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 (3BSE038018Rxxx). A list of terms associated with Asset Vision is provided in Appendix A, Terminology.

Related Documentation

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.

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

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 ObjectTM 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. Bi	utton Descriptions
-------------	--------------------

Button	Description	
View Installation Manual	Clicking this button opens the Asset Vision Professional Installation Manual.	
Install Asset Vision	Clicking this button opens ABB Asset Vision Installer Installation Wizard.	
View Release Notes	Clicking this button opens the Asset Vision Professional 5.0 SP2 Release Notes.	
Exit	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.

Software Update Installation Wizard			
Ð	Completing the Windows Installer 3.1 (KB893803) Installation Wizard		
	You have successfully completed the KB893803v2 Setup Wizard.		
	To close this wizard, click Finish.		
	< Back Finish Cancel		

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.

🌆 Microsoft .NET Framework	k 3.5 Setup		×
Welcome to Setup		Tet Framework	
Be sure to carefully read and understand all the rights and restrictions described in the license terms. You must accept the license terms before you can install the software.			
MICROSOFT SOFTWARE SUPPLEMENTAL			
Press the Page Down key to see more text.			
○ I have read and ACCEPT the terms of the License Agreement			
O I DO NOT ACCEPT the terms of the License Agreement			
Send information about my setup experiences to Microsoft Corporation. Details regarding the <u>data collection policy</u>			
Download File Size:	63 MB		
Download Time Estimate:	2 hr 33 min (56 kbps) 16 min (512 kbps)		
		Install > Cancel)

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.

🐻 AB	18 Asset Vision 5.0 SP2 System Installer 5.0.2/0 Setup: End 🔳 🗖	×
		\mathbf{b}
	END USER LICENSE AGREEMENT	^
]	This end-user license agreement is a legal agreement between you and ABB for the P <mark>roduct identified below.</mark> An amendment or addendum to this agreement may accompany the Product.	
	BY INSTALLING, COPYING, OR OTHERWISE USING THE PRODUCT YOU AGREE TO BE BOUND BY THE TERMS OF THIS AGREEMENT. IF YOU DO NOT AGREE, YOU ARE NOT ENTITLED TO INSTALL OR USE THE PRODUCT.	>
P	Please read the following license agreement carefully. Lick Accept to accept the terms of this agreement, or click Decline to exit the setup.	
	< <u>B</u> ack <u>A</u> ccept > <u>D</u> ecline	

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.

I ABB Asset V	ision 5.0 SP2 System Installer 5.0.2/0 Setup			
Registration Information Type your name and the name of the company you work for below.				
<u>N</u> ame:	AEB			
<u>⊂</u> ompany:	ABB			
	c Back Next S Cancel			

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.

👹 ABB Asset Vision 5.0 SP2 System Installer 5.0.2/0 Setup	_ 🗆 🔀		
Installation Type Select type of installation	ġ,		
C Complete			
C Lustom			
Typical setup installs ABB Asset Vision 5.0 SP2 System Installer 5.0.2/0 with the most commonly used options. Recommended for most users.			
Install to: C:\Program Files\ABB Industrial IT\	Browse		
< <u>B</u> ack <u>N</u> ext >	Cancel		

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.

₿ ABB Asset Vision 5.0 SP2 System Installer 5.0.2/0 Setup	_ 🗆 🛛
	ϕ
Are you ready to install ABB Asset Vision 5.0 SP2 System Installer 5.0.2/0?	
< <u>B</u> ack Install	Cancel

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.

i∰ ABB Asset Vision 5.0 SP2 System	n Installer 5.0.	. 2/0 Setup Progress	
			$\neg \phi$
Gathering required information			
Initializing			
	< <u>B</u> ack	Next >	Cancel

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.

🖶 ABB Asset Vision 5.0 SP2 System Installer 5.0.2/0 Setup					
Industrial ^{IT}					
	ABB Asset Vision 5.0 SP2 System Installer 5.0.2/0 installed successfully.				
	Open Readme file				
	Ensh				

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.

Windows Automatic Logon Settings			
Info Enter the name and password for an administrative account. This will enable Windows Config to configure your computer without the need for a manual login.			
User Name: ABB			
Password:			
Confirm Password:			
OK Cancel			

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.

System and Service Account System information and service account	t settings
Asset Vision System Settings	
System Name:	AssetVisionProfessional
System Description:	AssetVisionProfessional
Asset Vision Service Account Settings	
Service account username:	AVPService
Service account password:	*****
Confirm service account password	****
Network Settings	
Hostname: (7/15)	AVPSRV1
IP Address:	192.168.1.24
Subnet Mask:	255.255.252.0
Workgroup setting	
Workgroup name: AVPGro	s node is in a Workgroup Jup
	< Back Next > Cancel

Figure 18. Asset Vision Professional System and Service Account Screen

Table 2.	System	and Serv	ice Accour	ıt 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 ".

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 2. System and Service Account	t Settings (Continued)
-------------------------------------	------------------------

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.

Confirm	ation 🛛 🛛 🛛
2	The User definition file contain multiple users, Do you want to config other users?
	Yes No

Figure 19. Asset Vision Professional Confirming Hostname and IPaddress

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

•	🛿 User File Editor for System Installer					
D	omain name:	Gro	ups: IndustrialITUs	ser 🔽		Apply
	User ID	Full user name	GroupInfo1	GroupInfo2	GroupInfo3	GroupInfo4
	AVPService AVPAdmin mnteng mntsupv mnttech	Service Account Asset Vison Professi Maintenance Engineer Maintenance Super Maintenance Techni	IndustrialITUser IndustrialITUser IndustrialITUser IndustrialITUser	IndustrialITAdmin Administrators Maintenance Su Maintenance Te	Administrators Maintenance En	System Engineers Maintenance Te
	<					>
	Selected User Info for User ID:	Editing AVPService	Group 1:		·	odate User
	Full user name:	Service Account	Group 2:		× U	Juace User
	Password:	*0*0*0*0*0*0*	Group 3:		Ad	d <u>N</u> ew User
	Confirm password:	****	Group 4:		~	
			Group 5:		~	
			Group 6:		~	

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.

🛿 User File Editor for System Installer						
omain name:	Group	ps: IndustrialITUs	er 🔽		(Apply
User ID	Full user name	GroupInfo1	GroupInfo2	GroupInfo3	GroupIn	nfo4
AVPService	Service Account					
AVPAdmin	Asset Vison Professi	IndustrialITUser	IndustrialITAdmin	Administrato	ors System I	Engineers
mntsupy	Maintenance Super	IndustrialITUser	Maintenance Su	Maincenarice	s cri Mainten	ance re
mnttech	Maintenance Techni	IndustrialITUser	Maintenance Te			
	Right mouse click for con-	ntext menu				
- 10						
{						>
Selected User Info for	Editing					
Licer ID:	auga daria	Group 1:	The sharehold of the second			
User ID:	AVPAdmin	Group 1:	IndustrialITUser	~	Update Use	r
User ID: Full user name:	AVPAdmin Asset Vison Professional A	Group 1: dminis Group 2:	IndustrialITUser IndustrialITAdmin	~	Update Use	r
User ID: Full user name: Password:	AVPAdmin Asset Vison Professional A	Group 1: Idminis Group 2: Group 3:	IndustrialITUser IndustrialITAdmin Administrators	× × ×	Update Use	r
User ID: Full user name: Password: Confirm password:	AVPAdmin Asset Vison Professional A ********* ********	Group 1: dminis Group 2: Group 3: Group 4:	IndustrialITUser IndustrialITAdmin Administrators System Engineers	 <td>Update Use</td><td>r</td>	Update Use	r
User ID: Full user name: Password: Confirm password:	AVPAdmin Asset Vison Professional A ********* ********	Group 1: dminis Group 2: Group 3: Group 4: Group 5:	IndustrialITUser IndustrialITAdmin Administrators System Engineers Maintenance Engin	v v v	Update Use	r
User ID: Full user name: Password: Confirm password:	AVPAdmin Asset Vison Professional A ********* ********	Group 1: kdminis Group 2: Group 3: Group 4: Group 5: Group 6:	IndustrialITUser IndustrialITAdmin Administrators System Engineers Maintenance Engin Maintenance Techn	v v v neers v	Update Use	r

Figure 21. Asset Vision Professional User Information Editor1

🙁 User File Editor for System Installer 🔹 🔲 🔀					
Domain name:	Grou	ups: IndustrialITUs	ser 🔽		Apply
User ID	Full user name	GroupInfo1	GroupInfo2	GroupInfo3	GroupInfo4
AVPService AVPAdmin	Service Account Asset Vison Professi	IndustrialITUser	IndustrialITAdmin	Administrators	System Engineers
mnteng	Maintenance Engineer	IndustrialITUser	Administrators	Maintenance En	Maintenance Te
mntsupv	Maintenance Super	IndustrialITUser	Maintenance Su		
		Indesender rosor			
<)	>
Selected User Info for	Editing	Group 1:	InductrialITLIcer		
	minceng		Industrial Toser		Jpdate User
Full user name:	Maintenance Engineer	Group 2:	Administrators	*	
Password:	****	Group 3:	Maintenance Engi	neers 🔽 🗛	dd <u>N</u> ew User
Confirm password:	****	Group 4:	Maintenance Tech	nicians 🔽	
		Group 5:	Power Users	~	
		Group 6:		*	

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.

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.

Table 4. User Information

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**.

Asset Vision Professional Installation
License Agreement Acceptance License Agreement and Load SOFA License file
Software License You must accept the terms and conditions in the license agreement before installing Asset Vision Professional. Tick the checkbox below if you accept this license agreement.
END USER LICENSE AGREEMENT This end-user license agreement is a legal agreement between you and ABB for the Product identified below. An amendment or addendum to this agreement may accompany the Product. BY INSTALLING, COPYING, OR OTHERWISE USING THE PRODUCT YOU AGREE TO BE BOUND BY THE TERMS OF THIS AGREEMENT. IF YOU DO NOT AGREE, YOU ARE NOT ENTITLED TO INSTALL
✓ I accept the term in the license agreement. Read
Asset Vision License Click browse to load ABB Software Factory (SOFA) file Browse
< Back Next > Cancel

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.

Asset Vision Professional Installation
Confirm Product Installation Selected ABB Industrial IT 800xA products
The Installation program is now ready to install. The following will be installed: - Install following Asset Vision Professional Software
AssetVision1
Available diskspace on C: 19 GB Total diskspace on C: 29 GB
< Back Finish Cancel

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.

Information 🛛 🔀
After restart login as AVPAdmin User
ОК

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.

🖳 System Verifie	r Tool Wizard	X
Freed to the second sec	the User Rights to successfully install and configure your nod s to be a member of the Administrators group	1(5) e the user performing
CUser information		
User Name: Computer Name: Domain Name:	AMInstall ASSETVISION1 WORKGROUP	
Hostname:	ASSETVISION1	
IP Address:	192.168.1.24	
Rights Required user rig Administrator	hts Current user rights Administrator	Status V
Help	<back< td=""><td>Next> Cancel</td></back<>	Next> Cancel

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.

🗟 System Verifier Tool Wizard 🛛 🛛 🔀			
This is the minimum hardware requirements for this node.		2(5)	Ø,
Hardware			
Requirement	Detected	Status	
2048 MB RAM	2038 MB RAM	<u> </u>	
Virtual Memory 1500 MB	Virtual Memory 2048 MB	 Image: A second s	
CPU Required Intel	Intel Pentium	 Image: A second s	
Speed 2000 MHz	Speed 2992 MHz	 Image: A second s	
4.9 GB Free Disk	20.79 GB Free Disk	 Image: A second s	
Info Info This will not prohibit installation but it can severly decrease performance			
Help	<back< td=""><td>Next></td><td>Cancel</td></back<>	Next>	Cancel

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.

🗟 System Verifier Tool Wizard 🛛 🔀			
Checking Microsoft Software components 3(5) This is the required version of Windows and components needed to configure and run ABB software.			
Windows Components	~ · ·		
Required version	Lurrent version	Status	
Windows XP	Windows XP Product Type: Professional	 ✓ 	
Service Pack 2	Service Pack 2	✓	
Internet Explorer 6.0.2800	Internet Explorer 7.0.5730	 Image: A set of the set of the	
Microsoft Installer 3.0	Microsoft Installer 3.1	 Image: A set of the set of the	
MSXML 3.0 (8.50.2162.0)	MSXML 3.0 (8.70.1113.0)	V	
.NET Framework 3.5	.NET Framework 3.5.21022	V	
Microsoft WSE 3.0	Not Found	😣 Install	
Managed DirectX	Not found	😮 Install	
XML 6 (6.0)	XML 6 (6.10.1200.0)	v	
Tele			
S Install the software before continuing, press install			
Help	<back< td=""><td>Next> Cancel</td></back<>	Next> Cancel	

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.

🗟 System Verifier Tool Wizard 🛛 🔀				
Checking additiona This is additional soft	I software components ware needed for this node.	4(5)	$\dot{\gamma}$	
Additional software				
Required version	Current version	Status		
Acrobat Reader 8.1.2	Not found	😮 🛛 Install		
IFak HRT Multidriver	Not Found	😮 Install		
IFak Pro Multidriver	Not Found	😮 Install		
Microsoft MDAC 2.81	Microsoft MDAC 2.81.1117	 Image: A second s		
Visual Basic Prof 6.0 + SP6	Visual Basic 6.0 not found	1 Info		
WMI SNMP Provider	WMI SNMP Provider not found	🕄 Info		
Microsoft Excel 11.0 + SP3	Excel Version 11.0	🕄 Info		
Microsoft Word 11.0 + SP3	Word Version 11.0	🚹 🛛 Info		
Info				
Help	<back< td=""><td>Next> Cancel</td><td></td></back<>	Next> Cancel		

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.

属 System Verifier Tool Wizard	\mathbf{X}
Checking for Hotfixes Page 1 These are Hotfixes for this node.	5(5)
Hotfixes and Updates	
Required version	Status
KB913522 Windows Firewall connection problem	~
_ Info	
Help	<back next=""> Cancel</back>

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.

🕱 Asset	t Vision Professional Aspect Configuration Wizard		×
Enter	Licenses from file, step 1 of 2	02.12.01	5
1. 2. 3.	Open Start > (All) Programs > ABB Industrial IT 800xA > System > Licensing > License Entry. Click the File and select Load / Replace Licenses menu option. This will open a File Chooser Dialog. find and select the ABB supplied License file (.sla).	ABB License Entry File View License Machine IDs Help Cod / Replace Licenses Add Extension Porce License Cycle Print Exit	
4/25		Previous Next Cancel	

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.

📓 Asset Vision Professional Aspect Configuration Wizard			
Enter licenses from file, step 2 of 2	02.12.03		
 Click Open. This will load licenses from the .sla License file into your system and will populate the tree view in the License Entry program. The display will look similar to the picture on this page. Exit the License Entry program. 	Control License Links In the License Links In the Links Control License Links In the Links In the Links Control License Links In the Links In the Links Control License Links In the Links In the Links Control License Links In the Links In the Links Control License Links In the Links In the Links Control License Links In the Links In the Links Control License Links In the Links In the Links Control License Links In the Links In the Links Control License Links In the Links In the Links Control License Links In the Links In the Links Control License Links In the Links In the Links Control Links In the Lin		
5/25	Previous Next Cancel		

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.

🕱 Asset Vision Professional Aspect Cor	nfiguration Wizard	
Enter License Server node name	02.12.04	
 Open Start > (All) Programs ABB Industrial IT 800xA System > Licensing > License Status Viewer. Verify that the Connection Status is No Error in the 		
License Status Viewer. The connection status is displayed at the bottom of the License Status Viewer as shown in the adjoining figure.		
 Exit the License Status Viewer program. 		
	CLS Machine: WOTAN Connection Status: No Error	>
6/25	Previous	Cancel

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.

🕱 Asset Vision Professional Aspect Configuration Wizard	
System Software User Settings Configure the Windows Users and Groups to be used by the Asset Vision Sy	01.02.01
 Click on the Configure User Setting button below to configure the User Settings in the Asset Vision Configuration Wizard. Configure User Settings The User settings will be set to the Asset Vision Service Account as per the parameters specified during the previous System Installer steps. The "AfwConfigure progress" trace window will come up, indicating the progress of the operation. A message window will popup indicating that the operation has been completed successfully. You can then 	Image: Antipage: An
 Alternative (manual steps) You can carry out the required User Settings manually, as per the operations listed below. In the Asset Vision Configuration Wizard select System Software User Settings. Click Next. Fill in the appropriate Service Account user and group information. Select the Autostart and Application Logging options if required. 	
 Click Next. The configurations to be carried out based on the input are displayed. Click Finish to confirm the settings. In the Aspect Configuration Wizard click Next and follow the instruction on that page. 	
7/25 F	Previous Next Cancel

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.

📓 Asset Vision Professional Aspect Configuration	n Wizard 📃 🗖	\mathbf{X}
Set Network Access Security option Only needed on computers with Windows XP	02.14.01	
 Click on the button below to configure the required ConfigureLocal Settings Alternatively carry out the following steps. 1. Open Administrative Tools via the Control Panel. Select Local Security Policy. 2. 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 Local Security Settings window. 	I local security settings options.	
8/25	Previous Next Cancel	

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

🕱 Asset Vision Professional Aspect Configuration	Wizard 📃 🗖 🔀
Configure daylight saving and power setting Perform these steps for all users in the Industrial	s 01.13.01 ITUser group
1. In the Control Panel, open Date and	Power Ontions Properties ? X
Time. 2. Set the correct Time Zone.	Power Schemes Advanced Hibernate UPS
 Check Automatically adjust clock for daylight saving changes if this applies to your region. 	Select the power scheme with the most appropriate settings for this computer. Note that changing the settings below will modify the selected scheme.
4. Click OK to close the window.	Power schemes
Click on the button below to configure the required power options.	Always On
Configure Power Mode	Settings for Always On power scheme
Alternatively carry out the following steps.	Tum off monitor: Never
 In the Control Panel, open Power Options. 	Turn off hard disks: Never
2. Click the Power Schemes tab.	System standby: Never
3. Select Power Schemes to "Always on".	
 Select "Never" for all the remaining settings: Turn off monitor, Turn off hard disks, and System standby. 	
5. Click OK to close the window.	
9/25	Previous Next Cancel

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.

🕅 Asset Vision Professional Aspect Configuration Wizard	
Disabling the windows time service for Asset Master	
Click on the button below to disable the windows Disable Windows Time Service Alternatively carry out the following steps. I. In the Control Panel, open Administrative Tools. 2. Select Services. 3. Scroll down to Windows Time and double-click. This opens a dialog box. 4. Press the Stop button in Service Status field and select Disabled in the Startup Type drop-down menu. 5. Click OK.	Windows Time Properties (Local Computer) ? X General Log On Recovery Dependencies
11/25	Previous Next Cancel

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.

📓 Asset Vision Professional Aspect Configuration Wizard		
Configure FOUNDATION Fieldbus	01.20.01	
 Go to Start> (All) Programs> ABB Industrial IT 800xA> Device Mgmt > Foundation Fieldbus > Configure. 	Client/Server Network Interface	
 In General Settings enter IP address and Subnet Mask for the Client/Server Network interface, i.e. the IP address and subnet mask of network adapter. Enter IP Address for HSE Subnet Interface i.e IP Address of network adapter. 	IP Address: 192.168.1.24 Subnet Mask: 255.255.255.0	
 In Action column, select OPC Server FF. Enter 2 in the New resource ID field and click Add button. 	Insert the local IP address of the HSE Subnet interface: IP Address: 192.168.1.24	
Note: Any number between 1 to 255, except 21, is allowed as OPC Server FF resource ID. Fieldbus Builder FF uses resource ID 21. 4. Click OK to close the Configure window.	Resource IDs Existing local OPC Server FF resources: Configure Remove New resource ID: Add	
12/25	Previous Next Cancel	

Figure 49. Configure Foundation Fieldbus

Perform the following steps to manually configure FOUNDATION Fieldbus:

- 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.

🕅 Asse	t Vision Professional Aspect Configuration Wizard
Resto	ore Asset Vision Backup
1.	Go to Start > All Programs > ABB Industrial IT 800xA > System > Configuration Wizard.
2.	Select Restore System and click Next.
3.	Click Select Path button and Add the Asset Vision System backup path, '\Asset Vision Professional\Asset Vision Professional System Backup', from the Asset Vision DVD.
4.	Click OK to close the Select Path dialog.
5.	Select the backup and click Finish to start the restore process.
6.	Navigate through the wizard by selecting the default values to complete the restore operation.
13/25	Previous Next Cancel

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**.
- 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.

🙇 Asset	t Vision Professional Aspect Conf	iguratio	on Wizard		×
Verif	y that all services are running			01.05.02	
1.	Double Click the System Status icon in Windows notification area to open the Service Connection Viewer	System S	Status Symbol		
2.	Check that all icons in the Status column are green.				
3.	 If all icons are not green, you can get more comprehensive information in the System status viewer. In Asset Vision Workplace, go to Service Structure. Select System Status Viewer Aspect on Services. Verify the services which are not running after you are done with the configuration. Subsequent configuration is done 		w Service Connection S /jew Service Messenger Server Workplace Service Time	tatus AMSRV1 Syst Group Messenger SG_1 Basic Basic	
	In Asset Vision Workplace. Go to Start > (All) Programs > ABB Industrial IT 800xA > System > Workplace. In ABB Workplace Login window, select	Ŏ	Event Collector	ABB 800xA System Message Server	
			Event Collector	ABB 800×A Soft Alarms OPC Server	
		0	System Message Server	Basic	
	Asset Vision Workplace and click Open.	•	RachunService	Bacir	
15/25				Previous Next Cancel	

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.

 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.

🐱 Asset Vision Professional Aspect Configuration Wizard	
Load System Extensions 01.04.02 Automatic Load of System Extensions	
Load required system extension if using SAP or Maximo , otherwise optional. Click on the button below to load SAP Connect System Extension SAP Connect Click on the button below to load Maximo Connectivity System Extension	
Maximo Connectivity Alternatively carry out the following steps to load the required system extension manually, 1. In the Asset Vision Configuration Wizard select System Administration. Click Next. 2. Select System Name. Click Next. 3. Select System Extension Load. Click Next. 4. Move system extension you wish to load from left to right, click Next. 5. Click Finish to confirm the settings.	MwConfigure System Extensions successfully loaded. OK
16/29	Previous Next Cancel

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.

🕅 Asset Vision Professional Aspect Configuration Wizard			
DMS Software Users Configuration Only perform this configuration tasks if DMS Calibration Integration is u	sed.	01.19.05	-\$
DMS Software Users Configuration Asset Vision Professional System users must also be configured in the DMS software. Configure all Asset Vision Professional System users in the DMS software who require access to DMS information, including the Asset Vision Service User. Refer to the <i>Meriam Users</i> <i>Guide</i> for more information on configuring users.			
16/25	Previous	lext	Cancel

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.

📓 Asset Vision Professional Aspect Configuration Wizard				
 Asset Vision Professional Aspect Configur Associate user groups The association of windows user groups cat This describe how to associate Windows Groups to Asset Vision Professional User Groups to Asset Vision Professional User Groups. Select User Structure in Asset Vision Professional WorkPlace. Select User Group Definition Aspect or Everyone User Group In Aspect View, click the "Associate with Windows Group" button. Refer to Asset Vision Installation Manual for information on mapping between Asset Vision Professional and Windows User Groups. Click OK to map the User Groups. In the Members tab,click "Synchronize with windows group" button to synchronize the group members. Apply the changes. Repeat Step 2 to Step 4 for all user groups. 	ation Wizard n be performed later. User Structure Solution Structure Solution Structure Solution Structure Solution Structure Solution Structure Solution Structure Solution Structure	Aspects of 'Administrators - Indus Name Coup Coup Definition User Group Definition User Group Type Reference User Structure		
17/25	Previ	ous Next Cancel		

Figure 55. Associate User Groups

Table 5. User Groups Ma	apping
-------------------------	--------

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

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

Table 5.	User	Groups	Mapping	(Continued)
----------	------	--------	---------	-------------



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.

📓 Asset Vision Professional Aspect Configuration Wizard					
Alarm Logger configuration	18.01.02				
 Add and Configure a printer connected to Asset Vision Machine. Open Asset Vision workplace and navigate to service structure. Navigate to Alarm Logger, service -> Basic, Service Group -> Alarm Logger_Basic_NodeName, Service Provider. Select Service Provider Definition aspect and open the Special Configuration Tab. In logger configuration, select the printer from Printer name drop down box and click Apply. In information, the Logger state should change from Not Configured to Ready. 	Alarm Logger_Basic_AMSRV1 : Service Provider Definition Image: Configuration Special Configuration Special Configuration Printer name: Max number of printed lines: HP LaserJet 2300 Series PCL 6 Golor Page Printer Golor (min) ger_Basic_AMSRV1:Service Image: Configuration Status Image: Configuration Printer type: Image: Color Page Printer Golor (min) ger_Basic_AMSRV1:Service Status Information Logger state: sPCL 6 60 Image: Interval between printouts:				
	- 60 (min)				
20/29	Previous Cancel				

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.

📓 Asset Vision Professional Aspect Configuration Wizard		
Set security level in MS Office	04.01.01	Ø.
Office 2003		
 Start Microsoft Word and select menu Tools, items Macro, Security and check Security Level Medium. 		
 Start Microsoft Excel and select menu Tools, items Macro, Security and check Security Level Low. 		
 Repeat step 1 and 2 for all users defined in the IndustrialITUser Group. 		
Office 2007		
 See: 800xA - System, System Version 5.0 Service Pack 2 Installation (3BSE034678R5021), page 66 - 71 for detailed instructions on how to set security level. 		
2. Manual is on DVD.		
19/25	Previous Next	Cancel

Figure 58. Setting Security Level in MS Office

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

 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.

- 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.

📓 Asset Vision Professional Aspect Configuration Wizard						
DCOI	DCOM configuration for HART Multiplexer connect 17.03.05					
1.	Go to Start > Run Enter dcomcnfg and click OK to open Component Services.	HC Properties				
2.	Navigate to Console Root > Component Services > Computers > My Computer > DCOM Config. Click No to all DCOM Configuration Warning messages.	General Location Security Endpoints Identity Which user account do you want to use to run this application?				
3.	Select properties from context menu of DCOM Application "HC".	C The interactive user.				
4.	In the Identity tab, set the identity to "This User" (Asset Vision Service account) and Apply changes.	 The Jaunching user. This user. 				
		User: AVPSRV1/AVPService Browse				
		Password:				
		Confirm password:				
21/28		Previous Cancel				

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*^{1T}, Asset Vision Professional 5.0 SP2, Basic Configuration and Operation (3KXD151800R4201).

 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.



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.

🕅 Asset	t Vision Professional Aspect Configuration Wiza	rd	
Insta Opti	II PROFIBUS Device Types	es ar	17.03.08
1. 2. 3. 4. 5. 6.	Insert System DVD 2 into the DVD drive. Start Device Library Wizard: Start > All Programs > ABB Industrial IT 800xA > Device Mgmt > Device Library Wizard or double click Device Library Wizard icon on the desktop. In the Device Library Wizard select either Extract Device Types Via Annual Selection or Extract Device Types Via Filter Option. Click Browse button and navigate to System DVD 2 > PROFIBUS. Select the Device Types to be used in the 800xA System and start extracting with the Finish button. Navigate back to the Device Library Wizard main window. Optionally repeat step 3 to 6 for further device types. If System Installation DVD 2 does not contain all Device Types needed, the missing Device Types shall be downloaded from ABB Solutions Bank at: http://solutionsbank.abb.com/sbhome/.	7. 8. 9. 10.	From the Device Library Wizard main window select Device Type Administration> Install Device Types. Select PROFIBUS. Each listed Device Type includes a Release Note for the corresponding Device Type Object. Click with the right mouse button on the listed Device Type to open the Release Notes document. Read the Release Note carefully for detailed installation and engineering information or limitations. Select the required Device Types listed in the window and follow the installation procedure. Exit Device Library Wizard.
21/25			Previous Next Cancel

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.

🕱 Asset	Vision Professional Aspect Configuration Wiza	d	
Insta Opti	II FOUNDATION Fieldbus Device Types onal steps to be performed if additional Device Typ	es ar	17.06.02 e needed.
1. 2. 3. 4. 5. 6.	Insert System DVD 4 into the DVD drive. Start Device Library Wizard: Start > All Programs > ABB Industrial IT 800xA > Device Mgmt > Device Library Wizard or double click Device Library Wizard icon on the desktop. In the Device Library Wizard select either Extract Device Types Via Manual Selection Or Extract Device Types Via Manual Selection Or Extract Device Types Via Manual Selection Or Extract Device Types Via Filter Option. Click Browse button and navigate to System DVD 4 > FOUNDATION Fieldbus. Select the Device Types to be used in the 800xA System and start extracting with the Finish button. Navigate back to the Device Library Wizard main window. Optionally repeat step 3 to 6 for further device types. If System Installation DVD 4 does not contain all Device Types needed, the missing Device Types shall be downloaded from ABB Solutions Bank at: http://solutionsbank.abb.com/sbhome/.	7. 8. 9. 10.	From the Device Library Wizard main window select Device Type Administration > Install Device Types. Select FOUNDATION Fieldbus. Each listed Device Type includes a Release Note for the corresponding Device Type Object. Click with the right mouse button on the listed Device Type to open the Release Notes document. Read the Release Note carefully for detailed installation and engineering information or limitations. Select the required Device Types listed in the main window and follow the installation procedure. Exit Device Library Wizard.
26/29			Previous Cancel

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.

📓 Asset Vision Professional Aspect Configuration Wizard		
Install is Pro Multiserver Steps to be performed if ifak is Pro USB adapter is used.	is pro multiserver	þ,
A Note		
You must purchase license from 'ifak systems' for is Pro Multiserver before installing	is Pro Multiserver	
Click on the button below if you have purchased license already.		
Install is Pro Multiserver		
27/29 Previou	is Next	Cancel

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.

📓 Asset Vision Professional Aspect Configuration Wizard			
Windows Firewall configuration Configures Windows Firewall for Asset Vision		18.01.01	ϕ
Before you continue this wizard, make sure you have done the following:			
 Completed Installation of Asset Vision Professional and configuration steps up to this point. 			
When you're ready, you can proceed with the Firewall configuration on all computers.			
Click on the Configure Firewall button below to to add applications and ports to Windows Firewall exception list.			
Configure Firewall			
24/25	Previous	Next	Cancel

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.

📓 Asset Vision Professional Aspect Configuration Wizard			
Industrial ^{IT}	You have now finished setting up your Asset Vision Professional system on this computer.		
	Please continue with the rest of the computers in your system.		
	Click Finish to close this wizard.		
ABB			
25/25	Previous Finish Cancel		

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**.

🙀 ABB Asset Vision Basic - InstallShield Wizard		
License Agreement Please read the following license agreement carefully.	Asset Vision Basic	ABB
Please read the license agreement to be find below carefully! Open license file		
○ I accept the terms in the license agreement		
● I do not accept the terms in the license agreement		
InstallShield		
< Back	Next >	Cancel

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.

🙀 ABB Asset Vision Basic - InstallShield Wizard		
Ready to Install the Program The wizard is ready to begin installation.	Asset Vision Basic	ABB
Click Install to begin the installation. If you want to review or change any of your installation settin exit the wizard.	gs, click Back. C	lick Cancel to
InstallShield	Install	Cancel

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.

🔂 ABB Ass	et Vision Basic - InstallShield Wizard		
Installing The prog	ABB Asset Vision Basic ram features you selected are being installed.	Asset Vision Basic	ABB
1 .	Please wait while the InstallShield Wizard installs ABt may take several minutes. Status:	3 Asset Vision Bas	sic. This
InstallShield –	< Back	Next >	Cancel

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.

Choose	Setup Language 🛛 🗙
2	Select the language for this installation from the choices below.
	English (United States)
	OK Cancel

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.

InstallShield Wizard	X
SC()O ifak system	Welcome to the InstallShield Wizard for is Pro FDT V3 The InstallShield® Wizard will install is Pro FDT V3 on your computer. To continue, click Next.
	< <u>B</u> ack Next ≻ Cancel

Figure 83. Pro FDT V3 Welcome Screen

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

InstallShield Wizard	X
Customer Information Please enter your information.	SC()O ifak system
User Name:	
ABB	
Company Name:	
ABB	
C <u>D</u> Key:	
<enter cd="" key=""></enter>	
Install this application for:	
C Only for me (ABB)	
< <u>B</u> ack <u>N</u> ext >	Cancel

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.

InstallShield Wizard	X
Choose Destination Location Select folder where Setup will install files.	SC()O ifak system
Setup will install is Pro FDT V3 in the following folder.	
To install to this folder, click Next. To install to a different folder, click Browse another folder.	and select
Destination Folder	
C:\Program Files\ifak system\	Browse
InstallShield	
< Back	Cancel

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.

InstallShield W	izard	×
Setup Type Select the Setu	up Type to install.	SC()O ifak system
Click the type (of Setup you prefer, then click Next.	
Typical	Program will be installed with the most common options. Re most users.	ecommended for
C <u>C</u> ompact	Program will be installed with minimum required options.	
C C <u>u</u> stom	You may choose the options you want to install. Recommenusers.	nded for advanced
InstallShield	< <u>B</u> ack <u>N</u> ext >	Cancel

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.

InstallShield Wizard	X
Start Copying Files Review settings before copying files.	SC()O ifak system
Setup has enough information to start copying the program files. If you want t change any settings, click Back. If you are satisfied with the settings, click N copying files. Current Settings:	o review or ext to begin
The following components will be installed in this folder: C:\Program Files\ifak system\ Components: is Pro CommD TM Files is Pro USB Files is Pro USA Files is Pro ISA Files is Pro PCI Files is Pro PCI Files is Pro PCMCIA Files	
	>
InstallShield	Cancel

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.

InstallShield Wizard	
<u>\$</u> \$\$	InstallShield Wizard Complete
ifak system	Setup has finished installing is Pro FDT V3 on your computer.
	Kack Finish Cancel

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.

InstallShield Wizard	×
Customer Information Please enter your information.	
User Name:	
ABB	
<u>C</u> ompany Name:	
ABB	
CD <u>k</u> ey:	
<enter cd="" key=""></enter>	
Install this application for:	
Anyone who uses this computer (all users)	
C Only for me (ABB)	
InstallShield	
<u> ≺ B</u> ack <u>N</u> ext >	Cancel

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.

InstallShield Wizard		
Start Copying Files Review settings before copying files.		Z
Setup has enough information to start copying t change any settings, click Back. If you are sat copying files. Current Settings:	he program files. If you want to review or sfied with the settings, click Next to begin	I
The following components are installed in: C:\Program Files\ifak system\ Components: is HRT CommDTM Files is HRT Driver Config Files is HRT USB Files		
InstaliShield		<u>></u>
	< <u>B</u> ack <u>N</u> ext> Ca	ncel

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.

 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.

3	🏽 🕼 ABB Device Library Wizard [Asset Master]		
	Select Type of Configuration		C do
	Please choose which task to accomplish by sele	ecting appropriate icon and pressing Next	$\nabla \varphi_{2}$
			CAN IN
	Action	Description	
	Provice Library Wizard Administration	General Configuration of the Device Library Wizard	
	Extract Device Types	Extract device type files to all connected clients	
	Device Type Administration	Install, delete or restore device types	
	J		
Г	Ulaw Law	and Nutri Bat	
1	view Log	< Back Next > Exit	Help

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.

8	ABB Device Library Wizard [Asset A	Aaster]		
	Select Action			4
	Select the action to be performed			Ya
			Extract Device)	ypes
	Action	Description		
	Extract device Types via Manual Selection	Browse and select manual the required Device Types files		
	Extract Device Types via Filter Option	Allows to use a filter to search for the required device Type	files	
	_			
_				
	View Log	< Back Next > E	xit He	lp
1				<u> </u>

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.

3	ABB Device Library Wizard [Asset Maste	r]	
	Select Type of Configuration		- A
	Please choose which task to accomplish by sele	ecting appropriate icon and pressing Next	γ
	Action	Description	
	Povice Library Wizard Administration	General Configuration of the Device Library Wizard	
	Extract Device Types	Extract device type files to all connected clients	
	WDevice Type Administration	Install, delete or restore device types	
-		() () () () () () () () () ()	
	View Log	< Back Next > Exit	Help

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.

InstallShield Wizard	
Customer Information Please enter your information.	SCOO ifak system
User Name:	
ABB	
Company Name:	
ABB	
C <u>D</u> Key:	
<enter cd="" key=""></enter>	
Install this application for:	
Anyone who uses this computer (all users)	
Only for <u>me</u> (ABB)	
InstallShield	
<u> < ₿</u> ack <u>N</u> ext >	Cancel

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 webenabled 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.



Η

To access Maximo portal views, set Microsoft VM to High Safety and Scripting of JavaTM 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**.

Security		? 🛽
Security Level	Irusted Publishers	
O Very High. O to run. All ot	nly macros installed in truste her signed and unsigned mac	d locations will be allowed ros are disabled.
O High. Only si run. Unsigne	gned macros from trusted so d macros are automatically d	urces will be allowed to isabled.
 Medium. You can choose whether or not to run potentially unsafe macros. 		
Low (not recommended). You are not protected from potentially unsafe macros. Use this setting only if you have virus scanning software installed, or you have checked the safety of all documents you open.		
		OK Cancel

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 (3BUA000447Rxxx). 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.

🍓 S	HADOW6 : Basic Computer Device			
6	📀 🧊 🗸 SHADOW6:Basic Computer De	evice 🔽 🗏 🖉 🖅 🗋	•	
_IT	Device Configuration			
Cu	urrent IT Device Configuration Basic Co	mputer Device		
	Token Configuration			
	IT Item::Name	Description	Default Value	Current Value
	Common Tokens::Host	The name of the computer	localhost	SHADOW6
	Common Tokens::VMWarningLimit	I he alarm limit for the remain	5 115	5
	Common Tokens::FirstDriveLetter	The drive letter of the first ha	c:	c:
	Common Tokens::SecondDriveLetter	The drive letter of the secon	500	500
	Common Tokens::CPUWarningLimit	The alarm limit for the CPU L	99	99
		11		
4	The name of the computer whose CPO will i	be monicorea		
	Current Value:	Accept The Value fo	r this token is set i	n the IT General
	,	Properties as	pect	
		Cancel	Apply	Help

Figure 111. Basic Computer Device Aspect

Appendix A Terminology

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

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

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.

Table 6. Terminologies (Continued)

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