. If this DTM is already installed as a part of AVB installation, a dialog box to select Modify, Repair and Remove will be shown. In this case cancel the DTM installation.

Clicking **Next** results in a screen similar to the one shown if Figure 61, that describes the steps to install HART Device Object Types.

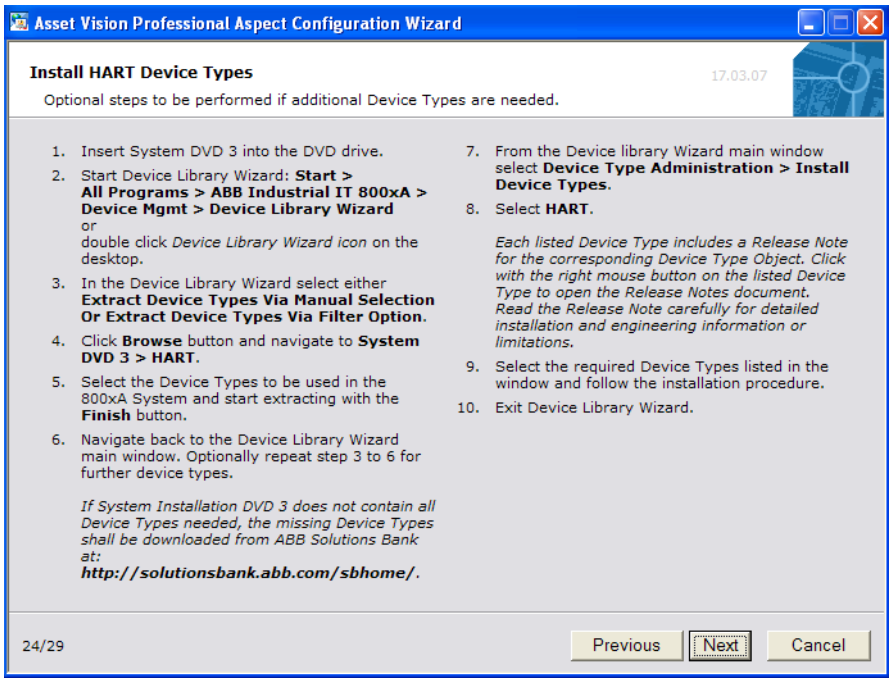


Figure 61. Installing HART Object Types

Clicking **Next** results in a screen similar to the one shown if Figure 62, that describes the steps to install PROFIBUS Device Object Types.

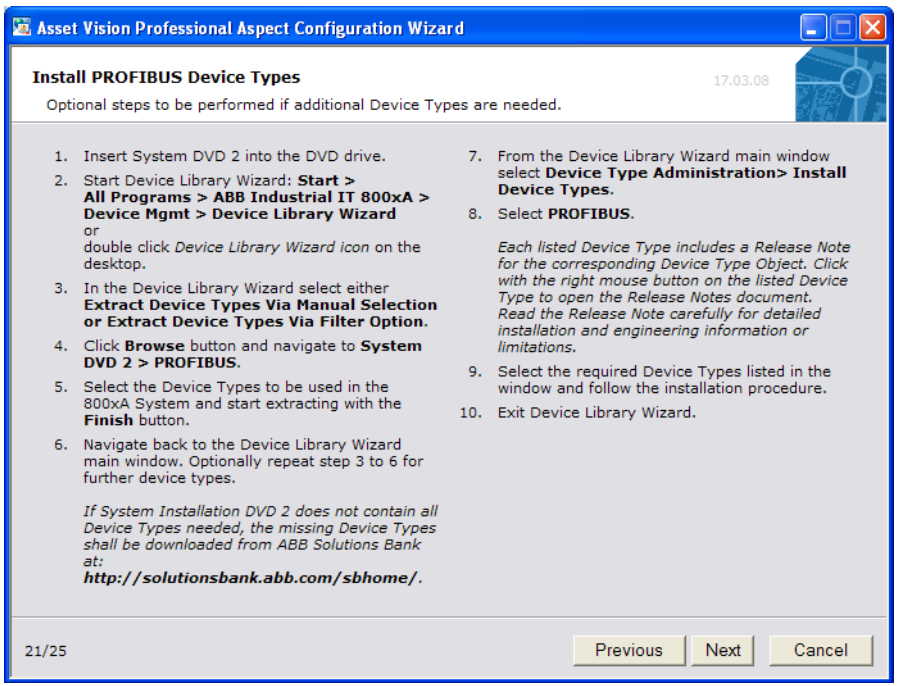


Figure 62. Installing PROFIBUS Object Types

Clicking **Next** result in a screen similar to the one shown if Figure 63, that describes the steps to install Foundation Fieldbus Device Object Types.

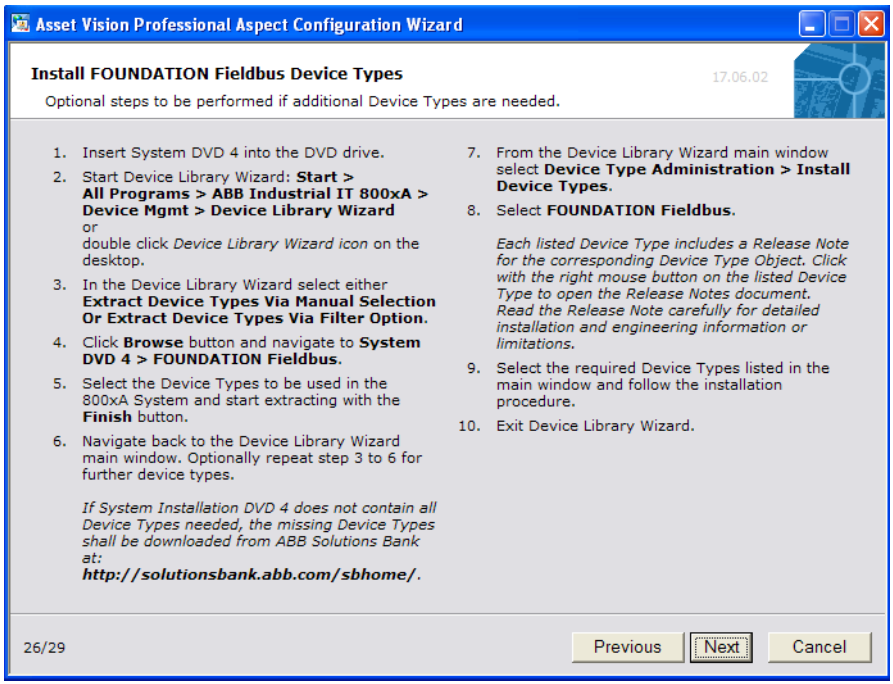


Figure 63. Installing FOUNDATION Fieldbus Object Types

Clicking **Next** results in a screen similar to the one shown in Figure 64, which installs is Pro Multiserver.

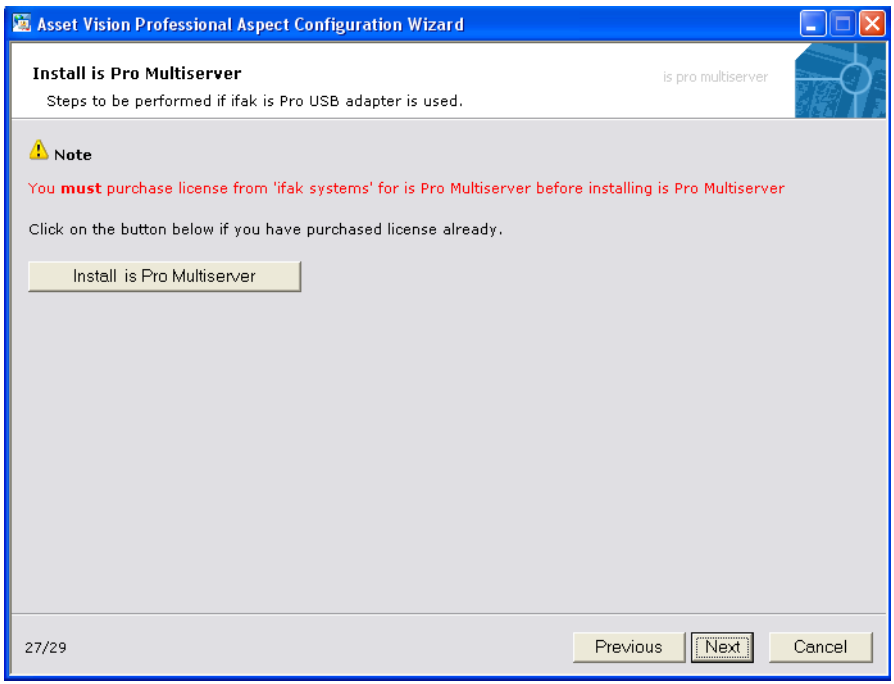


Figure 64. Installing is Pro Multiserver

To install is Pro Multiserver multiserver, license must be purchased from ifak system.

If any of these protocols such as HART, Profibus, or Foundation Fieldbus devices has to be used, then install only the applicable protocol object type.

Click **Next** to configure firewall for windows using a screen similar to the one shown in the Figure 65.

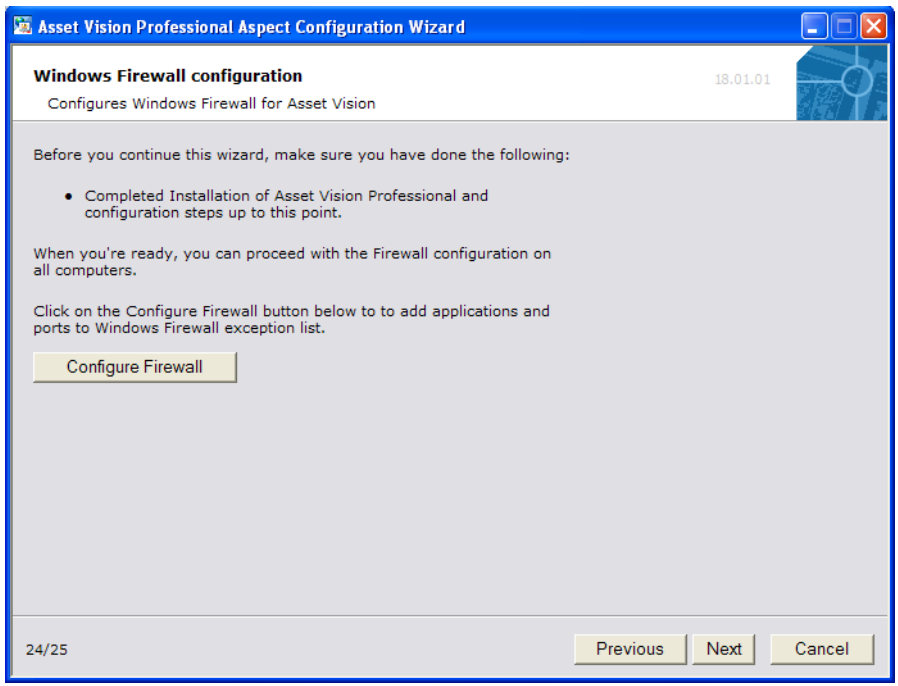


Figure 65. Configuring Firewall

Click **Configure Firewall**. A pop-up appears, indicating the applications are successfully added to the Windows Firewall exception list, and click **OK** to close the pop-up.

Click **Next**. A screen similar to the one shown in Figure 66 is displayed indicating the completion of the Asset Vision Professional configuration.

Figure 66. Asset Vision Professional Configuration Complete

Click **Finish** to complete the configuration of Asset Vision.

A popup is displayed with a message prompting to close the window.

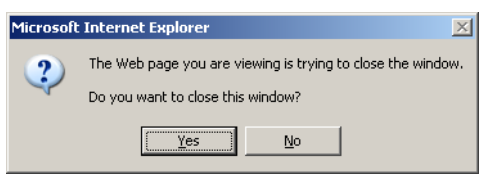


Figure 67. Window Close Warning - Internet Explorer [Close Window]

Click **Yes**.

Generating System Report

Asset Vision Professional System Report Wizard starts with a screen similar to the one shown in Figure 68.

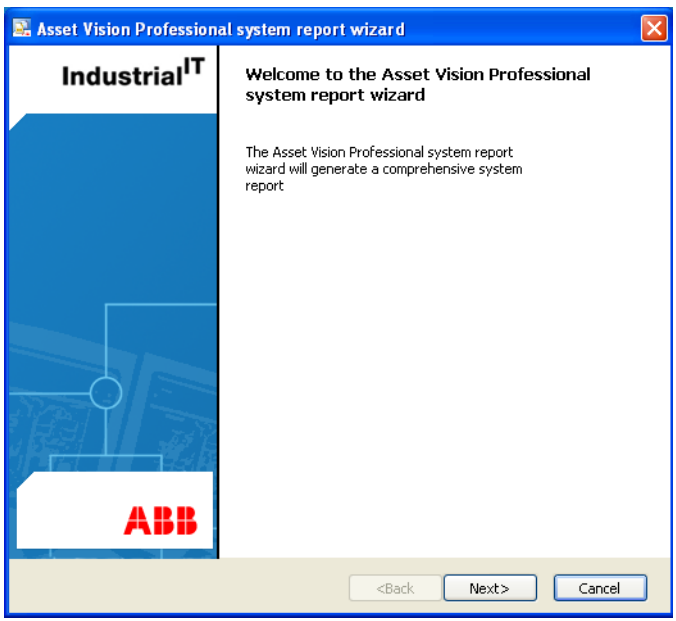


Figure 68. System Report Wizard - Welcome Screen

Click **Next**, which pops up a screen similar to the one shown in Figure 69.

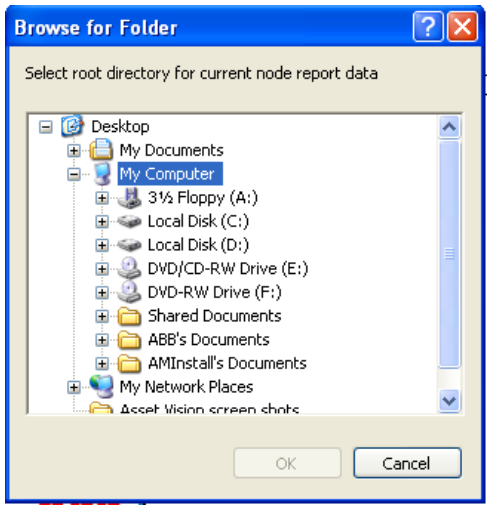


Figure 69. Browse for Folder to Place the System Report

Select the folder where the report has to be placed and click **OK**. In the system report wizard, similar to the screen shown in Figure 70, click **Next** to generate the report.

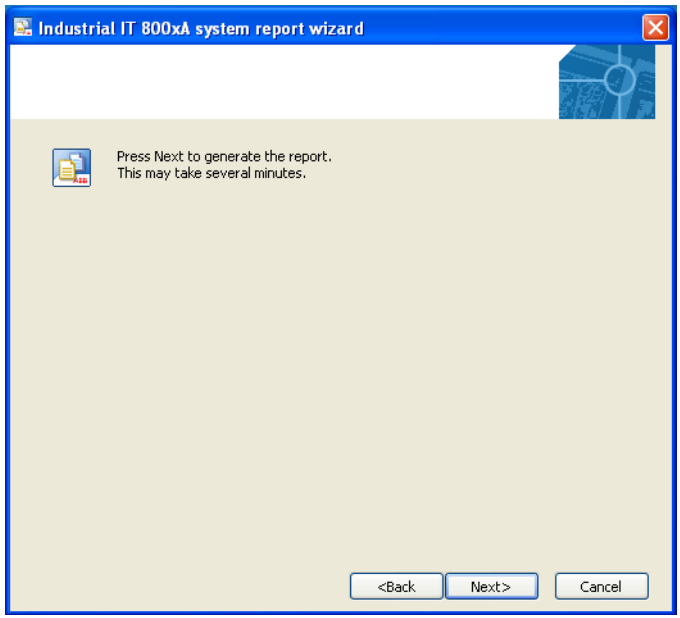


Figure 70. System Report Generation

Once the report generation is complete, a screen similar to the one shown in Figure 71 is displayed.

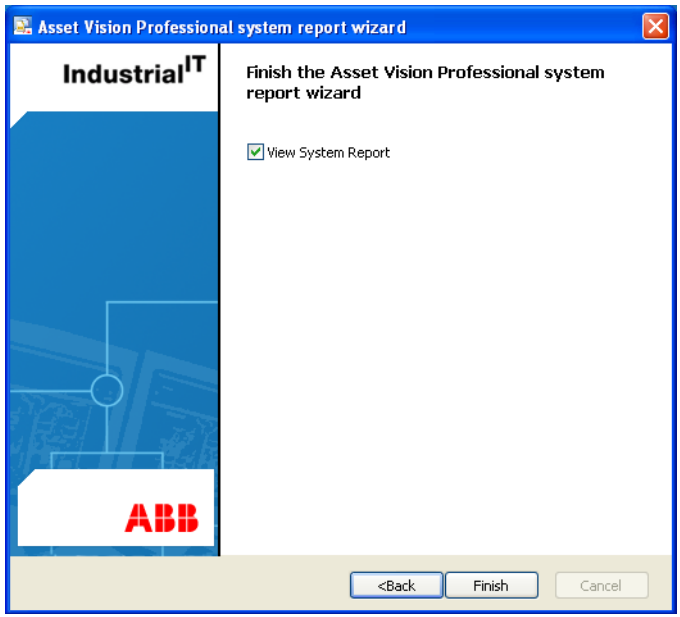


Figure 71. System Report Generation Complete

Select **View System Report** check box to view the system report, and click **Finish**. The generated report is displayed, which can be saved for future reference. A

message similar to the one shown below pops up indicating successful installation and configuration of Asset Vision.

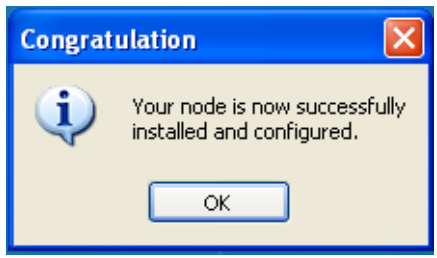


Figure 72. Asset Vision Professional - Installation and Configuration Complete

Congratulations! The Asset Vision node is successfully installed and configured.

Section 4 Setup of Asset Vision Basic

Installing Asset Vision Basic

Ensure that Asset Vision DVD is inserted into the drive prior to starting the installation.

Login as Administrator to get all the user rights to install Asset Vision Basic.

Asset Vision Basic installation is optional.

Setup Asset Vision using the Asset Vision System Installer. From the **Start** menu, select **Programs > Asset Vision System Installer > Asset Vision Basic > Start Asset Vision Basic Installation**.

After the menu selection is over, a message, similar to the one shown in Figure 73 is displayed. Click **Yes**.

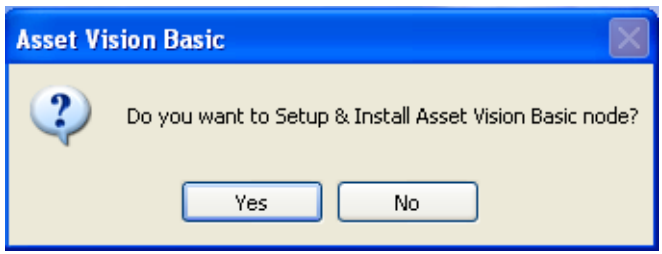


Figure 73. Asset Vision Basic Installation Confirmation

Browse for Folder window is displayed. Select DVD drive and click **OK**.

Before installing Asset Vision Basic, the system checks if the Dot Net Framework 2.0 is installed. If not, then a screen, similar to the one shown in Figure 74 is displayed.

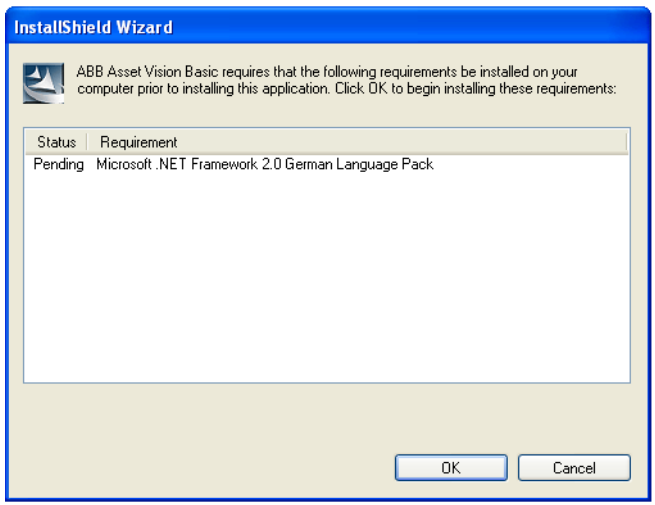


Figure 74. Asset Vision Basic Pending Software Message

Click **Ok** to install the software.

A welcome screen similar to the one shown in Figure 75 is displayed. Click **Next**.

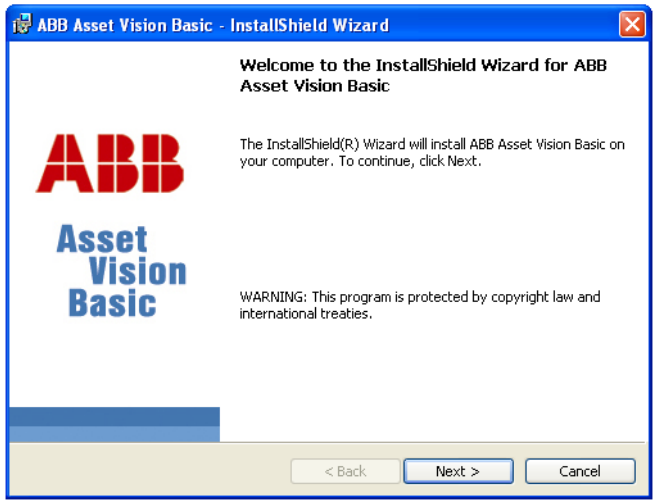


Figure 75. Asset Vision Basic Installation Wizard

The next screen as shown in Figure 76 displays the terms and conditions for using the ABB Software. Read the terms and conditions carefully and select **I accept the terms in the license agreement**.

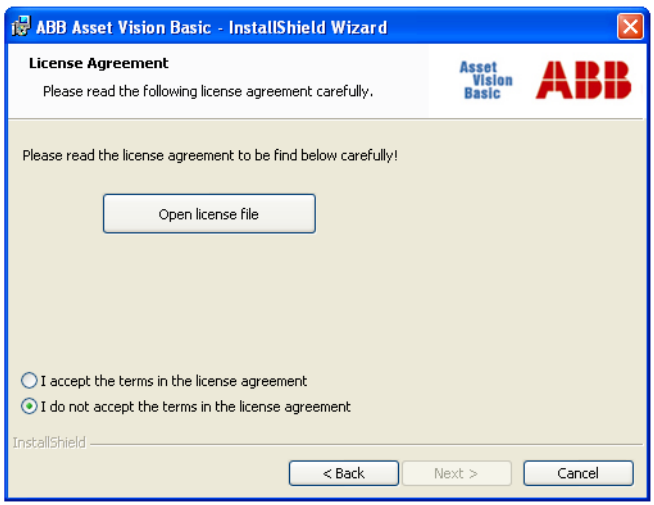


Figure 76. Asset Vision Basic License Agreement

Click **Next**.

The destination folder to which the Asset Vision Basic would be installed is displayed in a screen similar to the one shown in Figure 77.

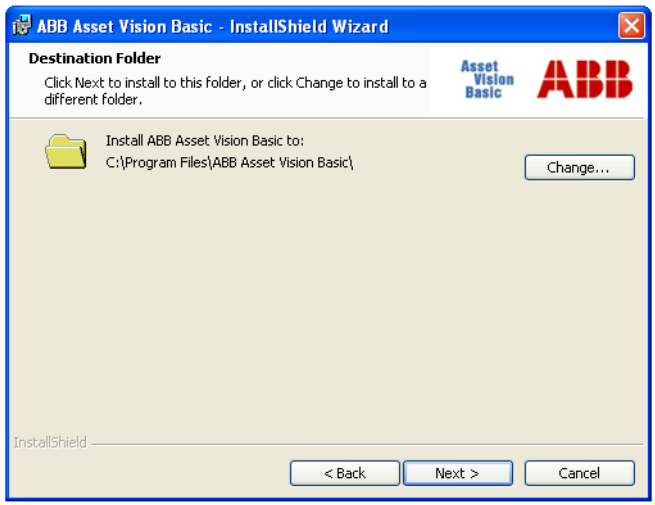


Figure 77. Asset Vision Basic Installation Folder

The recommended path for the installation is the default folder. Click **Change** to select a different folder for installing Asset Vision Basic.

Click **Next**. The wizard is ready to install the Asset Vision Basic. A screen similar to the one shown in Figure 78 is displayed.

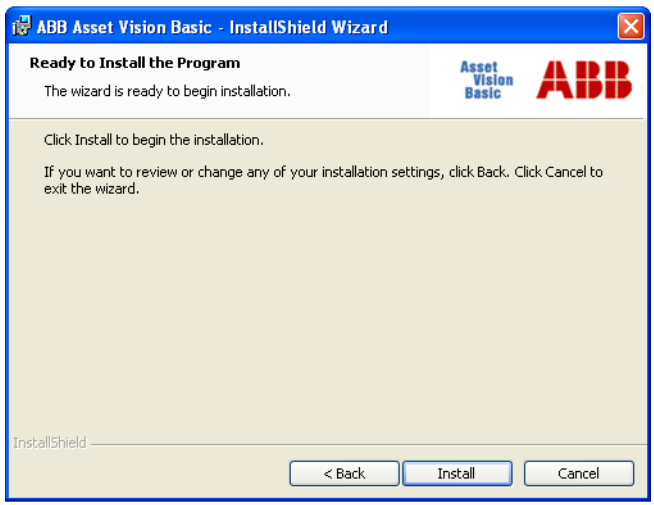


Figure 78. Asset Vision Basic Ready to Install

Click **Install**. The installation begins and the progress of the installation is shown in a screen, similar to the one shown in Figure 79 is displayed.

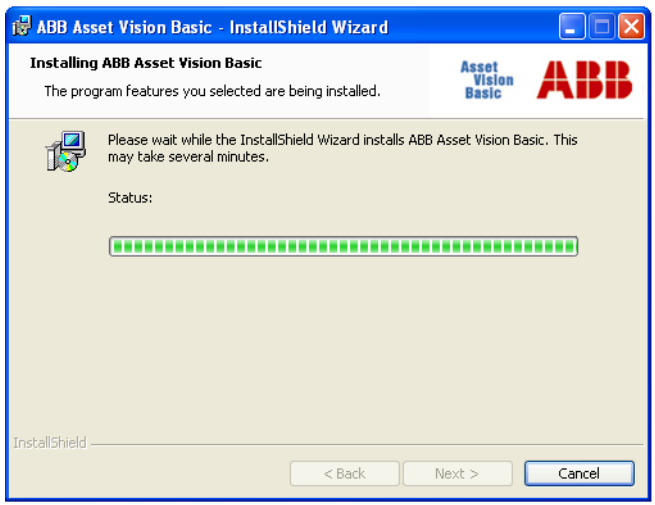


Figure 79. Asset Vision Basic Installation Progress Bar

Click **Next**. The Asset Vision Basic installation is complete and it is shown in a screen, similar to the one shown in Figure 80 is displayed.

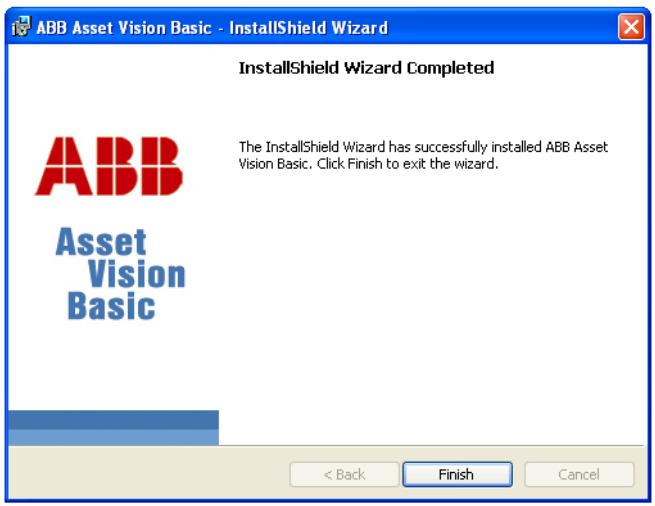


Figure 80. Asset Vision Basic Installation Complete

Click **Finish**.

If Asset Vision Professional and Asset Vision Basic are used as a combined node, then do not install these Device Type Manager (DTMs) that comes with the Asset Vision Basic installation.

Installing PROFIBUS Interface DTM

Perform the following steps to install Pro Field Device Tool (FDT) V3 using the Installshield Wizard:

Select the language in which the installation instructions should be displayed from the screen similar to the one shown in the Figure 81.

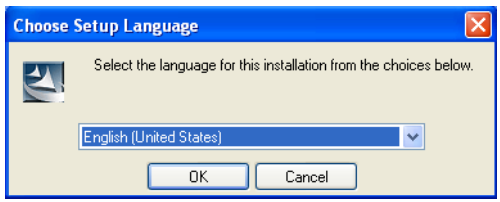


Figure 81. Select Setup Language

Click **OK**.

The InstallShield Wizard prepares to install the Pro FDT V3 and a screen similar to the one shown in Figure 82 is displayed.

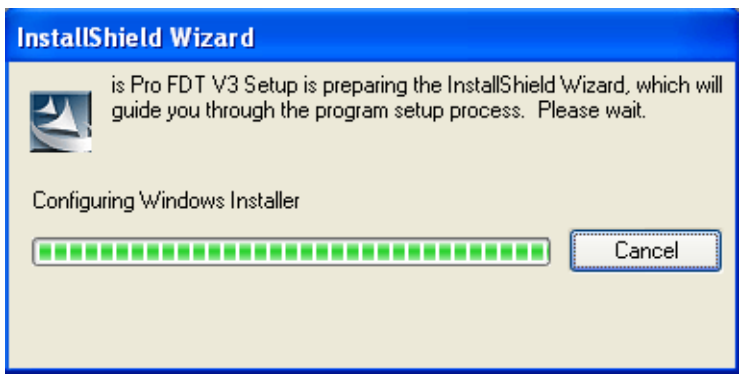


Figure 82. Pro FDT V3 Setup Installation

Once the InstallShield Wizard is ready, a welcome screen similar to the one shown in Figure 83 is displayed.

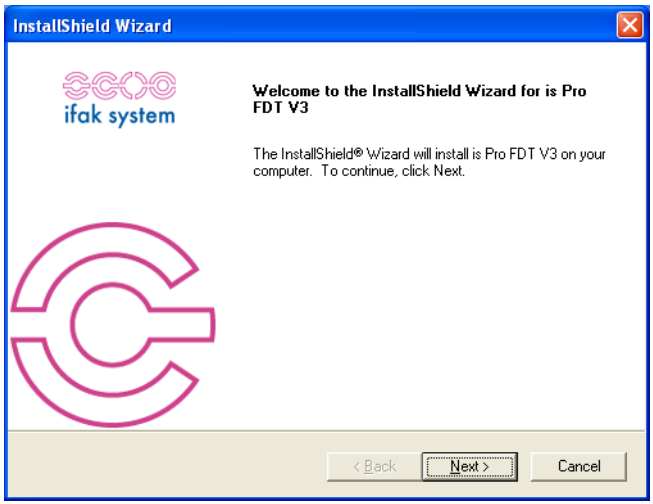


Figure 83. Pro FDT V3 Welcome Screen

Click **Next**. A customer information screen, similar to the one shown in Figure 84 is displayed.

Figure 84. Pro FDT V3 Customer Information

Enter the user name, company name and the CD key to install Pro FDT V3.

By default, the option **Anyone who uses this computer (all users)** is selected. Let the option be selected and click **Next**.

The destination folder to which the Pro FDT V3 would be installed is displayed in a screen, similar to the one shown in Figure 85.

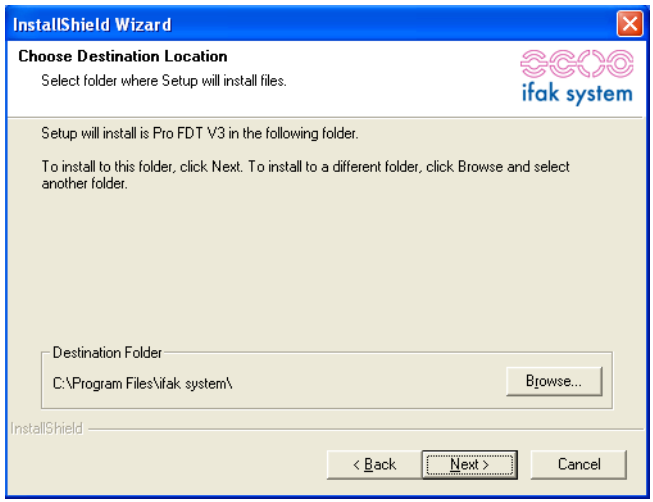


Figure 85. Pro FDT V3 Destination Folder

The recommended path for the installation is the default folder. Click **Browse** to select a different folder for installing Pro FDT V3.

During installation of “is Pro FDT V3” DTM, a dialog box to select Modify, Repair and Remove may be shown if this DTM is already installed as a part of Asset Vision Professional object type installation. In this case cancel the DTM installation.

Click **Next**. An installation type screen, similar to the one shown in Figure 86 is displayed.

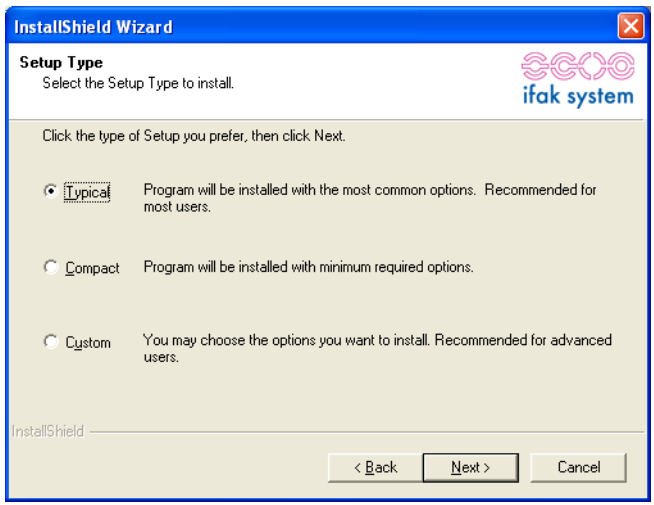


Figure 86. Pro FDT V3 Installation Type

Click **Next**. The components that would be installed are displayed in a screen, similar to the one shown in Figure 87.

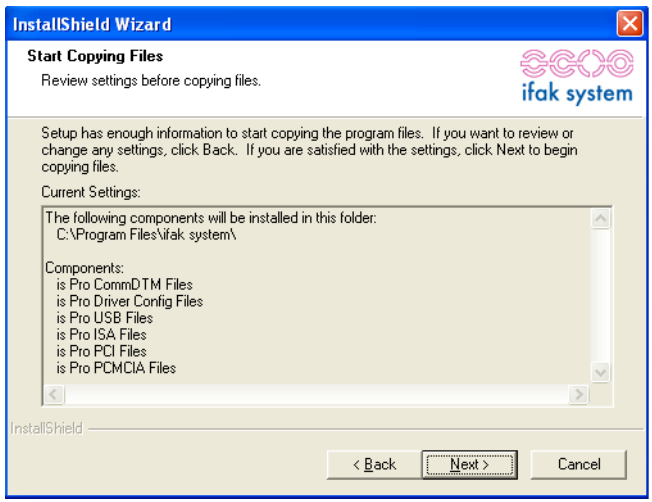


Figure 87. Pro FDT Components

Click **Next**. The Pro FDT V3 installation is complete, and a screen similar to the one shown in Figure 88 is displayed.

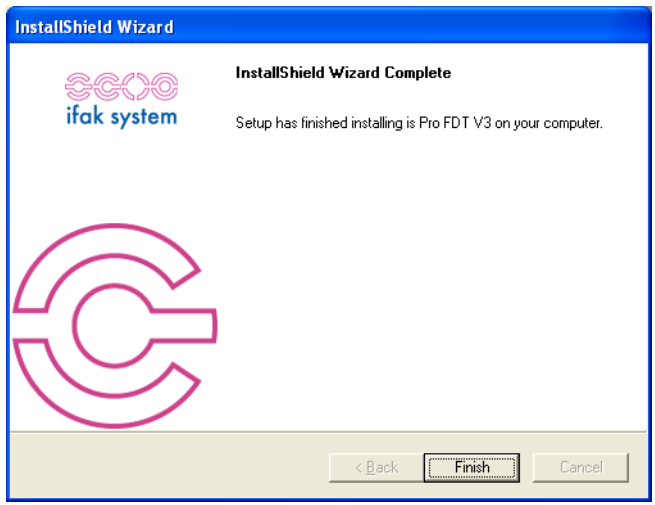


Figure 88. Pro FDT V3 Installation Complete

Click **Finish**.

Installing HART Modem DTM

Perform the following steps to install HRT CommDTM v2 using the Installshield Wizard:

Select the language in which the installation instructions should be displayed from the screen similar to the one shown in the Figure 89.

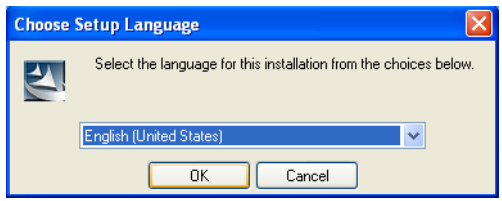


Figure 89. Select Setup Language

Click **OK**.

A welcome screen, similar to the one shown in Figure 90 is displayed.

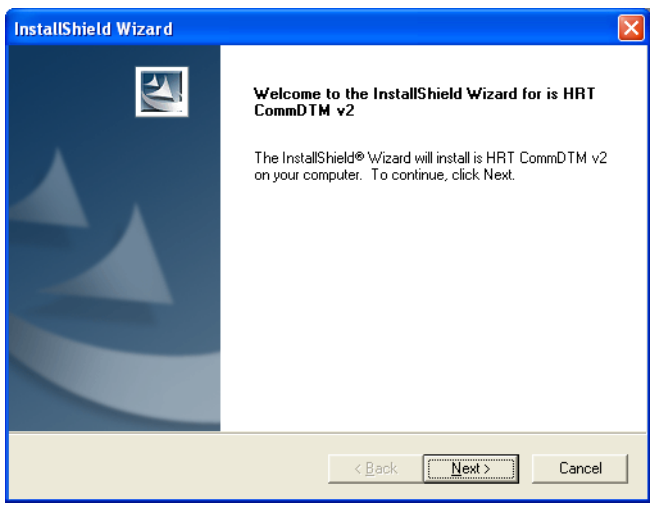


Figure 90. HART Comm Welcome Screen

Click **Next**. A customer information screen, similar to the one shown in Figure 91 is displayed.

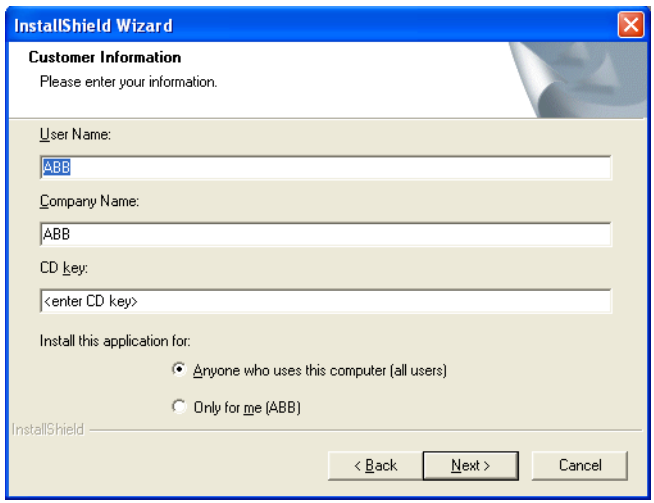


Figure 91. HART Comm Customer Information

Enter the user name, company name and the CD key to install HRT CommDTM v2.

By default, the option **Anyone who uses this computer (all users)** is selected. Let the option be selected and click **Next**.

An installation type screen, similar to the one shown in Figure 92 is displayed.

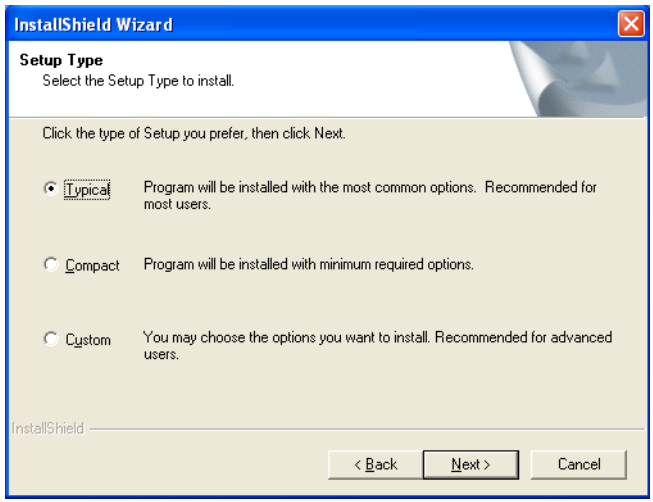


Figure 92. HART Comm Setup Type

Click **Next**. The components that would be installed are displayed in a screen, similar to the one shown in Figure 93.

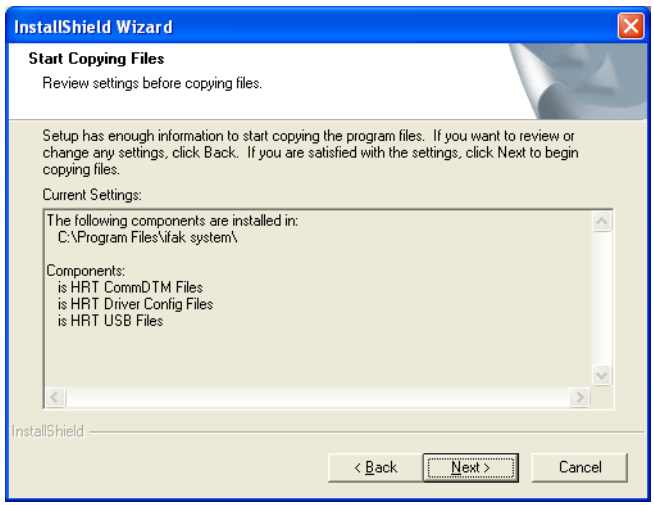


Figure 93. HRT Comm Components

Click **Next**. The HRT CommDTM v2 installation is complete, and a screen similar to the one shown in Figure 94 is displayed.

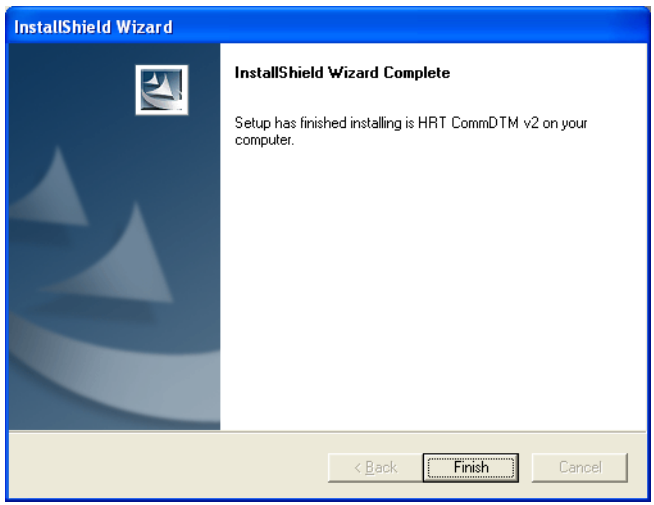


Figure 94. HART Comm Installation Complete

click **Finish**. A pop-up message is displayed to restart the system for the installation to get completed in a screen similar to the one shown in Figure 95.

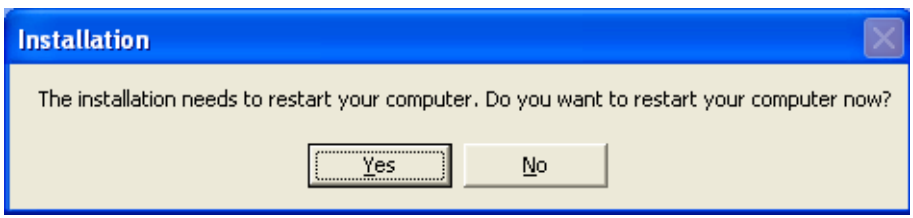


Figure 95. HART Comm System Restart

Click **Yes.** The Asset Vision Basic is successfully installed.

Section 5 Post Installation

Installing ifak DTM

To use ifak PROFIBUS adapter, Device Type Manager (DTM) for this object type needs to be installed.

The following section describes the DTM installation procedure:

- Extracting Device Object Types on page 117

Extracting Device Object Types

The following steps describe how to extract device object type for ifak PROFIBUS Adapters.

1. From the **Start** menu, select **(All) Programs > ABB Industrial IT 800xA > Device Mgmt > ABB Device Library Wizard**. The Device Library Wizard screen, similar to the one shown in Figure 96 is displayed.

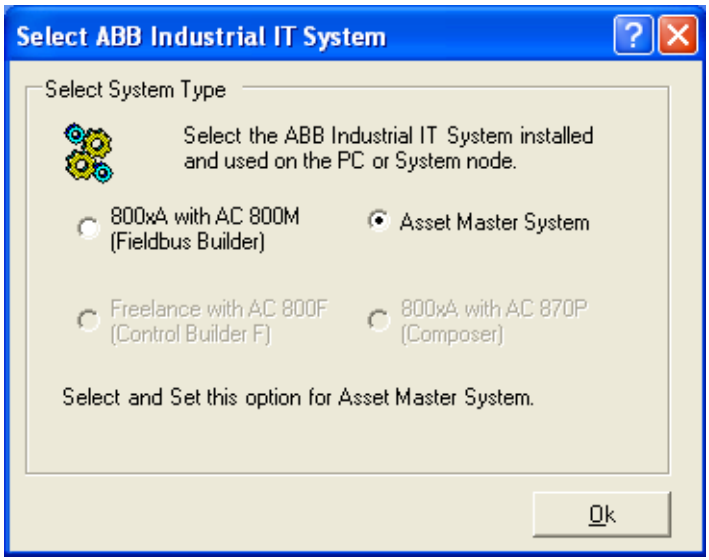


Figure 96. Select System Type

2. Select **Asset Master System** and click **OK**.

3. A screen similar to the one shown in Figure 97 is displayed.

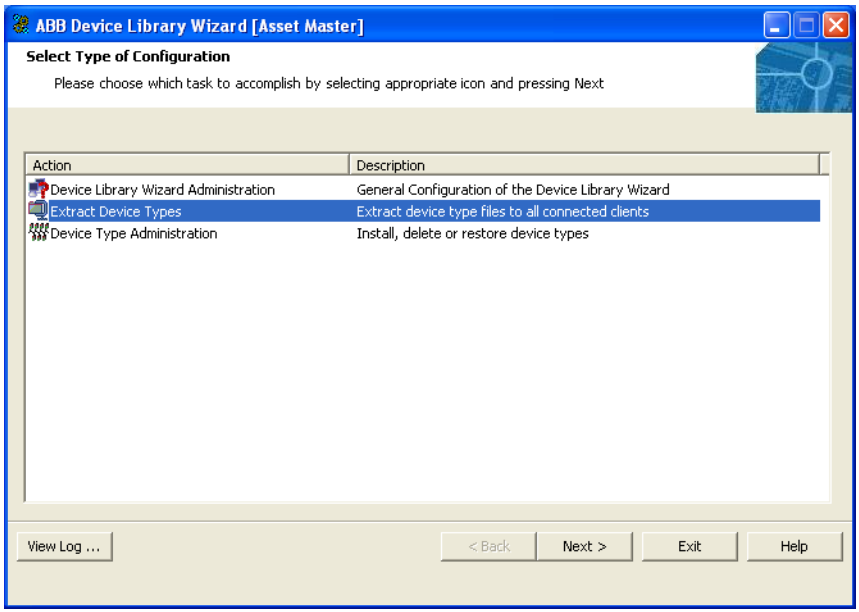


Figure 97. Select Configuration Type

4. Select **Extract Device Types** and click **Next**.

5. A screen similar to the one shown in Figure 98 is displayed.

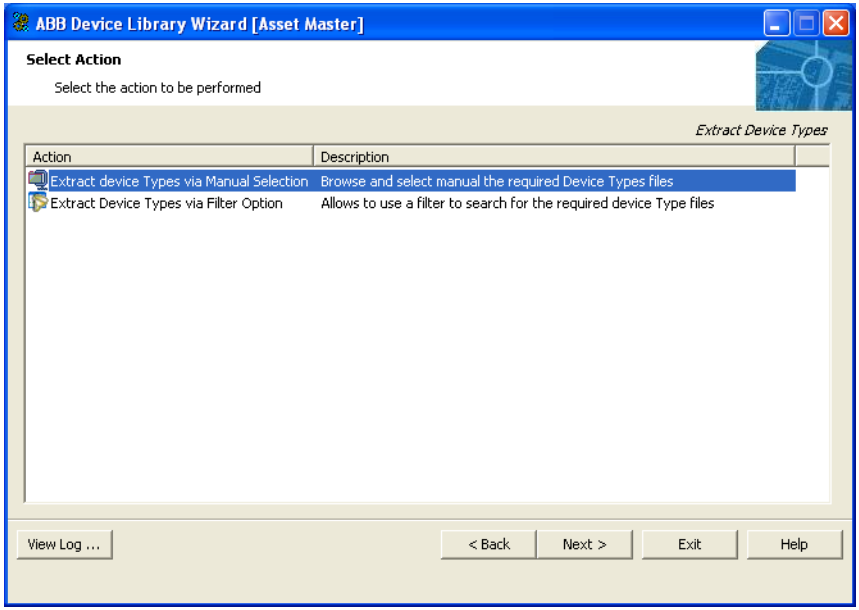


Figure 98. Select Action

6. Select **Extract device Types via Manual Selection** and click **Next**.

7. In the resulting screen, similar to the one shown in Figure 99, Click **Browse**.

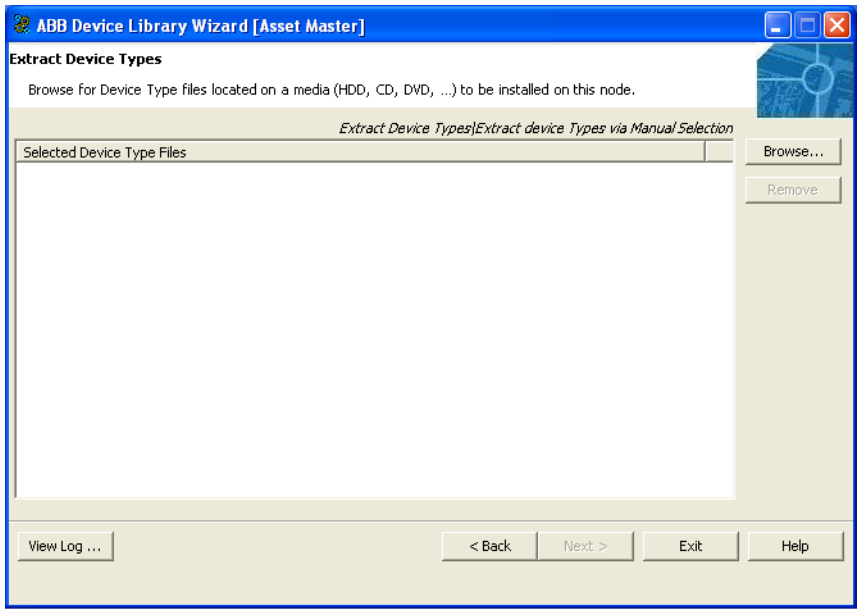


Figure 99. Extract Device Types

Browse and locate the **ifak Object Types** in the folder **PROFIBUS & HART Communication Devices,** located under **Device Management & Fieldbuses** on the Asset Vision DVD.

There could be periodical updates of Device Object Types released. The latest device object types can be found at ABB Solutions Bank.

8. Select the Device Object Types from the list, as shown in Figure 100, and click **Next**.

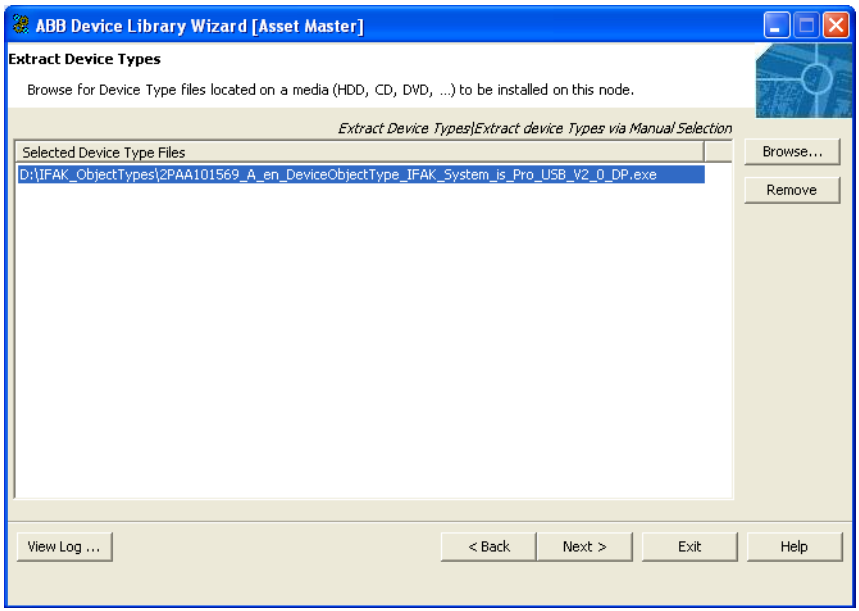


Figure 100. Select Device Object Type from List

9. In the resulting screen, similar to the one shown in Figure 101, review the Device Object Types to be extracted and click **Finish** to continue extraction.

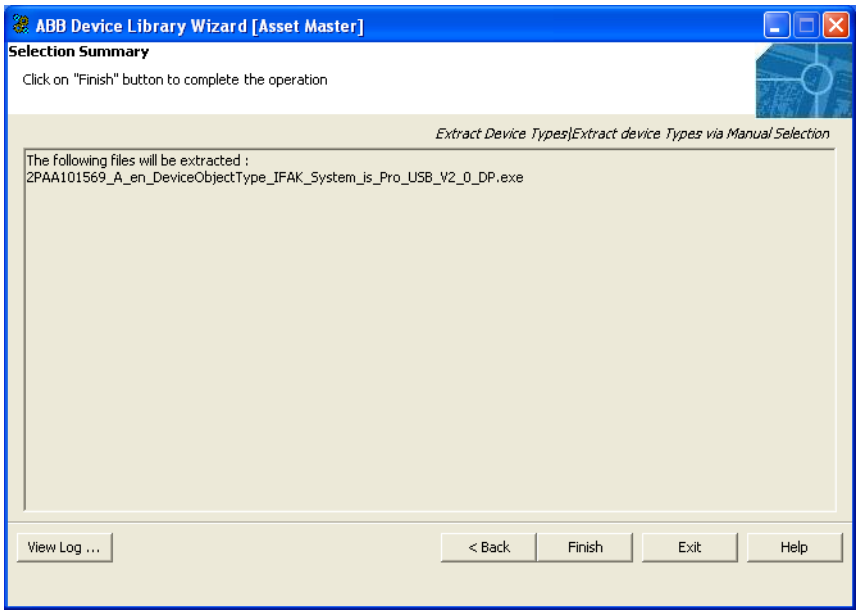


Figure 101. Selection Summary

Once the Device Object Type is extracted, click **Main Menu** to return to the main menu of Device Library Wizard.

10. In the resulting screen, similar to the one shown in Figure 102, select **Select Device Type Administration** and click **Next**.

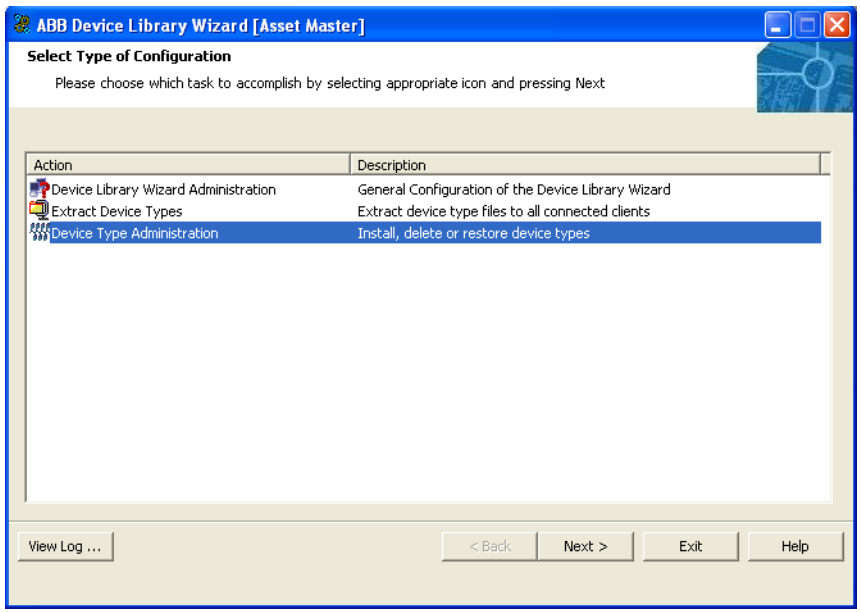


Figure 102. Select System

11. From the list of actions in the resulting screen, as shown in Figure 103, select **Install Device Types** and click **Next**.

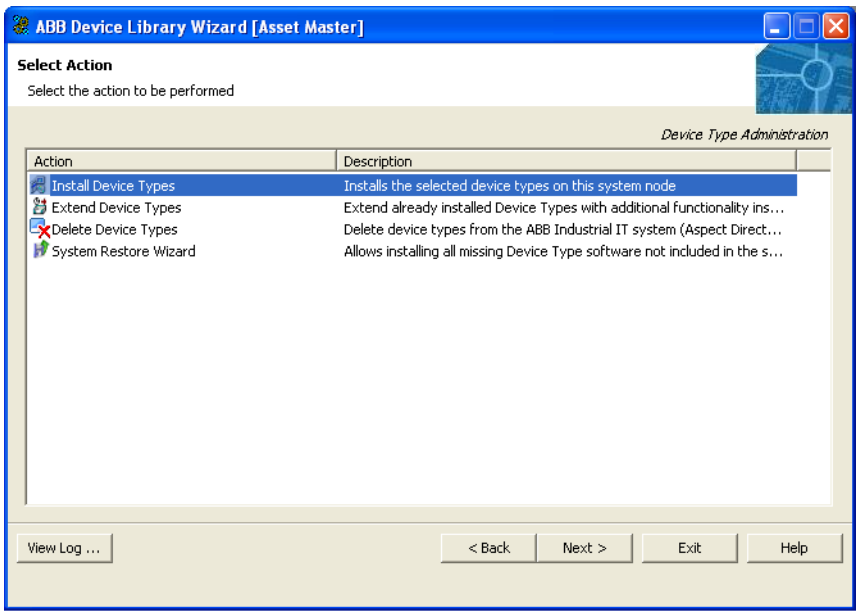


Figure 103. Install Device Types

12. The resulting screen, similar to the one shown in Figure 104, lists the Fieldbus Protocols. Select the protocol corresponding to the Device Object Type to be restored and click **Next**.

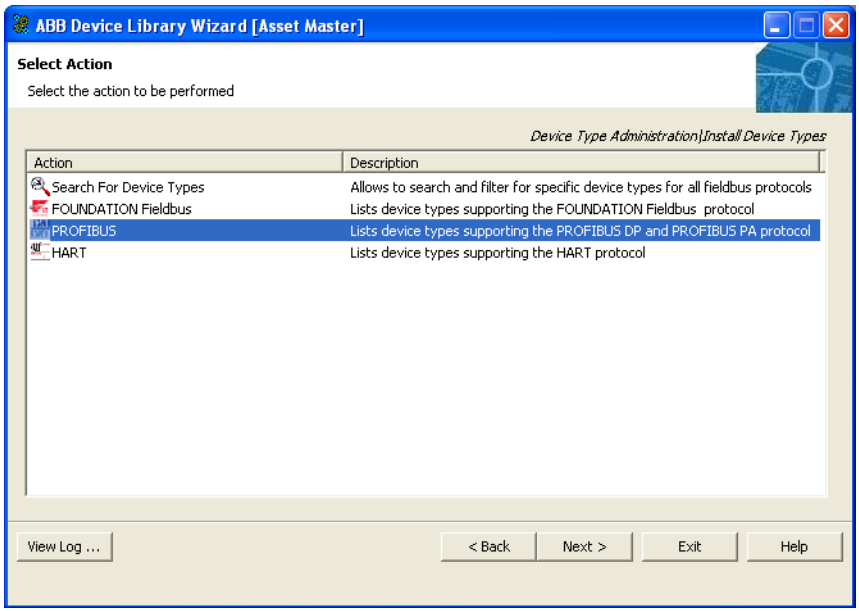


Figure 104. Select PROFIBUS Protocol

13. In the resulting screen, similar to the one shown in Figure 105, select from the list of Device Object Types that are to be restored by checking the box against the corresponding device. Click **Next** to continue.

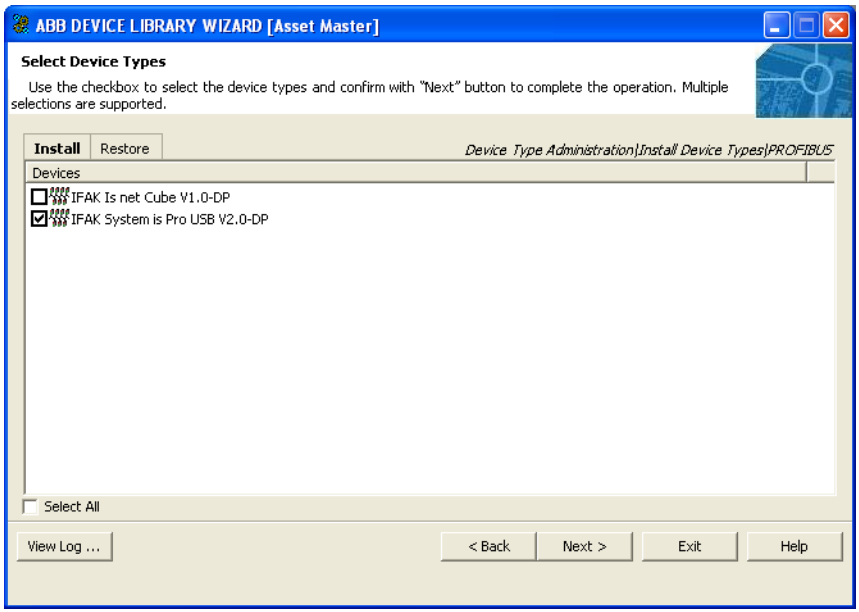


Figure 105. Select Device Types

14. The resulting screen, similar to the one shown in Figure 106, displays a summary of the object types being restored. Review the report and then click **Finish** to continue to restore.

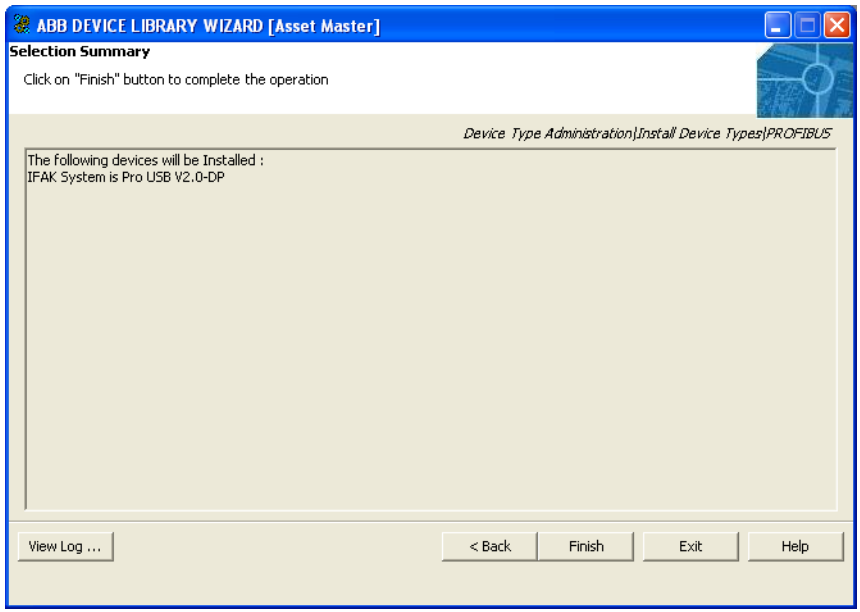


Figure 106. Device Type Selection Summary

15. The object type restore process invokes the DTM installer during restoration. Follow the instructions on screen to arrive at the screen similar to the one shown in Figure 107.

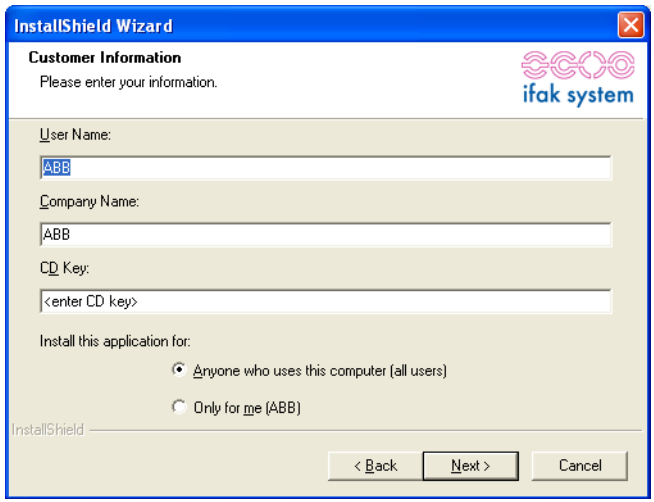


Figure 107. Customer Information Screen

Refer to the backside of the ifak CD cover, and enter the Company Name and CD Key exactly as printed. Follow the on screen instructions to continue the DTM Installation to completion.

The installer, at the end of the DTM installation, will prompt for a machine restart. Restart the machine for the DTM to install and register successfully.

16. Once the DTM installation is complete, a screen similar to the one shown in Figure 108 is displayed, with a summary report of the restore process. Errors if any, during the restore process, are displayed in the report.

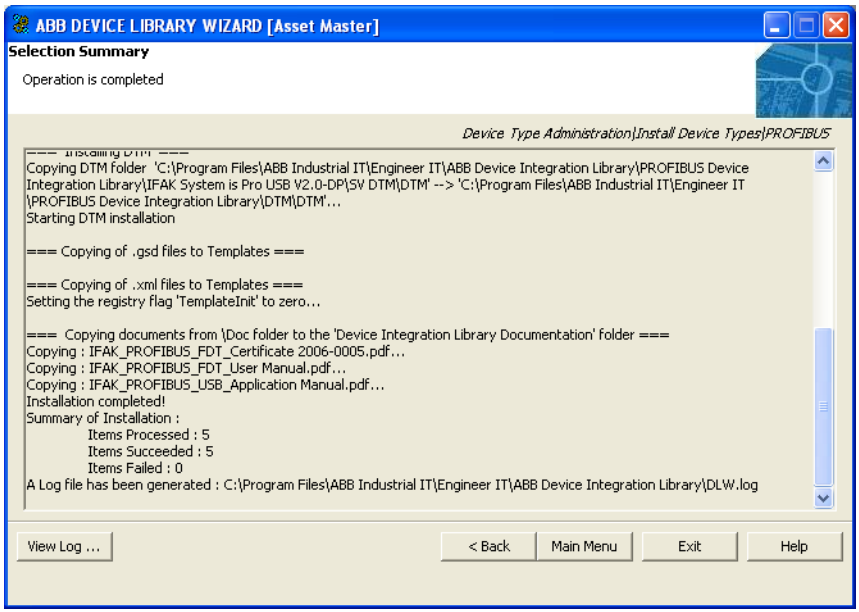


Figure 108. Restore Process Selection Summary

Click **Exit** to complete the object type restore process.

SMS and e-mail Messaging

Introduction

The procedure in this section is required to correctly configure SMS and e-mail Messaging in the Service Structure.

Configuring the Location

1. Open a Asset Vision Professional Workplace.

2. Use the Structure Selector to open the **Service Structure**
3. Use the Object Browser to navigate to:

   Services > Messenger Server, Service > Messenger SG_1,

   Service Group > Messenger SP_1, Service Provider
4. Select Service Provider Definition in the Aspect List Area.
5. Under the Configuration tab in the Preview Area:
   a. Select the Asset Vision Node: drop-down list box
   b. Select the **Enabled** check box and click **Apply**.
   c. Verify that the **Current** field (below the Enabled check box) changes from Undefined to Service.

Restarting the Event Collector Service

The following steps need to be performed to see events in Messenger Event Log:

1. Use the Structure Selector to open the **Service Structure**.
2. Use the Object Browser to navigate to:

   Event Collector,Service > ABB 800xA System Message Server,Service Group > Event Collector_ABB 800xA System Message Server_NodeName, Service Provider

   where NodeName is the Asset Vision node.
3. Select Service Provider Definition in the Aspect List Area.
4. Clear the **Enabled** check box and click **Apply**.
5. Select the **Enabled** check box and click **Apply**.
6. This will restart the Event Collector_ABB System Message *Server_NodeName* service and the *Messenger Event Log* will display all events.

Asset Optimization

Introduction

The Asset Optimization Functional Area includes:

• Asset Optimization.

• PC, Network and Software Monitoring.

After restoring Asset Vision Professional System, the following post installation procedures for Asset Optimization are performed.

AoWebServerNode

The following steps are required to correctly set the Asset Vision Node.

1. Open a Asset Vision Professional Workplace.
2. Use the Structure Selector to open the Control Structure.
3. Use the Object Browser to navigate to:

Root, Domain > Asset Optimization, Asset Optimization

4. Select Asset Optimization Configuration Properties in the Aspect List Area.
5. In the Preview Area, set the **AoWebServerNode** property to the name of the Asset Vision Professional node.

Asset Monitoring Service Provider Node

The following steps are required to correctly set the Asset Monitoring Service Provider Node:

1. Open a Asset Vision Professional Workplace.
2. Use the Structure Selector to open the **Service Structure**.
3. Use the Object Browser to navigate to:

Services > Asset Monitoring, Service > AssetMonitoring SG_1, Service Group > AssetMonitoring SP_1, Service Provider

4. Select **Service Provider Definition** in the Aspect List Area.

5. Set the Asset Optimization Service Provider node to Asset Vision Node.
6. Select the **Enabled** check box and click **Apply**. This will set the Service Provider hostname.
7. Use the Structure Selector to open the **Control Structure**.
8. Use the Object Browser to navigate to:

Root, Domain > Asset Optimization, Asset Optimization > AO Server 1, AO Server 1

9. Select **Asset Optimization Server** in the Aspect List Area.
10. Verify that **Service Status** is Service, and that the Asset Monitoring Engine is running.

Restarting the Event Collector Service

The following steps need to be performed to see events in Asset Optimization Event Log:

1. Use the Structure Selector to open the **Service Structure**.

2. Use the Object Browser to navigate to:

Event Collector,Service > ABB 800xA System Message Server,Service Group > Event Collector_ABB 800xA System Message Server_NodeName, Service Provider where NodeName is Asset Vision Professional Node.

3. Select **Service Provider Definition** in the Aspect List Area.

4. Disable the **Enabled** check box and click **Apply**.

5. Enable the **Enabled** check box and click **Apply**.

6. This will restart the Event Collector_ABB System Message *Server_NodeName* service and the Asset Optimization Event Log will display all events.

Web-Enabled Views on Non-Industrial IT Systems

The software requirements on non-Industrial IT systems required to support web-enabled Asset Optimization views are:

- Internet Explorer 6 or later.

- MS XML 3.0 with Service Pack 2 or later.
- Microsoft Visual C++ 2005 SP1 Redistributable package (x86).

  (vcredist_x86.exe available for download from Microsoft).

The maximum security settings on non-Industrial IT systems required to support web-enabled Asset Optimization views are:

- Set Local Intranet security to High.
- Select Custom Level and set the following:
  - Download signed ActiveX® controls: Prompt.
  - Run ActiveX controls and plug-ins: Enable.
  - Script ActiveX controls marked for safe scripting: Enable.
  - Active scripting: Enable.

Accessing the Asset Optimization thin client interface always requires user authentication for Asset Optimization web pages.

To access Maximo portal views, set Microsoft VM to High Safety and Scripting of Java™ applets to Enable.

Maximo Portal views are web access into the Maximo system. They work best with versions of the Java Virtual machine at least as new as J2SE 1.6.00 (Java 2 SDK and Java 2 Runtime Environment).

SAP/PM Integration

The Asset Optimization integration with the SAP/PM module requires that the SAP administrator install ABAP code on the SAP/PM production server where the PM module is installed.

1. Navigate to the directory where Asset Optimization software is installed.
2. Use Windows Explorer to locate the following directory: ...*\Asset Optimization\SAPConnectivity\SAP-ABAP*
3. This directory contains the source for ABB's ABAP integration code and documentation that describes the ABAP code integration.

   The ABB ABAP integration code source files are:

- Z_ABB_EQUIPMENT_DETAIL.ABAP.doc
- Z_ABB_MS_LIST.ABAP.doc
- Z_ABB_NOTIFICATION_CREATE.ABAP.doc
- Z_ABB_NOTIFICATION_LIST.ABAP.doc
- Z_ABB_OBJECTSTATUS_LIST.ABAP.doc
- Z_ABB_WORKORDER_LIST.ABAP.doc
- Z_ABB_WORKORDER_HIST1.ABAP.DOC

Reference documents include the following:

- SAP RTAO Development.doc
- -Z_ABB_PM_FunctionGroup-Modules.doc

Refer to the SAP/PM Basis and ABAP integration personnel for details involving the addition of ABAP-enabled interfaces in SAP.

DMS Calibration Integration

This topic covers the post installation tasks required when using DMS Calibration Integration.

DMS Software Users Configuration

Asset Vision Professional users must also be configured in the DMS software. Configure all Asset Vision Professional users in the DMS software who require access to DMS information, including the Asset Vision Professional Service User. Refer to the ABB User Guide Device Management System instruction for information on configuring users.

A prompt will appear asking that a password be entered, even for domain users. This is due to creating a DMS account to use if logging into the DMS client without using Windows Integrated Security. This password does not need to match the Windows password and must be between four and ten characters.

DMS Server Configuration on non-Asset Vision Node

If the DMS Server is installed on a non-Asset Vision Professional node, additional Asset Optimization software components are required.

1. From the DMS Server node, navigate to the Asset Viewer web page at: *http://<aoserver>/abbao*.

   Where <aoserver> is the hostname of Asset Vision node.

2. If prompted to accept the Asset Viewer ActiveX component, accept it. This component is required for connection to the DMS Server.

Changing the DMS Server Location

The DMS Server location is defined by the DMS Server URL configured in the DMS client. In the rare case where a DMS Server must be moved, the location must be changed for all DMS clients on all nodes, and the AO Server must be rebooted. Refer to the ABB User Guide Device Management System instruction for information on changing the URL. In addition, the location must be changed in each of the Division aspects that refer to that DMS server.

Configuring Internet Explorer

Perform the following steps to configure Internet Explorer with Asset Optimization:

1. Use standard Windows procedures to access the Local Area Network (LAN) Settings dialog.
2. If proxy configuration is enabled, enable the **Automatically detect settings** check box.

Manually Adding the DataDirect Add-In

Add-in tools are embedded in Excel on a user basis. Initially, the DataDirect add-in tools are only available for the user that installed the DataDirect software. Follow these steps to manually add the add-in tools.

1. Login as AVPService User.
2. Open Microsoft Excel.
3. From the Excel menu bar select **Tools>Add-Ins**. This displays the Add-ins

dialog.

4. Click **Browse** and use the Windows file chooser dialog to find and select the DataDirect.xla file located in:

   "%ABB_ROOT%InformIT\DataDirect\Bin"1.

   This makes the DataDirect Add-in available in the Add-ins dialog, Figure 109. Any add-ins listed in this dialog may be added or removed from Excel by checking or unchecking the corresponding check box.

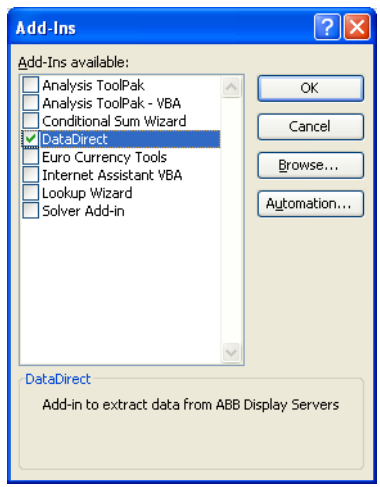


Figure 109. Data Direct Add-in

5. Make sure the **DataDirect** check box is selected, then click **OK**.

Enabling Macros

Macros MUST be enabled (macro security level = Low) in order to use the DataDirect add-in tools. The first time an Excel Worksheet is opened with the DataDirect add-in tools, a message asking whether or not to enable macros may be displayed. When this happens, click **Enable macros** . This sets the macro security level to Low for the current session. The security setting will revert back to medium

the next time Excel is opened. Scheduled DataDirect reports with VBA macros will not run unless the macro security is permanently set low. To do this:

1. From the Excel menu bar, choose **Tools>Macro>Security**.
2. Select the Low security level in the Security dialog, Figure 110, then click **OK**.

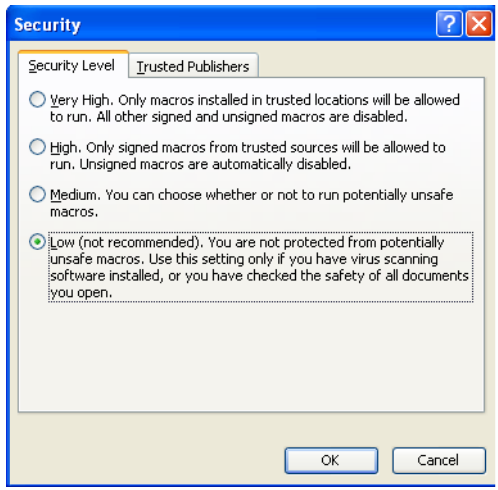


Figure 110. Enabling Macro Security

Macros have to be enabled for all users.

Excel Initialization

The following procedure is necessary if the XY Profile Deviation Asset Monitor is used:

Failure to perform the required Microsoft Excel user setup when using the XY Profile Deviation Asset Monitor may cause the AO Server startup to fail.

1. Use the Asset Vision Professional Service User account to open Microsoft Excel at least once.

2. Perform the required user setup (first time execution installation user initials).

PC, Network and Software Monitoring

Introduction

This section describes the actions necessary to set up the Basic Computer Monitoring functionality of PC, Network and Software Monitoring.

Basic Computer Monitoring

Set up Basic Computer Monitoring according to the standard PC, Network and Software Monitoring documentation contained in Industrial IT, 800xA - Asset Optimization - PC, Network and Software Monitoring, Configuration (3BUA000447Rxxxx). This involves installing the PNSM system extension and configuring the OPC Data Source Definition aspect in the IT Server object in the Control Structure.

To set up the OPC Data Source Definition aspect:

1. Open a Asset Vision Professional Workplace.
2. Use the Structure Selector to open the **Control Structure**.
3. Use the Object Browser to navigate to and select **IT OPC Server Network** in the Aspect Object Area.
4. Right-click on OPC Data Source Definition in the Aspect List Area and select **Config View** from the context menu.
5. Click **New** in the Preview Area.
6. Click **Add** and select the appropriate service provider from the list.
7. Click **OK** twice.
8. Click **Apply**.

In order to create and configure the Basic Computer Monitoring functionality, the Basic Computer Monitoring Configuration Tool must be running.

Run the Basic Computer Monitoring Configuration Tool once all nodes that will form the 800xA System have been added and identified to the 800xA System (i.e. added as Aspect Server, Connectivity Servers, or Clients in the Configuration Wizard). If new 800xA System nodes are added or removed after the Basic Computer Monitoring Configuration Tool has been run, then it will be necessary to run the Basic Computer Monitoring Configuration Tool again to ensure that the correct assets are being monitored.

1. Select:

   Start > All Programs > ABB Industrial IT 800xA > Asset Optimization > PC, Network and Software Monitoring > Basic Computer Monitoring Configuration Tool to launch the Basic Computer Monitoring Configuration Tool.

2. Click **Start**. The application will automatically close when it is completed.

Normally, only minor configuration changes are required after the software is installed and the Basic Computer Monitoring Configuration Tool is run. The default alarm limits are expected to be suitable in most situations. In some cases, it may be necessary to modify the hard drives that require monitoring. Changing the alarm

limits and the hard drives being monitored is done in the Basic Computer Device aspect shown in Figure 111.

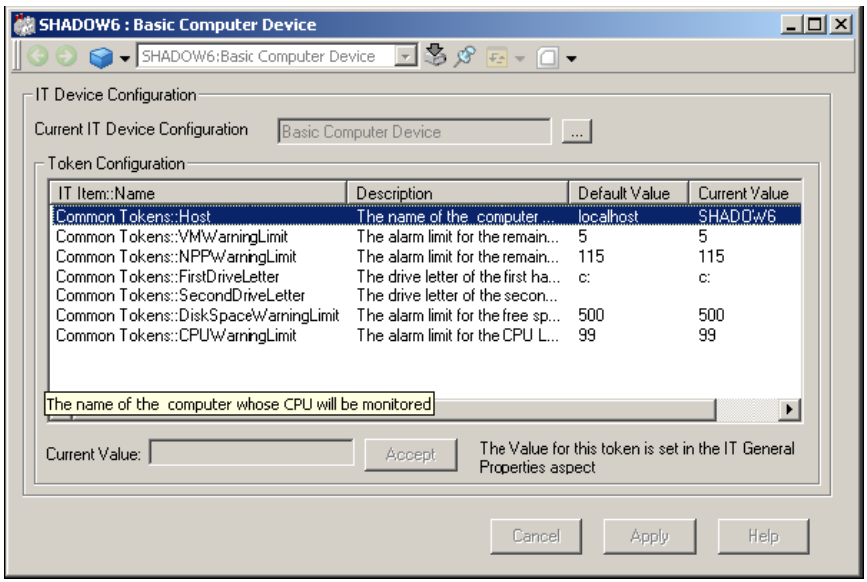


Figure 111. Basic Computer Device Aspect

Appendix A Terminology

It is recommended that you understand the following list of terms:

Table 6. Terminologies

Term	Description
ActiveX®	Microsoft® standard for user interface components, based on definition of software interfaces.
AO	Asset Optimization.
Asset Vision Professional Workplace	Provides a user interface for maintenance personnel to support their daily workflow most efficiently.
Asset Monitor	Application responsible for retrieving data from, and interacting with, multiple data servers, OLE for Process Control ® (OPC®) servers, etc.). It analyzes the data and when necessary, issues an Asset Condition Document and notifies the user of the detected condition.
Aspect Object	A computer representation of real objects such as pumps and valves or a number of virtual objects such as service or object type. An Aspect Object is described by its aspects and organised in structures.
Distributed COM (DCOM)	Remote Procedure Calls to enable distributed component objects to communicate with each other.
DMS	Device Management System (DMS) database software. Provides calibration and configuration management through the companion DHH810-MFT Series Calibrator/HART Communicator, and DHH800-MFC HART Communicator.

Table 6. Terminologies (Continued)

Term	Description
Fieldbus Builder (FBB)	ABB aspect system for fieldbus and DTM management, implementing a Frame Application according to specification FDT 1.2
Fieldbus Builder FF (FBB FF)	The system extension that owns and stores all FOUNDATION Fieldbus relevant data and the business logic belonging to it. The FBB FF exposes its objects through an automation interface.
FOUNDATION Fieldbus (FF)	Bi-directional communications protocol used for communications among field instrumentation and control systems.
Industrial^{IT}	Industrial IT is ABB's solution for business processes. It allows seamless integration of systems for plant automation, plant optimisation and common business processes at run time.
Node	A computer communicating on a network e.g. the Internet, Plant, Control or I/O network. Each node typically has a unique node address with a format depending on the network it is connected to.
PC	Personal Computer. Computer running the Windows operating system.
Security	Security controls a user's authority to perform different operations on Aspect Objects, depending on several parameters: • The user's credentials, as provided by Windows • The node where the user is logged in. This makes it possible to give a user different authority depending on where he/she is located, e.g. close to the process equipment, in a control room, or at home accessing the system through Internet. • The object the user wants to perform the operation on.

Table 6. Terminologies (Continued)

Term	Description
Server	A node that runs one or several Services.
Structure	A hierarchical tree organization of Aspect Objects that describes the dependencies between the real objects. An Aspect Object can exist in multiple structures, for example both in a Functional Structure and in a Location Structure.
View	Aspects can be presented in a number of ways depending on the task performed e.g. viewing or configuration. Each presentation form is called a view.

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