AssetView SC

APR / 17 AssetView VERSION 4.2 INSTALLATION AND OPERATION

USER'S MANUAL







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INTRODUCTION

To fulfill the requirements of a control system, the plant needs a system that can provide specific management functions, such as calibration, diagnostics, identification, materials of construction and setup for the *Field Devices*.

Smar **AssetView** is a software system for on-line network enabled asset management. The primary objective is to unleash the powerful diagnostics capabilities found in Fieldbus devices in general and particularly in Smar devices, providing several maintenances schemas and making the user interface friendlier.

AssetView deals only with devices and is used for the long-term maintenance and device operation. **AssetView** is not restricted to just displaying error messages from the device, but it can take devices through test sequences, record data, plot charts and analyze them providing a much more sophisticated failure analysis.

Another important characteristic of the **AssetView** is the web technology based architecture. The user interface is the Internet Explorer web browser and it can be used on any Windows platform.

Since there will always be a mix of instrument brands in a plant, it is important to have a maintenance tool that is independent of the device manufacturer. The same single software must support devices even though these come from different manufacturers.

The device manufacturers know best what information to display, and how to present it for the user to get the best out of their device. The device manufacturer is the ideal candidate to make pages available for their devices, incorporating their knowledge and visualization characteristics, and keeping them up to date with the latest features and capabilities. That's the proposal of **AssetView**: to allow the manufacturers to develop the devices' home pages.

AssetView software is network enabled and allows the user to tap into the information of the devices, indicating the condition of any device at any time, so that users can have a complete overview to picture the status of the entire plant.

ATTENTION

The **AssetView HMI** manuals describing the identification, configuration, calibration and other device pages are available at the Smar Web Site: <u>http://www.smar.com.br</u>

This product is protected by U.S. patent numbers 6,631,298; 6,725,182 and other U.S. Patents pending.

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INSTALLATION AND CONFIGURATION

Installing AssetView with System302 version 7.0.x or higher

If you are installing **AssetView** with **System302** version 7.0 or higher, please refer first to the **System302 Installation Guide** available in the **System302** Documentation and follow the instructions to complete the installation and configure your system.

Then, refer to the steps described in subsections **After the Installation** and **AssetView Initial Settings** in this manual, and configure specific system settings to execute **AssetView** properly.

Installing AssetView with System302 Version 6.1.x

Before installing **AssetView** with **System302** version 6.1.x, you must have already installed some essential applications that support **Smar** software.

Installing Internet Explorer 6.0 or higher

The Internet Explorer installation file is located at the folder Tools/IE6, in the System302 CD.

Run the application **le6setup.exe** and follow the instructions in the dialog boxes to complete the installation. It will be necessary to restart the computer after the IE installation.

Installing IIS on Windows XP or Windows Server 2003

Install the *Internet Information Services* (IIS), version 5.0 or higher. The IIS is a Windows *Add-on Component*. Place the Windows CD in the CD-ROM drive. Open the **Control Panel** and double-click the **Add or Remove Programs** application.

In the Add or Remove Programs window, click Add or Remove Windows Components on the menu on the left. The Windows Components Wizard dialog box will open.

 On Windows XP, mark the item Internet Information Services (IIS) and click Next. Follow the instructions to complete the IIS installation and click Finish.

Windows Components Wizard	×
Windows Components You can add or remove components of Windows XP.	t
To add or remove a component, click the checkbox. A shaded b part of the component will be installed. To see what's included in Details.	iox means that only a component, click
Components:	
🗹 🥭 Internet Explorer	0.0 MB 🔺
🗹 💐 Internet Information Services (IIS)	13.5 MB
Management and Monitoring Tools	2.0 MB
🔲 🚅 Message Queuing	0.0 MB
MSN Explorer	20.7 MB 🔟
Description: Includes Web and FTP support, along with support transactions, Active Server Pages, and database or	for FrontPage, onnections.
Total disk space required: 56.2 MB	Details
Space available on disk: 876.4 MB	
< Back	Next > Cancel

Figure 1.1. Installing IIS on Windows XP

 On Windows 2003 Server, select the item Application Server and click Details. In the Application Server dialog box, mark the items ASP.NET and Internet Information Services (IIS) and click Ok. In the Windows Component Wizard, click Next and follow the instructions to complete the installation. Click Finish to conclude.

Application Server				2
To add or remove a compon of the component will be inst	ent, click the check b alled. To see what's i	ox. A shaded t ncluded in a co	oox means t mponent, c	hat only part lick Details.
Subcomponents of Applicati	on Server:			
🔲 🚡 Application Server C	onsole			0.0 MB 👝
🗹 🇞 ASP.NET				0.0 MB
🗹 👰 Enable network COM	4+ access			0.0 MB
Enable network DTC access				0.0 MB
🗹 🏹 Internet Information	Services (IIS)		2	23.3 MB
🗌 🐋 Message Queuing				6.5 MB
				*
Description: Microsoft Mai administrative	nagement Console Sn interface.	ap-in for the Ap	plication Se	erver
Total disk space required:	0.0 MB			Details
Space available on disk:	4699.0 MB		_	Farmen
		01		Cancel

Figure 1.2. Installing IIS on Windows 2003

IMPORTANT
If IIS was already installed in the machine but the ASP.NET was not installed, it will be necessary to remove IIS and install ASP.NET together with IIS.
In this case, open the Application Server dialog box and unmark the item Internet Information Services (IIS) . Click Ok and click Next on the Windows Components Wizard window. Follow the instructions to uninstall IIS.
Then, open the Windows Components Wizard window again, select the item Application Server and click Details . Mark the items ASP.Net and Internet Information Services (IIS) , click Ok and follow the instruction to complete the installation.

To check if the installation was successful, open the *Internet Explorer* window and type the machine name or "*localhost*". The **Internet Information Services** page should be loaded.

Installing AssetView

IMPORTANT

To install *AssetView*, the user must be logged on as the **Administrator** or a member of the **Administrators** group.

If **AssetView** will be installed in a domain, the user installing the software must have administrator rights to access the domain.

Place the **System302** Installation DVD at the DVD-ROM driver. The **Installation** dialog box will automatically open. Click **Install SYSTEM302**.

Follow the instructions in the dialog boxes, providing the necessary information during the installation.

Make sure to select the **Custom** installation mode. In the **Select Features** dialog box, check the option **AssetView** from the list of applications available:

elect Features			
Choose the features Setup will	install.		
	Select the features you want to in System302 Documentation SupericeSupport SlockSupport Syscon Interfaces FieldD evices FCView Studio302 ProgT col NetConf TagList LogicView Space Required on C:	stall, and clear the feature	s you do not want to install. Description Field Device Management Tool
	Space Available on L:	760660 K	

Figure 1.3. Installing AssetView

It will be necessary to restart the computer after the installation is complete.

IMPORTANT

If a database application is not located during the **AssetView** installation, the MSDE database will be automatically installed.

If any error message appears during the *AssetView* installation and configuration, please refer to the section **Known Problems and Limitations** for details on how to manually configure the system.

AssetView Licensing

AssetView Server requires a HardKey to run properly. A specific number of field devices will be managed according to the license option select by the user.

The following table shows the license types available according to the maximum number of field devices installed on the plant.

Note that if there are more than 200 instruments, it will not be possible to use the MSDE database, only the SQL Server database.

Option	Number of Devices	Database Required
1	25	MSDE or SQL Server
2	100	MSDE or SQL Server
3	200	MSDE or SQL Server
4	300	SQL Server
5	400	SQL Server
6	500	SQL Server
7	750	SQL Server
8	1000	SQL Server
9	1500	SQL Server

А	2000	SQL Server
В	2500	SQL Server
С	3000	SQL Server
D	4000	SQL Server
E	5000	SQL Server
F	7500	SQL Server
G	10000	SQL Server

Connect the *HardKey* to the parallel port or USB port in the machine. Then select **Start > Programs > System302** and click **Get License**.

License Lode: 3365389813 Syscon Licensed to 4096 Blocks Remo LogicView Licensed to 10000 Items Remo Studio Licensed to 10000 Items Remo Simulator Licensed Grant License Keys Use DEMO Keys				
Syscon Licensed to 4096 Blocks Remo DFI OLE Server Licensed to 4096 Blocks Remo LogicView Licensed Remo Studio Licensed to 10000 Items Remo Simulator Licensed Remo Generate FaxBack Grant License Keys Use DEMO Keys	ense Code:	3365389813		
DFI OLEServer Licensed to 4096 Blocks Remo LogicView Licensed to 10000 Items Remo Studio Licensed to 10000 Items Remo Simulator Licensed Remo	iscon	Licensed to 4096 Blocks	Remove	
LogicView Licensed Remo Studio Licensed to 10000 Items Remo Simulator Licensed Grant License Keys Use DEMO Keys	FI OLEServer	Licensed to 4096 Blocks	Remove	
Studio Licensed to 10000 Items Remo Simulator Licensed Remo Generate FaxBack Grant License Keys Use DEMO Keys	gicView	Licensed	Remove	
Simulator Licensed Remo Generate FaxBack Grant License Keys Use DEMO Keys	udio	Licensed to 10000 Items		
Generate FaxBack Grant License Keys Use DEMO Keys	mulator	Licensed	Remove	
ardkey	Generate Fa	KBack Grant License Keys	Use DEMO Keys Details	

Figure 1.4. Checking the HardKey

On the **Get License** application, Hard keys are automatically detected. Click the button **Details** to open the diagnostic report about Hard Key(s). Click **Exit** to conclude.



After the Installation

Remember that it is necessary to restart the computer after the installation is complete.

AssetView supports MSDE and SQL Server versions 2000 and 2005.

Configuring the Windows Firewall

NOTA The following steps are not required for **System302 versions 7.3.4 SP1** or higher. See the **SYSTEM302 Handbook** (GetStarted) for further information.

NOTE

If the Windows Firewall is enabled, add the port 80 used by AssetView to the exception list:

- 1. Open the Windows Control Panel and double-click the option Windows Firewall.
- 2. The Windows Firewall dialog box will open. Click the Exceptions tab:

i w	indov	vs Firewall					>
Ger	neral	Exceptions	Advanced				
W pr to Pr	'indow ogram work ogram	rs Firewall is t s and service better but min rs and Servic	blocking incoming ne es selected below. A ght increase your sec es:	twork ca dding ex curity risk	nnections, (ceptions allo	except f iws som	or the e programs
Π	Name						
Ē	🗖 МЗ	N Messenae	ar 7.5				
	🗹 Na	vicat					
	🗹 Re	mote Assista	nce				
	Re	mote Deskto	P				
	🗹 Sk	уре					
	SmarStudioBridgeProxy						
	l SN ⊡ SN	ITP ()	. (THENT 2000				
	му зу: Банна	scon for Wini	∃ows[im]nii, 2000. √	and AP			
	l∎ wi	ne riailewu ndows Messi	in ender				
	<u> </u>	100110 110000	Shigor				-
	Add F	Program	Add Port	E	dit	[Delete
	Disp	lay a notifica	tion when Windows	Firewall t	olocks a pro	gram	
<u>w</u>	'hat ar	e the risks of	allowing exceptions	2			
					ОК		Cancel

Figure 1.5. Configuring the Windows Firewall

- 3. Click the button Add Port.
- 4. On the **Add a Port** dialog box, type **Web** as the port name and type **80** for the port number. Select the **TCP** protocol and click **Ok** to conclude.

Add a Port		x
Use these settings number and protoc want to use.	to open a port through Windows Firewall. To find the por col, consult the documentation for the program or service ;	t you
Name:	Web	
Port number:	80	
	● TCP C UDP	
What are the risks	of opening a port?	
Change scope	OK Cancel	

Figure 1.6. Configuring the Port 80

5. Click Ok on the Windows Firewall window to conclude.

Configuring the DCOM Properties Manually

Advanced security properties from Windows XP SP2 and Windows Server 2003 SP1 must be configured to enable the communication between **AssetView** and **System302** components. For operating systems Windows 7, Windows Server 2008, or higher refer to **SYSTEM302 Handbook** (GetStarted) for further information.

On the Start menu, click Run, type dcomcnfg and click Ok. The Component Services window will open. On the left panel, select Component Services > Computers > My Computer.

Right-click the icon **My Computer** and select the option **Properties**. On the **My Computer Properties** dialog box, select the **Default Properties** tab and check if the option **Enable Distributed COM on this computer** is marked.

Select the **COM Security** tab. Click **Edit Default** on the **Access Permissions** area. The **Access Permission** dialog box will open:

	?
Add	Remove
Allow	Deny
V	
\checkmark	
	Add Allow V

Figure 1.7. Configuring the Access Permission

Click Add and include the user ASP.NET and the following groups: Administrators, Users, Interactive, System, Engineer, AssetViewGuest. See the example in the figure below:

Select Users or Groups	? ×
Select this object type:	
Users, Groups, or Built-in security principals	Object Types
From this location:	
JULIANA	Locations
Enter the object names to select (<u>examples</u>):	
<u>JULIANA\Administrator; JULIANA\AssetViewGuest;</u> JULIANA\Engineer; INTERACTIVE; JULIANA\ASPNET_	Check Names
Advanced OK	Cancel

Figure 1.8. Adding Users and Groups

Click **Ok** to return to the **Access Permission** dialog box. For each user and group added, select its icon and mark the **Allow** column for the options **Local Access** and **Remote Access**.

Access Permission		? ×
Default Security		
Group or user names:		
Administrator (JULIANA\Admi ASP.NET Machine Account (nistrator) JULIANA\ASPNE	т) Т
🕵 AssetViewGuest (JULIANA\A	ssetViewGuest)	
Gengineer (JULIANA\Engineer)	_
	Add	Remove
Permissions for AssetViewGuest	Allow	Deny
Local Access Remote Access	N	
	OK	Cancel

Figure 1.9. Local and Remote Access Permissions

Click Ok to return to the My Computer Properties dialog box. Then, click Edit Default on the Launch and Activation Permissions area and repeat the steps described above to add the same user and groups, allowing the permission for Local Launch, Remote Launch, Local Activation, and Remote Activation.

Launch Permission		? ×
Default Security		
Group or user names:		
Administrator (JULIANA\Adm Administrators (JULIANA\Adm	ninistrator) ministrators)	-
SP.NET Machine Account	(JULIANA\ASPNE	T)
	AssetViewGuest) ⊷	•
•		
Permissions for ASP.NET Machine Account	Add	Remove Deny
Local Launch Remote Launch Local Activation Remote Activation	N N N N N	
	ОК	Cancel

Figure 1.10. Launch and Activation Permissions

Click Ok to return to the My Computer Properties dialog box and click Ok again to conclude.

AssetView Initial Settings

On the Start menu, select Programs > System302 > AssetView > Installation Guide. The AssetView Welcome Screen will open.



Figure 1.11. AssetView Welcome Screen

The **Welcome Screen** indicates the status of the **AssetView** installation. For example, if the user is executing the application for the first time, the **Welcome Screen** indicates that the database is not configured.

If an error message appears indicating that the *HardKey* is not valid, check if it is connected properly and if you have a valid license. See section **AssetView Licensing** for further details.

Use the links in the **Welcome Screen** and follow the instruction in the sections below to configure the computer to run the **AssetView** and **AssetView Server** applications.

IMPORTANT

When installing **AssetView** in a domain, the groups **Engineer** and **AssetViewGuest** are created in the domain server machine and all other users must be created in the same machine. The message in the figure below appears when **AssetView** is executed for the first time, when the **Welcome Screen** appears:



Creating the Database

Run this procedure in the machine that hosts the database server to create the **AssetView** database.

It is not necessary to install **System302** and the database on the same machine, because the **AssetView Server** can remotely access the database. The SQL Server can be installed in any computer that communicates with the **AssetView Server**.

IMPORTANT

The database for **AssetView** version 4.1 or higher is not compatible with previous **AssetView** versions. When creating the database, the history of all registers and operations will be deleted. For further information on how to keep the database history from versions previous to **AssetView 4.1**, contact your Smar representative.

To create the *AssetView* database, the user must be logged as the *Administrator* or a member of the *Administrators* group.

In the **Welcome Screen**, click the link **Creating Database**. The **Configure SQL Server Database** dialog box will open:

🔋 Configure SQL Server Database	×
Notes	1
1) MAKE SURE THE SERVER EXISTS AND IS WORKING PROPERLY	
2) THE SQL SERVER VERSION MUST BE 2000/2005	
Select the database server	1
YOUR_SQLSERVER_NAME	
	J
<u>C</u> reate Cjose	1
	1

Figure 1.12. Configuring the SQL Server Database

Select the AssetView database server from the drop-down list and click Create.

If the database already exists in the selected server, a message box will open asking if the user wants to create a new database. Click **Yes** and all existing data will be deleted.

Wait a few seconds until the message box opens alerting the user that the database was created. Click **Ok** to close this dialog box:



Figure 1.13. Creating the SQL Server Database



Click **Close** to conclude the database configuration.

Creating the Remote Database

Follow this procedure to create the **AssetView** database in a dedicated machine, that is, in the remote computer where all database information will be saved.

Locate the **AssetView** installation folder. The default path is "C:\Program Files\Smar\AssetView". Copy the folder **SQL Server Support** to the remote machine and run the file **SqlServer.exe**, double-clicking its icon.

Select the database server from the drop-down list and click **Create**. When the database is created, click **Close** to conclude.

Database Configuration File

Now check if the database connection is configured properly. In the **Welcome Screen**, click the link **Database Configuration File**. The **Data Link Properties** dialog box opens.

😼 Data Li	nk Properties
Provider	Connection Advanced All
Specify	the following to connect to SQL Server data:
1. Sel	ect or enter a server name:
	ServerName 💽 Refresh
2. Ent	er information to log on to the server:
6	Use Windows NT Integrated security
0	Use a specific user name and password:
	User name: sa
	Password:
	Blank password Allow saving password
3. 🖸	Select the database on the server:
	AssetView
0	Attach a database file as a database name:
	AssetView
	Using the filename:
	Test Connection
	OK Cancel Help

Figure 1.14. Connecting to the SQL Server Database

At the Connection tab:

- 1. Select the name of the SQL Server.
- 2. Choose the log on mode.
- Select the AssetView Database on the server. If the database was created in the remote machine, make sure to select the name of the remote server.
- 4. Click Test Connection and wait for the message confirming the test succeeded:



Figure 1.15. Testing the connection

Click Ok on the Data Link Properties dialog box to conclude.

User Permission

In the Welcome Screen, click the link User Permission to open the Local Users and Groups window.

Only the **AssetView** administrator can configure the access level. The access control of **AssetView** uses the Windows authentication, and for this reason the **AssetView** administrator is the administrator of the machine where the **System302** was installed.



Figure 1.16. Local Users and Groups Window

Users added to the **Engineers Group** will have permission for writing and reading information from the server. Double-click the **Engineer** group to open the **Engineer Properties** dialog box.

Click **Add** and select the user(s) to be included in the **Engineer** group. Click **Ok** to confirm and conclude this procedure.

Users added to the **AssetViewGuest** group will only have permission to read information from the server. Double-click the **AssetViewGuest** group to open the **Properties** dialog box.

Click Add and select the user(s) to be included in the AssetViewGuest group. Click Ok to confirm and conclude.

Email Server

In the **Welcome Screen**, click the link **Email Server** to configure the SMTP Server address. The **Mail Options** dialog box will open:

Mail Options 🛛 🗙
Smtp Server mail.smar.com.br Smtp Port 465
TimeOut (ms) 100 Use Authenticate Mode? Yes 💌
AssetView Email Account jubiase@smar.com.br
AssetView Email Password SSL
OK Cancel

Figure 1.17. Configuring E-mail Options

- 1. Type the name or the IP address of the e-mail server in the SMTP Server box.
- 2. Configure the maximum idle time, in milliseconds, for the communication with the e-mail server in the **TimeOut** box. It is recommended to use a value 10 times bigger than the server's response time.
- 3. Configure the e-mail account for AssetView.

- 4. If the e-mail server requires authentication, select **Yes** in the **Use Authenticate Mode** box and type the password for the e-mail address in **AssetView**.
- 5. If the mail server uses the SSL protocol, check the option **SSL** and type the corresponding number for the SMTP port, on the **SMTP Port** box.
- 6. Click **Ok** to save the changes and close this dialog box.

NOTE
Some e-mail servers may require a Domain and User name instead of the email address to configure the AssetView Email Account field.

Configuring the Communication

In the **Welcome Screen**, click the link **OPC Server** to configure the communication interface. The **Communication Settings** dialog box will open:

PCommunication Se	ettings 📃 🗖 🗙
Server Id:	
Smar.Dfi0leServer.0	
Server Context	
C Inprocess	C Remote
C Local	C All
	OK Cancel

Figure 1.18. Configuring the Communication

Select the communication server from the list of available servers. Click Ok to conclude.

Selecting the Topology Configuration

In the **Welcome Screen**, click the link **Configure Area** to select the project configuration that will be used by the **AssetView Server**. The **Areas** dialog box will open:

as		
Current Area — Name: Not co Path: Not co	nfigured	HSEAlarms CK
)thers Areas —		
Name	Path	Computer
		Close

Figure 1.19. Areas dialog box

Click the combo box on the upper right corner on the Areas dialog box to select the configuration from the list of configurations available and click **Ok**.

If the desired configuration is not listed on the combo box, click the button ... as indicated in the figure above and the **Open** dialog box will open. Browse the folders to locate the configuration file with the extension .ffp. Select the file icon and click **Open** to import the plant project configuration to the **AssetView Server**.

Open					? ×
Look in:	PROJ_AV		•	🗢 🗈 💣 💷	•
My Recent Documents Oesktop	PROJ_AV.ffp				
My Documents					
In the second se					
(File name:	PR0J_AV.ffp		•	Open
My Network	Files of type:	Projects (*.ffp)		•	Cancel
Flaces		Open as read-only			

Figure 1.20. Selecting the configuration file

ATTENTION
From System302 version 7.0.x on, project configuration files are managed by Studio302 . Those files are saved in the corresponding project folder, in a common directory. The default path to project folders is C:\Program Files\Smar\ConfigurationWorkspace\Client\CWFiles\System302.

A message box will open indicating the topology was stored in the database.



Figure 1.21. Selecting the configuration file

Click Ok to return to the Areas dialog box and click Close to conclude.

Now the system is ready to execute the **AssetView Server** and navigate on the **AssetView** devices' pages.

Click Launch Smar AssetView Server to start AssetView Server. The following sections on this manual will describe the AssetView Server interface and how to navigate the pages available for the field devices

ASSETVIEW SERVER

The **Smar** AssetView Server runs transparently to the user. The AssetView Server monitors the devices, controls the number of devices monitored and grants permissions to users.

Before initializing the AssetView Server, it is necessary to:

- 1. Create the device configuration using Syscon.
- 2. Export the tags.
- 3. Initialize the communication using **Syscon** to check if the settings are correct.
- 4. Check if the Online Characterization window shows the parameter values in Syscon.

It is not necessary to keep the **Syscon** window open while executing the **AssetView Server**. Remember that **Syscon** and **AssetView** can be installed separately, on different computers. Refer to the **Syscon User's Manual** for details about project configurations.

Starting AssetView Server

Using System302 Version 6.1

To open the *AssetView Server* window, click **Start > Programs > System302 > AssetView > AssetView Server**:

	Smar ProcessView	1				
(internet)	Smar WebHMI 🔹 🕨					
6	Startup 🕨					
m	System302	m	AssetView	Þ	0	AssetView Areas
	WinRAR •	6	PROFIBUS Configurator	۲	Þ	AssetView Server
۲	Internet Explorer		Studio302	۲	5	AssetView.udl
5	Outlook Express		Tools	۲	饂	AVTerminal
2	Remote Assistance	۲	Getting Started		(Backup AssetView Database
88	Windows Live Messenger	۲	Readme		*	Installation Guide
Θ	Windows Media Player	Γ				SqlServer Create Database

Figure 2.1. Initializing the AssetView Server

Using System302 Version 7.0.x

From the Start menu, select Programs > System302 > Studio302 and click Studio302, as indicated below:



Click the button Point the Studio302 toolbar and the following dialog box will open:



Figure 2.3. Initializing the AssetView Server

Click the option *AssetView Server* to execute this application. The following figure shows the *AssetView Server* window:

en Topology	Register Tracking	User							Version
vice List								Details	Thumbna
\G	ID	Protocol	Manufacturer	Туре	Registered	Monitored	HIRT Block Tag	Bridge	FF Channel
ntLog			1						Clear
in and time	Merrozen				Davi	oo Too	Block Tao		Protocol
	maaaago				000	cortug	biocic rug		11010001

Figure 2.4. AssetView Server Interface

At the bottom of the **AssetView Server** window, the status bar indicates the configurations made by the user at the **AssetView Welcome Screen**, when the tool is executed for the first time. This means that the status bar indicates the OPC server selected for the communication, the e-mail server, the number of licenses available according to the number of the devices registered in the **AssetView Server** database, and also indicates if the connection to the database is active.

Selecting the Topology

Click **Open Topology** on the main menu to read the configuration from the **Syscon** file selected on the *Welcome Screen*, which was configured when **AssetView** is executed for the first time.

Wait a few seconds while the information from blocks and devices are read from the configuration file and from the communication network, in case the configuration has HART devices.

ATTENTION

To read information from another project configuration, it will be necessary to create the database again and include the configuration file, at the *AssetView Welcome Screen*. Refer to the section **Selecting the Topology Configuration** for details.

Registering Devices

When executing **AssetView Server** for the first time, there are no devices registered in the database. Registering a device implies the parameter values from this device are read and stored in the database, and after that it is possible to monitor maintenance and diagnostic events, for example.

On the main menu.	click the option	n Register to oper	n the List of Devices	s dialog box.

ist of Devices							
Register (15)	Select All Clear selection		Register T	ime Out (minutes) :	3 +		Close
Tag	ID	Manufacturer	Туре	Bridge	FF Channel	Detail(s)	Protocol
🗖 🏪 DFI-307	0003020008:SMAR-DF51:307	SMAR	DF51			Yes	FF
🗹 🍋 DFI 367	0003020008:SMAR-DF51:367	SMAR	DF51			No	FF
🗹 🗑 DC302_0_1	0003020010:SMAR-DC302:137800127	SMAR	DC302	DFI 367	Fieldbus 11	No	FF
🗹 🞯 FI-302-1	0003020005:SMAR-FI302:006801691	SMAR	FI302	DFI 367	Fieldbus 14	No	FF
🗹 🞯 Device 2	0003020004:SMAR-FP302:007801017	SMAR	FP302	DFI 367	Fieldbus 14	No	FF
🗹 😳 TT-92031	0003020002:SMAR-TT302:004803166	SMAR	TT302	DFI 367	Fieldbus 14	No	FF
🗹 👰 DT-302	000302000e:SMAR-DT302:000804483	SMAR	DT302	DFI 367	Fieldbus 14	Yes	FF
🗹 🚭 LD-302-AV	0003020001:SMAR-LD302:000804818	SMAR	LD 302	DFI 367	Fieldbus 14	No	FF
🗹 🚭 IF-302	0003020003:SMAR-IF302-004804495	SMAR	IF302	DFI 367	Fieldbus 14	No	FF
🗹 😨 TP-302-AV	000302000b:SMAR-TP302:000809712	SMAR	TP302	DFI 367	Fieldbus 14	No	FF
🗹 🚭 FR-302	0003020020:SMAR-FR302:249800012	SMAR	FR302	DFI 367	Fieldbus 14	No	FF
🗹 🚭 TT 302	0003020002:SMAR-TT302:004805865	SMAR	TT302	DFI 367	Fieldbus 14	No	FF
🗹 🗐 DT302-1	000302000e:SMAR-DT302:000812339	SMAR	DT302	DFI 367	Fieldbus 14	No	FF
🗹 😨 TP-302-1	000302000b:SMAR-TP302:000809792	SMAR	TP302	DFI 367	Fieldbus 14	Yes	FF
🗹 👰 LD-302-1	000302000D:SMAR-LD292	SMAR	LD292	DFI 367	Fieldbus 14	Yes	FF
🗹 🗑 FP302-1	0003020004:SMAR-FP302:007801685	SMAR	FP302	DFI 367	Fieldbus 14	No	FF
Register Device Details					-Number of Device	s	
Device is ready to be re	gistered.				Uploaded:	16 Ber	nistered: 0
						10 Lier	
					Unregistered:		

Figure 2.5. List of Devices

Text displayed in orange means the device can be registered but some restrictions apply. Missing or outdated information are indicated in the **Register Device Details** text box, at the bottom of the dialog box. Select the device on the table to display the details about the status.

Mark the devices to be registered in the database. To select all devices, click the button **Select All**. To unmark all devices, click the button **Clear Selection**.

The procedure to register the devices has a time limit variable and its default value is 3 minutes. This value can be edited in the **Register Time Out** box. When the idle time interval defined by the user expires, the register procedure for the instrument being registered is aborted.

Click Register to start registering the selected devices in the database.

ist of Devices							
Register (15)	Select All Clear selection	1	Register ⁻	l'ime Out (minutes) :	3 +		Close
Tag	ID	Manufacturer	Туре	Bridge	FF Channel	Detail(s)	Protocol
🗖 🏪 DFI-307	0003020008:SMAR-DF51:307	SMAR	DF51			Yes	FF
🗹 🏪 DFI 367	0003020008:SMAR-DF51:367	SMAR	DF51			No	FF
🗹 🚭 DC302_0_1	0003020010:SMAR-DC302:137800127	SMAR	DC302	DFI 367	Fieldbus 11	No	FF
🗹 😳 FI-302-1	0003020005:SMAR-FI302:006801691	SMAR	FI302	DFI 367	Fieldbus 14	No	FF
🗹 😨 Device 2	0003020004:SMAR-FP302:007801017	SMAR	FP302	DFI 367	Fieldbus 14	No	FF
🗹 😳 TT-92031	0003020002:SMAR-TT302:004803166	SMAR	TT302	DFI 367	Fieldbus 14	No	FF
🗹 😳 DT-302	000302000e:SMAR-DT302:000804483	SMAR	DT302	DFI 367	Fieldbus 14	Yes	FF
🗹 🗑 LD-302-AV	0003020001:SMAR-LD302:000804818	SMAR	LD 302	DFI 367	Fieldbus 14	No	FF
🗹 🗑 IF-302	0003020003:SMAR-IF302-004804495	SMAR	IF302	DFI 367	Fieldbus 14	No	FF
🗹 🗑 TP-302-AV	000302000b:SMAR-TP302:000809712	SMAR	TP302	DFI 367	Fieldbus 14	No	FF
🗹 🚭 FR-302	0003020020:SMAR-FR302:249800012	SMAR	FR302	DFI 367	Fieldbus 14	No	FF
🗹 🚭 TT302	0003020002:SMAR-TT302:004805865	SMAR	TT302	DFI 367	Fieldbus 14	No	FF
🗹 🚭 DT302-1	000302000e:SMAR-DT302:000812339	SMAR	DT302	DFI 367	Fieldbus 14	No	FF
🗹 😳 TP-302-1	000302000b;SMAR-TP302:000809792	SMAR	TP302	DFI 367	Fieldbus 14	Yes	FF
🗹 🚭 LD-302-1	000302000D:SMAR-LD292	SMAR	LD292	DFI 367	Fieldbus 14	Yes	FF
- 23 FD202 1	000302000A-SMAB-EP302-007801695	SMAB	FP302	DFI 367	Fieldbus 14	No	FF

AssetView can monitor HART devices using the Smar HI302 - HART/Foundation Fieldbus Interface. It is necessary to update the firmware version to 0601 (6.01 or higher) and create the blocks configuration for the HI302. Please refer to the **HI302 User's Manual** (Chapter 3) for further information.

The current *AssetView* version supports the devices FY301, LD301, TT301, DT301, TP301 and FY400. Other HART devices will use a generic page, as well as the devices from other manufacturers.

If a device selected to be registered does not have all required blocks or has an old firmware revision, the device will be registered in the database but some functionalities, such as calibration and diagnostic methods, may not be available.

The example on the figure below shows the dialog box that will appear while the instruments are being registered:

R	egistering):01 of 15 - (0 %)
	Device Tag Device ID Manufactum Device Typ Protocol	DFI 367 0003020008:SMAR-DF51:367 er SMAR e DF51 Fieldbus Foundation
		Abort <u>S</u> kip
In		
Ľ		
	Block	Parameter
	TRDRED1	TAG DESC
	TRDRED1	SOFTWARE_NAME
	TRDRED1	RED_ROLE_L
	TRDRED1	RED_STATE_L
	TRDRED1	RED_SYNC_STATUS_L
	TRDRED1	RED_ROLE_R
	TRDRED1	RED_STATE_R
	TRDRED1	RED_SYNC_STATUS_R
	TRDRED1	RED_BAD_CONDITIONS_L
	TRDRED1	RED_BAD_CONDITIONS_R
	TRDRED1	ST REV

Figure 2.6. Registering devices

If the selected devices have *Maintenance Templates*, *AssetView Server* will register these maintenances after registering the blocks. See section **Maintenances Templates** for details about the *AssetView Maintenance Wizard*.



Figure 2.7. Programming Maintenances

The **Register Report** window will open indicating if the instruments were registered with success. See the example below:

ister Report							
ımmary :	@(1) 🔞(2)					
Registered	Tag	ID	Message	Bridge			
🛛 Yes	LD292-949-2-1	000302000D:SMAR-LD292	Device registered with restrictions (Some parameters won't be available).	DFI 367			
📴 No	LT-01	0003020001:SMAR-LD302:800570	Register timeout expired.	DFI-734			
🖗 No	TT-01	0003020002:SMAR-TT302:S410	Register timeout expired.	DFI-734			
				1			
				Start Tracking			

Figure 2.8. Details Window

Click the button **Start Tracking** to start monitoring and tracking the devices. Refer to the section **Tracking** for further details.

Tracking

The **Tracking** option initializes the monitoring of the devices registered in the database, storing the changes of the parameter values in the historical information.

On the main menu, click the option **Tracking**. *AssetView Server* starts monitoring the information from the Fieldbus network and the **Tracking** window displays the information about the devices being monitored.

pen Topology Register Tracking User <u>Yersion 4.</u>								
evice List			D	etails	Thumbna			
🛐 IF 302 🌍 DT	302 🐻 FY301							
	-							
OPC DA: 25 Good	: 25							
OPC DA: 25 Good	: 25				Clear			
OPC DA: 25 Good ant Log ate and time	: 25 Message	Device Tag	Block Tag	Prol	Clear			
OPC DA: 25 Good ant Log ate and time 10/2009 10:37:02	25 Message Number of Hart devices found on topology : 6	Device Tag	Block Tag	Pro	Clear			
OPC DA: 25 Good ent Log ate and time 10/2009 10:37:02 10/2009 10:37:04	25 Message Number of Hart devices found on topology : 6 [[ask Control] Starting Task Control	Device Tag	Block Tag	Pro	Clear			
OPC DA: 25 Good ent Log ale and time 10/2009 10.37.02 10/2009 10.37.04 10/2009 10.37.04 10/2009 10.37.04	25 Message Nunber of Hart devices found on topology: 6 [Tack Control] Stating Tack Control [Tack Control] Stating OPC DA Servers [Tack Control] Stating OPC DA Servers	Device Tag	Block Tag	Pro	Clear			
OPC DA: 25 Good ent Log ate and time 10/2009 10:37:02 10/2009 10:37:04 10/2009 10:37:04 10/2009 10:37:04 10/2009 10:37:04 10/2009 10:37:04	Message Number of Hart devices found on topology : 6 [Task Control] Stating Task Control [Task Control] Stating OPC DA Serverz [Task Control] OPC DA Serverz [Task Control] OPC DA Serverz [Task Control] OPC DA Serverz	Device Tag	Block Tag	Prol	Clear			
OPC DA: 25 Good ent Log late and time 10/2009 10:37:04 10/2009 10:37:04 10/2009 10:37:04 10/2009 10:37:08 10/2009 10:37:08	Message Number of Hart devices found on topology : 6 If ask Control Starting Task Control If ask Control Starting OPC DA Servers. If ask Control OPC DA Server. If ask Control OPC DA Server Constant. Consociolito estamentor IDA Server.	Device Tag	Block Tag	Prol	Clear			
OPC DA: 25 Good ent Log ale and time 10/2009 10:37:02 10/2009 10:37:04 10/2009 10:37:04 10/2009 10:37:08 10/2009 10:37:08 10/2009 10:37:08	25 Message Number of Hat devices found on topology : 6 Trak Control [Stating DFA Servers. Trak Control [Stating DFA Servers. Trak Control [Stating DFA Servers. Trak Control [DFD DA Server Smar DDIaServer.0] successfully connected. Trak Control [DFD DA Server Smar DDIaServer.0] successfully connected. Trak Control [DFD DA Server Smar DDIaServer.0] successfully connected. Trak Control [Stating DFA Server Smar DDIaServer.0] successfully connected. Trak Control [DFD DA Server Smar DDIaServer.0] successfully connected. Trak Control [Stating DFA Server Smar DDIaServer.0] successfully connected. Trak Control [Stating DFA Server Smar DDIAServer.0] successfully connected. Trak Control [Stating DFA Server Smar DDIAServer.0] successfully connected. Trak Control [Stating DFA Server Smar DDIAServer.0] successfully connected. Trak Control [Stating DFA Server Smar DDIAServer.0] successfully connected. Trak Control [Stating DFA Server Smar DDIAServer.0] successfully connected. Trak Control [Stating DFA Server Smar DDIAServer.0] successfully connected. Trak Control [Stating DFA Server Smar DDIAServer.0] successfully connected. Trak Control [Stating DFA Server Smar DDIAServer.0] successfully connected. Trak Control [Stating DFA Server Smar DDIAServer.0] successfully connected. Trak Control [Stating DFA Server Smar DDIAServer Sma	Device Tag	Block Tag	Prol	Clear			
OPC DA: 25 Good ent Log late and time 10/2009 10:37:04 10/2009 10:37:04 10/2009 10:37:04 10/2009 10:37:08 10/2009 10:37:08 10/2009 10:37:08 10/2009 10:37:08	25 Message Number of Hart devices found on topology : 6 (Task Control) Stating Task Control (Task Control) Stating OPC DA Servers (Task Control) OPC DA Servers (Task Control) PDC DA Server Concert (Smart Drift) DeServer (D) successfully connected. (Task Control) PDC DA Server Concert (Smart Drift) DeServer (D) successfully connected. (Task Control) PDC DA Server Concert (Smart Drift) DeServer (D) successfully connected. (Task Control) PDC DA Server Concert (D) successfully connected. (Task Control) PDC DA Server Concert (D) Sating Tasking Services. (Tracking Service) Stating Tasking Services.	Device Tag	Block Tag	Pro	Clear			
OPC DA: 25 Good ent Log also and time 10/2009 10-37.04 10/2009 10-37.04 10/2009 10-37.04 10/2009 10-37.08 10/2009 10-37.08 10/2009 10-37.09 10/2009 10-37.09 10/2009 10-37.09	25 Message Munder of Hat devices found on topology: 6 Task Control [Stating DFA Control. Connecting parameters to DA Server (Smar DDIaServer I) successfully connected Task Control [Stating DFA Control. Connecting parameters to DA Server. Check the "Statup Progress" on the status bar. Tracking Service [Stating Topicanot Service. Diagnostic Service] Stating Tasking Service. Diagnostic Service I Control Tasking Service.	Device Tag	Block Tag	Pro	Clear			

Figure 2.9. Tracking results

ATTENTION Devices must be registered in the database and **online** on the Fieldbus network to be monitored.

Tracking Failings

If a device is displayed in the **Tracking** window with a red \mathbf{X} on its icon, it means that the device is not being monitored because of a failure in the communication.

A typical example of a communication failure occurs when the device goes offline and returns to online mode after a short period of time. The system automatically detects when the instrument starts communicating again. The monitoring process is restarted and the device icon in the **Tracking** window is restored to its normal state.

Right-click the device icon and select **Failing Reason** to see the details about the tracking fail. This option is also available in the device popup menu, in the **Device List** window.

🗃 Device Fall	ing Reason	×
Device ID :	0003020020:SMAR-FR302:249800013	
Device Tag :	FR302_TESTE	
Falling Reason	1:	
ST_REV_FR3 ST_REV_FR3 ST_REV_FR3 ST_REV_FR3 ST_REV_FR3	02_TESTE_DIAGTRD 02_TESTE_DO-1 02_TESTE_DO-2 02_TESTE_SOPID	
L	OK	

Figure 2.10. Failing Reasons

NOTE

To stop tracking the devices, it is necessary to close *AssetView Server*. In the **Topology** menu, click **Exit**.

Managing Devices in the Database

You can check the list of devices registered in the database or remove a device register from the database. The **Devices List** dialog box has two view modes that can be selected clicking the buttons **Details** and **Thumbnails** on the upper right side of the window.

span reporegy										
evice List									Details	Thumbnails
TAG	ID	Protocol	Manufacturer	Туре	Registered	Monitored	HIRT Block Tag	Bridge	FF Unannel	
🗑 Bridge 6	0003020008:SMAR-DF51:666	Fieldbus	SMAR	DF51	No	No	NA			
🗑 DF51	0003020008:SMAR-DF51:305	Fieldbus	SMAR	DF51	No	No	NA			
🗃 DFI 367	0003020008:SMAR-DF51:367	Fieldbus	SMAR	DF51	No	No	NA			
😨 WESTLOCK	5743430001Westlock A00001411	Fieldbus	WESTLOCK	FPAC V	No	No	NA	DFI 367	Fieldbus 13	
🗐 LD 302	0003020001:SMAR-LD302:000804818	Fieldbus	SMAR	LD 302	No	No	NA	DFI 367	Fieldbus 13	
🗃 IF 302	0003020003:SMAR-IF302-004804495	Fieldbus	SMAR	IF302	Yes	Yes	NA	DFI 367	Fieldbus 13	
1LPSVP0051	0051006000FisherDVC0050206213048	Fieldbus	Fisher Contr	DVC60	No	No	NA	DFI 367	Fieldbus 13	
🗐 DT 302	000302000e:SMAR-DT302:000812339	Fieldbus	SMAR	DT302	Yes	Yes	NA	DFI 367	Fieldbus 13	
🗑 LD 292	000302000D:SMAR-LD292	Fieldbus	SMAR	LD292	No	No	NA	DFI 367	Fieldbus 13	
🗑 FP 302	0003020004:SMAR-FP302:007801685	Fieldbus	SMAR	FP302	No	No	NA	DFI 367	Fieldbus 13	
🗃 DC 302	0003020010:SMAR-DC302:137800127	Fieldbus	SMAR	DC302	No	No	NA	DFI 367	Fieldbus 14	
🗃 FI-302-1	0003020005:SMAR-FI302:006801691	Fieldbus	SMAR	FI302	No	No	NA	DFI 367	Fieldbus 16	
FP-302-AV	0003020004:SMAR-FP302:007801017	Fieldbus	SMAR	FP302	No	No	NA	DFI 367	Fieldbus 16	
🗑 TT-92031	0003020002:SMAR-TT302:004803166	Fieldbus	SMAR	TT302	No	No	NA	DFI 367	Fieldbus 16	
🗑 FR-302-1	0003020020:SMAR-FR302:249800061	Fieldbus	SMAR	FR302	No	No	NA	DFI 367	Fieldbus 16	
3051	0011513051092601082020-070000150	Fieldbus	Rosemount	3051	No	No	NA	DFI 367	Fieldbus 16	
(3) TP-302.6V	0003020005-SMAR-TP302-000809712	Fieldhus	SMAR	TP302	No	No	NA	DEI 367	Fieldhus 16	

Figure 2.11. Device List Dialog Box - Details View

The option **Detils** displays information about the devices, such as the manufacturer, device type and protocol. Click the column header to sort the list of devices, toggling between ascendant and descendent sorting.

The option **Thumbnails** shows only the devices registered on the database that are being monitored.

₽ Smar AssetView Server		_ 8 ×
Open Topology Register Tracking User		tion 1.0. Puild 4
Device List	Details	Thumbnails
@9 ^[1-322] @ DT 322 @ Fr331		
On OPC DA: 25 Good: 25		

Figure 2.12. Device List Dialog Box - Thumbnails View

The devices displayed in this dialog box are configured in the **Syscon** file. The **Tracking** procedure reads the information related to these devices from the database and from the Fieldbus Network. See section **Tracking** for further information about monitoring a device.

You can manage the devices adding or removing their register from the database, according to the number of devices allowed by the *License Key* to be included in the topology.

Unregistering Devices

On the Device List dialog box, right-click the device icon and select the option Unregister.

Smar AssetView Server									
Open Topology Reg	ister Tracking User								
Device List									
TAG	ID	Protocol							
🗑 Bridge 6	0003020008:SMAR-DF51:666	Fieldbus							
🗑 DF51	0003020008:SMAR-DF51:305	Fieldbus							
🗑 DFI 367	0003020008:SMAR-DF51:367	Fieldbus							
🗑 WESTLOCK	5743430001Westlock A00001411	Fieldbus							
🗑 LD 302	0003020001:SMAR-LD302:000804818	Fieldbus							
F 302 Unregister	3020003:SMAR-IF302-004804495	Fieldbus							
Pailing Reason	1006000FisherDVC0050206213048	Fieldbus							
DT 36z	000302000e:SMAR-DT302:000812339	Fieldbus							

Figure 2.13. Unregistering a Device

The option **Unregister** is also available from the **Thumbnails** view on the **Tracking** window.

A message box opens to confirm the operation. Click **Yes** to remove the device register from the database or click **No** to cancel. Another message box indicates to the user that the operation was concluded with success. Click **Ok** to conclude.

Event Log

The log with the events executed in **AssetView Server** is shown at the bottom of the **AssetView Server** window.

Event Log				Clear
Date and time	Message	Device Tag	Block Tag	Protocol
15/4/2009 16:35:27	Getting list of FF devicesPlease wait		ĺ	
15/4/2009 16:35:48	Number of FF devices found on topology : 15			
OPC Server: Smar.DfiDleServer.0 Email Server: Not Configured Scheduling Service: Started License: Registered:0/Allowed:9999 Database:				

Figure 2.14. Event Log window

In case an error occurred, it is indicated in red. Double-click the corresponding row in the **Event Log** window to open the **Error Message** that provides information about the error.

Error I	Message		×
8	Scope : Procedure : Error Description : Error Number :	CHartControl StartHartMonitorin Failed to connect -2147220988	ig OPC Server. Description:
	•		F
			ОК

Figure 2.15. Error Details

Deleting the Event Log

Click the button **Clear** on the right side of the window to delete all the information in the **Event Log** window.

User Management

It is necessary to configure permissions for users to access the **AssetView Server**. Click **User** on the main menu to open the dialog box:

Users		×
Group Engine	er 💌	
User Name juliana	Email	
IUSR_JULIANA Everyone		
Add	Edit Delete Close	

Figure 2.16. Users dialog box

Adding Users

Click the Add button to add a new user. The Add Users dialog box will open:

Add User	×
Group	
Username	
Description	
Full Name	
Password	
E-mail	
	OK Cancel Existing >

Figure 2.17. Adding Users

- Select the group to which the user will be added: Engineers or AssetViewGuest. Users added to the Engineers group will have permission for writing and reading information from the server. Users added to the AssetViewGuest group will only have permission to read information from the server.
- 2. Type the user name.
- 3. Type a brief description for the user.
- 4. Type the user's full name.
- 5. Choose a password for the user.
- 6. Type the user's e-mail.
- 7. Click **Ok** to conclude.

Adding Existing Users

On the Add Users dialog box, click Existing to open the list of users for the local machine:

Add User		×
Group	AssetViewGuest	Administrator (Domain Users)
Username	Guest	Authenticated Users (Users) brunobueno (Domain Users) clearcase_albd (Domain Users)
Description		daniel (Domain Üsers) daniele (Domain Users)
Full Name		Domain Users (Users) evandro (Domain Users) ferracini (Domain Users)
Password	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	Guest (Domain Users)
E-mail		krbtgt (Domain Users) omar (Domain Users)
	OK Cancel < Existing	

Figure 2.18. Existing Users

- 1. Select the user name from the list of existing users.
- 2. Select the group to which the user will be added: Engineers or AssetViewGuest.
- 3. Type the user's e-mail.
- 4. Click **Ok** to conclude.

Editing User's Attributes

Only the e-mail address can be altered, it is not possible to change the user's name or password, for example.

On the **Users** dialog box, click **Edit** to open the **Add User** dialog box and type the new e-mail address. Click **Ok** to conclude.

Removing Users

Click the user's name in the Users dialog box and click Delete.

A message box opens to confirm the operation. Click **Yes** to proceed and remove the user from the group of **AssetView** users.

Another message opens to confirm whether the user should be removed from Windows. Click **Yes** to remove the user from the operational system, or click **No** and the user will only be removed from the group of **AssetView** users.

ASSETVIEW AREAS

For many reasons, a large plant is usually divided into several areas. From the **AssetView** point of view, each area is represented by one particular **AssetView Server**, which will be in charge of registering all devices and keeping track of them.



Figure 3.1. Managing different areas

AssetView provides a Web page with links to all these areas, so the user can easily navigate through these areas just by clicking a link. This Web page can be opened from any of the **AssetView Server** machines as well as any other client computer (intranet/internet) that has a browser installed. To achieve this functionality, follow the steps below to configure the **AssetView** areas.

To open the AssetView Areas window, go to the Start menu and select Programs > System302 > AssetView > AssetView Areas, as indicated below:

Imar ProcessView	•	
🛅 Smar WebHMI	▶	
🛅 Startup	▶	
🖬 System302	🕨 🖬 AssetView 🔹 🕨 🌖 AssetView Areas	
m WinRAR	🕨 🛅 PROFIBUS Configurator 🔸 💋 AssetView Server 👘	۲ ۲
🥑 Internet Explorer	🛅 Studio302 🔹 💀 🗓 AssetView.udl	
🗐 Outlook Express	🛅 Tools 🔹 🛃 🔛 🛅 AVTerminal	
💫 Remote Assistance	🙆 Getting Started 🛛 🚯 Backup AssetView Data	base
😂 Windows Live Messenger	🕘 Readme 🥻 🦄 Installation Guide	
 Windows Media Player 	🔋 🔋 SqlServer Create Datab	ase

Figure 3.2. Initializing the AssetView Areas

The AssetView Areas window will open:



Figure 3.3. Configuring Areas

Changing Areas Attributes

Select the area icon from the list of areas. On the main menu, select **Area** and click **Change Attributes**. The **Change Attributes** dialog box will open.

🍓 Configure Ar	eas	_ 🗆 ×
Area Help Clo:	se	
Name Project01	IP JULIANA	
	Change Attributes	Project01
	AssetServer IP address:	JULIANA Change

Figure 3.4. Changing Areas Attributes

At the **AssetServer IP address** text box, type the new IP address or the network machine name where the devices from this area have been registered. Click **Change** to conclude.

Repeat the steps described above to change the attributes from other areas.

Opening the Areas Topology

Open the Web browser and type the web address to the Areas page: http://<server address>/assetview/area.htm

IMPORTANT

The **Areas** page must be opened in the browser using the server address or the name of the server machine where the areas were configured with **AssetView Areas**. The address is indicated in the column **IP** corresponding to the area, in the **Configure Areas** window described above.

Click the expansion sign next to the plant icon to expand the tree and see the links to the areas:



Figure 3.5. Areas topology

Clicking a link to an area will open the **AssetView** page from the respective machine, identified by the IP address configured previously by the **AssetView Areas** application. On the **AssetView** page, the user must type the login and password to open the configuration topology tree and access the **AssetView** functionalities.

🚈 Smar AssetView - Microsoft Internet Explorer	_ 🗆 ×
File Edit View Favorites Tools Help	1
🚱 Back 🔹 🕥 🖌 😰 🏠 🔎 Search 🤺 Favorites 🤣 😥 - 😓 👿 🔹 🛄	
Address 🙆 http://localhost/AssetView/Generic/c_login.aspx	🔁 🗸
AssetView Diagnostic Maintenance Web Tool	4
Login	
Please enter your login and password to access the system. Login Password Domain LOGIN	
This product is protected by U.S. patent numbers 6,631,298; 6,725,182 and other U.S. Patents pending.	
🙆 Done	11.

Figure 3.6. User Authentication

Once the user name and the password are correct, the *AssetView* topology will open on the browser, as illustrated below:



Figure 3.7. Loading the topology
ASSETVIEW

Loading the Configuration

To start AssetView, open the Internet Explorer and type:

http://machine name/assetview (local or remote access)
or
http://localhost/assetview (local access)
or
<pre>http://machine IP_number/assetview (local or remote access)</pre>

Smar AssetView - Microsoft Internet Explorer	
File Edit View Favorites Tools Help	
🚱 Back 🔹 🕥 👻 😰 🏠 🔎 Search 🥋 Favorites 🚱 😥 - چ 🕅 🝷 🛄	
Address 🙆 http://localhost/AssetView/	nks » 撠 🔹
AssetView Diagnostic Maintenance Web Tool	×
Login	
Please enter your login and password to access the system. Login Password Domain LOGIN	
This product is protected by U.S. patent numbers 6,631,298; 6,725,182 and other U.S. Patents pending.	•
🕘 Done	ocal //.

Figure 4.1. AssetView Home Page

On the **AssetView** main page, the user will have to type the login and password to access the configuration topology tree and the **AssetView** functionalities.

ATTENTION

If *AssetView* is installed in a domain, it will be necessary to type the domain name to access the *AssetView* functionalities.

AssetView reads the network topology from the Syscon configuration file. The user can browse the operational devices at different plant locations using AssetView.

The frame on the left side of the browser window will display the plant topology. Click the expansion sign to expand the *Fieldbus Network* and its segments.



Figure 4.2. Browsing the Topology

Opening the Device Home Page

Each device type has a standard home page layout. Every device in a plant location has a home page from where the user can proceed with the calibration, configuration, identification, diagnostics or reconciliation of the device configuration.

Navigating through the topology tree, click on any device icon to display its home page. The figure below shows the home page of the LD302 with the tag name LD 302:



Figure 4.3. Device Home Page

According to each device type, the main page may have the following links:

Calibration

Calibration is the correction of sensor reading and physical outputs. During this process messages are displayed to the user indicating the status of this condition. There are specific calibration methods for each device based on scripts defined by the manufacturers.

Configuration

In the Configuration page, the user can read and write the parameter values of the devices. From this page, the user can also access the Reconciliation page and compare the current configurations to previous configurations of the devices stored in the database. Refer to subsection *Reconciliation*.

Diagnostics

Simple diagnostics are displayed to the user. Comprehensive tests can be done from time to time using several charts to check the condition of the field device. Because of the diagnostic it is possible to first remotely check the device if there really is a failure before going into the field. And yet, because of the detailed information about the Network and device operation provided by the diagnostics, the user knows exactly where the problem is.

Identification

The Identification page provides all the information relevant to maintenance of the device, such as its manufacturer, device type, tag, serial number, and its versions. Materials of construction for wetted parts are also indicated.

Device View

The Device View page monitors the instrument data, such as temperature or pressure values read from the instrument.

Display

In the Display page, the user can configure the device's display, viewing and modifying parameters such as device mnemonics.

Reconciliation

Reconciliation allows comparison of current device settings with past configurations stored in the database.

The **Time** menu on the left side of the page list the modifications made in the device, including the last modification that is also called the "current device parameterization". The Time menu on the right side also list the modifications made in the device except date and time for the current device parameterization.

		LD 302 [RECO	N CONFIGUR	ATION]		
		IBRATION DISPLAY	DEVICEVI		TION [Mon	DIAGNOSTIC
Time 6/10/2009 17	:18:28 🗸			Tir	ne 6/	10/2009 17:18:14 💌
		Device Operat	tion Mode			
RES	Auto 🗲	Auto	TRD	Auto	+	Auto
AI	Auto 🗲	Auto	DSP	Auto	←	Auto
		Measurement Co	onfiguration			
Auto Zero Fals	e 🔶	False	Function	Direct	-	Direct
Characterization Disa	able and Restore Cal	Disable and Restore Cal	Low Cut Off	0	-)
	Engineering Varia	ble		Process V	ariab	le
Unit	•R 🗲	٥R	Unit	psi	+	osi
0%	0 ←	0	Lower Range	1	+	1
100%	100 ←	100	Upper Range	100	←	100
		Alert Config	uration			
Max Offset Deviation	10 ←	10	Max Gain Devition	20	-	20
Overpressure Limit	10	10	Max Number of Overpressure	7	•	5
		Submi	t			

Figure 4.4. Reconciliation Page

Values of parameters that differ between the selected modification dates are highlighted.

When the parameter values differ between the two dates selected in the Time menu, it is possible to

transfer the value from the moment selected on the right clicking the arrow <u>between the</u> highlighted values. After transferring the values, click **Submit** to apply the values to the device and a new modification date will be created on the **Time** menu indicating the current time and date.

Integrating Devices

HART Devices

AssetView monitors HART instruments using the Smar HI302 (HART/Foundation Fieldbus Interface).

It is necessary to create the blocks configuration for the HI302 to represent the HART instruments installed in the plant. Please refer to the **HI302 User's Manual** (Chapter 3) for further information.

If the HART instrument being registered with the **AssetView Server** has not been registered in the database, this instrument will be registered as a generic instrument. The **List of Devices** dialog box will indicate the instrument is generic:

ist of Devices							
Register (0)	Select All Clear selection	n	Register 1	Time Out (minutes) :	1		Close
Tag	ID	Manufacturer	Туре	Bridge	FF Channel	Detail(s)	Protocol
🗖 🏪 DFI 305	0003020008:SMAR-DF51:305	SMAR	DF51			Yes	FF
🗖 🗑 LD-302-1	000302000D:SMAR-LD292	SMAR	LD292	DFI 367	Fieldbus 12	No	FF
🗖 🗑 FI-302-1	0003020005:SMAR-FI302:006801691	SMAR	FI302	DFI 367	Fieldbus 12	Yes	FF
🗖 🗑 FY-AV-06	00 00 06	SMAR	FY301	DFI-307	Fieldbus 5	No	HART
🗖 🗑 FY-AV-03	00 00 00	SMAR	FY301	DFI-307	Fieldbus 5	No	HART
🗖 🗑 FY-AV-02	00 00 45	SMAR	FY301	DFI-307	Fieldbus 5	No	HART
🗖 😨 FY-AV-04	00 00 02	SMAR	FY301	DFI-307	Fieldbus 5	No	HART
🗖 🗑 TI-AV-07	FF 00 03	SMAR	FY301	DFI-307	Fieldbus 5	No	HART
🗖 🗑 TT-AV-03	0C 75 7D	SMAR	TT301	DFI-307	Fieldbus 7	No	HART
D-AV-08	OC BD 7E	SMAR	LD301	DFI-307	Fieldbus 7	Yes	HART
Register Device Detail:	Register Device Details : Number of Devices						
Web pages not found f It can be registered usi		Uploaded:	29 Reg	gistered: 18			
					Unregistered:	10 Lice	ense : 9999

Figure 4.5. Generic HART Device

Select the HART instrument and the **Details** box will indicate the device is generic and it is ready to be registered.

	Register Device Details :	
	Web pages not found for this device type. It can be registered using generic Hart pages.	
L		

Figure 4.6. Registering a Generic Device

HART instruments from **Smar** or other manufacturers that don't have registered pages will use the generic pages located in the folder "Web Pages\Hart Device Support\GenericHart", inside the *AssetView* installation folder.

Observe the figure below:



Figure 4.7. Generic Pages for HART Instruments

DEVICE AND CONTROLLER LIST

Device List

Click the link Device List to open a page with the list of all devices in the topology from the project configuration selected in AssetView Server.

		Та	g Search:			
		(73)	SUMMARY (0) (0) (2) (2)	(0)		
Tag	Bridge	Channel	ld	Track	Maint	Diag
FI302 21	DF62_A7V	Fieldbus 1	0003020005:SMAR-FI302:00000021	۲	Ø.	۲
FI302 22	DF62_A7V	Fieldbus 1	0003020005:SMAR-FI302:00000022 @ 🔍 😨			
FI302 23	DF62_A7V	Fieldbus 1	0003020005:SMAR-FI302:00000023			
FI302 24	DF62_A7V	Fieldbus 1	0003020005:SMAR-FI302:00000024	۲	Q.	۲
FI302 25	DF62_A7V	Fieldbus 1	0003020005:SMAR-FI302:000000025	0	ą.	0
FY302 26	DF62_A7V	Fieldbus 1	0003020006:SMAR-FY302:00000026	۲	Q.	۲
FY302 27	DF62_A7V	Fieldbus 1	0003020006:SMAR-FY302:00000027	0	ą.	0
FY302 28	DF62_A7V	Fieldbus 1	0003020006:SMAR-FY302:00000028	۲	Q.	۲
FY302 29	DF62_A7V	Fieldbus 1	0003020006:SMAR-FY302:000000029	۲	ą.	0
FV302 30	DF62_A7V	Fieldbus 1	0003020006:SMAR-FY302:00000030	۲	Q.	۲

Figure 5.1. Device List Page

At the top of the page, use the **Tag Search** box to search for a specific device tag:

Tag Search:	

Figure 5.2. Searching for a Device

Type the desired text and the tags list will be shown dynamically based on that the user has typed.

You can order the list of devices in alphabetical order, ascendant or descendent, clicking each column header.

In the Tag column, click the device tag to open the device home page.

The Bridge and Channel columns indicate the tag of the controller and to which channel the instrument is connected, respectively.

In the Track column, the following icons indicate the device status:



Indicates the device has communication problems.





Indicates the device is operating in normal conditions.



Indicates the device is off-line.



Indicates a HART device operating in normal conditions.

In the **Diag** column, the following icons indicate diagnostic events:



Indicates that a diagnostic event has occurred.

2

Indicates the device is operating in normal conditions.

Indicates a HART device and there is a diagnostic event for the device.

In the **Maint** column, the following icons indicate the maintenance status for the device:



Indicates there are no pending maintenances for the device.



Indicates that maintenance should be executed in the device.

Controller List

Click the link **Controller List** to open a page with the list of all controllers in the topology from the project configuration selected in **AssetView Server**.

	AssetView Controller List	t in the second s		
Tag Se	earch:	Search 🗌 One P	age	
	SUMMARY			
	🗣 (2) 🎙 (0) 😪 (0) 👫 (0	o) 💐 (0)		
TAG	Ш	<u>TRACK</u>	DIAG	MAINT
DFI 367	0003020008:SMAR-DF51:367 🖳 🖳			ą.
DFI-307	0003020008:SMAR-DF51:307	0003020008:SMAR-DF51:307		

Figure 5.3. Controller List Page

At the top of the page, use the **Tag Search** box to search for a specific controller tag, as described previously for searching a device.

Click the column header to order the list of controllers in alphabetical order, ascendant or descendent.

In the Tag column, click the controller to open its home page.

In the Track column, the following icons indicate the controller status:



Indicates the controller has communication problems.



Indicates the controller is operating in normal conditions.



Indicates the controller is off-line.

In the **Diag** column, the following icons indicate diagnostic events:



Indicates that a diagnostic event has occurred.



Indicates the controller is operating in normal conditions.

In the Maint column, the following icons indicate the maintenance status for the controller:



Indicates there are no pending maintenances for the controller.

Indicates that maintenance should be executed in the controller.

AUDIT TRAIL REPORTS

AssetView has different types of reports to be configured by the user. Click the link **Audit Trail Report** to open the page with available reports.



Figure 6.1. Audit Trail Reports in AssetView

The subsections below describe the functionality of these reports and how to generate them. For all reports, the following filters will be available:

	Audit Trail Repo	ort - Configuration	Changes	
START DATE:		PROTOCOL:	All	
END DATE:	• •	DEVICE TYPE:	All	•
		DEVICE TAG:	All	- 1

Figure 6.2. Filters for the Reports

- START DATE: Select the initial date to search for the information to generate the report.
- END DATE: Select the final date to search for the information to generate the report.
- PROTOCOL: Select the devices of a specific communication protocol (HART or Fieldbus).
- **DEVICE TYPE:** Select the type of the device from the list of devices registered in the database.
- **DEVICE TAG:** This filter will display the list of tags from the devices registered in the database.

After configuring the filters, select the file format to generate the report:



Click this icon to generate the audit trail report in the **pdf** file format.

Click this icon to generate the audit trail report in the MS Excel file format.



Configuration Changes Report

This report shows all changed parameters of the device in a specific period of time.

To generate this report, click the link **Configuration Changes** in the **Audit Trail Reports** page and configure the filters to generate the report in the **pdf** or **xls** file format.

See the example below in pdf format:

		DEVIC	e tag: All	
Save a Copy 🚔 🊦	🚞 🔮 🎁 Searci	h 🚺 🚺 Select 📷	🔋 🔍 - 🚺 🛃 😁 🛿 89%	• •
sma	ar		Configurat	ion Changes
DATE / TIME US	SER BLO	CK TAG	PARAMETER	VALUE
Protocol FIELDBUS Device Type 3051	- DFI 367 Fieldbus 11 3	051		
8/7/2008 14:05:23 Sy	vstem 3051	_AI_1	CHANNEL	Pressure
8/7/2008 14:05:23 Sy	/stem 3051	_AI_1	XD_SCALE.UNITS_INDEX	<undefined></undefined>
10/7/2008 14:29:06 Sy	/stem 3051	_TRD_1	CAL_POINT_LO	2
10/7/2008 14:52:35 Sy	vstem 3051	TRD_1	CAL_POINT_LO	1
10/7/2008 14:54:45 Sy	stem 3051	TRD_1	CAL_POINT_LO	3
10/7/2008 15:01:33 Sy	/stem 3051	_TRD_1	CAL_POINT_LO	2
10/7/2008 15:04:16 Sy	/stem 3051	_TRD_1	CAL_POINT_LO	3
Device Type DT30	2 - DFI 367 Fieldbus 12	DT302-1		
3/7/2008 12:09:52 Sy	/stem DT3	02-1-BLK-1	CAL_POINT_HI	5
3/7/2008 12:09:52 Sy	/stem DT3	02-1-BLK-1	CAL_POINT_LO	1,2
3/7/2008 12:09:52 Sy	/stem DT3	02-1-BLK-1	CAL_TEMPERATURE	50
3/7/2008 12:09:52 Sy	/stem DT3	02-1-BLK-1	DEAD_BAND_BYPASS	True
3/7/2008 12:09:52 Sy	/stem DT3	02-1-BLK-1	SENSOR_CAL_DATE	[Wed] Jul 02,2008 14:15:34:00
3/7/2008 12:09:52 Sy	/stem DT3	02-1-BLK-1	SENSOR_CAL_WHO	ricardo
3/7/2008 12:09:52 Sy	/stem DT3	02-1-BLK-1	TEMP_GAIN	0,1293103
3/7/2008 12:09:52 Sy	/stem DT3	02-1-BLK-1	TEMP_ZERO	50
3/7/2008 12:09:52 Sy	/stem DT3	02-1-BLK-1	ZERO_ADJUST_TEMP	50
3/7/2008 14:31:41 Sy	/stem DT3/	02-1-BLK-1	TRANSDUCER_TYPE	Other
3/7/2008 14:51:58 Sy	stem DT3	02-1-BLK-1	TRANSDUCER_TYPE	Standard Pressure with calibra
3/7/2008 14:56:48 Sy	/stem DT3	02-1-BLK-1	CAL_POINT_LO	2
	vstem DT3	02-1-BLK-1	TRANSDUCER_TYPE	Other
3/7/2008 14:56:48 Sy				
3/7/2008 14:56:48 Sy 3/7/2008 14:58:06 Sy	stem DT3	02-1-BLK-1	TRANSDUCER_TYPE	Standard Pressure with calibra
3/7/2008 14:56:48 Sy 3/7/2008 14:58:06 Sy 3/7/2008 16:12:40 Sy	rstem DT3 rstem DT3	02-1-BLK-1 02-1-BLK-1	TRANSDUCER_TYPE CAL_POINT_LO	Standard Pressure with calibra 5

Figure 6.3. Configuration Changes Report

Device Data Report

This report shows the current status of the device in a specific period of time, listing the last values of all parameters at the selected date.

To generate this report, click the link **Device Data** in the **Audit Trail Reports** page and configure the filters to generate the report in the **pdf** or **xIs** file format.

Device Date Device Date Date / Time USER BLOCK TAG PARAMETER VALUE Protocol FIELDBUS Device Type 3051 - DFI 367 Fieldbus 11 3051 Calibration 1,25358 System 3051_TRD_1 CAL_VINT bar 1/7/2008 20:33:58 System 3051_TRD_1 CAL_VINT bar 0 1/7/2008 20:33:58 System 3051_TRD_1 CAL_VINT bar 1/7/2008 20:33:58 System 3051_TRD_1 CAL_VINT bar 1/7/2008 20:33:58 System 3051_TRD_1 CAL_VINT bar 1/7/2008 20:33:58 System 3051_TRD_1 PRIMARY_VALUE_DAMPING 0 1/7/2008 20:33:58 System 3051_TRD_1 SENSOR_CAL_METHOD factory trim standard 1/7/2008 20:33:58 System 3051_TRD_1 SENSOR_RANGE.EU_0 -2210.98 1/7/2008 20:33:58 System 3051_TRD_1 SENSOR_RANGE.EU_100 2210.98 1/7/2008 20:33:58 System 3051_	CIA				Device Dete				
DATE / TIME USER BLOCK TAG PARAMETER VALUE Protocol FIELDBUS Device Type 3051 - DFI 367 Fieldbus 11 3051 Calibration 1,25358 1,25358 17/7008 20:33:58 System 3051_TRD_1 CAL_MIN_SPAN 1,25358 17/7008 20:33:58 System 3051_TRD_1 CAL_POINT_HI 137,8939 17/7008 20:33:58 System 3051_TRD_1 CAL_UNIT bar 17/7008 20:33:58 System 3051_TRD_1 PRIMARY_VALUE_DAMPING 0 17/7008 20:33:58 System 3051_TRD_1 PRIMARY_VALUE_TYPE differential pressure 17/7008 20:33:58 System 3051_TRD_1 SENSOR_CAL_METHOD factory trim standard 17/7008 20:33:58 System 3051_TRD_1 SENSOR_RANGE.EU_0 -2219,98 17/7008 20:33:58 System 3051_TRD_1 SENSOR_RANGE.UNITS_INDEX psi 17/7008 20:33:58 System 3051_AL2 CHANNEL Pressure 17/7008 20:33:58 System 3051_AL2 IO_OPTS <none> 17/7008 20:33:58 System<th>21</th><th></th><th></th><th></th><th>Device Data</th></none>	21				Device Data				
Protocol FIELDBUS Device Type 3051 - DFI 387 Fieldbus 11 3051 Calibration 1/7/2008 203356 System 3051_TRD_1 CAL_MIN_SPAN 1,25358 1/7/2008 203356 System 3051_TRD_1 CAL_POINT_HI 137,8939 1/7/2008 203356 System 3051_TRD_1 CAL_UNIT bar 1/7/2008 203356 System 3051_TRD_1 PRIMARY_VALUE_DAMPING 0 1/7/2008 203356 System 3051_TRD_1 PRIMARY_VALUE_TYPE differential pressure 1/7/2008 203356 System 3051_TRD_1 SENSOR_RANGE.EU_0 -2210,08 1/7/2008 203356 System 3051_AI_2 CHANNEL Pressure 1/7/2008 203356 System 3051_AI_2 CHANNEL Terminal Temperature 1/7/2008 2	DATE / TIME	USER	BLOCK TAG	PARAMETER	VALUE				
Device Type 3051 - DFI 307 Fieldbus 11 3051 Calibration 17/2008 2033:58 System 3051_TRD_1 CAL_MIN_SPAN 1.25358 17/2008 2033:58 System 3051_TRD_1 CAL_POINT_HI 137,8939 17/2008 2033:58 System 3051_TRD_1 CAL_POINT_HI 137,8939 17/2008 2033:58 System 3051_TRD_1 PRIMARY_VALUE_DAMPING 0 17/2008 2033:58 System 3051_TRD_1 PRIMARY_VALUE_TYPE differential pressure 17/2008 2033:58 System 3051_TRD_1 PRIMARY_VALUE_TYPE diabration 17/2008 2033:58 System 3051_TRD_1 SENSOR_CAL_METHOD factory trim standard calibration 17/2008 2033:58 System 3051_TRD_1 SENSOR_RANGE.EU_0 -2219,98 17/2008 2033:58 System 3051_TRD_1 SENSOR_RANGE.EU_100 2219,98 17/2008 2033:58 System 3051_AL2 CHANNEL Pressure 17/2008 2033:58 System 3051_AL2 IO_OPTS <none> 17/2008 2033:58 System <</none>	Protocol FIELDB	Protocol FIELDBUS							
1/7/2008 20:33:58 System 3051_TRD_1 CAL_MIN_SPAN 1,25358 1/7/2008 20:33:58 System 3051_TRD_1 CAL_POINT_HI 137,8939 1/7/2008 20:33:58 System 3051_TRD_1 CAL_POINT_HI 137,8939 1/7/2008 20:33:58 System 3051_TRD_1 PRIMARY_VALUE_DAMPING 0 1/7/2008 20:33:58 System 3051_TRD_1 PRIMARY_VALUE_TYPE differential pressure 1/7/2008 20:33:58 System 3051_TRD_1 PRIMARY_VALUE_TYPE differential pressure 1/7/2008 20:33:58 System 3051_TRD_1 SENSOR_CAL_METHOD factory tim standard 1/7/2008 20:33:58 System 3051_TRD_1 SENSOR_RANGE.EU_0 -2210,98 1/7/2008 20:33:58 System 3051_TRD_1 SENSOR_RANGE.UNITS_INDEX psi 1/7/2008 20:33:58 System 3051_A1_2 CHANNEL Pressure 1/7/2008 20:33:58 System 3051_A1_2 IO_OPTS <none></none>	Device Ty Calibration	Device Type 3051 - DFI 367 Fieldbus 11 3051							
1/7/2008 20:33:58 System 3051_TRD_1 CAL_POINT_HI 137,8939 1/7/2008 20:33:58 System 3051_TRD_1 CAL_UNIT bar 1/7/2008 20:33:58 System 3051_TRD_1 PRIMARY_VALUE_DMPING 0 1/7/2008 20:33:58 System 3051_TRD_1 PRIMARY_VALUE_TYPE differential pressure 1/7/2008 20:33:58 System 3051_TRD_1 PRIMARY_VALUE_TYPE differential pressure 1/7/2008 20:33:58 System 3051_TRD_1 SENSOR_CAL_METHOD calibration 1/7/2008 20:33:58 System 3051_TRD_1 SENSOR_RANGE.EU_0 -2219.08 1/7/2008 20:33:58 System 3051_TRD_1 SENSOR_RANGE.LU_100 2219.08 1/7/2008 20:33:58 System 3051_AL2 CHANNEL Pressure 1/7/2008 20:33:58 System 3051_AL2 CHANNEL Terminal Temperature 1/7/2008 20:33:58 System 3051_AL2 IO_OPTS <none> 1/7/2008 20:33:58 System 3051_AL2 IO_OPTS <none> 1/7/2008 20:33:58 System</none></none>	1/7/2008 20:33:58	System	3051 TRD 1	CAL MIN SPAN	1.25358				
1/7/2008 20:33:56 System 3051_TRD_1 CAL_UNIT bar 1/7/2008 20:33:56 System 3051_TRD_1 PRIMARY_VALUE_DAMPING 0 1/7/2008 20:33:56 System 3051_TRD_1 PRIMARY_VALUE_DAMPING 0 1/7/2008 20:33:56 System 3051_TRD_1 PRIMARY_VALUE_TYPE differential pressure 1/7/2008 20:33:56 System 3051_TRD_1 SENSOR_CAL_METHOD calibration 1/7/2008 20:33:56 System 3051_TRD_1 SENSOR_RANGE.EU_0 -2:210.98 1/7/2008 20:33:56 System 3051_TRD_1 SENSOR_RANGE.UNITS_INDEX psi Configuration 1/7/2008 20:33:56 System 3051_AL2 CHANNEL Pressure 1/7/2008 20:33:56 System 3051_AL2 IO_OPTS . . 1/7/2008 20:33:56 System 3051_AL2 IO_OPTS . . 1/7/2008 20:33	1/7/2008 20:33:58	3 System	3051_TRD_1	CAL_POINT_HI	137,8939				
117/2008 20:33:58 System 3051_TRD_1 PRIMARY_VALUE_DAMPING 0 117/2008 20:33:58 System 3051_TRD_1 PRIMARY_VALUE_TYPE differential pressure 117/2008 20:33:58 System 3051_TRD_1 SENSOR_CAL_METHOD factory tim standard 117/2008 20:33:58 System 3051_TRD_1 SENSOR_CAL_METHOD calibration 117/2008 20:33:58 System 3051_TRD_1 SENSOR_RANGE.EU_0 -2210.88 117/2008 20:33:58 System 3051_TRD_1 SENSOR_RANGE.UI100 2219.98 117/2008 20:33:58 System 3051_TRD_1 SENSOR_RANGE.UI100 2219.98 117/2008 20:33:58 System 3051_TRD_1 SENSOR_RANGE.UI15_INDEX psi Configuration 1 1 Configuration 1 Terminal Temperature 117/2008 20:33:58 System 3051_AL_2 CHANNEL Pressure 117/2008 20:33:58 System 3051_AL_2 IO_OPTS <none> 117/2008 20:33:58 System 3051_AL_1 L_TYPE Indirect 117/2008 20:33:58<!--</td--><td>1/7/2008 20:33:58</td><td>3 System</td><td>3051_TRD_1</td><td>CAL_UNIT</td><td>bar</td></none>	1/7/2008 20:33:58	3 System	3051_TRD_1	CAL_UNIT	bar				
1/7/2008 20:33:58 System 3051_TRD_1 PRIMARY_VALUE_TYPE differential pressure 1/7/2008 20:33:58 System 3051_TRD_1 SENSOR_CAL_METHOD factory tim standard calibration 1/7/2008 20:33:58 System 3051_TRD_1 SENSOR_RANGE.EU_0 -2219.88 1/7/2008 20:33:58 System 3051_TRD_1 SENSOR_RANGE.EU_100 2219.88 1/7/2008 20:33:58 System 3051_TRD_1 SENSOR_RANGE.EU_100 2219.88 1/7/2008 20:33:58 System 3051_TRD_1 SENSOR_RANGE.UNITS_INDEX psi Configuration	1/7/2008 20:33:58	3 System	3051_TRD_1	PRIMARY_VALUE_DAMPING	0				
1/7/2008 20:33:58 System 3051_TRD_1 SENSOR_CAL_METHOD factory trim standard calibration 1/7/2008 20:33:58 System 3051_TRD_1 SENSOR_RANGE.EU_0 -2210.88 1/7/2008 20:33:58 System 3051_TRD_1 SENSOR_RANGE.EU_100 2210.98 1/7/2008 20:33:58 System 3051_TRD_1 SENSOR_RANGE.EU_100 2210.98 1/7/2008 20:33:58 System 3051_AL2 CHANNEL Pressure 1/7/2008 20:33:58 System 3051_AL2 CHANNEL Pressure 1/7/2008 20:33:58 System 3051_AL2 OLOPTS <none> 1/7/2008 20:33:58 System 3051_AL2 IO_OPTS <none> 1/7/2008 20:33:58 System 3051_AL2 IO_OPTS <none> 1/7/2008 20:33:58 System 3051_AL2 IO_OPTS <none> 1/7/2008 20:33:58 System 3051_AL2 LTYPE Indirect 1/7/2008 20:33:58 System 3051_AL2 LTYPE Indirect 1/7/2008 20:33:58 System 3051_AL2 LTYPE</none></none></none></none>	1/7/2008 20:33:58	8 System	3051_TRD_1	PRIMARY_VALUE_TYPE	differential pressure				
1/7/2008 20:33:58 System 3051_TRD_1 SENSOR_RANGE.EU_0 -2219.98 1/7/2008 20:33:58 System 3051_TRD_1 SENSOR_RANGE.EU_100 2219.98 1/7/2008 20:33:58 System 3051_TRD_1 SENSOR_RANGE.EU_100 2219.98 1/7/2008 20:33:58 System 3051_TRD_1 SENSOR_RANGE.UNITS_INDEX psi 1/7/2008 20:33:58 System 3051_AL_2 CHANNEL Pressure 1/7/2008 20:33:58 System 3051_AL_1 IO_OPTS <none> 1/7/2008 20:33:58 System 3051_AL_2 IO_OPTS <none> 1/7/2008 20:33:58 System 3051_AL_1 L_OPTS <none> 1/7/2008 20:33:58 System 3051_AL_1 L_TYPE Direct 1/7/2008 20:33:58 System 3051_AL_2 L_TYPE Indirect 1/7/2008 20:33:58 System 3051_AL3 L_TYPE Indirect 1/7/2008 20:33:58 System 3051_AL1 LOW_CUT 15 1/7/2008 20:33:58 System 3051_AL2 LOW_CUT 16 <</none></none></none>	1/7/2008 20:33:58	System	3051_TRD_1	SENSOR_CAL_METHOD	factory trim standard calibration				
1/7/2008 2033;58 System 3051_TRD_1 SENSOR_RANGE.EU_100 2219,98 Inf/2008 2033;58 System 3051_TRD_1 SENSOR_RANGE.UNITS_INDEX psi Configuration Inf/2008 2033;58 System 3051_AL_2 CHANNEL Pressure 1/7/2008 2033;58 System 3051_AL_2 CHANNEL Pressure 1/7/2008 2033;58 System 3051_AL_1 IO_OPTS <none> 1/7/2008 2033;58 System 3051_AL_2 IO_OPTS <none> 1/7/2008 2033;58 System 3051_AL_1 L_TYPE Indirect 1/7/2008 2033;58 System 3051_AL_2 L_TYPE Indirect 1/7/2008 2033;58 System 3051_AL_2 L_TYPE Indirect 1/7/2008 2033;58 System 3051_AL_2 L_TYPE Indirect 1/7/2008 2033;58 System 3051_AL_1 LOW_OUT 15 1/7/2008 2033;58<</none></none>	1/7/2008 20:33:58	8 System	3051_TRD_1	SENSOR_RANGE.EU_0	-2219,98				
1/7/2008 20:33:58 System 3051_TRD_1 SENSOR_RANGE_UNITS_INDEX psi Configuration 1/7/2008 20:33:58 System 3051_Al_2 CHANNEL Pressure 1/7/2008 20:33:58 System 3051_Al_3 CHANNEL Terminal Temperature 1/7/2008 20:33:58 System 3051_Al_1 IO_OPTS <none> 1/7/2008 20:33:58 System 3051_Al_2 IO_OPTS <none> 1/7/2008 20:33:58 System 3051_Al_1 LO_OPTS <none> 1/7/2008 20:33:58 System 3051_Al_2 IO_OPTS <none> 1/7/2008 20:33:58 System 3051_Al_1 L_TYPE Direct 1/7/2008 20:33:58 System 3051_Al_2 L_TYPE Uninitialized 1/7/2008 20:33:58 System 3051_Al_1 LOW_CUT 15 1/7/2008 20:33:58 System 3051_Al_2 LOW_CUT 10</none></none></none></none>	1/7/2008 20:33:58	8 System	3051_TRD_1	SENSOR_RANGE.EU_100	2219,98				
Configuration 1/7/2008 2033:58 System 3051_Al_2 CHANNEL Pressure 1/7/2008 2033:58 System 3051_Al_3 CHANNEL Terminal Temperature 1/7/2008 2033:58 System 3051_Al_1 IO_OPTS <none> 1/7/2008 2033:58 System 3051_Al_2 IO_OPTS <none> 1/7/2008 2033:58 System 3051_Al_1 L_OPTS <none> 1/7/2008 2033:58 System 3051_Al_1 L_OPTS <none> 1/7/2008 2033:58 System 3051_Al_2 L_TYPE Direct 1/7/2008 2033:58 System 3051_Al_2 L_TYPE Uninitialized 1/7/2008 2033:58 System 3051_Al_1 LOW_CUT 15 1/7/2008 2033:58 System 3051_Al_2 LOW_CUT 10</none></none></none></none>	1/7/2008 20:33:58	8 System	3051_TRD_1	SENSOR_RANGE.UNITS_INDEX	psi				
1/7/2008 2033:58 System 2051_A1_2 CHANNEL Pressure 1/7/2008 20.33:58 System 3051_A1_3 CHANNEL Terminal Temperature 1/7/2008 20.33:58 System 3051_A1_1 Io_OPTS <none> 1/7/2008 20.33:58 System 3051_A1_2 Io_OPTS <none> 1/7/2008 20.33:58 System 3051_A1_3 Io_OPTS <none> 1/7/2008 20.33:58 System 3051_A1_2 Io_OPTS <none> 1/7/2008 20.33:58 System 3051_A1_2 LTYPE Direct 1/7/2008 20.33:58 System 3051_A1_2 LTYPE Indirect 1/7/2008 20.33:58 System 3051_A1_2 LTYPE Uninitialized 1/7/2008 20.33:58 System 3051_A1_2 LOW_CUT 15 1/7/2008 20.33:58 System 3051_A1_2 LOW_CUT 10</none></none></none></none>	Configuratio	n							
1/7/2008 2035.85 System 3051_Al_1 IO_OPTS <none> 1/7/2008 20.33.58 System 3051_Al_2 IO_OPTS <none> 1/7/2008 20.33.58 System 3051_Al_2 IO_OPTS <none> 1/7/2008 20.33.58 System 3051_Al_2 IO_OPTS <none> 1/7/2008 20.33.58 System 3051_Al_1 L_TYPE Direct 1/7/2008 20.33.58 System 3051_Al_2 L_TYPE Indirect 1/7/2008 20.33.58 System 3051_Al_3 L_TYPE Uninitialized 1/7/2008 20.33.58 System 3051_Al_1 LOW_OUT 15 1/7/2008 20.33.58 System 3051_Al_2 LOW_OUT 10</none></none></none></none>	1/7/2008 20:33:58	8 System	3051_AI_2	CHANNEL	Pressure				
1/7/2008 20:33:58 System 3051_Al_1 IO_OPTS <none> 1/7/2008 20:33:58 System 3051_Al_2 IO_OPTS <none> 1/7/2008 20:33:58 System 3051_Al_3 IO_OPTS <none> 1/7/2008 20:33:58 System 3051_Al_1 L_TYPE Direct 1/7/2008 20:33:58 System 3051_Al_2 L_TYPE Indirect 1/7/2008 20:33:58 System 3051_Al_3 L_TYPE Indirect 1/7/2008 20:33:58 System 3051_Al_1 L_WCPUT 15 1/7/2008 20:33:58 System 3051_Al_2 LOW_CUT 10</none></none></none>	1/7/2008 20:33:58	8 System	3051_AI3	CHANNEL	Terminal Temperature				
1/7/2008 20:33:58 System 3051_A1_2 IO_OPTS <none> 1/7/2008 20:33:58 System 3051_A1_3 IO_OPTS <none> 1/7/2008 20:33:58 System 3051_A1_1 L_TYPE Direct 1/7/2008 20:33:58 System 3051_A1_2 L_TYPE Indirect 1/7/2008 20:33:58 System 3051_A1_3 L_TYPE Uninitialized 1/7/2008 20:33:58 System 3051_A1_1 LOW_CUT 15 1/7/2008 20:33:58 System 3051_A1_2 LOW_CUT 10</none></none>	1/7/2008 20:33:58	8 System	3051_AI_1	IO_OPTS	<none></none>				
1/7/2008 20:33:58 System 3051_A13 IO_OPTS	1/7/2008 20:33:58	8 System	3051_AI_2	IO_OPTS	<none></none>				
1/7/2008 20:33:58 System 3051_Al_1 L_TYPE Direct 1/7/2008 20:33:58 System 3051_Al_2 L_TYPE Indirect 1/7/2008 20:33:58 System 3051_Al_3 L_TYPE Uninitialized 1/7/2008 20:33:58 System 3051_Al_1 LOW_CUT 15 1/7/2008 20:33:58 System 3051_Al_2 LOW_CUT 10	1/7/2008 20:33:58	8 System	3051_AI3	IO_OPTS	<none></none>				
1/7/2008 20:33:58 System 3051_A1_2 L_TYPE Indirect 1/7/2008 20:33:58 System 3051_A13 L_TYPE Uninitialized 1/7/2008 20:33:58 System 3051_A1_1 LOW_CUT 15 1/7/2008 20:33:58 System 3051_A1_2 LOW_CUT 10	1/7/2008 20:33:58	8 System	3051_AI_1	L_TYPE	Direct				
1/7/2008 20:33:58 System 3051_A13 L_TYPE Uninitialized 1/7/2008 20:33:58 System 3051_A1_1 LOW_CUT 15 1/7/2008 20:33:58 System 3051_A1_2 LOW_CUT 10	1/7/2008 20:33:58	8 System	3051_AI_2	L_TYPE	Indirect				
1/7/2008 20:33:58 System 3051_AL_1 LOW_CUT 15 1/7/2008 20:33:58 System 3051_AL_2 LOW_CUT 10	1/7/2008 20:33:58	8 System	3051_AI3	L_TYPE	Uninitialized				
1/7/2008 20:33:58 System 3051_AL_2 LOW_CUT 10	1/7/2008 20:33:58	8 System	3051_AI_1	LOW_CUT	15				
	1/7/2008 20:33:58	8 System	3051_AI_2	LOW_CUT	10				

Figure 6.4. Device Data Report

Application Log Report

AssetView stores the tags of the devices in the database. This report shows all devices to which a specific tag has been assigned.

To generate this report, click the link **Application Log** in the **Audit Trail Reports** page and configure the filters to generate the report, in **pdf** or **xIs** format.

sn	nar		Application Log
DATE / TIME	USER	DEVICE TYPE	DEVICE ID
Protocol FIELDB	us		
Device DFI 367	FIELDBUS 10 WESTLOC	KDISCRETE	
14/7/2008 17:59:	16 System	FPAC VALVE CONTROLLER EL4010	5743430001Westlock A00001411
Device DFI 367	FIELDBUS 11 3051		
14/7/2008 17:59:	26 System	3051	0011513051092601082020-070000150
Device DFI 367	FIELDBUS 11 FY-302		
14/7/2008 17:59:4	43 System	FY302	0003020006:SMAR-FY302:006800709
Device DFI 367	FIELDBUS 12 DT-302		
14/7/2008 18:04:	24 System	DT302	000302000e:SMAR-DT302:000804483
Device DFI 367	FIELDBUS 12 DT302-1	D.T.O.O.	
14///2008 18:06:	22 System	D1302	000302000e:SMAR-D1302:000812339
Device DFI 367	FIELDBUS 12 FP302-1	50000	
Device DEL 202	FUE DDUC 42 LED 202	FF302	0003020004.3MAR-FF302.007801085
14/7/2008 18:05:	FIELDBUS 12 FK-302	EB302	0003020020-SMAR-ER302-240800012
Device DEI 367	EIEL DRUS 42 LIE 202	11002	00002022020.0mP(K) 1002.278000012
14/7/2008 18:04:4	47 System	IE302	0003020003:SMAR-IF302-004804495
Device DEL 367	FIELDBUS 12 D-302-AV		
14/7/2008 18:03:0	D9 System	LD302	0003020001:SMAR-LD302:000804818
Device DFI 367	FIELDBUS 12 TP-302-1		
14/7/2008 18:06:	38 System	TP302	000302000b:SMAR-TP302:000809792

Figure 6.5. Application Log Report

Device ID Log Report

This report shows all tags that have been assigned to a specific device ID.

To generate the report, click the link **Device ID Log** in the **Audit Trail Reports** page and configure the filters to generate the report, in **pdf** or **xIs** format.

sn	Smar Protocol: FieldBus DeviceID										
DATE / TIME	USER	DEVICE TYPE	DEVICE TAG								
Protocol FIELDB	US										
Device ID 00030	020001:SMAR-LD302:0008	04818									
14/7/2008 18:03:0	09 System	LD302	DFI 367 Fieldbus 12 LD-302-AV								
Device ID 00030	020002:SMAR-TT302:0048	03166									
14/7/2008 18:04:0	09 System	TT302	DFI 367 Fieldbus 12 TT-92031								
Device ID 00030	020002:SMAR-TT302:0048	05865									
14/7/2008 18:05:4	41 System	TT302	DFI 367 Fieldbus 12 TT302								
Device ID 00030	020003:SMAR-IF302-00480	04495									
14/7/2008 18:04:4	4/ System	IF302	DFI 367 Fieldbus 12 IF-302								
Device ID 00030	020004:SMAR-FP302:0078	01685									
14///2008 18:03:4	40 System	FP302	DFI 307 Fieldbus 12 FP302-1								
Device ID 00030	020006:SMAR-FY302:0068	500709 EV202	DEI 2871 Einleihun 11 LEV 202								
Device ID 00020		F1302	DELOUY FREUDUS 11 FT-302								
14/7/2008 17:58:	40 System	DE51	Fieldhus Networks I DEL307								
Device ID 00030	20008-SMAD DE51-367										
14/7/2008 17:59:0	00 System	DE51	Fieldbus Networks DEI 367								
Device ID 00030	2000b-SMAR.TP302-0008	09712									
14/7/2008 18:05:0	06 System	TP302	DFI 367 Fieldbus 12 TP-302-AV								
Device ID 00030	2000b-SMAR-TP302-0008	09792									
14/7/2008 18:06:	38 System	TP302	DFI 367 Fieldbus 12 TP-302-1								

Figure 6.6. Device ID Log Report

Tracking History Report

This report shows the occurrences of communication failures.

To generate this report, click the link **Tracking** in the **Audit Trail Reports** page and configure the filters to generate the report, in **pdf** or **xIs** format.



sn	าลเ	٢		Tracking History
DATE / TIME	USER	STATUS	DEVICE TAG	ACK
Protocol FIELDBL	JS			
Device Type 305	51			
15/7/2008 02:29:4	5 System	Communication failed	DFI 367 Fieldbus 11 3051	none
15/7/2008 02:41:5	7 System	Communication restored	DFI 367 Fieldbus 11 3051	none
17/7/2008 03:51:0	8 System	Communication failed	DFI 367 Fieldbus 11 3051	none
17/7/2008 03:52:3	2 System	Communication restored	DFI 367 Fieldbus 11 3051	none
18/7/2008 10:44:2	5 System	Communication failed	DFI 367 Fieldbus 11 3051	none
18/7/2008 10:45:2	0 System	Communication restored	DFI 367 Fieldbus 11 3051	none
19/7/2008 11:24:2	1 System	Communication failed	DFI 367 Fieldbus 11 3051	none
19/7/2008 11:25:1	1 System	Communication restored	DFI 367 Fieldbus 11 3051	none
22/7/2008 02:57:4	3 System	Communication failed	DFI 367 Fieldbus 11 3051	none
22/7/2008 02:58:4	8 System	Communication restored	DFI 367 Fieldbus 11 3051	none
25/7/2008 06:45:4	0 System	Communication failed	DFI 367 Fieldbus 11 3051	none
25/7/2008 06:46:3	4 System	Communication restored	DFI 367 Fieldbus 11 3051	none
Device Type DC	302			
15/7/2008 02:29:4	5 System	Communication failed	DFI 367 Fieldbus 9 DC302_0_1	none
15/7/2008 02:41:5	3 System	Communication restored	DFI 367 Fieldbus 9 DC302_0_1	none
17/7/2008 03:51:0	8 System	Communication failed	DFI 367 Fieldbus 9 DC302_0_1	none
17/7/2008 03:52:5	3 System	Communication restored	DFI 367 Fieldbus 9 DC302_0_1	none
18/7/2008 10:44:2	5 System	Communication failed	DFI 367 Fieldbus 9 DC302_0_1	none
18/7/2008 10:45:4	2 System	Communication restored	DFI 367 Fieldbus 9 DC302_0_1	none
19/7/2008 11:24:2	0 System	Communication failed	DEL387 LEieldbus 9 LDC302_0_1	none

Figure 6.7. Tracking History Report

Diagnostic History Report

The diagnostic events indicate failures or operational conditions of the devices, and they are stored in the *AssetView* database.

To generate this report, click the link **Diagnostic History** in the **Audit Trail Reports** page and configure the filters for the report. Click the icon corresponding to the desired file format: **pdf** or **xls**.

sn	1ai	ſ		Diagnost	ic History
DATE / TIME	USER	STATUS	DEVICE ID	BLOCK TAG	ACK
rotocol FIELDBU	JS				
Device Type 308	51				
DFI 367 Fieldb	us 11 3051				
14/7/2008 18:35:4	9 System	[IN] OutOfService	0011513051092601082020-070000150	3051_TRD_1	none
14/7/2008 18:35:4	9 System	[IN] No error		3051_TRD_1	none
14/7/2008 18:35:5	0 System	[IN] OutOfService		3051_AI3	none
14/7/2008 18:35:5	0 System	[IN] InputFailure		3051_AI3	none
14/7/2008 18:35:5	0 System	[IN] BlockConfiguration		3051_AI3	none
14/7/2008 18:35:5	0 System	[IN] OutOfService		3051_AI_1	none
14/7/2008 18:35:5	0 System	[IN] InputFailure		3051_AI_1	none
14/7/2008 18:35:5	0 System	[IN] BlockConfiguration		3051_AI_1	none
14/7/2008 18:35:5	0 System	[IN] OutOfService		3051_AI_2	none
14/7/2008 18:35:5	0 System	[IN] InputFailure		3051_AI_2	none
14/7/2008 18:35:5	0 System	[IN] BlockConfiguration		3051_AI_2	none
14/7/2008 18:35:5	0 System	[IN] OutOfService		3051_RES	none
14/7/2008 18:35:5	0 System	[IN] No repair needed		3051_RES	none
14/7/2008 18:35:5	0 System	[IN] Jumper/Switch on		3051_RES	none
14/7/2008 18:35:5	0 System	[IN] Jumper/Switch off		3051_RES	none
14/7/2008 18:35:5	0 System	[IN] Jumper/Switch on, no simulation		3051_RES	none
14/7/2008 18:35:5	0 System	[IN] Run Mode		3051_RES	none

Figure 6.8. Diagnostic History Report

Method History Report

Methods are calibration procedures composed by a sequence of reading and writing in the device. The parameter values before writing and the values that were written in the parameters, static or dynamic, are stored in the database.

This report shows all methods performed and the parameters that have been changed.

To generate this report, click the link **Method History** in the **Audit Trail Reports** page. Configure the filters and click the icon corresponding to the desired file format: **pdf** or **xls**.

211	GIL			Method	History
DATE / TIME	USER	DEVICE TAG	DEVICE ID	METHOD NAME	STATUS
rotocol FIELDBUS					
Device Type 3051					
21/7/2008 19:13:38	bob_engineer	DFI 367 Fieldbus 11 3051	0011513051092601082020-07000015 0	Engineering Variable	Success
21/7/2008 19:27:38	bob_engineer	DFI 367 Fieldbus 11 3051	0011513051092601082020-07000015 0	Engineering Variable	Failed
21/7/2008 19:32:43	bob_engineer	DFI 367 Fieldbus 11 3051	0011513051092601082020-07000015	Engineering Variable	Success
21/7/2008 19:34:08	bob_engineer	DFI 367 Fieldbus 11 3051	0011513051092601082020-07000015	Engineering Variable	Failed
21/7/2008 19:34:57	bob_engineer	DFI 367 Fieldbus 11 3051	0011513051092601082020-07000015	Engineering Variable	Success
21/7/2008 19:37:44	bob_engineer	DFI 367 Fieldbus 11 3051	0011513051092601082020-07000015	Lower Pressure Calibration	Success
21/7/2008 19:38:19	bob_engineer	DFI 367 Fieldbus 11 3051	0011513051092801082020-07000015	Lower Pressure Calibration	Failed
21/7/2008 19:39:45	bob_engineer	DFI 367 Fieldbus 11 3051	0 0011513051092801082020-07000015	Upper Pressure Calibration	Failed
21/7/2008 19:41:20	bob_engineer	DFI 367 Fieldbus 11 3051	0011513051092601082020-07000015	Engineering Variable	Success
21/7/2008 19:43:35	bob_engineer	DFI 367 Fieldbus 11 3051	0 0011513051092601082020-07000015	Engineering Variable	Success

Figure 6.9. Method History Report

Maintenance Report

This report shows all maintenances scheduled and performed for each device.

To generate this report, click the link **Maintenance History** in the **Audit Trail Reports** page and configure the filter options. Click the icon corresponding to the desired file format, **pdf** or **xls**, to generate the report.

si	na	ľ	Maintena	nce History		
DATE / TIME	USER	DEVICE TAG	TYPE	MAINTENANCE TITLE		STATUS
/10/2004 15:44		pic101	Preventive	LD302 Preventive Maintenance		Not Done

Figure 6.10. Maintenance Report

H1 Network Statistics Report

The report generates statistic charts for controllers, representing the values read from the H1 fieldbus channels configured in the plant topology, indicating the date the statistics were calculated and fails occurred in the controller. Using the charts, it is possible to predict potential communication fails between the controller and field devices, and avoid interruptions in the network communication and connected devices.

To generate this report, click the link **H1 Statistics** in the **Audit Trail Reports** page and configure the filter options. Click the icon corresponding to the desired file format, **pdf** or **xls**, to generate the report.



See the example below:

Figure 6.11. H1 Statistics Report

MONITORING DEVICE STATUS

The field devices notify the system when a communication failure or operational conditions occur.

To display the events reported to **AssetView**, click the link **Status** in the topology to expand the monitoring options.



Indicates normal condition, no communication problem occurred.

Status Indicates that a diagnostic event or communication problem has occurred.

Tracking

The Tracking View page shows the status of the devices and their location.



Indicates normal condition, no communication problem occurred.

Indicates that a communication problem has occurred.

When the device is disconnected from the plant or has communication problems, it appears in the tracking list. Click the link **Status > Tracking** in the topology to open the **Tracking List**:

	Status			Location
peration (73) Fai	I (-) Bad Commun	ication (-) Off-li	ne (-) On Site (70) Warehou	use (1) Maintenance Shop (1) Disposed (1)
Device	Bridge	Channel	Status	Location •
PY302 28	DF62_A7V	Fieldbus 1	Operation	On Site 💽 Submit
P <u>FY302_29</u>	DF62_A7V	Fieldbus 1	Operation	On Site 💽 Submit
Priso2 30	DF62_A7V	Fieldbus 1	Operation	On Site 💽 Submit
@ <u>1F302_11</u>	DF62_A7V	Fieldbus 1	Operation	On Site 💽 Submit
() <u>IF302_12</u>	DF62_A7V	Fieldbus 1	Operation	On Site 💽 Submit
() <u>IF302_13</u>	DF62_A7V	Fieldbus 1	Operation	On Site 💽 Submit
@ <u>1F302_14</u>	DF62_A7V	Fieldbus 1	Operation	On Site 💽 Submit
() <u>IF302_15</u>	DF62_A7V	Fieldbus 1	Operation	On Site 💽 Submit
D292 36	DF62_A7V	Fieldbus 1	Operation	On Site 💽 Submit
() 	DF62_A7V	Fieldbus 1	Operation	On Site Submit

Figure 7.1. Tracking List

The **Bridge** and **Channel** columns indicate, respectively, the tag of the controller and to which channel the device is connected.

Click the magnifying glass icon to open a new window that shows detailed information about the device:

Device	
OC 75 56]
TT301-4	
КТЕК	
HART	
Status	
Off-line	
Location	
On Site	
6/16/2004 8:08:26 PM	
	Device DC 75 56 TTT301-4 KTEK HART Status Off-line

Figure 7.2. Device details

Defining the device status

To define the device status in the tracking list, click the list box in the **Status** column related to the device:

	Status								
								Location	
n (-) Fail (1) E	ad Communica	ation (-)	Off-line	(-)	On Site (1)	Ware	house (-)	Maintenance Shop (-)	Disposed (-)
Device		Channe	nel Status		S		Locatio	n	ACK
LD-292-AV-02	DFI 367	Fieldbus 4		Off-lin Discon Off-line	e nection reason	• n:	On Site	submit	АСК
, ,	vice	vice Bridge LD-292-AV-02 DFI 367	vice Bridge Chann LD-292-AV-02 DFI 367 Fieldbu	vice Bridge Channel S LD-292-AV-02 DFI 367 Fieldbus 4	vice Bridge Channel Status	vice Bridge Channel Status LD-292-AV-02 DFI 367 Fieldbus 4 Off-line Bridge DFI 367 Fieldbus 4 Disconnection reason	vice Bridge Channel Status LD-292-AV-02 DFI 367 Fieldbus 4 Off-line Disconnection reason: Off-line Bad Communication	vice Bridge Channel Status Locatio	vice Bridge Channel Status Location LD-292-AV-02 DFI 367 Fieldbus 4 Off-line On Site Submit Bridge Disconnection reason: Off-line On Site Submit

Figure 7.3. Device status

Select the option:

- Off-line: the device is not communicating because it was removed from the plant.
- **Bad Communication**: the device is connected to the plant but has communication problems.

Click the button **Submit** to apply the alterations to the device. The tracking event will be automatically acknowledged. See the example below:

			S	tatus								Location	
Оре	eration (-)	Fail (-)	Bad	Communicat	tion (1)	Off-li	ne (-)		On Site (1)	Warehouse (-)		Maintenance Shop (-)	Disposed (-)
Device				Bridge	Channel		Status				ocatio	n	ACK
〕 ↓ 🖗 <u>LD-292-AV-02</u>				DFI 367	Fieldbi	us 4	Bad (Con	nmunication	0	On Site	▼ Submit] 🖌 АСК

Figure 7.4. Defining the Device status

Defining the device location

To define the device's location in the tracking list, click the list box in the **Location** column related to the device:

			Sta	atus								Location			
Ope	ration (-)	Fail (-)	Bad C	Communicat	tion (1)	Off-li	ne (-)		On Site (1)	Wareh	ouse (-)	Maintena	nce Shop (-)	Disp	osed (-)
Device			E	Bridge	Channel		Status				Locatio	n		A	ACK
LD-292-AV-02			02 [DFI 367	Fieldbus 4		Bad Communication				On Site	1	- Submit		🖌 АСК

Figure 7.5. Device Location

Select the option:

- **On Site**: the device is operating in the plant.
- Warehouse: the device is stored in the warehouse.
- Maintenance Shop: the device was removed from the plant for maintenance.
- **Disposed**: the device was removed from the plant and discarded.

Click the button Submit to apply the alterations to the devices.

Acknowledging the Tracking Event

Click the link ACK in the Tracking View page to acknowledge the event.



The Acknowledge Tracking window will open:

LD-292-AV-02 Select reason and press submit to Acknowledg Off-line Generate Maintenance Email Notification clebercf@smar.com.br Add Remove	Acknow	ledge Tracking
LD-292-AV-02 Select reason and press submit to Acknowledg Off-line Call Control Contro		
Select reason and press submit to Acknowledg	LD-29	02-AV-02
Off-line Generate Maintenance Email Notification Elebercf@smar.com.br Add Remove Elebercf@smar.com.br Add Remove Elebercf@smar.com.br Elebercf@smar.com.br	Select reason and pro	ess submit to Acknowled
Generate Maintenance Email Notification clebercf@smar.com.br Clebercf@smar.com.br	Off-line	
Email Notification	Generate Maintenance	
clebercf@smar.com.br 💽 Add Remove	Email Notification	
clebercf@smar.com.br 💽 Add Remove		
clebercf@smar.com.br	lebercf@smar.com.br	Add Remove
	abercf@smar.com.br	

Figure 7.6. Acknowledge Window

- Select the cause of the tracking event: **Off-line** if the device was removed from the plant or **Bad Communication** if the device has communication problems.
- Select the option **Generate Maintenance** to schedule maintenance for the device, corrective or proactive. See section **Scheduling Maintenances for an Event** for details.
- Select the option E-mail Notification to send e-mails to the plant administrator and technicians.

Click the button Submit to acknowledge the tracking event.

NOTE

When acknowledging a tracking event, you do not have to define maintenance for the device, or the e-mail address to be notified.

To create a maintenance related to an acknowledged event, or define an e-mail address, click the link **ACK** in the **Tracking View** page and the **Acknowledge** window will open.

The **Tracking View** page will be updated and a check mark will appear in the column **ACK** for the events that have been acknowledged. Observe the figure below:

							Track	kin	ng View				
				Status								Location	
Ope	Operation (-) Fail (-) Ba		Bac	d Communication (-)		Off-li	ne (1)		On Site (1)	Ware	house (-)	Maintenance Shop (-)	Disposed (-)
	Device		_	Bridge	Chan	nel	Statu	s			Locatio	n	ACK
2	UD-292-AV-02			DFI 367	Fieldb	Fieldbus 4 Off-line		e	On S		On Sit	e 🛛 🗸 Submit	

Figure 7.7. Event Acknowledged

Diagnostic

The **Diagnostic View** page shows the events caused by failure notifications or operational conditions programmed by the user to be monitored by the system.

🖗 _{Diagnostic}	Indicates normal condition, no communication problem occurred.
🗲 Diagnostic	Indicates that a diagnostic event has occurred.

When a diagnostic event occurs, it appears in the **Diagnostic View**. Click the link **Status > Diagnostic** in the topology tree to open the list of diagnostic events:

		Diag	gnostic View				
	Device	Block::Parameter	Description	Bridge	Channel		
0	+	LD-292-AV-02-RB-1 BLOCK_ERR	OutOfService	DFI 367	Fieldbus 4	ACK	Y
Q,	<u> </u>	LD-292-AV-02-BLK-1 BLOCK_ERR	OutOfService	DFI 367	Fieldbus 4	ACK	Y
0	<u> </u>	LD-292-AV-02-BLK-1 XD_ERROR	Default Value Set	DFI 367	Fieldbus 4	ACK	Y
Q	+ LD-292-AV-02	LD-292-AV-02-TRDDSP-1 BLOCK_ERR	OutOfService	DFI 367	Fieldbus 4	ACK	Y
Q	+ LD-292-AV-02	LD-292-AV-02-AI-1 BLOCK_ERR	OutOfService	DFI 367	Fieldbus 4	ACK	Y

Figure 7.8. Diagnostic View

Click the device icon in the **Device** column to open the corresponding home page.

The **Block** column indicates the tag of the block where the diagnostic event occurred. The **Bridge** and **Channel** columns indicate, respectively, the tag of the controller and to which channel the instrument is connected.

Click the magnifying glass icon to open a new window that shows detailed information about the diagnostic related to the block of the device:

Device DEVICE ID 0003020002;SMAR-TT302:004808288 DEVICE TAG TT302-1 BLOCK TAG TT302-1-trd2 MANUFACTURER SMAR PROTOCOL FIELDBUS Event ERROR DESCRIPTION Input Failure/process variable has BAD status		Diagnostic View - Details	
Device DEVICE ID 0003020002;SMAR-TT302:004808288 DEVICE TAG TT302-1 BLOCK TAG TT302-1-trd2 MANUFACTURER SMAR PROTOCOL FIELDBUS Exent ERROR DESCRIPTION Input Failure/process variable has BAD status		Singhostie tieth Sections	
Device DEVICE ID D003020002;SMAR-TT302:004808288 DEVICE TAG TT302-1 BLOCK TAG TT302-1-trd2 MANUFACTURER SMAR PROTOCOL FIELDBUS Event ERROR DESCRIPTION Input Failure/process variable has BAD status			
DEVICE ID 0003020002:SMAR-TT302:004808288 DEVICE TAG TT302-1 BLOCK TAG TT302-1-trd2 MANUFACTURER SMAR PROTOCOL FIELDBUS Event ERROR DESCRIPTION Input Failure/process variable has BAD status		Device	
DEVICE ID 0003020002:SMAR-TT302:004808288 DEVICE TAG TT302-1 BLOCK TAG TT302-1-trd2 MANUFACTURER SMAR PROTOCOL FIELDBUS EVent ERROR DESCRIPTION Input Failure/process variable has BAD status			
DEVICE TAG TT302-1 BLOCK TAG TT302-1-trd2 MANUFACTURER SMAR PROTOCOL FIELDBUS Event ERROR DESCRIPTION Input Failure/process variable has BAD status	DEVICE ID	0003020002:SMAR-TT302:004808288	
BLOCK TAG TT302-1-trd2 MANUFACTURER SMAR PROTOCOL FIELDBUS Event ERROR DESCRIPTION Input Failure/process variable has BAD status	DEVICE TAG	TT302-1	
MANUFACTURER SMAR	BLOCK TAG	TT302-1-trd2	
PROTOCOL FIELDBUS Event ERROR DESCRIPTION Input Failure/process variable has BAD status	MANUFACTURER	SMAR	
Event ERROR DESCRIPTION Input Failure/process variable has BAD status	PROTOCOL	FIELDBUS	
ERROR DESCRIPTION Input Failure/process variable has BAD status		Event	
ERROR DESCRIPTION Input Failure/process variable has BAD status			
	ERROR DESCRIPTION	Input Failure/process variable has BAD status	
TIME STAMP 6/17/2004 10:32:02 AM	TIME STAMP	6/17/2004 10:32:02 AM	

Figure 7.9. Device Details

Acknowledging the Diagnostic Event

Click the link ACK in the Diagnostic View page to acknowledge the event.

The Acknowledge Diagnostic window will open:

- Select the option **Generate Maintenance** to schedule maintenance for the device, corrective or proactive. See section **Scheduling Maintenances for an Event** for details.
- Select the option **E-mail Notification** to send e-mails to the plant administrator and technicians.

Smar Asse	et¥iew - Microsoft Internet Explorer	_ 🗆 🗙
	Acknowledge Diagnostic	
	TT202-1	
	Press submit to Acknowledge the Diagnostic	
	Generate Maintenance	
	Email Notification	
	testsupport@smar.com.br 💌 Add Remove	
	testsupport@smar.com.br	
	'	
	Submit Cancel	

Figure 7.10. Acknowledging the Event

Click the button **Submit** to acknowledge the diagnostic event.

NOTE

When acknowledging a diagnostic event, you do not have to define maintenance for the device, or the e-mail address to be notified.

To create maintenance for an acknowledged event, or define an e-mail address, click the link **ACK** in the **Diagnostic View** page and the **Acknowledge** window will open.

The **Diagnostic View** will be updated and a check mark will appear in the column **ACK** for the events that have been acknowledged. Observe the figure below:

		Dia	gnostic View				
	Device	Block::Parameter	Description	Bridge	Channel		
0	<u> </u>	LD-292-AV-02-BLK-1 BLOCK_ERR	OutOfService	DFI 367	Fieldbus 4	ACK	Y
Q		LD-292-AV-02-BLK-1 XD_ERROR	Default Value Set	DFI 367	Fieldbus 4	ACK	Y
Q	<u> </u>	LD-292-AV-02-TRDDSP-1 BLOCK_ERR	OutOfService	DFI 367	Fieldbus 4	ACK	Y
Q		LD-292-AV-02-RB-1 BLOCK_ERR	OutOfService	DFI 367	Fieldbus 4	🖌 АСК	7
Q	+ LD-292-AV-02	LD-292-AV-02-AI-1 BLOCK_ERR	OutOfService	DFI 367	Fieldbus 4	🖌 АСК	Y

Figure 7.11. Event Acknowledged

Configuring Diagnostic Events

Click the link **Diagnostic > Configuration** on the topology tree, as indicated in the figure below, to open the monitored instruments and instruments with diagnostic events.



Figure 7.12. Configuring Diagnostic Events

Click the instruments to view the events.

Manufacturer	Device Type	
SMAR	FY302(04 02)	
SMAR	IF302(04 02)	
SMAR	LD292(04 02)	
SMAR	LD302(04 02)	
SMAR	<u>TP302(04 02)</u>	
SMAR	TT302(04 02)	
WESTLOCK	FPAC VALVE CONTROLLER EL40106	
Yokogawa Electric	EJA	
Yokogawa Electric	<u>YTA320</u>	

Figure 7.13. Selecting the instrument

The list shows all diagnostic events of the instrument.

To activate a diagnostic event, mark the option in the corresponding column:

- Show: shows an event on the Diagnostic View page.
- Show Report: the selected diagnostic will be listed on the report.
- Send E-mail: sends an e-mail to the user, describing the diagnostic. Click the link Configure referring to a diagnostic to select the instruments from which the diagnostics will be send by email when the respective events occur.

Diagnostic	Source	Show	Show Report	Send Email
Default Value Set	XD_ERROR	V	V	<u>Configure</u>
General Error	XD_ERROR		V	Configure
Calibration Error	XD_ERROR		V	Configure
Configuration Error	XD_ERROR	•	V	Configure
Electronics Failure	XD_ERROR	•	V	Configure
Mechanical Failure	XD_ERROR		V	Configure
I/O Failure	XD_ERROR		$\overline{\mathbf{v}}$	Configure
Data Integrity Error	XD_ERROR	•	V	Configure
Software Error	XD_ERROR	•	$\overline{\mathbf{v}}$	Configure
Algorithm Error	XD_ERROR	▼	$\overline{\mathbf{v}}$	Configure
Ima not Centralized ou not Detected	DIAGNOSES_STATUS	▼	$\overline{\mathbf{v}}$	Configure
Slow Valve Movement or Low Air Supply	DIAGNOSES_STATUS		$\overline{\mathbf{v}}$	<u>Configure</u>
Temperature Out of Range	DIAGNOSES_STATUS		$\overline{\mathbf{v}}$	Configure
Base not Trimmed	DIAGNOSES_STATUS	V	$\overline{\mathbf{v}}$	Configure
Output Module not Initialized or not Connected	DIAGNOSES_STATUS	V	$\overline{\mathbf{v}}$	Configure
Deviation Limit Excedeed	DIAGNOSES_STATUS			Configure

Figure 7.14. List of Diagnostic Events

The example from the following figure shows the diagnostic **DEVIATION LIMIT EXCEEDED** for a **FY302** device:

atch setting(s)	[Deviation Limit Excedeed] Email settings	Ba
Device Tag	Device ID	Send
FY302_29	0003020006:SMAR-FY302:000000029	
FV302_27	0003020006:SMAR-FY302:000000027	
FV302_28	0003020006:SMAR-FY302:00000028	
FV302_26	0003020006:SMAR-FY302:000000026	
FV302_30	0003020006:5MAR-FY302:00000030	

Figure 7.15. Configuring sending e-mail of Diagnostic Event

Select the devices, through their tags, on which the user wants to receive notification e-mails.

The figure below shows an example of a notification e-mail related to a diagnostic.

De: Env Par Ass	De: eduardocorrea@smar.com.br [mailto:eduardocorrea@smar.com.br] Enviada em: quarta-feira, 16 de maio de 2007 08:55 Para: eduardocorrea@smar.com.br Assunto: Notification - Diagnostic - by AssetView Service Messenger							
	Smar AssetView Service Messenger							
		Notification from Smar AssetView						
		DIAGNOSTIC NOTIFICATION						
	Device:	FY-302-AV01						
	Block: FY-302-AV01-TRD							
	Diagnostic:	Out-of-Service						

Figure 7.16. Notification of a Diagnostic Event

Through the Batch settings option the user can select some diagnostic events simultaneously.

tch setting(s)	[Deviation Limit Excedeed] Email settings	Back
Device Tag	Device ID	Send
D/202.20	00030300000 EMAR EX203-000000000	

Figure 7.17. Batch Settings option

Click **Batch settings** in the **DEVIATION LIMIT EXCEEDED** diagnostic window, shown above, and the following window will open.

	har a state of the	
Diagnostic	Source	
Other	BLOCK_ERR	
BlockConfiguration	BLOCK_ERR	
LinkConfiguration	BLOCK_ERR	
SimulationActive	BLOCK_ERR	
LocalOverride	BLOCK_ERR	
DeviceFaultState	BLOCK_ERR	
DeviceMaintenance	BLOCK_ERR	
InputFailure	BLOCK_ERR	
OutputFailure	BLOCK_ERR	
MemoryFailure	BLOCK_ERR	
LostStaticData	BLOCK_ERR	
LostNVData	BLOCK_ERR	
ReadbackCheck	BLOCK_ERR	
MaintenanceNeeded	BLOCK_ERR	
PowerUp	BLOCK_ERR	
	BLOCK ERR	

Figure 7.18. Selecting some diagnostic events for the notification e-mail

Select the necessary diagnostic events, and notification e-mails related to that list of selected devices will be sent.

Filtering diagnostics

Click the funnel icon to filter the diagnostic.

Diagnostic View							
	Device	Block::Parameter	Description	Bridge	Channel		
Q		FD_MIB_66_TRD XD_DIAGNOSTICS	No specific problem	DF62_A7V	Fieldbus 1	ACK	T
Q,		FD_MIB_66_RES ERROR_DETAIL[1]	No Error	DF62_A7V	Fieldbus 1	ACK	7
Q	/ 3051_58	3051_58_RES SUMMARY_STATUS	Uninitialized	DF62_A7V	Fieldbus 1	🖌 АСК	Y
Q	/ <u>3051 58</u>	3051_58_RES DOWNLOAD_MODE	Uninitialized	DF62_A7V	Fieldbus 1	🖌 АСК	7
0	/ 3051 58	3051_58_RES RECOMMENDED_ACTION	Uninitialized	DF62_A7V	Fieldbus 1	🖌 АСК	7

Figure 7.19. Filtering a Diagnostic

Scheduling Maintenances for an Event

At the **Acknowledge** window, for tracking and diagnostic events, select the option **Generate Maintenance** to schedule maintenance for the device. Click **Submit** to open the window as shown in the example below:

	Generate Maintenance
	TAG DEFAULT 253
Maintenance from Diagnostic	- TAG DEFAULT 253 - pic-219-trd - Out-of-Service
MaintenanceType	Proactive
OperatorEmailAddress	Proactive
	Description

Figure 7.20. Generating Maintenance

Select the type for the maintenance: proactive or corrective. In the field **Description**, describe the procedure for executing the maintenance. Click the button **Submit** to conclude. The window below should appear confirming the maintenance was created:



Figure 7.21. Confirming Maintenance

MANAGING DEVICE MAINTENANCES

Procedures for managing maintenances are available from the **Maintenances** menu in the topology tree, as indicated in the figure below:



Figure 8.1. Maintenances Menu

Click the link Maintenances > List in the topology tree to open the list of scheduled maintenances:

		Maintenances List	
Туре	DeviceTag	Description	Actions
* 😲 Predictive	🕑 <u>FY-302-A</u>	Calibration	🛃 🔀 🖓
🌣 🤲 Preventive	PIC-0002	LD302	🛃 😒 🥄



The **Type** column indicates the type of the maintenance. The icon indicates that the maintenance is recurrent, while the icon indicates the maintenance should be executed only once.

Click the device icon in the Device Tag column to open the home page of the device.

Editing Equipment Information

Click the link **Maintenances > Equipment** in the topology tree to display the list of equipment registered in AssetView and other equipment registered to represent plant control assets.

For example, add a motor as an equipment and generate maintenances for this equipment, as described in subsection Adding Preventive and Predictive Maintenances.

		Equi	ipment			
ID						
*Description						
Model			Туре			
Location						
Tag			Message			
Capacity			Rating			
Serial Nro			Date			
Manufacturer						
Commentary 1						
Commencary 2		0				
		2	ubmit			
		Equip	nent List			
Descri	ption	Tag		Location	Edit	Delete
		DC302_0_1			₿÷	3
		WESTLOCKDISCRETE			B	3
		3051			₿•	3
		FY-302			₿•	3
		LD-302-AV			0-	3
		DC302_0_1 WESTLOCKDISCRETE 3051 FY-302 LD-302-AV				

Figure 8.3. Equipment List

Use the navigation buttons at the bottom of the page to browse the list of equipment, as indicated in the figure below:

	Equipment L	ist		
Description	Tag	Location	Edit	Delete
	DFI-307		₽	3
	DC302_0_1		B	3
	3051		B	Ť
	FY-302		B	3
	HI3020		B	
(Page: 1	of: 4) Page: 1			

Figure 8.4. Navigation Bar

Adding Equipment

Fill the form typing the information related to the equipment and click the button Submit to add the equipment to the **Equipment** list.

		Equipment		
ID	4	_		
*Description	Fieldbus Valve Position			
Model	Actuator	Туре		
Location	Plant01			
Tag	FY-302	Message		
Capacity		Rating		
Serial Nro	22053	Date	12/08/2008	
Manufacturer	Smar			
Commentary 1				
Commentary 2				
		Submit		

Figure 8.5. Adding Equipment

A message box informs the equipment was created. Click Ok to conclude and the new equipment is register as a plant asset.

Editing the information

To change the information related to the equipment, click the icon \square in column **Edit** corresponding to the equipment and the form in the upper part of the page displays the data. See the example below:

		Equi	pment				
íD	4	_					
*Description	Fieldbus Valve Position						
1odel	Actuator		Туре				
ocation	Plant01						
rag	FY-302		Message				
Capacity			Rating				
Serial Nro	22053		Date		12/08/2008	:	
Manufacturer	Smar						
Commentary 1							
Commentary 2							
		Su	bmit				
		Equipm	ient List				
	Description	Τā	ig	Lo	cation	Edit	Delete
	Description	DFI-307	ig	Lo	cation	Edit Ø	Delete 👻
	Description	Tc DFI-307 DC302_0_	1g 1	Lo	cation	Edit D ^a	Delete
	Description	Ta DFI-307 DC302_0_ 3051	1g 1	Lo	cation	Edit D D D	Delete
Fieldbus V.	Description	Tá DFI-307 DC302_0_ 3051 FV-302	1 1	PlantO	cation	Edit	Delete G G G G G G

Figure 8.6. Editing Data

Type the desired information and click **Submit**. A message box indicates the information was updated with success. Click **Ok** to conclude.

Deleting Equipment

To delete the equipment from the list of plant assets, click the icon $\widehat{}$ in column **Delete** corresponding to the equipment.

	Equipment List			
Description	Tag	Location	Edit	Delete
	DFI-307		₽	3
	DC302_0_1		B	8
	3051		₽.	3
Fieldbus Valve Position	FY-302	Plant01	₽	3
	HI3020		R.	2
(Page: 1 of: 5) Page: 1			

Figure 8.7. Deleting Equipment

The page loads the information related to the selected equipment. Click **Delete** to confirm the operation and remove the equipment from the list, or click **Cancel** to abort the operation. See the example:

		Delete Dev	ice	
ID	4			
Description	Fieldbus ¥alve Posi	ition		
Model	Actuator	Тур	1	
Location	Plant01			
Tag	FY-302	Mes	sage	
Capacity		Rati	ng	
Serial Nro	22053	Date	12/08/20	D18
Manufacturer				
Commentary 1				
Commentary 2				
	Are you su	re you want to	delete this de	vice?
		Delete C	Cancel	

Figure 8.8. Confirming the Operation

Adding Preventive and Predictive Maintenances

To schedule maintenance for a specific device, click the link **Maintenances > New** in the topology tree. The **Maintenance Scheduling** page will be loaded:

Occurs	Month	Starting at
Custom		C Now
O Day		Custom
) Week	Every day(s).	
Month		August • 5 • 2008 •
O Year	Recurrent	19 - h 00 - m
	Scheduling Alert	
Safety Period: 🚺 💌 day(s).		
lotify user by email?(Alarm): No	•	
Operator email address:		Add Remove

Figure 8.9. Adding Device Maintenances

- 1. In the field **Occurs**, select the maintenance occurrence: customized, daily, weekly, monthly or annual.
- 2. Select the option Recurrent in case the maintenance should occurs repeatedly.
- 3. In the field **Starting at**, select the date and the time that the maintenance should start. To customize the maintenance starting date, click the option **Custom**, select the maintenance date and the time.
- 4. Configure the maintenance alert in the field **Safety Period**, selecting the number of days that the user should be notified in advance.
- 5. In the field **Notify user by e-mail**, select **Yes** in the options list to send e-mails to the users, and add the e-mail address of the user that will be notified about the maintenance.
- 6. Click the button Next to proceed describing the maintenance details:

	New Maint	enance Scheduling - Step 2	2
Title			
Device	Select Device	•]
Periodicity	Custom (Every 30 days)	Safety Period	1 Day(s)
Starting at	5/8/2008 19:00:00	Maintenance Type	Select Type 💌
	Inst	ructions (Maintenance Des	cription)
	[>> Next Cancel	

Figure 8.10. Maintenance Details

- 7. Type the title of the maintenance.
- 8. Select the device.
- 9. Select the type of the maintenance: preventive or predictive.
- 10. Type the instructions to perform the maintenance.
- 11. Click Next to conclude and update the Maintenances List.

Editing the Maintenance

In the topology tree, click the link Maintenances > List to open the list of scheduled maintenances.

In the column Action, click the edit icon, Action, related to the device, to open the Maintenance Edit window.

Maintenance	Edit - Microsoft Internet Explorer		_ _ X
		Maintenance Edit	
Maintenance:	Weekly Predictive Maintenance		
Device Tag:			
Recurrent	At: Fri	Safety Period:	2 day(s)
Starting at:	Date: 25 - 5 - 2004 - Hour: 15 - : 0 -	Maintenance Type:	Predictive
	М	aintenance Template Desc	ription:
	Notify user by email?(Alarm):	Yes 💌	
	Operator email address:	testsupport@smar.com.br	Add Remove
	List emails:	testsupport@smar.com.br	
		SUBMIT	

Figure 8.11. Editing the Maintenance

Edit the necessary information and click the button Submit to apply the alterations.

Removing a Maintenance

In the topology tree, click the link Maintenances > List to open the list of scheduled maintenances.

In the column **Action**, click the delete icon, **A**, related to the device.



Figure 8.12. Removing a Maintenance

Click Ok to confirm the operation and remove the selected maintenance.

Sending Service Orders

In the topology tree, click the link Maintenances > List to open the list of scheduled maintenances.

In the column **Action**, click the send service order icon related to the device. This icon will only be available if any e-mail address was assigned to the maintenance. The window to edit the service order opens:

	Send Service Order	
₹ _A	Weekly Preventive Maintenance	
To:	testsupport@smar.com.br;	
	Description	

Figure 8.13. Sending a Service Order

Type the instructions to be sent to the user and click the button **Send** to send the e-mail. The figure below should appear confirming that an e-mail has been sent:

é	Result	- Microsoft Internet Explorer
		Send Service Order Result
	M	Maintenance: Maintenance from Diagnostic - FY-A¥-01 - HI302-O-HIRT-1 - Output Module not Initialized or not Connected
		Order was successfully sent to [,bechuate@smar.com.br].
		CLOSE

Figure 8.14. Confirming the Service Order

Searching for Maintenances

To search for a specific maintenance, click the link Maintenances > Search in the topology tree.

Searching a period

The default Maintenance Search page is shown in the figure below:

Search Month Week Start Date End Date Start Date: Image: Constraint of the second se			Maintenan	ce Search		
Start Date End Date Start Date: Image: Comparison of the start Date: Device Tag: All Maintenance: Image: Comparison of the start Date:	Search Month Week					
Start Date: End Date: Device Tag: All Maintenance: Search	9	Start Date			End Date	
Device Tag: All Maintenance: Search	Start Date:			End Date:		
Maintenance: Search	Device Tag:	All			•	
	Maintenance:				•	Search

Figure 8.15. Searching for Maintenances

Select the beginning of the search in the field Start Date and the end of the search in the field End Date, clicking the icon to open the Calendar dialog box.

🎒 Cal	endá	rio - M	Micro	soft .	💶		
\leq	j	unho	de	2007	,	≥	
d	5	t	q	q	5	5	
27	<u>28</u>	<u>29</u>	<u>30</u>	<u>31</u>	<u>1</u>	2	
3	<u>4</u>	<u>5</u>	<u>6</u>	Ζ	<u>8</u>	2	
<u>10</u>	<u>11</u>	<u>12</u>	<u>13</u>	<u>14</u>	<u>15</u>	<u>16</u>	
<u>17</u>	<u>18</u>	<u>19</u>	<u>20</u>	<u>21</u>	<u>22</u>	<u>23</u>	
<u>24</u>	<u>25</u>	<u>26</u>	<u>27</u>	<u>28</u>	<u>29</u>	<u>30</u>	
1	2	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>	Ζ	
		Cle	ar Da	ate			

Figure 8.16. Calendar

- 2. In the field **Device Tag**, filter the tag of a specific device.
- 3. In the field Maintenance, filter the name of the maintenance defined by the user.
- 4. Click the button Search to view the results.

The page with the search results will be loaded. Click the link of the device name to view the information about the maintenance.

								Maint	tenano	e Sea	arch				
Sear	rch M	lonth) we	eek											
						Start D)ate					End Date)		
				Sta	rt Date:	19/06/	2007			E	nd Date:	28/06/200	7		
				Device T	ag:	All						-			
				Maintena	ince:	All						-		Search	
									_						
6		8	Dev	vice					Desci	iptior)				Due Date
1	•	9	FY-3	02-A	Calibra	tion								19/6/2	2007 15:24:11
q	•	e	PIC-	0002	LD302									22/6/2	:007 15:00:00
					(P	age: 1	of: 1)	Pag	je: 1	-		> [0>]		

Figure 8.17. Search Results

Searching maintenance during the month

Click the button Month to view the maintenances scheduled for the month:



Figure 8.18. Month Calendar

Click the link of the maintenance name to view the instructions related to the maintenance.

Searching maintenance during the week

Click the button Week to view the maintenances scheduled for a selected week:

				M	laintei	nance	Sear	ch						
arch (Month) We	ek.													
			Da	te								S	how	
Start Date:	19/06/2	007	1			Week:	1	-						
			Sca	ile						6	Horiz	ontal	O Vert	ical
	🔽 Full ti	ime scale		Time	scale ir	nterval:	60	• m	inutes					
Start of time scale:	06:00	•		En	d of time	scale:	20:0	00	-			Se	arch	
	06:00 07	:00 08:00	09:00 10	:00 11	:00 12:	00 13:	00 14:	00	15:00 16:00	17	:00 18	:00 19	:00 20	:00
										_				
seg 18/6														
seg 18/6 ter 19/6	-								15:24 Calibration					
seg 18/6 ter 19/6 qua 20/6									• 15:24 Calibration					
seg 18/6 ter 19/6 qua 20/6 qui 21/6									15:24 <u>Calibration</u>					
seg 18/6 ter 19/6 qua 20/6 qui 21/6 sex 22/6									 15:24 <u>Calibration</u> 15:00 LD302 					
seg 18/6 ter 19/6 qua 20/6 qui 21/6 sex 22/6 sáb 23/6									 15:24 <u>Calibration</u> 15:00 <u>LD302</u> 					

Figure 8.19. Week Calendar

- 1. Select the beginning of the search in the field **Start Date** clicking the icon **to** open the **Calendar** dialog box.
- 2. Select the number of weeks from the **Week** menu.
- 3. Select the time interval in the Scale area.
- 4. Select the view mode for the week: horizontal or vertical.
- 5. Click the link of the maintenance name to view the instructions related to the maintenance.

Opening the Maintenances History

To list the maintenances that have been executed, click the link **Maintenances > History** in the topology tree. The **History Search** page will be loaded:

	Start Date	End Date
Start Date: May	▼ 1 ▼ 2006 ▼	End Date: June 💌 19 💌 2007 💌
Device Tag:	All	
Maintenance:	All	

Figure 8.20. Searching for the maintenances executed

- 1. Select the starting date for the search in the field Start Date.
- 2. Select the ending date for the search in the field End Date.
- 3. In the field Device Tag, filter the tag of a specific device.
- 4. In the field Maintenance, filter the name of the maintenance defined by the user.
- 5. Click the button **Search** to view the results.

The page with the results for the search will be loaded:

		Maintenances Hist	ory		
		DueDate Status			
DeviceTag	Maintenance	(days)	Date/Time	Туре	User
I 😨 TAG DEFA	Preventive Maintenance	🕲 O (at day)	5/25/2004 3:36:16 PM	Preventive	juliana
🖌 😨 tag defa	LD302 Preventive Maintena	🕲 O (at day)	5/25/2004 3:54:28 PM	Preventive	juliana
/ 😨 pic-206	Weekly Preventive Mainten	🕲 O (at day)	5/25/2004 3:56:48 PM	Preventive	juliana
K 😨 tag defa	Temperature Calibration	🕲 5 (in advance)	5/25/2004 4:05:13 PM	Preventive	juliana
/ 😨 pic-206	Custom Predictive Mainten	🕲 1 (in advance)	5/25/2004 4:09:47 PM	Preditive	juliana
K 😨 tag defa	Preventive Maintenance	🕲 O (at day)	5/26/2004 3:59:11 PM	Preventive	juliana
🗑 TAG DEFA	LD302 Preventive Maintena	🕮 O (at day)	5/26/2004 4:00:47 PM	Preventive	juliana

Figure 8.21. Maintenances History

The icon **v** in the first column indicates that the maintenance has been executed.

The icon indicates that the maintenance has been removed.

Opening the Alarms List

To list the alarms that indicate the status of the scheduled maintenances, click the link **Maintenances > Alarms** in the topology tree. The page with the alarms list will be loaded:

			Maintenance Alarms	
	Status	Device	Description	Due Date
Q.		Degix3400MD 27	Maintenance from Diagnostic - Logix3400MD_27 - LOGIX3400MD_27_TRD - Fail to last known set point.	9/29/2011 10:26:33 AM
Q.		🖗 <u>LD302 1</u>	LD302: Preventive Maintenance	10/4/2011 12:30:00 PM
ଷ୍	٠	TT302 4	Temperature Calibration - Preventive	10/6/2011 12:30:00 PM
Q.		🖗 <u>LD302 1</u>	Lower Pressure Calibration	10/6/2011 1:00:00 PM

Figure 8.22. Maintenance Alarms

The color indicates the severity of the alarm:



Indicates the maintenance should be executed in the near future.

Indicates the deadline for the maintenance to be executed.



To register the maintenance, click the icon it to open the **Maintenance Registration** window. Type the description of the executed maintenance procedure and click the button **Register** to confirm that the maintenance has been executed.

Maintenance	Preventive Maintenan	ice 01		
Device	LD02_306			
Periodicity		Safety Period	1 Days	
DueDate	8/31/2004 10:04:00 AM	Type	🛞 Preventive	
	In	structions:		
Execute preventi	ve maintenance.			
	Maintena	ance Description:		

Figure 8.23. Registering the Maintenance

A message box will open confirming the procedure. Click **Ok** to conclude.

To remove the scheduled maintenance, click the icon related to the maintenance and, in the **Maintenance Registration** window, type a brief explanation about canceling the maintenance and click the button **Remove**. A message box will open confirming the procedure. Click **Ok** to conclude.

Maintenance Templates: Using the AssetView Maintenance Wizard

The user can create templates for the preventive maintenance of a device, and register these maintenances in the *AssetView* database. When the device is registered by the *AssetView Server*, the maintenances are automatically added to the **List of Programmed Maintenances**.
Maintenances templates are created using the **AssetView Maintenance Wizard**. To run this application, double-click the file **AVMaintenanceWizard.exe** located in the **AssetView** installation directory, inside the **bin** folder. The default installation path is "C:\Program Files\Smar\AssetView\bin\".

20	AssetView	Mair	itenar	ice Tei	mplate	Wizard	-*[Ne	w Blanl	k Templ	ate]				×	<
File	Maintena	ances	Help	E×it											
E M	aintenance	0/0													
	Maintenan	ces Gi	oup												
- Ec	lit-														
N	laintenance	eTitle													
h	daintenance	- Deer	ription												
Ĺ	rainconario	5 17 636	apdon											A	
	-													-	
	4														
	Recurrence	Туре-									1	fety Peri	od		
												0	Ψ.	day(s)	
													Edi	t	

Figure 8.24. AssetView Maintenance Wizard

Creating Maintenance Templates

Go to the **File** menu and click **New Template**. Then, on the **Maintenances** menu, select the option **New Maintenance Wizard** to open the **Maintenance Template Wizard** dialog box:

🔯 Maintenance Template Wizard - Step 1	×
Maintenance Title	
Change Oil	
Maintenance Description	
(gpe a description for the maintenance here)	
	-
	F
1	
Consel Crack Newton Civit	
Cancer KK back Next >> Finish	

Figure 8.25. Creating Maintenance Templates

Type the name for the maintenance template and describe the maintenance procedure that should be executed. Click **Next** to continue.



Figure 8.26. Defining the Schedule

In the field **Occurs**, select the maintenance occurrence: customized, daily, weekly, monthly or annual. According to this selection, define the hour, the day of the week, the day of the month or the day of the year that the maintenance should be executed or repeated.

Configure the maintenance alert in the field **Safety Period**, selecting the number of days that the user should be notified in advance about the maintenance. Click **Finish** to conclude.

Saving Maintenance Templates

On the **File** menu, click **Save** to open the **Save Maintenance Template** dialog box. The maintenance templates are saved in XML file format.

Save Maintenan	ce Template		? ×
Save in:	000302	▼ ← € ☆ Ⅲ	
My Recent Documents Desktop My Documents My Computer	0006 0000 0000 0002 0020 0020 0020 0003 0004 00005 00005 00005 00005 00005	C 0016 0017 0020 0026	
My Network Places	File name: Save as type:	maintenance_template.xml AssetView Maintenance Template (".xml)	Save Cancel

Figure 8.27. Saving the Maintenance Template

Type the name for the file and click Save to conclude.

IMPORTANT				
The maintenance template file must be saved on the AssetView folder, following the default Web pages structure on the Device Support folder. The default path is:				
C:\Program Files\Smar\Assetview\Web Pages\Device Support\ <manufacturer code="">\<device code="" type=""></device></manufacturer>				
For example, if you create a maintenance template for Smar's FY302 , the file must be saved in C:\Program Files\Smar\Assetview\Web Pages\Device Support\000302\0006.				

Opening Maintenance Templates

On the **File** menu, click **Open Template** to open the **Open Maintenance Template** dialog box. Select the icon of the maintenance file and click **Open**.

Open Maintenar	ice Template		? ×
Look in:	000302	▼ ⇔ 🗈 📸 -	
My Recent Documents Desktop My Documents My Computer	0000b 0000d 0000e 00001 0002 0002 0003 0004 0005 0006 0006 0008 0010 0015	Control Contro	
My Network Places	File name: Files of type:	AssetView Maintenance Template (*.xml) Cance	n ;el

Figure 8.28. Opening the Maintenance Template

Editing Maintenance Templates

In the field **Maintenances Group**, select the icon of the maintenance to be edited and click **Edit**, at the bottom of the *AssetView Maintenance Wizard* window. Or go to the **Maintenances** menu and click **New Maintenance Wizard**. The fields will be available for edition:

- Edit	
MaintenanceTitle	
Change Oil	
1	
Maintenance Description	
<type a="" description="" for="" here="" maintenance="" the=""></type>	A
1	
	- Safety Period
	5
Week (Every Monday J	
	End Edit

Figure 8.29. Editing a Maintenance

You can change the title of the maintenance and the description.

To edit the scheduling, click the button at the **Recurrence Type** field to open the **Recurrence Type** dialog box:

Recurrence Typ	e			×
Occurs	-Week			1
C Custom				
🔿 Day	C Sun	 Mon 	C Tue	
Week	C Wed	C Thu	O Fri	Cancel
C Month	C Sat			
C Year				<u>0</u> k

Figure 8.30. Editing the Scheduling

Select the recurrence type for the maintenance, define the recurrence period and click **Ok** to return to the **AssetView Maintenance Wizard** window.

It is also possible to edit the period that the user should be notified in advance about the maintenance. Select the number of days in the **Safety Period** box.

To conclude the edition, click End Edit, at the bottom of the AssetView Maintenance Wizard window.

Removing Maintenance Templates

To remove a maintenance template, select its icon on the **Maintenances Group** box. On the **Maintenances** menu, select the option **Remove Maintenance**.

The message box below will open to confirm the operation. Click **Yes** to remove the maintenance or click **No** to cancel the operation.

DEVICE LIBRARY

The **Device Library** is a set of information provided by manufacturers related to the devices, such as user's manuals, calibration procedures, preventive maintenance items, device-related diagrams and images, and notes. Observe the example below:



Figure 9.1. Device Library Page

Select the device on left panel to open the Device Library Explorer tabs on the right panel.

Device Images

Once a device is selected, the list of related images is shown at the **Explorer** tab. The example of the following figure shows a list of image files referring to the device **LD302** from **Smar**:

		Device Li	ibrary	
Device filter :	Ap	ply	Explorer Notes	
Device	Manufacturer	Protocol	▼LD302 ▼Images	
CONTRACTOR 1000	SMAR	Fieldbus	 FY400MP.PDF Instruction MODE.JPG MOUNTING 1JPG MOUNTING 2JPG 	
0	SMAR	Fieldbus	 ▶ <u>MOUNTING 3.JPG</u> ▶ <u>MOUNTING 4.JPG</u> ▶ <u>MOUNTING 5.JPG</u> ▶ <u>MOUNTING 6.JPG</u> 	
<u>ТF302</u>	SMAR	Fieldbus		

Figure 9.2. Example of Device Images

Click the image file name to view the image.

Adding Images

To include an image related to the device, at the bottom of the **Explorer** tab, type the name of the file or click **Browse** to locate the file, at the **Upload local file to library** area:

Explorer	Notes		
✓ LD302 Images Manuals Others 			
Del	ete selected file	(s) from libra	iry
	Delet	e	
	Upload local fi	e to library	
Local File :			Browse
Folder [Server] :	Images	•	
	Uploa	d	

Figure 9.3. Adding Images

The dialog box to locate the file will open. Select the file of the image and click **Open**. At the **Explorer** tab, select the folder **Images** and click **Upload**.

The link to the new image will be created in the list of images and a copy of the original file will be created in the device's folder, in the device's manufacturer directory located at "AssetView\Web Pages\ DeviceLibrary\MANUFACTURERS\", at the default **System302** installation directory.

Removing Images

At the **Explorer** tab, expand the device's tree, mark the image(s) that will be deleted and click **Delete**.

Explorer	Notes				
▼LD302					
🕶 Images					
Þ 🗌 <u>FY</u> 4	HOOMP.PDF				
Þ 🗖 LD3	02.JPEG				
Þ 🔽 MO	DELS.JPG				
Þ 🔽 MO	UNTING 1.JPG				
Þ <u> </u>	UNTING 2.JPG				
⊳ 🗆 мо	UNTING 3.JPG				
Þ □ MO	UNTING 4.JPG				
Þ □ MO	UNTING 5.JPG				
Þ □ mo	UNTING 6.JPG				
▶ □ M0	UNTING 7.1PG				
	ER CHT				
	WEDD CCC				
▶ Manuals	VER2.3CC				
▶ Others					
Delete selected file(s) from library					
Delete					
	Lipload local file to library				

Figure 9.4. Removing Images

The link to the image will be deleted and the file will be removed from the related device's folder, in the manufacturer directory at the default installation path "\AssetView\Web Pages\DeviceLibrary\ MANUFACTURERS\", at the default **System302** installation directory.

Device Manuals

Click the Manual icon to open the documentation file from the device:

Adding Manuals

At the bottom of the **Explorer** tab, type the name of the file or click **Browse** to locate the file, at the **Upload local file to library** area:

Explorer	Notes	
✓ LD302 Images Manuals Others 		
Del	ete selected file	(s) from library
	Delet	2
	Upload local fil	e to library
Local File :		Browse
Folder [Server] :	Manuals Uploa	d

Figure 9.5. Adding a Manual

After selecting the manual file, select the folder Manuals and click Upload.

The link to the new manual will be created in the list of manuals and a copy of the original file will be created in the device's folder, in the device's manufacturer directory located at "AssetView\Web Pages\ DeviceLibrary\MANUFACTURERS\".

For example, if a manual was added to **Smar FY302**, the copy of the file will be created in the default installation directory: "C:\Program Files\Smar\AssetView\Web Pages\DeviceLibrary\MANUFACTURERS\SMAR\FY302\manual".

Removing Manuals

At the **Explorer** tab, expand the device's tree, mark the manual file(s) that will be deleted and click **Delete**.

The link to the manual will be deleted and the file will be removed from the related device's folder, in the manufacturer directory at the default installation path "\AssetView\Web Pages\DeviceLibrary\ MANUFACTURERS\".

Managing Other Files

Files related to descriptions or references for a device, or worksheets for example, are managed similarly to image and manual files.

To add a new file, type the name of the file or click **Browse** to locate the file, at the **Upload local file to library** area. After selecting the file, select the folder **Others** and click **Upload**. The link to the new file will be created in the list of files.

To remove a file, mark the name of the file that will be deleted and click Delete.

Managing Device Notes

Click a device icon to display the **Notes** tab which list of notes related to the device. See the example below:



Figure 9.6. Example of Notes for the LD302

Adding Notes

To add a note to a device, type the text and click the button Insert. See the example below:

Explorer	Notes	
The Auto-Se should be p	tup operation erformed off:	n line. V

Figure 9.7. Adding a Note

The text will be displayed on the list of notes for the device.



Figure 9.8. Device Note

Updating a Note

To update a note, click the button **Edit** corresponding to the note.

Explorer	Notes		
The Auto-Setup op offline.	eration should be pe	rformed 🤇	Edit
bob_engineer - 9/1	.0/2009 11:09:40		Delete
			
			Insert
		-	
<u>r</u>			

Figure 9.9. Editing a Note

The text box to edit the note will open. Edit the text and click **Update** to confirm the alterations:

Explorer	Notes	
The Auto-Se should be p	tup operation erformed offl	Line.
		Insert

Figure 9.10. Updating a Note

To cancel the alterations, click **Cancel** and the text will not be altered.

Removing Notes

To remove a note, click the button **Delete** corresponding to the note. See the example below:

Explorer	Notes		
The Auto-Setup op offline.	eration should be pe	erformed	Edit
bob_engineer - 9/1	10/2009 11:09:40		Delete
		<u> </u>	
			Insert
		-	

Figure 9.11. Deleting Notes

The note will be removed from the list of notes for the device.

KNOWN PROBLEMS AND LIMITATIONS

1. AssetView Server is monitoring the changes of the parameters (Tracking Activated). An online Web page from AssetView is requested and all fields in the page are blank, instead of showing the values. At the same time, the monitoring procedure (Tracking) stops.

Run the **dcomcnfg** application, select the application **Smar OPC & Conf Server for DFI302** and click **Properties**. At the **Identity** tab, select the option **The Interactive User**. Click **Ok** to conclude.

Applications:	Smar OPC & Conf Server for DF1302 Properties ?
0pPrintServer2	General Location Security Identity Endpoints
PeriodicTimer PSN2 PSN2	Which user account do you want to use to run this application?
PSN2NUte PSNGiveNote PWM Document	The interactive user
Remote Debug Manager for Java Remote Storage Recall Notification Client SENS Logon Events	C The launching user
SENS Network Events SENS OnNow Events SENS Subscribes for EventSusteen Event	C This user:
Server Extension Objects SetupLogServices Class	User: Browse
Smar OPC & Conf Server for DFI302 Smar OPC & Conf Server for HSE	Password:
Smar OPC & Conf Server for PCI Card Smar OPC 2.0 & Conf Server for DF65	Confirm Password:
Properties	C The System Account (services only)

Figure 10.1. Configuring the DCOM Properties

2. When trying to execute an operation in the page, the following error message appears:



Figure 10.2. Error Message

The user logged probably doesn't belong to the **Engineers** group. Refer to the section **User Permission** on **Section 1**, in this manual.

IMPORTANT! If the user belongs to a **domain**, the group **Engineers** must exist in the domain server and the user must be added to this group to perform specific operations.

3. When trying to start the AssetView Server after the installation, the following error message appears:



Figure 10.3. Database Installation Error

This message occurs if Windows is not installed in drive C and the *System302* version is prior to version 6.1.3.3.

- If the user is running the *AssetView Server* with Windows 2000, click Start > Settings > Control Panel > Administrative Tools > Data Sources (ODBC).
- If the user is running the AssetView Server with Windows NT, click Start > Settings > Control Panel > ODBC.

The **ODBC Data Source Administrator** dialog box will open. Click the **System DSN** tab and double-click the **AssetView** data source name to open the dialog box. Click **Select** and locate the file **AssetView.mdb** in the folder "<System302 Installation Path>\AssetView\ Database\".

Click Ok and close the ODBC Data Source Administrator dialog box.

4. When trying to open the AssetView main page, the following error message appears: "The page cannot be found".

The Virtual Directories of AssetView might not have been created correctly during the installation.

Refer to the Appendix A for specific information about the Virtual Directories.

5. The Device icon in the Tracking window doesn't have its normal state recovered after the communication is restored.

Close the **Tracking** window and open it again by clicking **View > Tracking View**.

6. IIS and .NET Framework installation: AssetView pages are not shown in the browser.



Figure 10.4. AssetView Pages Blank

The Internet Information Services must always be installed before the .NET Framework.

In case the installation order is inverted, follow the procedure below:

- a. On the Start menu, select Run and type cmd. The command interpreter window will open.
- b. Execute the file **aspnet_regils.exe** located on the default directory "C:\WINDOWS\Microsoft.NET\Framework\v1.1.4322\". On the command line, type:

C:\WINDOWS\Microsoft.NET\Framework\v1.1.4322\aspnet_regiis.exe -i

c. The **Internet Information Services** will be configured. Wait a few seconds until the procedure is concluded and close the command interpreter window. See the example below:



Figure 10.5. Command Window

- d. Open the **Control Panel**, double-click the icon **Administrative Tools** and open the **IIS** window.
- e. Right-click the icon of the AssetView folder and select the option Properties.



Figure 10.6. AssetView Folder Properties

f. On the **Properties** dialog box, select the **ASP.NET** tab and select **version 1.1.*** of ASP.NET, as indicated in the figure below:

setView Properties		?
Virtual Directory HTTP Headers	Documents Custom Errors	Directory Security ASP.NET
Microsoft ASP n A		
ASP NET version:	1 1 4322	.
Virtual path:	/AssetView	
File location:	, D:\Program Files\Si	mar\AssetView\Web Pages\
File creation date:	21/7/2008 16:33:14	4
File last modified:	21/7/2008 16:33:14	4
	E	dit Configuration

Figure 10.7. AssetView Folder Properties

g. Click \mathbf{Ok} to conclude and close the \mathbf{IIS} window.

ASSETVIEW VIRTUAL DIRECTORIES

Configuring IIS 5.0 on Windows XP

Creating the Virtual Directories

If the virtual directories were not created during the *System302* installation, it will be necessary to create them according to the procedure described below.

Click Start > Settings > Control Panel and double-click Administrative Tools. Start the Internet Services Manager. The Internet Information Services Manager window will open.

Expand the directory tree of the server machine and right-click the **Default Web Site** directory. Select **New > Virtual Directory**.



Figure A.1. IIS Manager

The Virtual Directory Creation Wizard dialog box will open. Click Next and type the name AssetView to create the virtual directory. Click Next.

Virtual Directory Creation Wizard	×
Virtual Directory Alias You must give the virtual directory a short name, or alias, for quick reference.	T I
Type the alias you want to use to gain access to this Web virtual directory. Use the same naming conventions that you would for naming a directory.	
Alias: AssetView	
< <u>B</u> ack <u>N</u> ext > Canc	el

Figure A.2. Creating the Virtual Directory

directory.

 Virtual Directory Creation Wizard

 Web Site Content Directory

 Where is the content you want to publish on the Web site?

 Enter the path to the directory that contains the content for this Web site.

 Path:

 C:\Program Files\Smar\AssetView\Web Pages

 Browse...

Select the path of the new virtual directory. The default installation path is "C:\Program Files\Smar\AssetView\Web Pages". Or click Browse and select the AssetView Web Pages

Figure A.3. Locating the AssetView Directory

Click Next. On the following dialog box, select the options Read and Run scripts (such as ASP).

Virtual Directory Creation Wizard	×
Access Permissions What access permissions do you want to set for this virtual directory?	Ð
Allow the following:	
✓ Bead	
✓ Run scripts (such as ASP)	
Execute (such as ISAPI applications or CGI)	
☐ Write	
E Browse	
Click Next to complete the wizard.	
< <u>B</u> ack <u>N</u> ext >	Cancel

Figure A.4. Configuring the permissions for the Virtual Directory

Click Next to complete the wizard and click Finish to conclude.

Check if the virtual directory was created at the Internet Information Services window.

Once the virtual directory is created correctly, it will be necessary to configure the properties of the virtual directory according to the section below.

Configuring the Properties of the Virtual Directories

At the **Internet Information Services** window, expand the directory tree of the **Default Web Site** directory, right-click the **AssetView** virtual directory and select **Properties** from the menu.

Thternet Information Services			_ 🗆 🗙
Action ⊻iew ← → 🔁	🖬 🖆 🛃 😫 💂	▶ ■ Ⅱ	
Tree		Name	Path 🔺
Internet Information Services Carrie Carrie Default PTP Site (Stopped) Default Veb Site Carries Stanples Stanpl) pped)	Control Contro Control Control Control Control Control Co	d'\inetpub\scripts D:\WINNT\System32\inetsrv\iisa d'\inetpub\iissamples d.\program files\common files\syst d.\wint\help\iishelp D:\Inetpub\webpub D:\Program Files\Common Files\M D:\WINNT\web\printers D:\Program Files\Smar\AssetView
Dpens property sheet for t	.		
Help			

Figure A.5. AssetView Virtual Directory

The AssetView Properties dialog box will open.

At the Virtual Directory tab, select the options Read and Index this resource in the Local Path rectangle. In the Application Settings area, select Low (IIS Process) in the Application Protection box.

setView Properties		?
HTTP Headers Virtual Directory	Custom Errors	ASP.NET
When connecting to this	resource, the content should com	e from:
• A	directory located on this computer	
C A: C A:	share located on another compute redirection to a URL	:r
Local Path: C:\F	Program Files\Smar\AssetView\We	eb Browse
 ☐ Script source access ✓ Read ☐ Write ☐ Directory browsing 	☐ Log visits ✔ Index this res	ource
Application Settings		
Application name:	AssetView	Remove
Starting point:	<default td="" w\assetview<=""><td>Configuration</td></default>	Configuration
Execute Permissions:	Scripts only	<u> </u>
Application Protection:	Low (IIS Process)	Unload
	OK Cancel	Apply Help

Figure A.6. Properties of the Virtual Directory

Select the **HTTP Headers** tab and mark the option **Enable Content Expiration** and **Expire Immediately**, as indicated below:

As	set¥iew Properties							?)
ľ	Virtual Directory I HTTP Headers	1	Documents Custom Erro	l	1	Directory Se ASP.N	curity NE T	
	Content Should: Content should:	י ו —			<u> </u>]
	C Expire after 1 C Expire on sábad	0	Day(s) , 23 de agosto	▼ de ▼	at [00:00:00	4. 7	
	Custom HTTP Headers					Add		

Figure A.7. Properties of the Virtual Directory

Select the **ASP.NET** tab and select version **1.1.*** for ASP.NET, as the example in the figure below:

AssetView Properties		? ×
Virtual Directory	Documents	Directory Security
HTTP Headers	Custom Errors	ASP.NET
ASP.n.	et	
ASP.NET version:	1.1.4322	▼
Virtual path:	/AssetView	
File location:	D:\Program Files\	Smar\AssetView\Web Pages\

Figure A.8. Selecting the ASP.NET version

Click OK to close the dialog box and close the AssetView Properties dialog box.

Configuring IIS 6.0 on Windows Server 2003

Configuring the Application Pool

It is necessary to create the Application Pool in IIS 6.0 for AssetView.

- i. Open the Internet Information Services window. Click Start > Settings > Control Panel and double-click Administrative Tools. Then double-click Internet Information Services Manager.
- ii. Right-click the Application Pool icon and select New > Application Pool.



iii. The Add New Application Pool dialog box will open.

Add New Application	Pool	×		
Application pool ID:	SmarAssetViewPool			
Application pool sett	ings			
• Use default settings for new application pool				
🔿 Use existing <u>a</u> p	plication pool as template			
Application poo	name: DefaultAppPool			
08	Cancel <u>H</u> elp			

Figure A.10. Application Pool Identification

- iv. Type SmarAssetViewPool as the Application Pool ID and click Ok.
- v. Right-click the SmarAssetViewPool icon and select Properties.



Figure A.11. Application Pool Properties

vi. The SmarAssetViewPool Properties dialog box will open.

5marAssetViewPool Properties						
R	Recycling Performance Health Identity					
	Application pool identity Select a security account for this application pool:					
	Predefined	Local System				
	\bigcirc Configurable					
	<u>U</u> ser name:	IWAM_BECHUATE2003 Browse				
	Pass <u>w</u> ord:	•••••				
_						
		OK Cancel <u>A</u> pply He	lp			

Figure A.12. AssetView Application Pool Properties

- vii. Select the **Identity** tab, check the option **Predefined** and select **Local System** as the user account.
- viii. Click Ok to conclude.

Creating the Virtual Directories

Now, it will be necessary to create the Virtual Directories.

On the **Internet Information Services Manager** window, expand the directory tree of the server machine and right-click the **Default Web Site** icon. Select **New > Virtual Directory**.

🐚 Internet Inform	ation Services (IIS) Manag	er	
🐚 Eile <u>A</u> ction Y	/iew <u>W</u> indow <u>H</u>	<u>H</u> elp		
← → 1 1	🗙 💣 🔮 🖪	😫 💂	▶ ■ Ⅱ	
Internet Informa ■ Internet Informa ■ BECHUATE20 ■ → Application ■ → Defa ■ → Web Stree ■ → ■ Defa ■ → ■ Defa ■ → ■ Web Ster	tion Services 103 (local computer n Pools ultAppPool AssetViewPool s Explore Open Permissions Browse Stop Pause	Name	client ntm r.gif	Path
	<u>N</u> ew All Tas <u>k</u> s	• •	<u>W</u> eb Site Web <u>S</u> ite (from file)	
	<u>V</u> iew New <u>W</u> indow fro	om Here	<u>V</u> irtual Directory Virtual <u>D</u> irectory (from	ı file)
	Delete			

Figure A.13. Creating the Virtual Directory for the AssetView Application Pool

The Virtual Directory Creation Wizard will open. Click Next and type AssetView as the alias of the virtual directory. Click Next.

tual Directory Creation Wizard	2
irtual Directory Alias Specify a short name, or alias, for this virtu	al directory.
Type the alias you want to use to gain acc same naming conventions that you would	ess to this Web virtual directory. Use the for naming a directory.
<u>A</u> lias:	
AssetView	
	<

Figure A.14. Configuring the Virtual Directory

Then select the path of the new virtual directory. The default installation path is C:\Program Files\Smar\AssetView\Web Pages. Or click **Browse** to locate the **AssetView Web Pages** directory.

Virtual Directory Creation Wizard	>
Web Site Content Directory Where is the content you want to publish on the Web site?	
Enter the path to the directory that contains the content for this Web site Path:	9.
C:\Program Files\Smar\AssetView\Web Pages	Browse
< <u>B</u> ack Next>	Cancel

Figure A.15. Locating the AssetView Directory

Click Next to continue. On the following dialog box, select the options Read and Run scripts (such as ASP).

Virtual Directory Creation Wizard	×
Virtual Directory Access Permissions Set the access permissions for this virtual directory.	E.
Allow the following permissions:	
 ✓ <u>Bead</u> ✓ <u>Prun scripts (such as ASP</u>) ✓ <u>Execute (such as ISAPI applications or CGI)</u> ✓ <u>Write</u> ✓ Browse 	
To complete the wizard, click Next . < <u>B</u> ack <u>N</u> ext >	Cancel

Figure A.16. Configuring the Permissions for the Virtual Directory

Click Next to complete the wizard then click Finish to conclude.

Once the virtual directory is created correctly, it will be necessary to configure the properties of the virtual directory according to the Application Pool created previously.

Configuring the Properties of the Virtual Directories

On the Internet Information Services Manager window, right-click the AssetView virtual directory and click Properties.



Figure A.17. AssetView Virtual Directory

The AssetView Properties dialog box will open. At the Virtual Directory tab, select the options Read and Index this resource in the Local Path rectangle. In the Application Settings area, select SmarAssetViewPool created previously as the Application pool for the virtual directory.

ssetView Properties		? ×			
HTTP Headers Virtual Directory	Custom Errors	ASP.NET			
Virtual Directory Documents Directory Security When connecting to this resource, the content should come from:					
Local Path: C:\Program Files\Smar\AssetView\Web Browse Script source access Log visits ✓ Read ✓ Index this resource ✓ Write ✓ Directory browsing					
Application Settings Application name:	AssetView	Remove			
Starting point: < Execute Permissions: S	Default W\AssetView Scripts only	Configuration			
Application pool: SmarAssetViewPool Unload					
	OK Cancel	Apply Help			

Figure A.18. Properties of the Virtual Directory

At the **Directory Security** tab, click **Edit** in the **Anonymous Access and Authentication Control** area. Verify that the **Anonymous access** option is selected.

Authenticatio	n Methods	×		
Anonymous access				
No user nam	ne/password required to access this resource.			
Account use	ed for anonymous access:			
User name:	IUSR_JULIANA Browse			
Password:				
	Allow IIS to control password			
Authenticate	d access			
For the follow are required - an - ac	For the following authentication methods, user name and password are required when - anonymous access is disabled, or - access is restricted using NTFS access control lists			
🗖 Digest ar	uthentication for Windows domain servers			
🔲 Basic au	thentication (password is sent in clear text)			
Default do	Select			
Realm:	Select			
✓ Integrate	ed Windows authentication			
	OK Cancel Help			

Figure A.19. Configuring the Authentication Method

Click **OK** to close the dialog box and close the **AssetView Properties** dialog box.

Select the **HTTP Headers** tab and mark the option **Enable Content Expiration** and **Expire Immediately**. Then, select the **ASP.NET** tab and select version **1.1.*** for ASP.NET.

The IIS configuration for *AssetView* is complete.

ASSETVIEW DATABASE BACKUP PROCEDURES

Use the **AssetView Backup** application to backup the **AssetView** database. The **AssetView Backup** is easy to execute, and it can be used with the SQL Server or the MSDE database.

The *AssetView Backup* must be located in the same directory of the file *SmarAssetServer.exe*, because these applications use the same connection (*Assetview.udl*).

It is recommended to run the **AssetView Backup** application in the machine where the database server is installed. Even if the **AssetView Backup** is executed in a remote machine, the backup will be saved in the machine where the database server is installed.

Attention:

- Store the backup files in a secure place. It is recommended to save three copies of each backup file and store them in different locations.
- Execute the backup procedure on regular intervals.
- Define a reasonable period of time to store old backup versions.

IMPORTANT

Before executing the *AssetView Backup*, make sure that the *AssetServer* is not being executed and the *AssetView* pages are not open.

Creating the Backup File

1. On the Start menu, select Programs > System302 > AssetView > Backup AssetView Database, as indicated below:



Figure B.1. Starting the AssetView Backup

2. The AssetView Backup window will open:

🚯 As	set¥iew Database Backup	X
	Backup Assetview Database	
	Restore AssetView Database	

Figure B.2. AssetView Backup Window

- 3. Select the option **Backup AssetView Database** to open the **Backup AssetView** dialog box.
- 4. Select the folder where the backup file will be saved and type the name for the file.
- 5. Click **Save** to conclude.

Restoring the Database

Before restoring the database, make sure the **AssetServer** is not being executed and the **AssetView** pages are not open.

It will be necessary to create a new **AssetView** database before restoring an old database. Follow the steps described below:

- 1. To create a new *AssetView* database, go to the Start menu and select Programs > System302 > AssetView > SqlServer Create Database.
- 2. The Configure SQL Server Database window will open:

🔋 Configure SQL Server Database 🛛 🔰		
Notes		
1) MAKE SURE THE SERVER EXISTS AND IS WORKING PROPERLY		
2) THE SQL SERVER VERSION MUST BE 2000/2005		
Select the database server		
YOUR_SQLSERVER_NAME		
<u>C</u> reate Close		

Figure B.3. Configure SQL Server Database Window

- 3. Select the name of the database server and click Create.
- 4. A message box will open to confirm the operation. Click **Yes** to proceed and wait a few seconds until a message box confirms that the operation was successful.
- 5. Click **Ok** and then click **Close** on the **Configure SQL Server Database** to conclude.
- 6. On the AssetView Backup window, select the option Restore AssetView Database. The Backup AssetView dialog box will open.
- 7. Select the icon of the backup file that will be restored and click Open.
- 8. A message box will open to confirm the operation. Click **Yes** to proceed.
- 9. Wait a few seconds until a message box confirms that the operation was successful. Click **Ok** to conclude.



Figure B.4. AssetView Backup Database Restored

TUTORIAL: ASSETVIEW DEVICE WIZARD

AssetView Device Wizard Foundation Fieldbus has a DD library for Foundation Fieldbus devices that contain information provided by the devices manufacturers, such as parameters and the corresponding enumerations.

The execution file for **AssetView Device Wizard Foundation Fieldbus** is located on the **System302** default installation path: C:\Arquivos de Programas\Smar\AssetView\bin.

To run the *Device Wizard*, double-click the icon of the DeviceWizard.exe file. See the figure below:



Figure C.1. Running AssetView Device Wizard

The AssetView Device Wizard window will open:

Smar :: Assetview :: Device Wizard :: FF	×
🗋 🚰 📕 🎒 Block Settings Update Enumerators Page Identification Page	Page Settings Create XML DD Images Settings
	Cala da Januardo da Cala da Cal
Select parameters from DD :	Selected parameters :
Value Description	

Figure C.2. AssetView Device Wizard window

Creating XML Templates for Devices

AssetView Device Wizard creates XML templates for SMAR and third-parties devices from DD files.

To create a XML template, click **New** on the main toolbar. The **Device Support Explorer** dialog box will open:

Device Support Explorer	×
Select Close	
'	_
Device Support	
📕 🗄 ABB (000320)	
📃 🕀 Beijing Huakong Technology Co., [0022B8]	
🚊 🖷 CSI [435349]	
庄 — Dresser Valve Division [445644]	
EIM CONTROLS (002000)	
. EL-O-MATIC BV [0b87a3]	
Endress+Hauser GmbH [452b48]	
📕 🕀 Fieldbus Foundation (000000)	
i Fisher Controls [005100]	
Honeywell [485/4c]	
Em Knick Elektronische Messgerate [UUU1U2]	
HIM KRUHNE Messtechnik GmbH & Lo KG [UUU12	
LEDEEN [40444E]	

Figure C.3. Creating templates

Expand the manufacturer tree to list the types of devices available and their corresponding DD versions:

Device Support Explorer	×
Select Close	
Block Library [0000]	
030301	
040101	
050101	
050201	
050202	
080101	
🕂 🕀 DF62 [0026]	
🕂 🕀 🕀 DF63 [002d]	
📺 ··· DF73 [0025]	
i DF75 [002b]	
庄 🛛 DF79 [002A] 📃 🚽	
	1

Figure C.4. Selecting the DD version

Select the DD revision and click Select to return to the AssetView Device Wizard window.

mar :: Assetview :: Device Wizard :: FF 🛛 🔀						
🗋 📔 🛃 Block Settings Update Enumerators Page Identification Page	Page Settings Create XML DD Images Settings					
Manufacturer:SMAR:000302] [Device Type:DC302::0010] [Dev Rev:08] [DD Rev:01] [CapFileRev:01]						
Select parameters from DD : ANALOG, ALARM, BLOCK ANALOG, ALARM, BLOCK ANALOG, ALARM, BLOCK SETPOINT_RAMP_GENERATOR_BLOCK DISPLOCK DISPLOCK FUP_FLOP_AND_EDGE_TRIGGER_BLOCK DISPLOCK DISPLOCK DISPLOCK DISPLOCK DISPLOCK DISPLET_UNPUT_BLOCK DISPLET_UNP	Selected parameters :					
Value Description						

Figure C.5. Configuring a template

The panel **Select parameters from DD** on the left side of the **AssetView Device Wizard** window shows the blocks supported by the selected device and the parameters available.

At the **Page** combo box on the main toolbar, select the **AssetView** web page of the device where the configured parameters will be displayed.

Then, expand the block icon to list the parameters supported by the block that will be configured.



Figure C.6. Selecting parameters

Mark the desired parameters and the panel **Selected parameters** on the right side of the **AssetView Device Wizard** window will show the selected parameters and related information. See the example below:



Figure C.7. Selected parameters

The following Information are displayed for the parameters:

- BitOtherBased: Only for diagnostic parameters. It indicates that when the parameter has an alarm status, the diagnostic Other from the parameter BLOCK_ERR is activated.
- **Byte:** When the diagnostic parameter is an *array*, this attribute indicates which element is being considered.
- **Display Name:** This attribute indicates the name of the parameter displayed on the *AssetView* web page.
- **Dynamic:** When this attribute is **True**, the parameter is read online. If **False**, the parameter is read from the **AssetView** database.
- Help: This attribute adds the description to the parameter.
- **MethodTrigger:** It indicates that the value of the parameter is not altered when writing to the device. Writing acts only as a trigger.
- **Read Only:** When **True**, the parameter is **Read Only**. If **False**, writing is enabled for the parameter.

For **Read Only** parameters, it is only possible to read values from the parameters, that is, the user can not actuate on the device.

For **Read/Write** parameters, it is possible to read values from the parameters and edit values according to the device operation, submitting new values to the device.

If the selected parameter is an *enumerador*, check the *enumerations* on the bottom of the left panel. See the example below:

imar :: Assetview :: Device Wizard :: FF	
] 📂 🛃 🎒 Block Settings Update Enumerators Page Identification Page	Page Settings Create XML DD Images Settings
Manufacturer : 5MAR :: 000302] [Device Type : DC302 :: 0010] [Dev Rev : 08]	DD Rev:01] [CapFileRev:01]
Select parameters from DD :	Selected parameters :
Image: Strategy and Strateg	ANALOG ALARM BUDCK MODE_BLK.TARGET OUT_SCALE EU_100 OUT_SCALE EU_100 OUT_SCALE ULINDEX OUT_SCALE UNITS_INDEX OUT_SCALE DECIMAL GRANT_DENY.GRANT STATUS_OPTS
Value Description	
1 IFS if Bad IN 2 IFS if Bad CAS_IN 4 Uncertain as Good 8 Propogate Fall Fived 16 Propogate Fall Bived 22 Target to Man if Bad IN 64 Uncertain 1 Limited 128 Bad IL Limited 256 Uncertain 1 Limited 256 Uncertain 1 Man. 512 No select if not Cas	Application BitUtherBased False Byte, -1 DisplayName Dynamic False Options which the user may select in the block processing MethodTrigger False Read Only False

Figure C.8. Enumerations

Click Save on the main toolbar to save the XML template. A dialog box indicates the progress.

Device Support Device S	100]

Figure C.9. Saving the XML template

Opening a Template

On the main toolbar, click **Open** to open an existent device template. On the dialog box, double-click the icon of the device template:

SMAR					
LD 302 FY 302 DC 302	TT302 DF51 FR302	IF302 TP302 DF62	FP302 LD292 DF63	F1302 DT 302	
MICRO M	OTION, INC				
2700					
Rosemour	nt Inc.				
644	3051	5600	8800		
Fisher Co	ntrols				
DVC6000f					
Honeywel	I				
ST3000FF	FD_MIB				
WEGTIO	~ r				

Figure C.10. Opening a device template

To locate a template for a device, type the name of the device on the Filter area.

Configuring Blocks

On the *AssetView Device Wizard* window, select a block and click **Block Settings** on the main toolbar to open the dialog box that lists the blocks being used in the template.

On the **Block Settings** dialog box, mark the column **Supports AE** corresponding to the block to enable alarm and events functionalities. Mark the column **Tracking** corresponding to the block to enable tracking. At the column **Mnemonic** corresponding to the block, define the block mnemonic used by **AssetView**. See the example below:

	Name	Supports AE	Tracking	Mnemonic
•	DISPLAY_BLOCK	•	•	DSP
	TRANSDUCER_BLOCK		2	TRD
	DIAGTRD_BLOCK			DIAGTRD
	ANALOG_INPUT_BLOCK		~	AI
	RESOURCE_BLOCK_ITK	▼	V	RES

Figure C.11. Configuring blocks

Updating Enumerations

On the *AssetView Device Wizard* window, select a parameter and click **Update Enumerators** on the main toolbar to customize enumerations for the parameter. On the **Enumerators** dialog box, type the value and the description for the selected parameter and click **Add**. See the example below:

Enumerators	
[Parameter Name : MODE_BLK.TARGET]	
Enumeration Value:	
Description	Add
Delete selected items	
 1 - ROut 2 - RCas 4 - Cas 8 - Auto 16 - Man 32 - LO 64 - IMan 128 - 00S 	
	Close

Figure C.12. Enumerations

To remove enumerations from the selected parameter, mark the items on the **Enumerators** dialog box and click **Delete selected items**.

Click Close to return to the AssetView Device Wizard window.

Configuring Pages

On the main toolbar, click **Page Settings** to open the **Page Settings** dialog box and list the pages for the template.

Mark the column **Supports Recon** corresponding to the desired page to enable the **Calibration** and **Configuration** pages to support **Reconciliation** pages:

Page Settings							
		Name V	Link	Supports Recon			
		Identification	Identification.asp				
		Diagnostic	Diagnostic.asp				
	►	Configuration	Configuration.asp				
		Calibration	Calibration.asp	•			
					OK	Close	

Figure C.13. Configuring Pages

Creating XML DD

On the main toolbar, click the button **Create XML DD** to generate XML versions. For example, consider DD revision 0101 for a specific device and a new DD revision 0102 is available. When clicking **Create XML DD**, the XML file **0102_0101.xml** is created to store both DD version.



Figure C.14. Creating XML DD

Configuring Images



On the main toolbar, click the button **Images Settings** to select the image that will be displayed on the device's main page and on the **AssetView** toolbar. See the example below.

Figure C.15. Configuring images

TYPICAL SETTINGS AND HOW TO INCLUDE MULTIPLE AREAS

Typical settings to run AssetView

- 1. After opening System302 Studio, make sure that the Areas are updated in the Maintenance Station and Syscon has already exported tags for each area.
- 2. Make sure a valid License for AssetView is installed, so open AssetView Server.
- ٦ Inside the System302 Studio, open AssetView toolbox. 3.
- 4. Create a Database ("machine name"\smar2005).
- 5. Under [User Permission] > [Groups] > [Engineer] add "machine user".
- Choose "HSE Ole Server" under OPC Server setting. 6.
- 7. Under [Configure Area] add a consolidated XML file. (see " How to consolidate different areas in one XML file").
- 8. Launch Smar AssetView Server.
- 9. Open Topology.
- 10. Register Devices. Start tracking.
- 11. If necessary to redo any setting, open [System302] > [AssetView] > InstallationGuide.
- 12. To run AssetView Web browser use the Internet Explorer 6 (IE6), (IE7) or (IE8). The link is http://"MachineNameOrIP"//AssetView .
- 13. ServerManager settings for AssetServer station
 - Supervision only
 - MVC disable
 - Update time = 20000
 - NoDataChange Timeout = 40000

How to consolidate different areas in one XML file

- Go to folder [Smar\AssetView\Bin] .
- Open AV_Topology.exe and open first Area file.
- Save as a first XML file.
- Repeat these steps to second Area file.
- Using a XML editor (e.g Notepad++), open the second XML file and copy the Bridges section. Insert these Bridges from second XML file to first XML file, generating a third XML file including all the Bridges inside Topology structure. The merge procedure need to be done carefully. The following example show the Tags structure and where is the position (*) to merge Bridges:

```
<Project><Topology><Bridge "HSE HOST"><Channel>
<Bridge>
<Block>
...
<Channel>
<FF Device>
<Block>
...
</FF Device>
</Channel>
</Bridge>
...
```

(* insert here new Bridges)

</Channel></Bridge></Topology></Project>

Figure D.1. Consolidated XML file