

IND360

VIM2 PROFINET Integration



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Notice: Version and Format Information

VIMNet Explorer	V9.6.3.1	
DeltaV Explorer	V14.3.1	Build 7282
SAI Data Format	8-Block Format 2-Block Format	
GSDML File	GSDML-V2.35-MT-IND360-20200527	
IND360 Device Firmware Version	IND360_WebUpgrade_Analog_Method2_Step1_2.07.0000.mtb IND360_WebUpgrade_Analog_Method2_Step2_Stack_1.02.0003.mtb	

1 DeltaV Virtual IO Module 2 PROFINET Integration

1.1. Requirements

The requirements for running VIMNet Explorer are:

- Launch the **VIMNet Explorer** with Administrator privileges to prevent issues when the application accesses the network's PC interface.
- Disable firewalls and anti-virus to prevent them from filtering communication between VIMNet Explorer and VIMs across the network.

1.2. Procedures

1.2.1. Add GSDML File to PROFINET Definition Library in VIMNet Explorer

1. To open the VIMNet Explorer, type "VIMNet Explorer" in the search box.
2. Select **Run as administrator** to open the VIMNet Explorer.

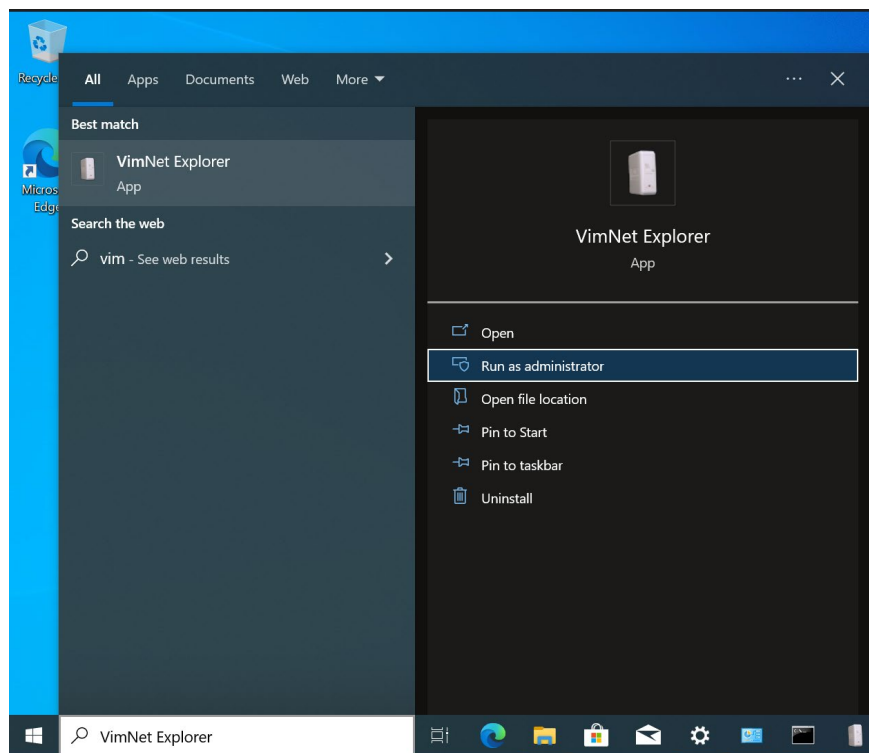


Figure 1-1: Running VMNet Explorer

3. In VIMNet Explorer, right-click on **PROFINET Definition Library** and select **Add Connection Definition**.

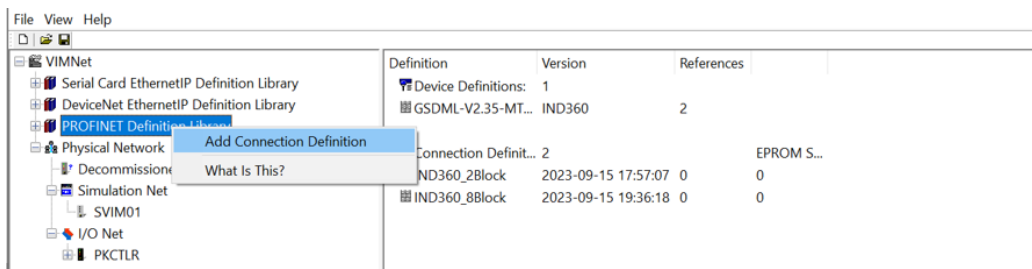


Figure 1-2: Adding a Connection Definition

4. The **GSDML Definition VIM Mapping** screen will display. Select the correct PROFINET GSDML device definition file to import.

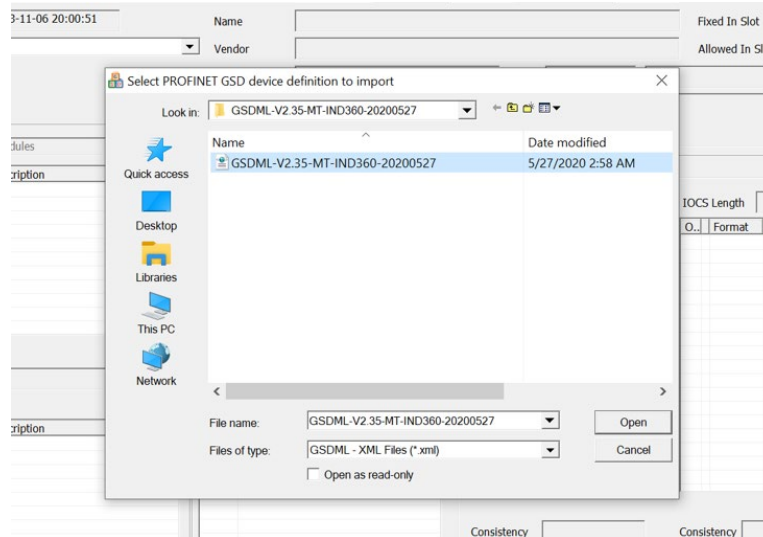


Figure 1-3: Selecting a GSDML Device Definition File

5. Once the GSDML is imported, edit it as required by the desired format:
 - a. For the 2-Block Format:
 - i. Name the definition. E.g. **IND360_2Block** [1].
 - ii. Select the access point to 2Block Format [2].
 - iii. Click **OK** [3].

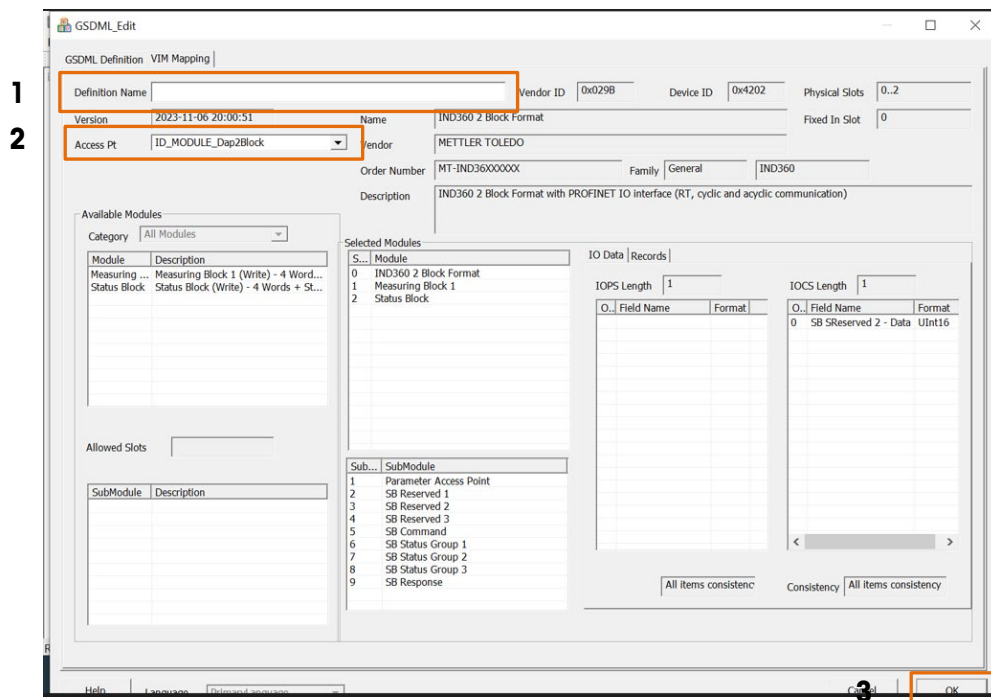


Figure 1-4: GSDML Edit Screen

- a. For the 8-Block Format:
 - iv. Name the definition. E.g. **IND360_8Block** [1].

- v. Select the access point to 8Block Format [2].
- vi. Click OK [3].

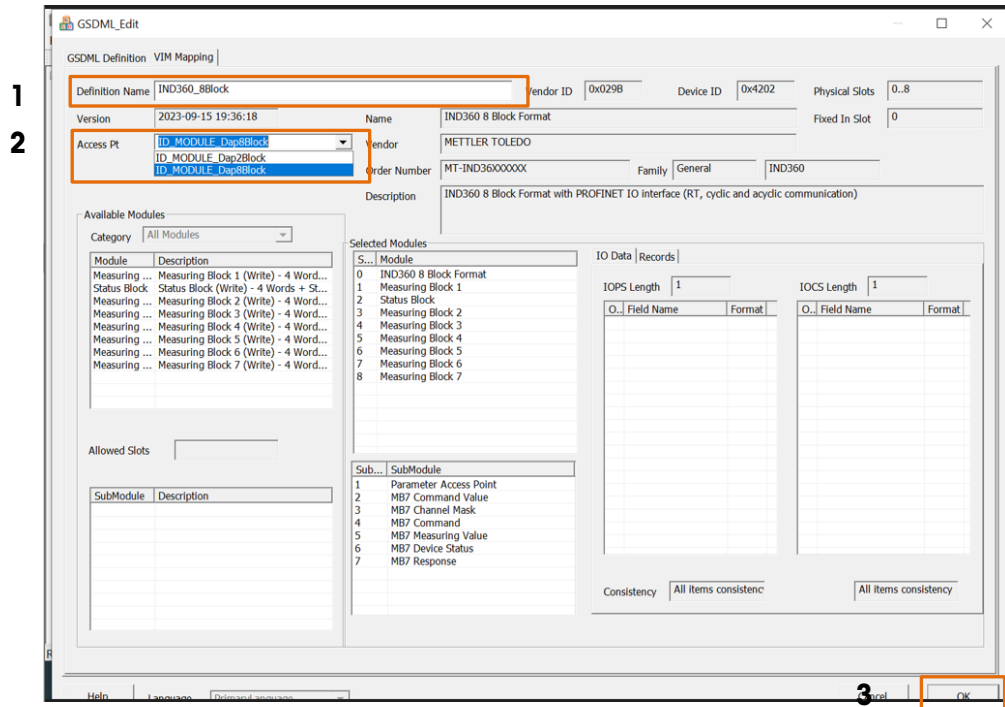


Figure 1-5: GSDML Edit Screen

1.2.2. Add Connection to the Device

1.2.2.1. Add a Connection

In the left pane of the VIMNet Explorer:

1. Select and expand VIMNet Physical Network [1].
2. Select and expand I/O Net [2].
3. Access PKCTRL (PK Controller) [3]
4. Access preconfigured VIM01 (PROFINET VIM) IO card C57 [4].
5. Expand card C57, right-click on PO1, and Add Connection [5]

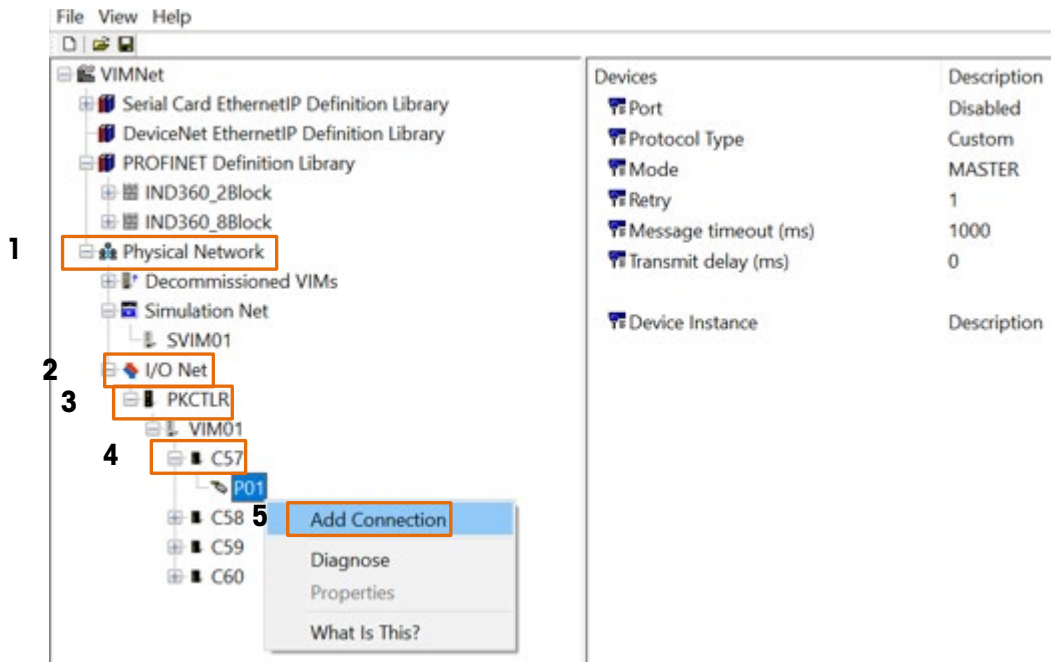


Figure 1-6: Adding a Connection in VIMNet Explorer

1.2.2.2. Configure the PROFINET Connection:

1. Add a description in the Description field [1].
2. Select the desired block format from the Library Definition drop-down list [2].
3. Click on Add to assign the Device IP address [3].

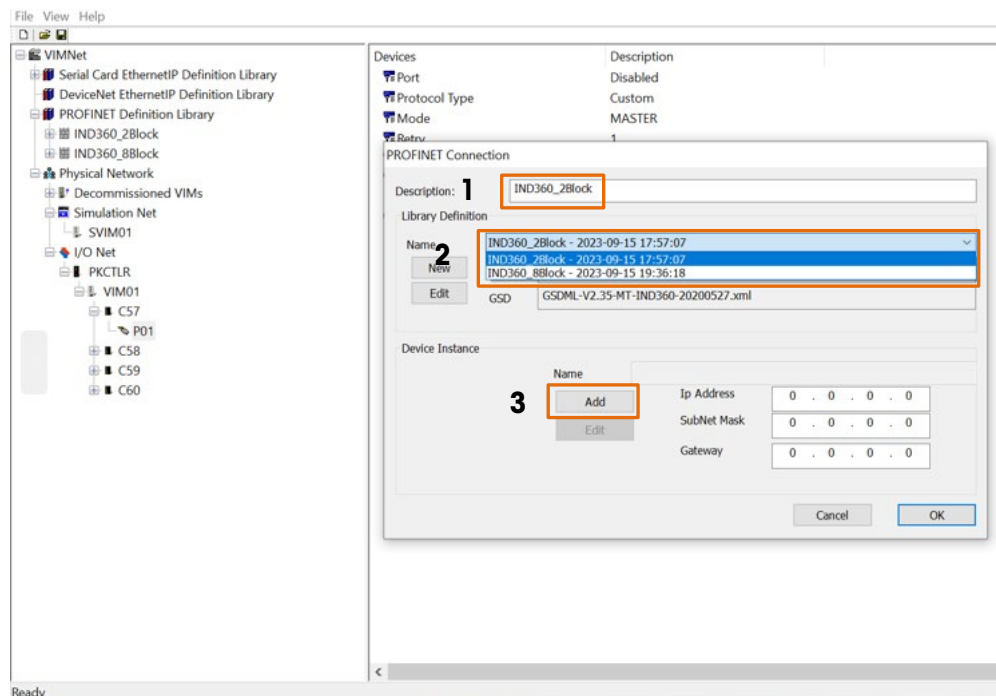


Figure 1-7: Defining the PROFINET Connection

4. Write the **Device Name**, ensuring that it matches the physical device name [4].
5. Assign the device **IP Address**, **Subnet Mask** and **Gateway**, then click **OK** [5].
6. Save the configuration file [6].

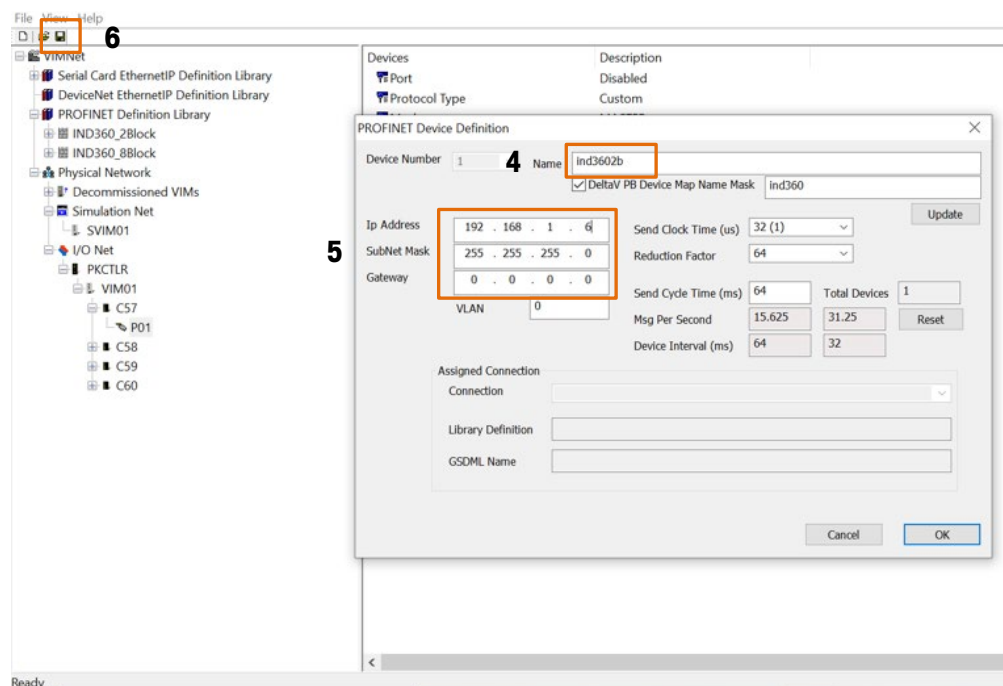


Figure 1-8: Entering the Device Definition

7. The newly created PROFINET connection is displayed in the left pane [7].
8. Verify that the Device Name matches the name of the physical device [8].
9. Verify the VIM IO card **Address** [9].

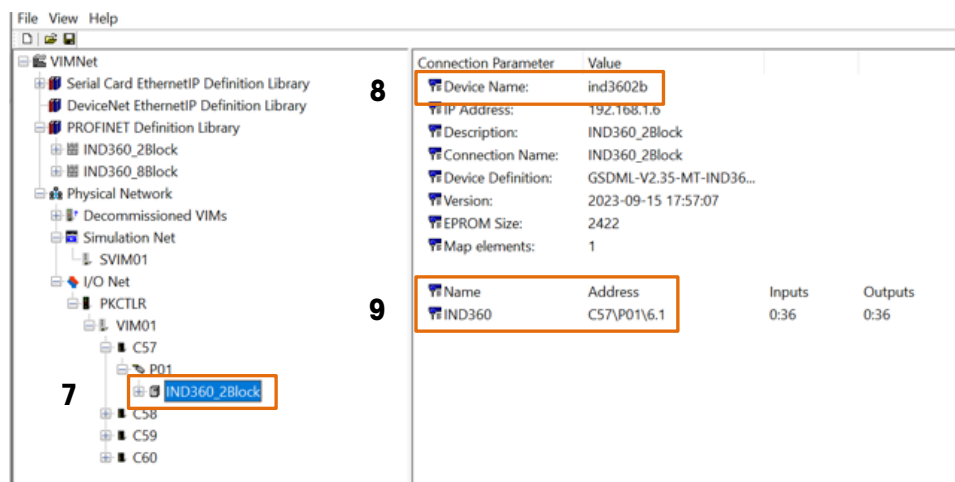


Figure 1-9: PROFINET Connection Displayed in VIMNet Explorer

1.2.2.3. Edit the Device Datasets

IND360 is the dataset of PROFINET device IND360_2Block.

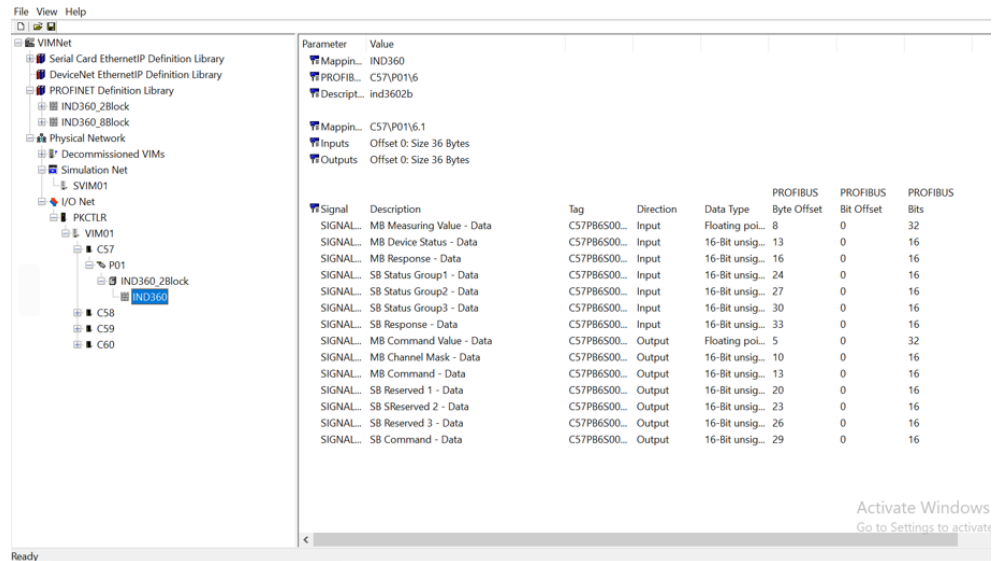


Figure 1-10: IND360 Dataset Displayed in VIMNet Explorer

1. To edit the dataset name, right-click on **IND360** and select **Properties**.

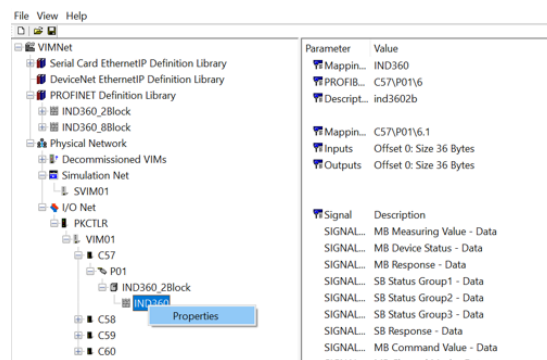


Figure 1-11: Renaming the Dataset

2. A dialog box displays. Complete the **Name** and **Description** fields.

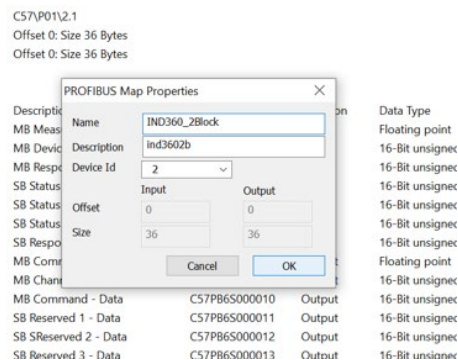


Figure 1-12: Modifying the PROFIBUS Map Properties

3. Verify the edited name.

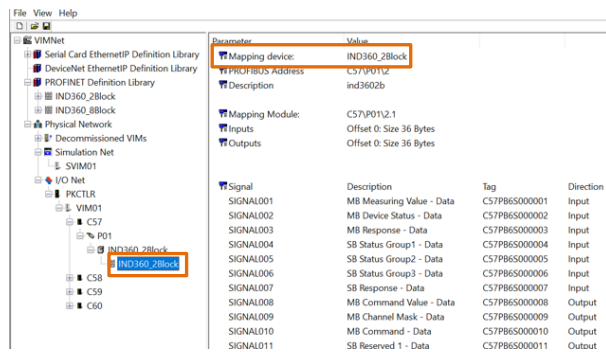


Figure 1-13: Verifying Edited Name

4. Before uploading the configuration to VIM, verify that VIM is in Commission mode. Figure 1-14 shows VIM not in Commission mode. To commission, right click on the **VIM01** card and select **Commission** from the context menu which appears.

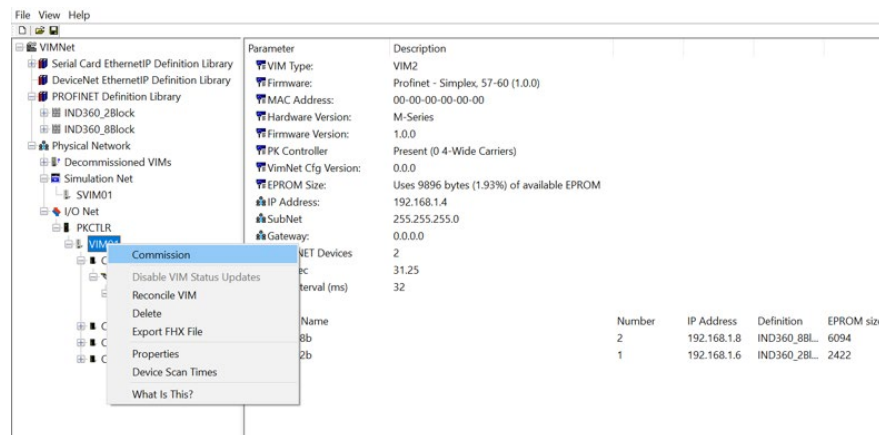


Figure 1-14: VIM Not in Commission Mode

5. In the screen which displays, select the VIM from the decommission list and click **OK**.

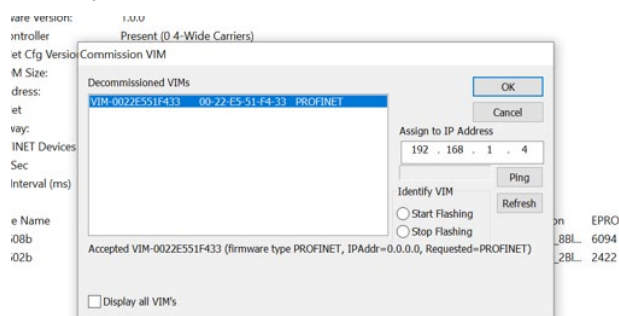


Figure 1-15: Decommissioned VIMs List

6. Save the configuration by clicking the disk icon at upper left.



Figure 1-16: Saving the Configuration

1.2.3. Upload the Configuration to VIM

1. Right-click on VIM01 and select **Upload Configuration to VIM**.

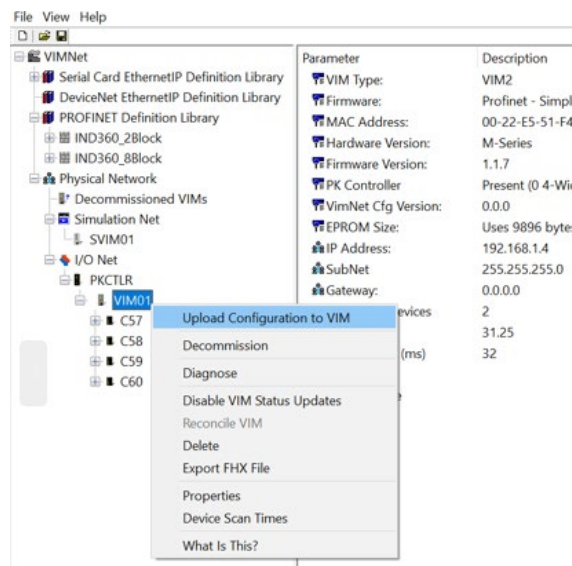


Figure 1-17: Uploading Configuration to VIM

2. The **Confirm Upload** warning will display. Click **Yes** to confirm the upload.

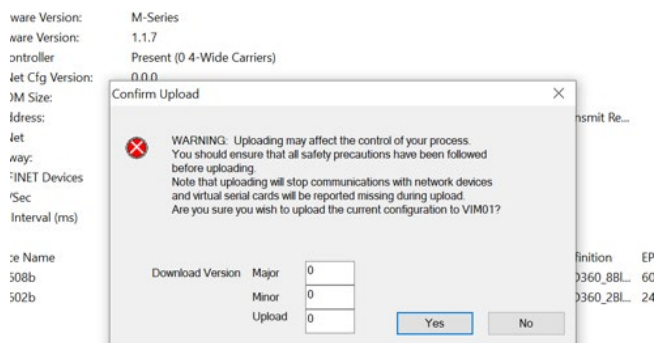


Figure 1-18: Confirm Upload Warning

3. Observe the progress of the upload and, when prompted, click **OK** to complete the process.

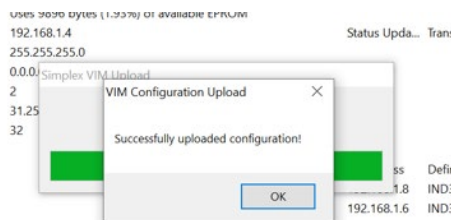


Figure 1-19: Upload Completed Successfully

1.2.4. Export VIM01 FHX File from VIMNet Explorer

1. Ensure that the controller's name in VIMNet Explorer matches the controller name in DeltaV Explorer.
2. Right-click on **VIM01** and select **Export FHX File**.

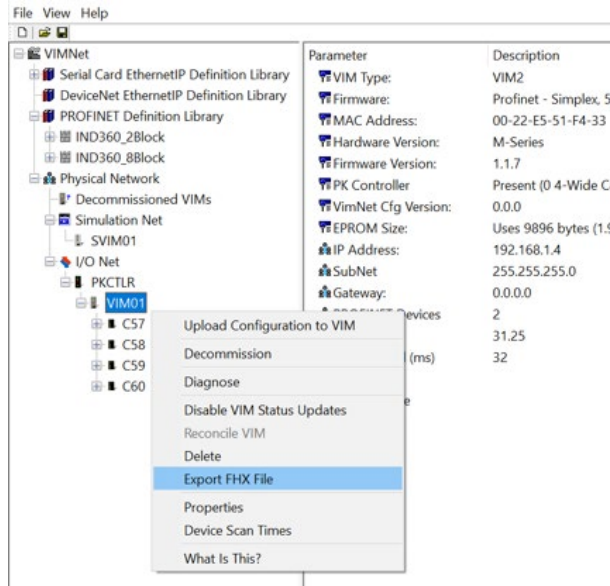


Figure 1-20: Exporting the FHX File

3. Save the FHX file to a known location on the VIMNet Explorer computer.

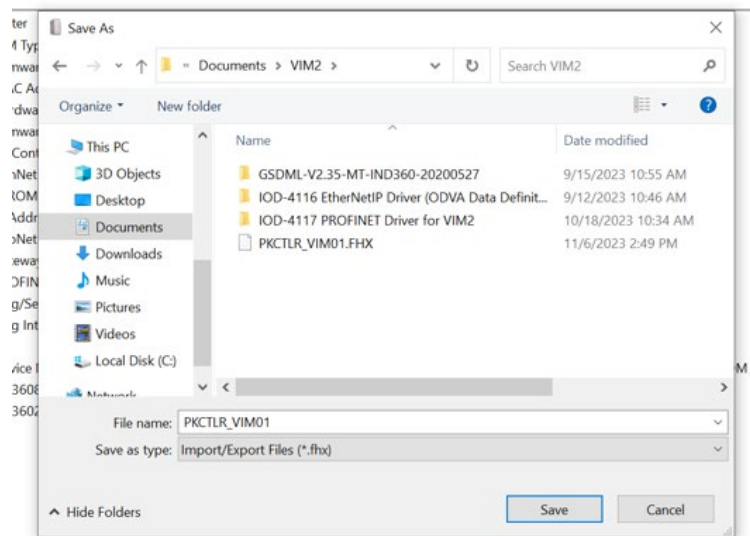


Figure 1-21: Saving the FHX File

4. Select the version number that matches the DeltaV Explorer version.

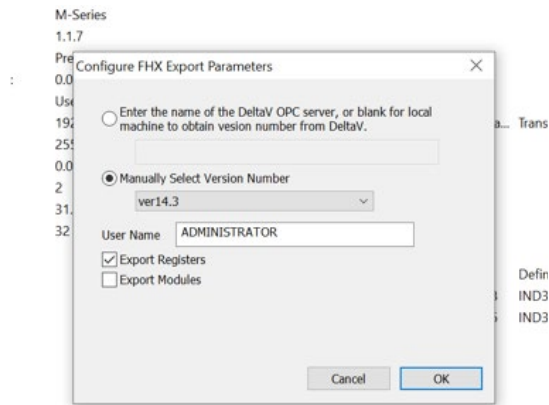


Figure 1-22: Configuring FHX Export Parameters

5. Click the **Export Registers** checkbox and click **OK**.
6. Copy the exported FHX file to the DeltaV ProPlus or Professional Station.

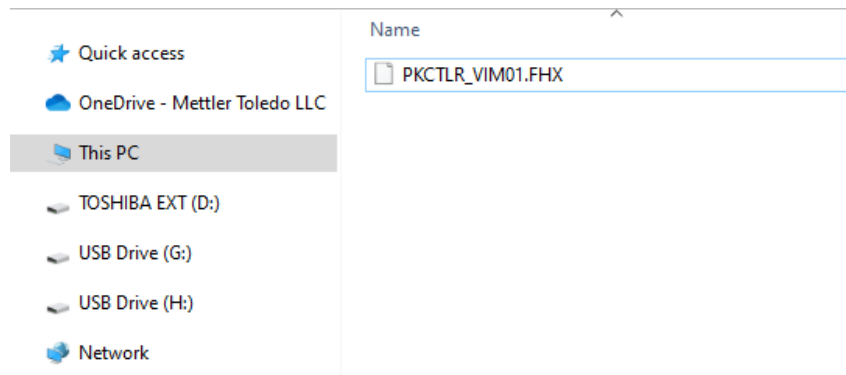


Figure 1-23: Exported FHX File

1.2.5. Import FHX File in DeltaV Explorer

■ This procedure assumes that the PK controller has already been created in DeltaV Explorer.

1. In DeltaV Explorer, access **File > Import > Standard DeltaV Format**.

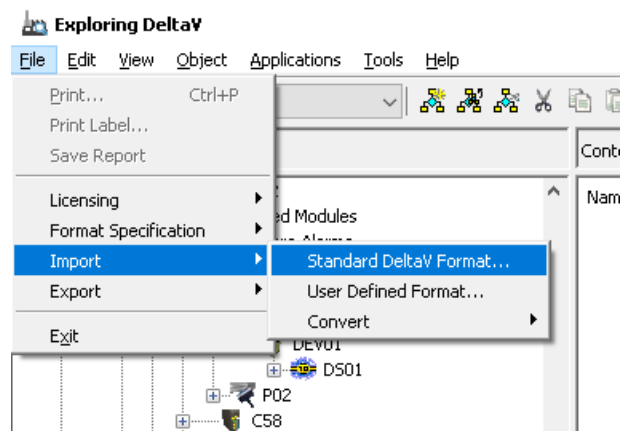


Figure 1-24: Specifying the Import

- From the browser window which displays, select the FHX file previously imported from VIMNet Explorer.

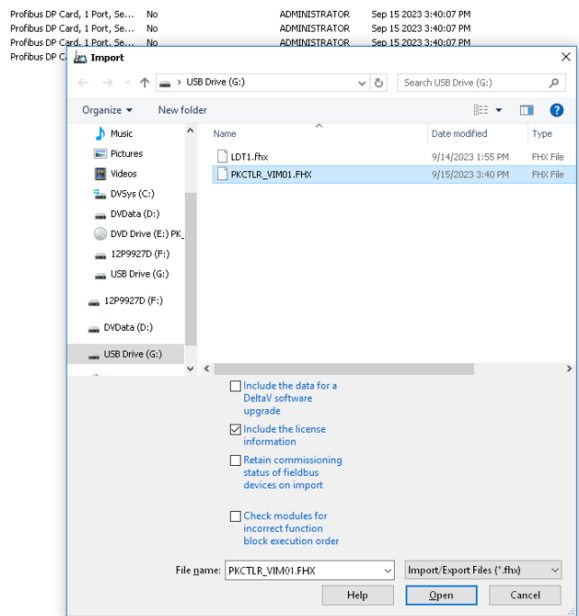


Figure 1-25: Selecting the FHX File

- Confirm that the import has completed successfully, and **Close** the window.

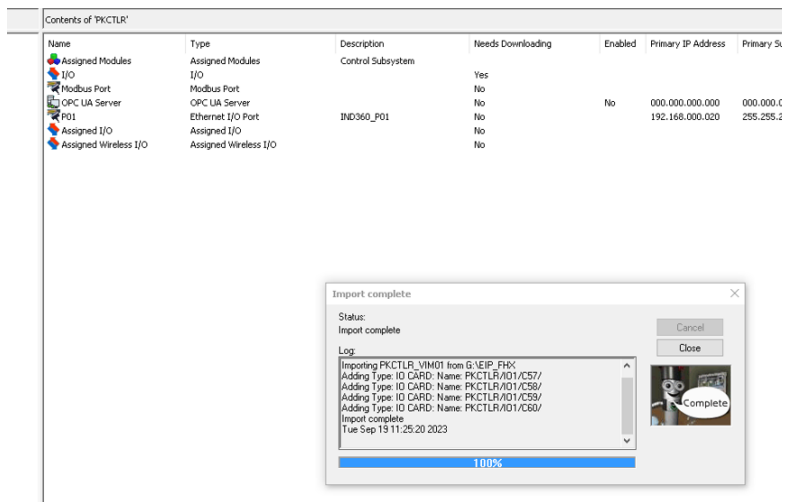


Figure 1-26: FHX File Import Confirmation

- To download the IO update to the PK Controller, right-click on **PKCTRL**, click on **Download**, and then select **PK Controller**.

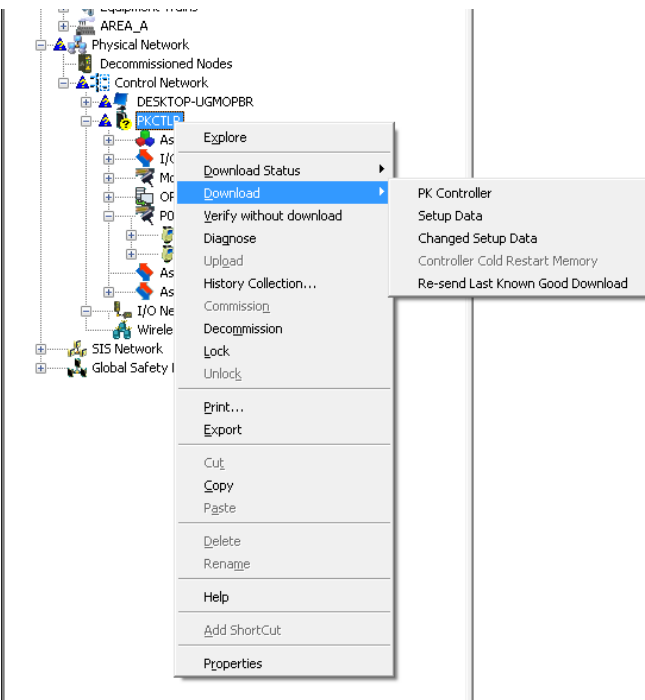


Figure 1-27: Downloading Update to PK Controller

1.2.6. 2-Block Format Dataset Example

1. In the left pane of the DeltaV Explorer window, expand the IO > C57 > P01 > IND360 > SLOTO01 branch to display all the device signals available for the 2-Block Format.

Name	Type	Description	Device Tag	Byte Order	Signal Dir...	Data Type	Byte Offset	Start Bit	Run Bits	Data...	% Of Scale	Modified By	Last Modified
SIGNAL001	Profibus Signal	HB Measuring Value - Data	CS7982000001	Big Endian	Input	Floating point	8	0	32	0	0	DakArSystem	Jul 29 2019 11:35:41 PM
SIGNAL002	Profibus Signal	HB Device Status - Data	CS7982000002	Big Endian	Input	16 bit unsigned integer	13	0	16	0	0	DakArSystem	Jul 29 2019 11:35:41 PM
SIGNAL003	Profibus Signal	HB Response - Data	CS7982000003	Big Endian	Input	16 bit unsigned integer	16	0	16	0	0	DakArSystem	Jul 29 2019 11:35:41 PM
SIGNAL004	Profibus Signal	SB Status Group1 - Data	CS7982000004	Big Endian	Input	16 bit unsigned integer	24	0	16	0	0	DakArSystem	Jul 29 2019 11:35:41 PM
SIGNAL005	Profibus Signal	SB Status Group2 - Data	CS7982000005	Big Endian	Input	16 bit unsigned integer	27	0	16	0	0	DakArSystem	Jul 29 2019 11:35:41 PM
SIGNAL006	Profibus Signal	SB Status Group3 - Data	CS7982000006	Big Endian	Input	16 bit unsigned integer	30	0	16	0	0	DakArSystem	Jul 29 2019 11:35:41 PM
SIGNAL007	Profibus Signal	SB Response - Data	CS7982000007	Big Endian	Input	16 bit unsigned integer	33	0	16	0	0	DakArSystem	Jul 29 2019 11:35:41 PM
SIGNAL008	Profibus Signal	HB Command Value - Data	CS7982000008	Big Endian	Output	Floating point	9	0	32	0	0	DakArSystem	Jul 29 2019 11:35:41 PM
SIGNAL009	Profibus Signal	HB Channel Peak - Data	CS7982000009	Big Endian	Output	16 bit unsigned integer	10	0	16	0	0	DakArSystem	Jul 29 2019 11:35:41 PM
SIGNAL010	Profibus Signal	HB Command - Data	CS7982000010	Big Endian	Output	16 bit unsigned integer	13	0	16	0	0	DakArSystem	Jul 29 2019 11:35:41 PM
SIGNAL011	Profibus Signal	SB Reserved 1 - Data	CS7982000011	Big Endian	Output	16 bit unsigned integer	20	0	16	0	0	DakArSystem	Jul 29 2019 11:35:41 PM
SIGNAL012	Profibus Signal	SB Reserved 2 - Data	CS7982000012	Big Endian	Output	16 bit unsigned integer	23	0	16	0	0	DakArSystem	Jul 29 2019 11:35:41 PM
SIGNAL013	Profibus Signal	SB Reserved 3 - Data	CS7982000013	Big Endian	Output	16 bit unsigned integer	26	0	16	0	0	DakArSystem	Jul 29 2019 11:35:41 PM
SIGNAL014	Profibus Signal	SB Command - Data	CS7982000014	Big Endian	Output	16 bit unsigned integer	29	0	16	0	0	DakArSystem	Jul 29 2019 11:35:41 PM

Figure 1-28: Device Signals Available for 2-Block Format

2. Right-click P01 and make sure the Enabled checkbox is selected.

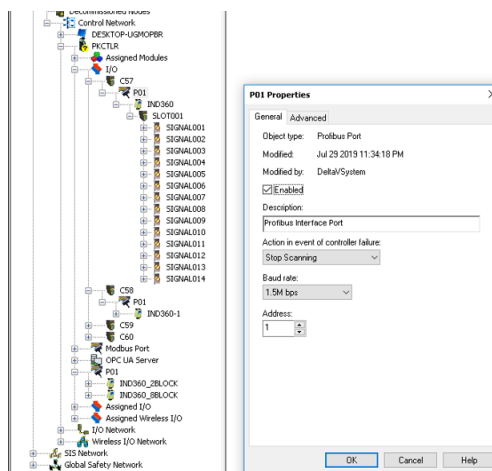


Figure 1-29: P01 Properties Dialog, P01 Enabled

1.2.7. 8-Block Format Dataset Example

The following figures show an example of the 8-Block Format Dataset.

Name	Type	Description	Device Tag	Byte Order	Signal Dir...	Data Type	Byte Offset	Start Bit	Num Bits	Dis...	0% of Scale	Modified By	Last Modified
SIGNAL001	Profibus Signal	HB Measuring Value - Data	CSRPES2000001	Big Endian	Input	Floating point	9	0	32	0	0	DeltaV/System	Jul 29 2019 11:35:41 PM
SIGNAL002	Profibus Signal	HB Device Status - Data	CSRPES2000002	Big Endian	Input	16 bit unsigned integer	13	0	16	0	0	DeltaV/System	Jul 29 2019 11:35:41 PM
SIGNAL003	Profibus Signal	HB Response - Data	CSRPES2000003	Big Endian	Input	16 bit unsigned integer	16	0	16	0	0	DeltaV/System	Jul 29 2019 11:35:41 PM
SIGNAL004	Profibus Signal	SB Status Group 1 - Data	CSRPES2000004	Big Endian	Input	16 bit unsigned integer	24	0	16	0	0	DeltaV/System	Jul 29 2019 11:35:41 PM
SIGNAL005	Profibus Signal	SB Status Group 2 - Data	CSRPES2000005	Big Endian	Input	16 bit unsigned integer	27	0	16	0	0	DeltaV/System	Jul 29 2019 11:35:41 PM
SIGNAL006	Profibus Signal	SB Response - Data	CSRPES2000006	Big Endian	Input	16 bit unsigned integer	30	0	16	0	0	DeltaV/System	Jul 29 2019 11:35:41 PM
SIGNAL007	Profibus Signal	HB Measuring Value - Data	CSRPES2000007	Big Endian	Input	16 bit unsigned integer	33	0	16	0	0	DeltaV/System	Jul 29 2019 11:35:41 PM
SIGNAL008	Profibus Signal	HB Device Status - Data	CSRPES2000008	Big Endian	Input	Floating point	40	0	32	0	0	DeltaV/System	Jul 29 2019 11:35:41 PM
SIGNAL009	Profibus Signal	HB Response - Data	CSRPES2000009	Big Endian	Input	16 bit unsigned integer	45	0	16	0	0	DeltaV/System	Jul 29 2019 11:35:41 PM
SIGNAL010	Profibus Signal	HB3 Measuring Value - Data	CSRPES2000010	Big Endian	Input	16 bit unsigned integer	48	0	16	0	0	DeltaV/System	Jul 29 2019 11:35:41 PM
SIGNAL011	Profibus Signal	HB3 Device Status - Data	CSRPES2000011	Big Endian	Input	Floating point	55	0	32	0	0	DeltaV/System	Jul 29 2019 11:35:41 PM
SIGNAL012	Profibus Signal	HB3 Command Value - Data	CSRPES2000012	Big Endian	Input	16 bit unsigned integer	60	0	16	0	0	DeltaV/System	Jul 29 2019 11:35:41 PM
SIGNAL013	Profibus Signal	HB Command Value - Data	CSRPES2000013	Big Endian	Output	Floating point	5	0	32	0	0	DeltaV/System	Jul 29 2019 11:35:41 PM
SIGNAL014	Profibus Signal	HB Channel Mask - Data	CSRPES2000014	Big Endian	Output	16 bit unsigned integer	10	0	16	0	0	DeltaV/System	Jul 29 2019 11:35:41 PM
SIGNAL015	Profibus Signal	HB Command - Data	CSRPES2000015	Big Endian	Output	16 bit unsigned integer	13	0	16	0	0	DeltaV/System	Jul 29 2019 11:35:41 PM
SIGNAL016	Profibus Signal	SB Reserved 1 - Data	CSRPES2000016	Big Endian	Output	16 bit unsigned integer	20	0	16	0	0	DeltaV/System	Jul 29 2019 11:35:41 PM
SIGNAL017	Profibus Signal	SB Reserved 2 - Data	CSRPES2000017	Big Endian	Output	16 bit unsigned integer	23	0	16	0	0	DeltaV/System	Jul 29 2019 11:35:41 PM
SIGNAL018	Profibus Signal	SB Reserved 3 - Data	CSRPES2000018	Big Endian	Output	16 bit unsigned integer	26	0	16	0	0	DeltaV/System	Jul 29 2019 11:35:41 PM
SIGNAL019	Profibus Signal	HB Command - Data	CSRPES2000019	Big Endian	Output	16 bit unsigned integer	29	0	16	0	0	DeltaV/System	Jul 29 2019 11:35:41 PM
SIGNAL020	Profibus Signal	HB Command Value - Data	CSRPES2000020	Big Endian	Output	Floating point	37	0	32	0	0	DeltaV/System	Jul 29 2019 11:35:41 PM
SIGNAL021	Profibus Signal	HB Channel Mask - Data	CSRPES2000021	Big Endian	Output	16 bit unsigned integer	42	0	16	0	0	DeltaV/System	Jul 29 2019 11:35:41 PM
SIGNAL022	Profibus Signal	HB3 Command Value - Data	CSRPES2000022	Big Endian	Output	16 bit unsigned integer	45	0	16	0	0	DeltaV/System	Jul 29 2019 11:35:41 PM
SIGNAL023	Profibus Signal	HB3 Channel Mask - Data	CSRPES2000023	Big Endian	Output	Floating point	52	0	32	0	0	DeltaV/System	Jul 29 2019 11:35:41 PM
SIGNAL024	Profibus Signal	HB3 Command - Data	CSRPES2000024	Big Endian	Output	16 bit unsigned integer	57	0	16	0	0	DeltaV/System	Jul 29 2019 11:35:41 PM
SIGNAL025	Profibus Signal	HB3 Command - Data	CSRPES2000025	Big Endian	Output	16 bit unsigned integer	60	0	16	0	0	DeltaV/System	Jul 29 2019 11:35:41 PM

Figure 1-30: 8-Block Format Dataset, Screen 1

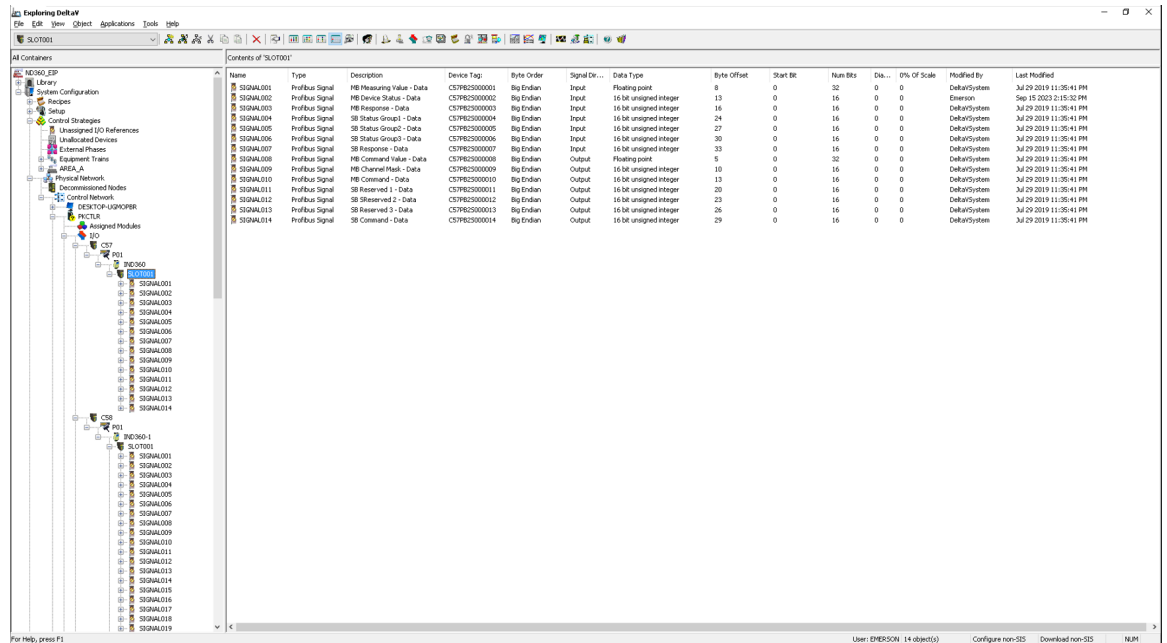


Figure 1-31: 8-Block Format Dataset, Screen 2

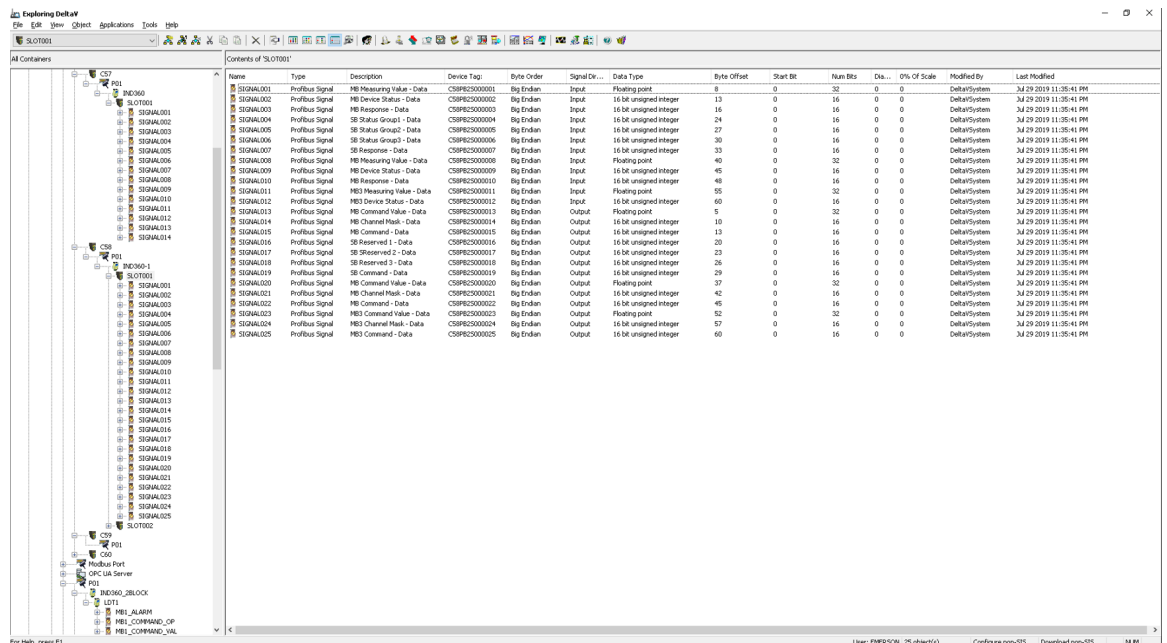


Figure 1-32: 8-Block Format Dataset, Screen 3

Exploring DeltaV

File Edit View Object Applications Tools Help

8-Block Format Dataset

Contents of 8-Block Format Dataset

Name	Type	Description	Device Tag	Byte Order	Signal Dir...	Data Type	Byte Offset	Start Bit	Num Bits	Dis...	0% of Scale	Modified By	Last Modified
SIGNAL001	Profibus Signal	HMS Response - Data	CSP82000001	Big Endian	Input	16 bit unsigned integer	0	0	16	0	0	DeltaVSystem	Jul 29 2019 11:35:41 PM
SIGNAL002	Profibus Signal	HMS Measuring Value - Data	CSP82000002	Big Endian	Input	Floating point	7	0	32	0	0	DeltaVSystem	Jul 29 2019 11:35:41 PM
SIGNAL003	Profibus Signal	HMS Device Status - Data	CSP82000003	Big Endian	Input	16 bit unsigned integer	12	0	16	0	0	DeltaVSystem	Jul 29 2019 11:35:41 PM
SIGNAL004	Profibus Signal	HMS Response - Data	CSP82000004	Big Endian	Input	16 bit unsigned integer	15	0	16	0	0	DeltaVSystem	Jul 29 2019 11:35:41 PM
SIGNAL005	Profibus Signal	HMS Measuring Value - Data	CSP82000005	Big Endian	Input	Floating point	22	0	32	0	0	DeltaVSystem	Jul 29 2019 11:35:41 PM
SIGNAL006	Profibus Signal	HMS Device Status - Data	CSP82000006	Big Endian	Input	16 bit unsigned integer	27	0	16	0	0	DeltaVSystem	Jul 29 2019 11:35:41 PM
SIGNAL007	Profibus Signal	HMS Response - Data	CSP82000007	Big Endian	Input	16 bit unsigned integer	30	0	16	0	0	DeltaVSystem	Jul 29 2019 11:35:41 PM
SIGNAL008	Profibus Signal	HMS Measuring Value - Data	CSP82000008	Big Endian	Input	Floating point	37	0	32	0	0	DeltaVSystem	Jul 29 2019 11:35:41 PM
SIGNAL009	Profibus Signal	HMS Device Status - Data	CSP82000009	Big Endian	Input	16 bit unsigned integer	42	0	16	0	0	DeltaVSystem	Jul 29 2019 11:35:41 PM
SIGNAL010	Profibus Signal	HMS Response - Data	CSP82000010	Big Endian	Input	16 bit unsigned integer	45	0	16	0	0	DeltaVSystem	Jul 29 2019 11:35:41 PM
SIGNAL011	Profibus Signal	HMS Measuring Value - Data	CSP82000011	Big Endian	Input	Floating point	52	0	32	0	0	DeltaVSystem	Jul 29 2019 11:35:41 PM
SIGNAL012	Profibus Signal	HMS Device Status - Data	CSP82000012	Big Endian	Input	16 bit unsigned integer	57	0	16	0	0	DeltaVSystem	Jul 29 2019 11:35:41 PM
SIGNAL013	Profibus Signal	HMS Response - Data	CSP82000013	Big Endian	Input	16 bit unsigned integer	60	0	16	0	0	DeltaVSystem	Jul 29 2019 11:35:41 PM
SIGNAL014	Profibus Signal	HMS Command Value - Data	CSP82000014	Big Endian	Output	Floating point	3	0	32	0	0	DeltaVSystem	Jul 29 2019 11:35:41 PM
SIGNAL015	Profibus Signal	HMS Channel Mask - Data	CSP82000015	Big Endian	Output	16 bit unsigned integer	8	0	16	0	0	DeltaVSystem	Jul 29 2019 11:35:41 PM
SIGNAL016	Profibus Signal	HMS Command - Data	CSP82000016	Big Endian	Output	16 bit unsigned integer	11	0	16	0	0	DeltaVSystem	Jul 29 2019 11:35:41 PM
SIGNAL017	Profibus Signal	HMS Command Value - Data	CSP82000017	Big Endian	Output	Floating point	18	0	32	0	0	DeltaVSystem	Jul 29 2019 11:35:41 PM
SIGNAL018	Profibus Signal	HMS Channel Mask - Data	CSP82000018	Big Endian	Output	16 bit unsigned integer	23	0	16	0	0	DeltaVSystem	Jul 29 2019 11:35:41 PM
SIGNAL019	Profibus Signal	HMS Command - Data	CSP82000019	Big Endian	Output	16 bit unsigned integer	26	0	16	0	0	DeltaVSystem	Jul 29 2019 11:35:41 PM
SIGNAL020	Profibus Signal	HMS Command Value - Data	CSP82000020	Big Endian	Output	Floating point	33	0	32	0	0	DeltaVSystem	Jul 29 2019 11:35:41 PM
SIGNAL021	Profibus Signal	HMS Channel Mask - Data	CSP82000021	Big Endian	Output	16 bit unsigned integer	36	0	16	0	0	DeltaVSystem	Jul 29 2019 11:35:41 PM
SIGNAL022	Profibus Signal	HMS Command - Data	CSP82000022	Big Endian	Output	16 bit unsigned integer	41	0	16	0	0	DeltaVSystem	Jul 29 2019 11:35:41 PM
SIGNAL023	Profibus Signal	HMS Command Value - Data	CSP82000023	Big Endian	Output	Floating point	48	0	32	0	0	DeltaVSystem	Jul 29 2019 11:35:41 PM
SIGNAL024	Profibus Signal	HMS Channel Mask - Data	CSP82000024	Big Endian	Output	16 bit unsigned integer	53	0	16	0	0	DeltaVSystem	Jul 29 2019 11:35:41 PM
SIGNAL025	Profibus Signal	HMS Command - Data	CSP82000025	Big Endian	Output	16 bit unsigned integer	56	0	16	0	0	DeltaVSystem	Jul 29 2019 11:35:41 PM

For help, press F1

User: EMBERSON_25 (object) Configure non-SES Download non-SES NUM

Figure 1-33: 8-Block Format Dataset, Screen 4

1.2.8. View Dataset Registers Value in DeltaV Diagnostics

The following figures show the Diagnostics view of DeltaV dataset registers.

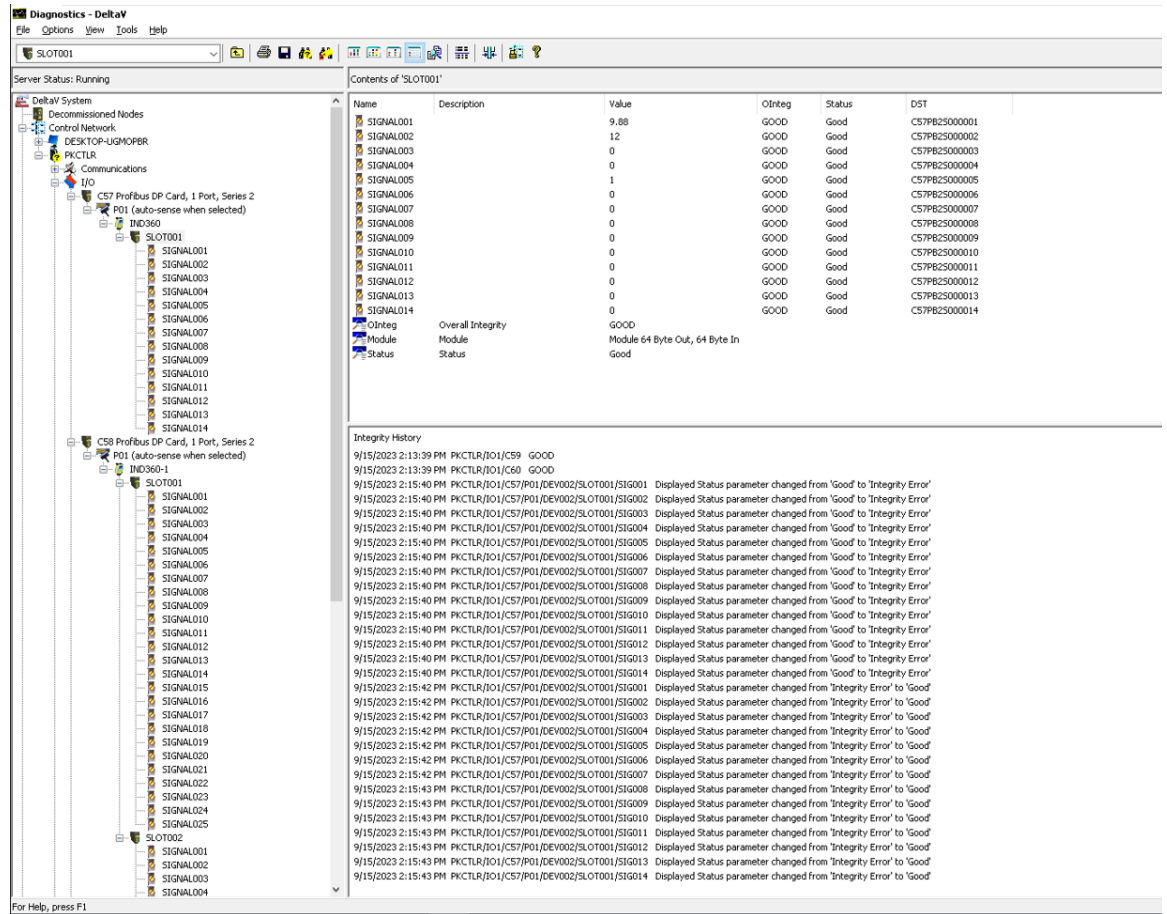


Figure 1-34: Diagnostics – Dataset Registers Value, Screen 1

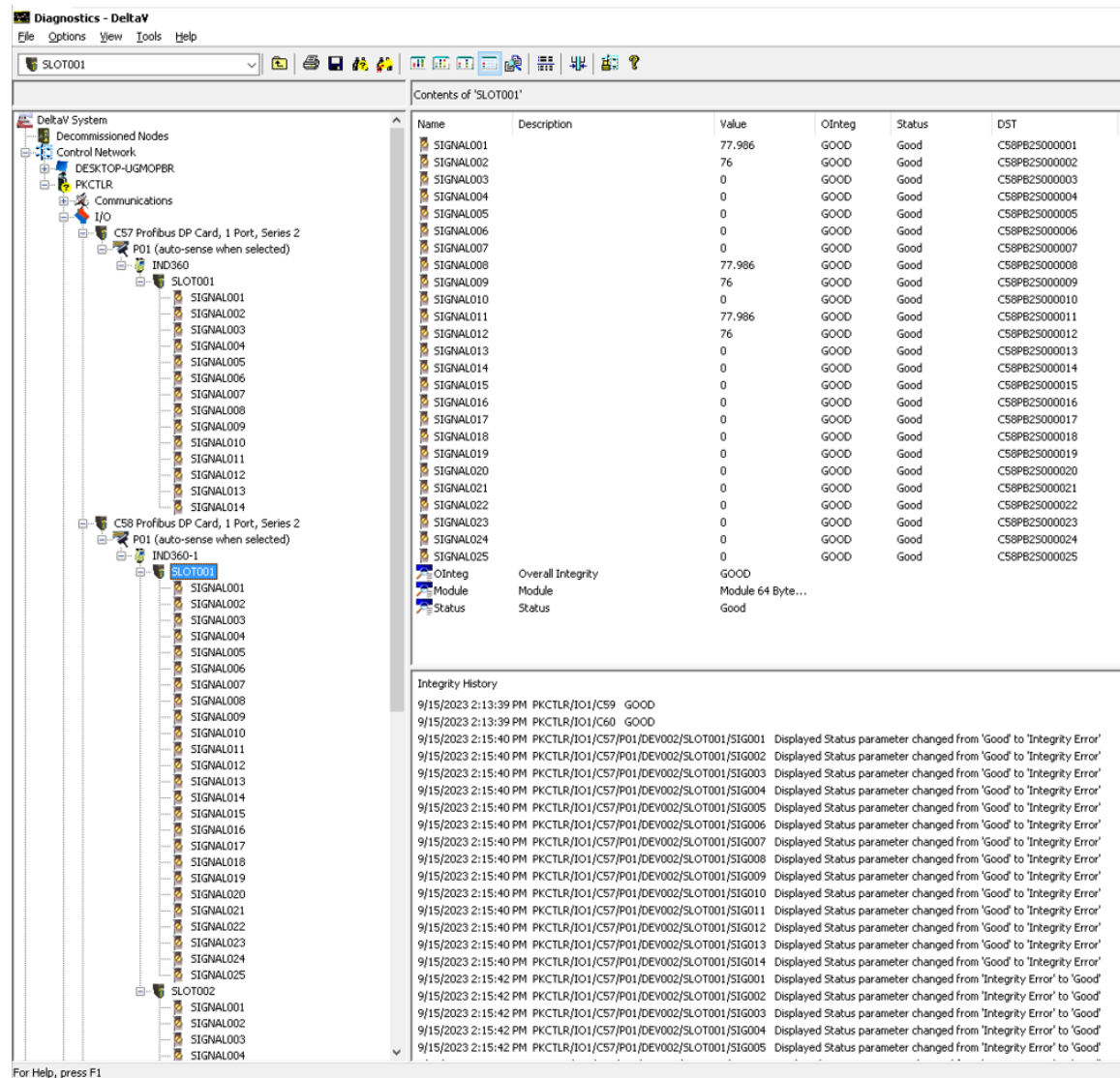


Figure 1-35: Diagnostics – Dataset Registers Value, Screen 2

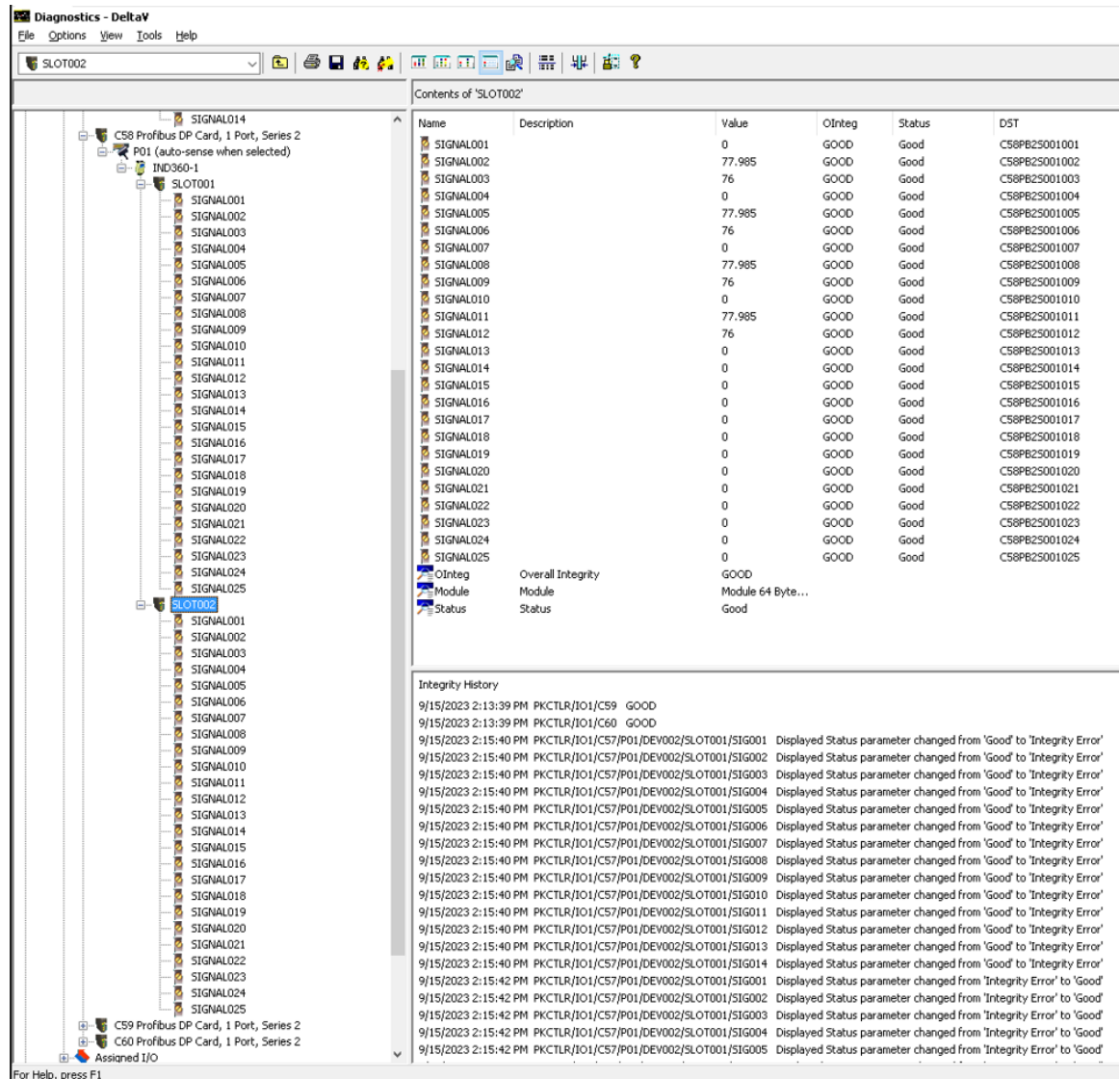


Figure 1-36: Diagnostics – Dataset Registers Value, Screen 3

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For more information

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