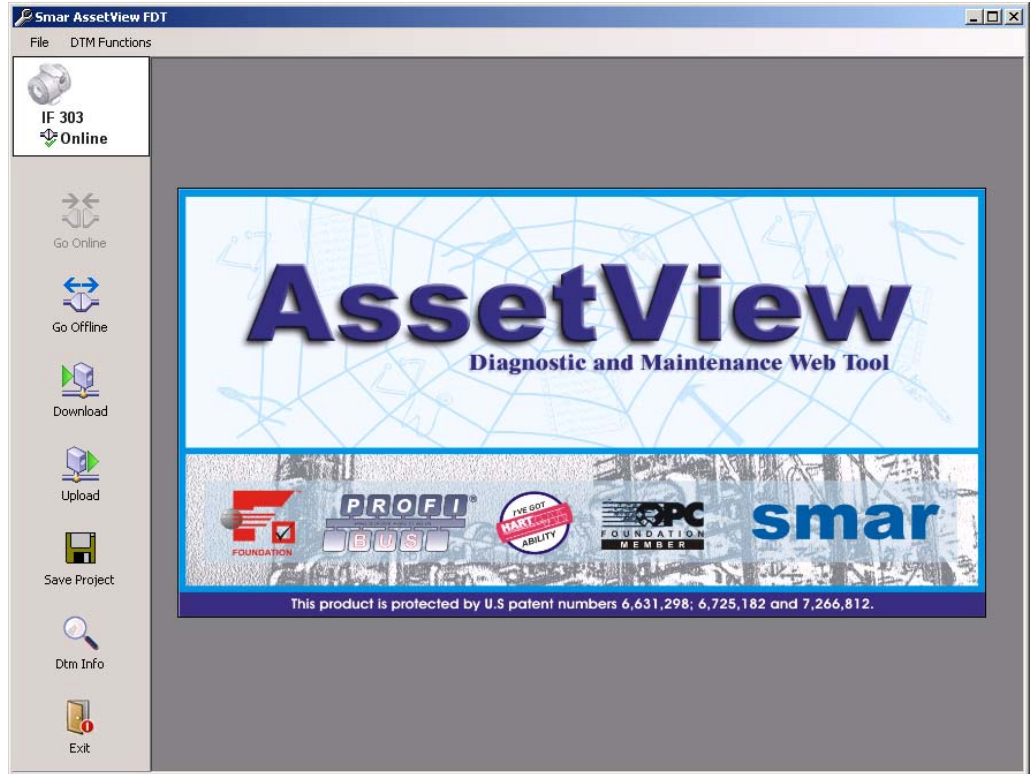


AssetView FDT

smar

AUG / 08
AssetView FDT
VERSION 1.3

AssetView FDT





Specifications and information are subject to change without notice.
Up-to-date address information is available on our website.

web: www.smar.com/contactus.asp

INTRODUCTION

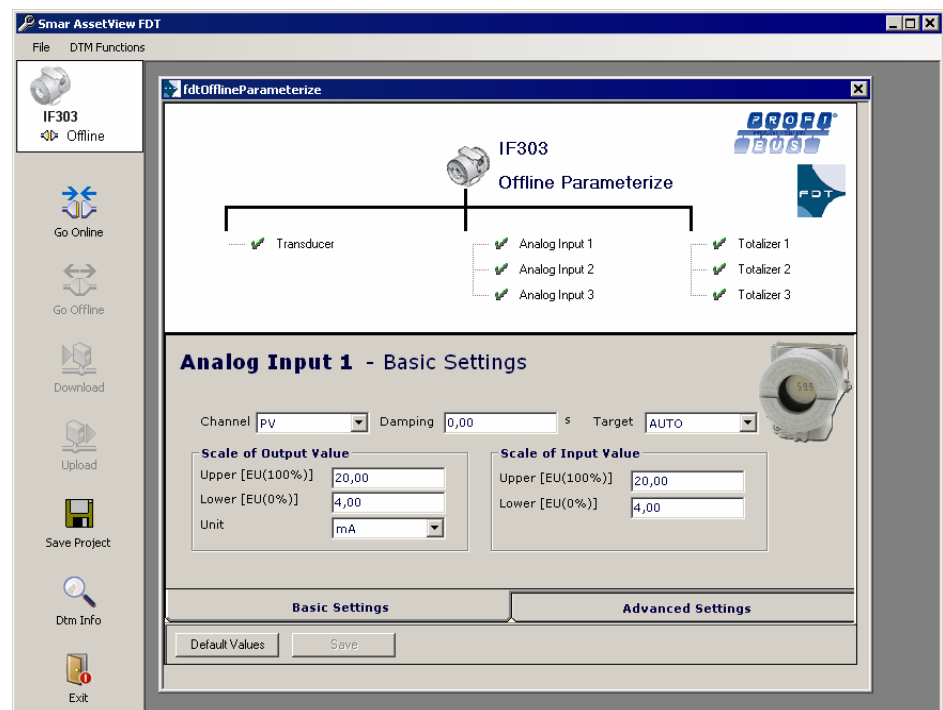
FDT/DTM is the abbreviation for *Field Device Tool* and *Device Type Manager*, two essential elements for a specification based on COM components (ActiveX) with standard interfaces, which integrates devices from different protocols and manufacturers in a single software tool. This specification intends to develop components (or *drivers*) for all field devices in the plant hierarchy, including communication interfaces, gateways and the transmitter itself.

AssetView FDT is the frame application that manages device-specific data and functions from each device encapsulated in software components (DLL, ActiveX, OCX) using a standard communication interface. It provides a graphical interface to the plant; you can create and manage connections between DTMs and communication channels, and access the DTM functionalities, such as online and offline parameterization windows, charts, calibration methods, etc.

DTMs are drivers for specific functions from every device installed in the plant, from any manufacturer.

The DTM catalog, a list of all DTMs installed in the local machine, is also available for Smar devices.

AssetView FDT is totally integrated with **Studio302** and the other **System302 v7.1.2** tools. Therefore, you can use FDT/DTM technology and DDs simultaneously, or other technology that provides access to field devices, such as web pages developed for **AssetView**.



ASSETVIEW FDT

Installation

AssetView FDT is installed with **System302**, when the user selects the *Typical* installation mode. For other installation mode, it will be necessary to select **AssetView FDT** from the list of available applications.

ATTENTION
<p>The <i>Typical</i> installation mode install AssetView, AssetView FDT and DTMs from the <i>Device Library</i> only if the Internet Information Services (IIS) version 5.0 or higher is installed and running in the local machine.</p> <p>Otherwise, during the System302 installation, select the <i>Custom</i> installation mode and mark AssetView from the list of available tools.</p> <p>Refer to the System302 Installation Guide for further details about the installation procedure.</p>

Follow the instructions in the dialog boxes to complete the installation.

Remember that it is necessary to validate the hard key to execute **AssetView FDT**. A specific number of field devices will be managed according to the license option select by the user. Refer to the **System302 Installation Guide** for details about license keys for Smar tools.

Starting AssetView FDT

AssetView FDT is executed from the **Field Devices List** dialog box in **Studio302**. Select **Start > Programs > System302 > Studio302** and click **Studio302**.

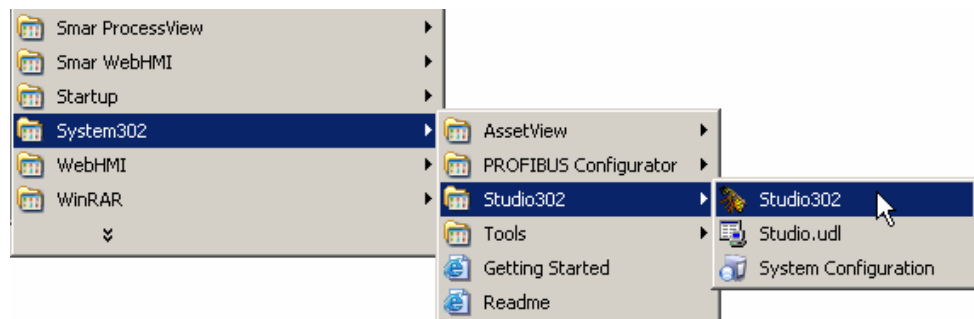


Figure 1.1. Starting Studio302

Type the user name and password to execute **Studio302**.

On the **Studio302** main toolbar, click the button **Online Communication**  to start the communication with the OPC Servers.

Then, click the **Field Devices** icon in the topology to open the **Field Devices List** dialog box:

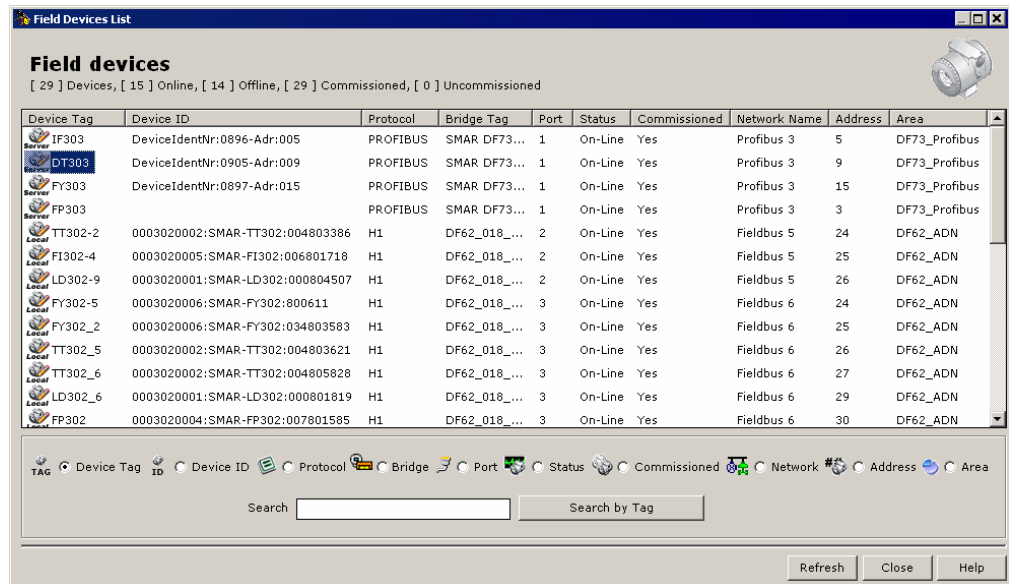


Figure 1.2. Field Devices List

IMPORTANT

The device must have been properly configured in the Profibus network to enable the **AssetView FDT** functionalities.

Therefore, it is necessary to create a Profibus project configuration and add a Profibus controller using **Syscon**, and then configure the master and slave devices in the communication network using **Network Configurator**. After configuring the Profibus controller and the devices, download the network configuration to the physical devices using **Syscon**.

At this point, the Profibus devices are listed in the **Field Devices List** dialog box and the option to access **AssetView FDT** is enabled.

Refer to the **Syscon User's Manual** for details on how to create and configure a Profibus network.

On the **Field Devices List** dialog box, right-click the icon of the device and select the option **Acyclic Configuration FDT**. See the example in the figure below:

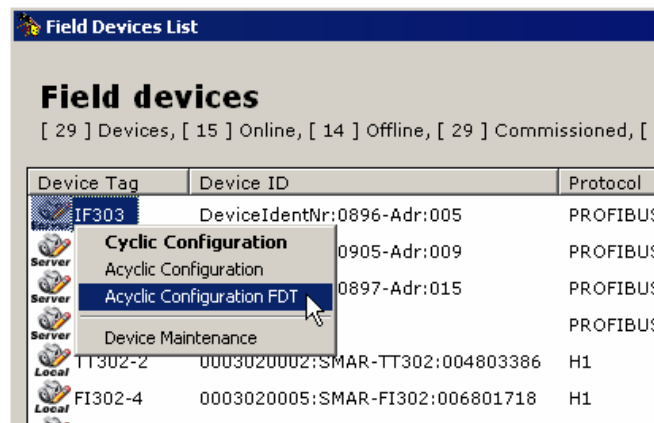


Figure 1.3. Selecting the Acyclic FDT Configuration

When **AssetView FDT** is executed for the first time, the DTM catalog is created. Depending on the number of field devices in the project configuration, wait a few seconds while the catalog is created.

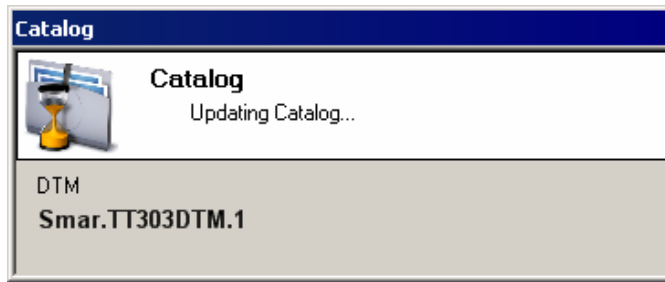


Figure 1.4. Creating the Catalog

The **AssetView FDT** window shows the offline parameterization window for the device previously selected in the **Field Devices List** dialog box. See the example below:

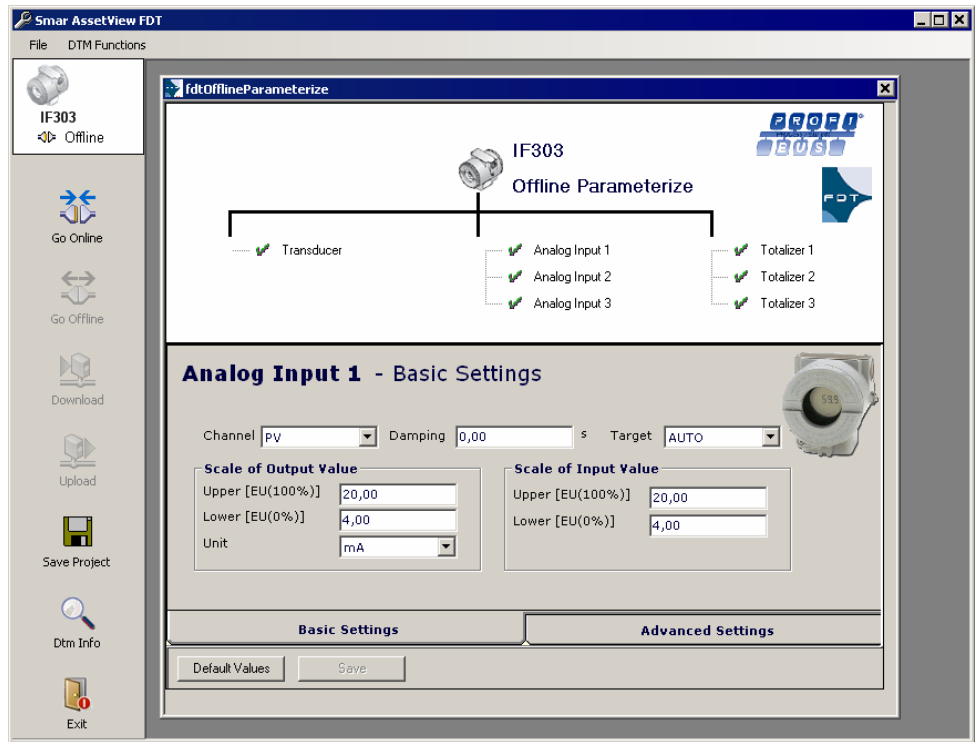


Figure 1.5. Example of Offline Parameterization

The following subsections describe menus and functionalities available in **AssetView FDT**. For details about the DTMs from Smar devices, refer to the **User's Manual** corresponding to the device's DTM. This manual is available on the **System302** Documentation CD and also at the Smar's web site.

AssetView FDT Interface

Main functions for **AssetView FDT** are available in the side menu, in the **AssetView FDT** window. The table below describes the functionalities:



This icon indicates the communication status for the device.



Click this button to start the communication and execute the **online** parameterization for the device. Refer to subsection **On-line Parameterization**.



Click this button to stop the communication and return to the **offline** mode.



Click this button to download the device configuration, sending new parameter values configured in **AssetView FDT** to the physical device. Refer to subsection **Executing the Download**.



Click this button to read parameter values from the physical device and update the information in the **AssetView FDT** window. Refer to subsection **Executing the Upload**.



Click this button to save the alterations to the project file corresponding to the device.



Click this button to view additional information from the DTM.



Click this button to close the **AssetView FDT** window and return to **Studio302**.

Using AssetView FDT

Off-line Parameterization

When you select the option **Acyclic Configuration FDT** for a Profibus device in the **Field Devices List** dialog box, in **Studio302**, **AssetView FDT** opens the offline parameterization window corresponding to the selected device and list the parameters to be configured by the user.

The upper part of the parameterization window shows the blocks created in the device, for example:

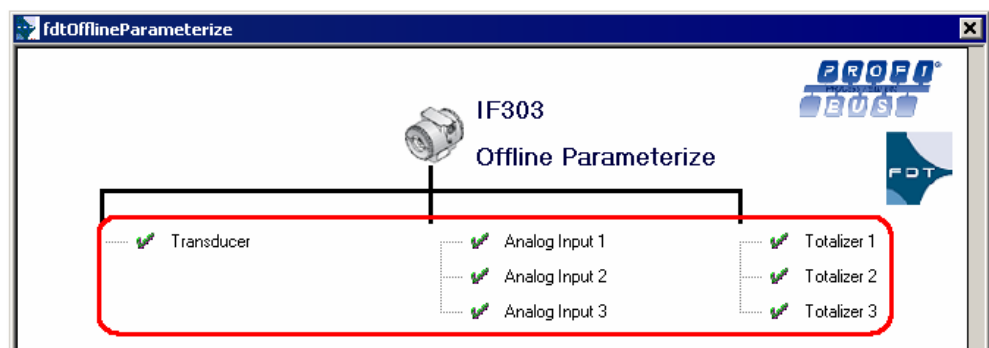


Figure 1.6. Selecting a Block for Parameterization

In **offline** mode, the values of the parameters are altered in the project file corresponding to the device.

Click the block name to visualize the parameters. The block parameters are shown at the bottom of

the parameterization window.

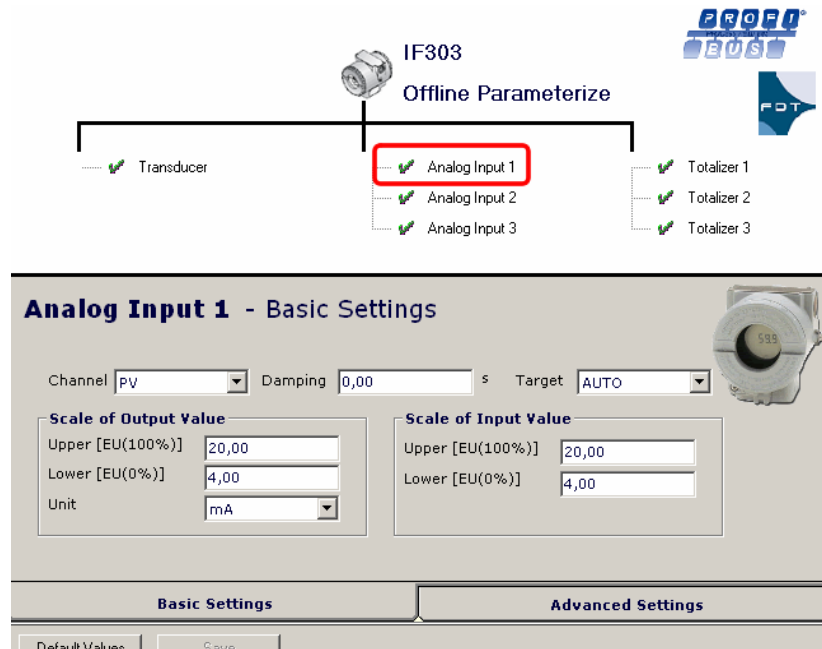


Figure 1.7. Editing Parameters

To edit the parameter value, click the text box and type the new value (or select the value from a drop down menu). When the parameter is altered, the text box is highlighted and the button **Save** is enabled.

After editing the parameters, click **Save** to confirm the alterations. Remember that the values of the parameters were edited only in the device configuration file and therefore, it is necessary to download the new parameter values to the physical device. Refer to subsection **Executing the Download**.

IMPORTANT

The **Save** button simply confirms the alterations made to the values of the parameters, but it **does not save** the information in the project file. To save the new values configured for the parameters, click the button **Save Project** on the side menu **before** closing the **AssetView FDT** window.

On-line Parameterization

Use the on-line parameterization window to alter the parameter value in the physical device.

First, start the plant communication clicking the button **Go Online** on the side menu, in the **AssetView FDT** window.

Wait until the DTM is stable and the status of the communication changes to **Online** mode.

Go to the **DTM Functions** menu and select the option **Online Parameter** to open the online parameterization window. This window shows values read directly from the physical device installed in the plant.

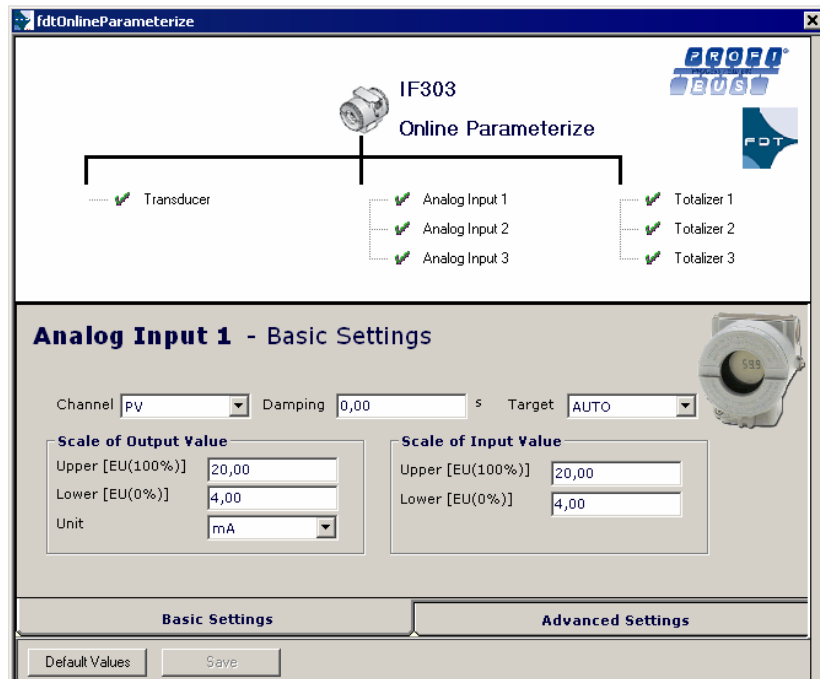


Figure 1.8. Example of Online Parameterization

ATTENTION

Other options related to online parameterization for devices, such as configuring diagnostic parameters, are available in the menu when implemented by the device's manufacturer. Refer to the user's manual from the related device for further details about DTM functions implemented by the manufacturer.

Executing the Download

After editing the values for the device parameters in **offline** mode, it is necessary to download the new configuration to the physical device installed in the plant. After the download, new values can be properly monitored by **Studio302** and **AssetView**, for example.

Click the option **Go Online** on the side menu, in the **AssetView FDT** window, to start the communication. Then, click the option **Download**.

Wait a few seconds while the device configuration is downloaded.

Executing the Upload

When the parameter value is altered in the online parameterization window, the value is written directly to the physical device, but it is **not saved** in the project configuration file.

Execute the *Upload* procedure to read the information from the plant control strategy and update the values of the parameters in the **AssetView FDT** window.

On the **AssetView FDT** side menu, click the option **Upload**. Wait a few seconds while the information is read from the physical device.

Remember to click the button **Save Project** on the side menu **before** closing the **AssetView FDT** window to save the alterations to the device's project file.

