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The Pro-face/Xycom DeviceNet slave communication module, (from now on referred to as the "COM-DNS"), allows OpenHMI to communicate on a DeviceNet network supporting up to 255 bytes of I/O to and from the network. The COM-DNS is only capable of solicited communication. This means that the master controller, (PLC), provides information displayed on the OpenHMI screen and requests the information required to interact with the process. The states of inputs and outputs at other nodes are acquired passively, where the master controller issues these states to the COM-DNS. This data gathering function is not automatic. Therefore, logic must be created in the master controller, directing information to both the intended I/O device and the COM-DNS.

This quick start will guide the user through the following processes:

- 1. Configuring the COM-DNS for the desired number of inputs and outputs
- 2. Using SyCon, setup the SMSI Server
- 3. Generate a simple screen in Intouch to graphically display the results

The configuration of the COM-DNS (using SyCon) is done on the Runtime Workstation. Defining Tagnames in the SMSIServer and the Intouch application is typically done in the development system environment.

Let us assume that a block of I/O exists at MacID (node address) 15. This I/O block has 1 byte of input (produced) data and 1 byte of output (consumed) data. The master controller is programmed to read and write data to and from this I/O block in a polled fashion. The controller is also programmed to send the same data previously sent to the I/O block, and the data it reads from the I/O block, to the COM-DNS, at MacID 9, for representation on the screen. In this way, the COM-DNS has an image of the inputs and outputs of the I/O block.

Initial Configuration of Runtime Workstation

The first step is to configure the Slave Module for the correct number of inputs and outputs. This is done using a utility called SyCon (System Configurator). SyCon is provided free of charge as a demo version. The only limitation of demo mode is that only two network nodes can be configured. Since the Slave module is the only node we need to configure for the HMI application, demo mode is sufficient.

Start SyCon by selecting it from the Program Group < SyCon System Configurator > in the Start Menu. From the Toolbar select File - New and from the bus selections pick DeviceNet. A blank network configuration page will appear on the screen. SyCon is designed such that a Master must be established on the network before slave devices can be added. For the purposes of configuring the Slave Module, a DeviceNet master must exist on the network.

The Tool Button is used to insert a master.

It can also be inserted by selecting Insert - Master. Once done a selection window appears containing various master modules. Select COM-DNM by clicking on it, then clicking Add followed by OK. The DeviceNet-Master should appear at the top of the display and will be connected to the black vertical bar representing the DeviceNet network.

Now the Slave Module can be added to the network.

Click on the Tool Button is or use the Insert – Slave command.

Once done, an insertion point cursor will appear on the screen, representing the target position where the Slave Module will exist on the network. Move the insertion point below the DeviceNet-Master and click the left mouse button to place the Slave Module. A selection window should appear on the screen containing various types of slave modules. Select COM-DNS by double clicking on it or by single clicking on it, then clicking Add followed by OK.

The COM-DNS should appear on the screen connected to the DeviceNet network as shown below.

🕂 SyCon - [manual_DNS.dn]		_ 8 ×
Έ <u>F</u> ile <u>E</u> dit <u>V</u> iew <u>I</u> nsert <u>O</u> nline <u>S</u> ettings <u>T</u> ools <u>W</u> indow	Help	_ & ×
<u></u>		
		-
	DeviceNet-Master	
DeviceNet	MAC ID 1	
	DeviceNet Master COM-DNM	
	COM-DNS	
DeviceNet	MACID 9	
	Node COM-DNS	
		-
For Help, press F1		Config Mode

Right click on the COM-DNS and then select Slave Configuration, or (optionally) double click on the COM-DNS to bring up the Device Configuration window.

evice Configuration			
			OK Cancel
MACID U File	e name CUMDNS.EDS		
Description COM-DNS			
Activate device in actual cor	nfiguration		
Actual chosen IO connection <u>Poll</u> O <u>Bit strobe</u> O Cha	inge of state . O Cyclic	UCMM check Group 3	Fragmented Timeout 1600 msec
- Connection Object Instance Attri	butes		
Expected packet rate	Produ	ction inhibit time 10	
Watchdog timeout action	eout 🔻		
Produced connection size 0	Consu	imed connection size 0	
-Available predefined connection	data types		
Data type	Description	Data length 🔺	
BYTE ARRAY	Input Data	8	
BYTE ARRAY	Output Data	8	
			Add to configured I/O data
- Configured I/O connection data	and its offset address	· · ·	
Data type Description	I Type I Len I Addr		
		_	Delete configured I/O data

For the COM-DNS, the only valid selections are the MAC ID and the Configured I/O connection data.

The other parameters such as Expected packet rate and Production inhibit time are configured for a DeviceNet master (COM-DNM) and not the COM-DNS.

Change the **MAC ID** to 9, (which is what we previously chose for this application). Since the I/O block, on the DeviceNet network, has 1 byte of input and 1 byte of output, the COM-DNS will be set up for 2 bytes of output to allow the master controller to write the input and output images to the COM-DNS. Under **Available predefined connection data types**, double click on **"BYTE ARRAY Output Data 8**" or select it and then click on **"Add to configured I/O data"**, to add this data type to the Configured I/O connection data. The default size for this is 8 bytes. For this example, we'll change it to 2 bytes. Select the "8" under **"O Len"** and use the backspace key to erase it, then type in 2. Pressing enter now will close the Device Configuration window. Be sure that all changes have been made correctly. The changes to the configuration should look like the following screen. You may press enter now or click on the OK.

Device Configuration			×
MAC ID 9 File 1	name COMDNS.EDS		<u> </u>
Activate device in actual confi	guration		97 COM-DNS 💌
Actual chosen IO connection	ge of state C Cyclic 🔲 UCM	1M check Group 3	Fragmented Timeout 1600 msec
- Connection Object Instance Attribu	ites		-
Expected packet rate	Production inhib	pit time 10	
Watchdog timeout action Time	out 💌		
Produced connection size 0	Consumed conr	nection size 2	
Available predefined connection d	ata types		
Data type	Description	Data length 🔺	
BYTE ARRAY	Input Data	8	
BYTE ARRAY	Output Data	8	
			Add to configured I/O data
Configured I/D connection data ar	nd its offset address		
Data type Description		el O Len IO Addr	
BYTE ARRAY Output Data	QB	2 0	
			Delete configured I/O data

The COM-DNS is now configured for two bytes of output and MAC ID 9. This configuration must be downloaded to the flash memory within the COM-DNS. Once done, the COM-DNS will always power up running this configuration.

Right click on the COM-DNS and click on "Select as actual slave" in the pop-up window. A blue box should appear around the icon for the COM_DNS. This box indicates that the device plugged into the computer is the actual device to be downloaded to. From the menu, select Online then Download. A window will pop up asking if you really want to download. Select Yes.

A board assignment window will pop up requiring Board 0 to be defined. Pick the pull down menu arrow for Board 0. There should be at least two choices, "No device" and "COM-DNS". Pick COM-DNS. A download of the configuration to the COM-DNS should commence.

Now that the COM-DNS is configured, save the session by choosing File - Save from the menu bar.

		C	DPM addr.	Firmware	DPM-size	IRQ	Error	<u>0</u> K
oard 0	COM-DNS		D0000	DNS COM-DNS	8 kB	0	0	<u>C</u> ance
loard 1	No device	•	00000	not available	0 kB	0	0	
oard 2	No device	•	00000	not available	0 kB	0	0	
						~	_	
3oard 3	No device		00000	not available	0 kB	U	0	
3oard 3 Select de	No device	C interface to	00000 to be access Firmware	not available ible with Error	0 kB	U		
3oard 3 Select de COM 1	No device vices and the serial PC No device	C interface to F	00000 o be access Firmware not available	not available ible with Error 0	0 kB	U Ch	0 eck COM <u>1</u>	
3oard 3 Select de COM 1 COM 2	No device vices and the serial PC No device No device	C interface to F T T T T T	00000 o be access Firmware not available not available	not available ible with Error 0 0	0 kB	U Ch Ch	0 eck COM <u>1</u> eck COM <u>2</u>	
3oard 3 Select de COM 1 COM 2 COM 3	No device vices and the serial PC No device No device No device	C interface to F T T T T r	obe access Firmware not available not available	not available ible with Error 0 0 -20	0 kB	U Ch Ch	0 eck COM <u>1</u> eck COM <u>2</u> eck COM <u>3</u>	

SMSI Server

The SMSI Server is the link between Intouch and the Device Driver for the COM-DNS board. Intouch communicates through a DDE link with the server. The server shares the same Tagname as Intouch and conveys the translation to the proper addresses at the Dual Port Memory on the COM-DNS card. The server must therefore be set up with Tagnames and their appropriate offsets. These Tagnames will likely be pre-established in the development system environment.

The SMSI Server must read the COM-DNS directly to gather the configuration information. This information is saved as a file and can be later transferred to and edited in the development system environment.

Invoke the SMSI Server from Start - Programs - SMSIServer - SMSIServer. The following window should appear on the screen.

开 SMSI DDE Server	
<u>File E</u> dit <u>S</u> ettings <u>H</u> elp	
SERVER NAME: SMSIServer	TOPIC: CIFBoard
T ag Information	
Tag Name (Item)	Type Value
Progress View Log	
	<u>_</u>
	
4	Þ
Scan Time(ms): 100	Display Time(ms): 300

Universal CIF Ed	it/Create Board 🗵
Board <u>n</u> ame:	Board0
Description:	×
	•
	□ Simulate board □ Watchdog Enable
	BoardO 💿 System DNS COM-DNS
	Board1 O DPM Addr D0000
	Board2 O Interrupt NONE
	Board <u>3</u> 🔿 Status Found
- Board Config	ured Device Listing
# Device	Name Address I/O Type Size Offset
1 DNS	COM-DNS 9 IN BYTE 2 0 OUT BYTE 0 0
Sycon	Map Config <u>R</u> efresh Device Cnt: 1
	OK Cancel <u>H</u> elp

From the File menu, select New Board to bring up the following window.

Notice that under the Board Configured Device Listing, the table shows the COM-DNS listed in the table. The SMSIServer automatically interrogated the COM-DNS to determine its configuration. Verify that it is set for Address 9, and that the Inputs are set to two and the outputs are zero.

Any data that Intouch receives from the server is considered an input. Data from Intouch to the server is considered output. Remember that the COM-DNS was configured for two bytes of output. During this configuration, SyCon uses the reference point of the master controller. Therefore, data sent to the COM-DNS from the controller is treated as output. This same data from the Intouch point of view is treated as input data. This is why the SMSI Server reports that there are two bytes of input, rather than the 2 bytes of output that was configured using SyCon.

Click OK to accept this new board. The following window should appear. Click on Save & Exit to save this configuration to a file. Give it the name Example1.

Synergetic Universal Driver Version 1.016	×
Eoard0	<u>A</u> dd
	<u>E</u> dit
	<u>D</u> elete
Save & Exit Cancel Help	

After the Save & Exit the following screen will appear. The SMSI Server automatically generates status tags for the board, some of which will say unused if it is inappropriate for the type of communication card plugged in. Definitions for these status tags can be found in the Help menu for the SMSI Server.

📅 SMSI DDE Server - [Example1.io]					
<u>File E</u> dit <u>S</u> ettings <u>H</u> elp					
SERVER NAME: SMSIServer	TOPIC: B	oard0			
T ag Information					
Tag Name (Item)	Туре	Value 🔺			
Board0_UNUSED1	BOOL	[undefined]			
Board0_UNUSED2	BOOL	[undefined]			
Board0_NON_EXCH	BOOL	[undefined]			
Board0_UNUSED4	BOOL	[undefined]			
Board0_UNUSED5	BOOL	[undefined]			
Board0_UNUSED6	BOOL	[undefined]			
Board0_TRANS_ABORTS	BYTE	[undefined]			
Board0_ERR_INT	BYTE	[undefined]			
Board0_RX_OVERRUN	BYTE	[undefined]			
Board0_TX_INT	WORD	[undefined]			
Board0_UNUSED11	BOOL	[undefined]			
Progress View Log					
->BoardName: Board0 Creating Storage Saved: C:\Program Files\Synergetic\SMSIServer\Example1.io.					
•					
Scan Time(ms): 100	Display	Time(ms): 300			

Before exiting the server, it is necessary to set it up to automatically load Example1.io whenever the SMSIServer is launched. This is to avoid manual intervention. To do this, select Settings – Startup Mode – Auto. This automatically loads the last file, (in this case Example1.io). Now exit the server.

The file Example1.io can now be transferred to the development system. On the development system, the file Example1.io should be placed in the folder C:\Program Files\Synergetic\SMSIServer.

// S	MSI I)DE Server - [Exam	ple1.io]			_ 🗆 ×
<u>F</u> ile	<u>E</u> dit	<u>Settings</u> <u>H</u> elp				
	5	Startup Mode Control	✓ <u>M</u> anual <u>A</u> uto	OPIC: Bo	ard0	
	<u>г</u> .	Sca <u>n</u> Time Display Time		Tupe	Value	
		EBoardU UNUSED1		BUUI	[undefined]	
	- I-	Board0 UNUSED2		BOOL	[undefined]	1
		BoardO NON EXCH		BOOL	[undefined]	
		BoardO UNUSED4		BOOL	[undefined]	
		Board0 UNUSED5		BOOL	[undefined]	
		Board0 UNUSED6		BOOL	[undefined]	
		Board0_TRANS_ABO	RTS	BYTE	[undefined]	
		Board0_ERR_INT		BYTE	[undefined]	
		Board0_RX_OVERRU	IN	BYTE	[undefined]	
		Board0_TX_INT		WORD	[undefined]	
		Board0_UNUSED11		BOOL	[undefined]	-
	_					_
	F	rogress View Log				
	-> C S	BoardName: Board0 reating Storage aved: C:\Program Files\	Synergetic\St	dSIServer\E	xample1.io.	
	4				Þ	
Sc	an Tim	ne(ms): 100		Display T	ime(ms): 300	

Development System

Invoke the SMSI Server from Start - Programs - SMSIServer - SMSIServer. The following window should appear on the screen.

开 SMSI DDE Server	
<u>F</u> ile <u>E</u> dit <u>S</u> ettings <u>H</u> elp	
SERVER NAME: SMSIServer	TOPIC: CIFBoard
Tag Information	
Tag Name (Item)	Type Value
Progress View Log	
	<u> </u>
	=
1	
Scan Time(ms): 100	Display Time(ms): 300

From the File menu, select Open Board and pick Example.io to bring up the following window.

🕂 SMSI DDE Server - [Example1.io]			
<u>File E</u> dit <u>S</u> ettings <u>H</u> elp			
SERVER NAME: SMSIServer	TOPIC: B	oard0	
T ag Information			
Tag Name (Item)	Туре	Value 🔺	
Board0_UNUSED1	BOOL	[undefined]	
Board0_UNUSED2	BOOL	[undefined]	
Board0_NON_EXCH	BOOL	[undefined]	
Board0_UNUSED4	BOOL	[undefined]	
Board0_UNUSED5	BOOL	[undefined]	
Board0_UNUSED6	BOOL	[undefined]	
Board0_TRANS_ABORTS	BYTE	[undefined]	
Board0_ERR_INT	BYTE	[undefined]	
Board0_RX_OVERRUN	BYTE	[undefined]	
Board0_TX_INT	WORD	[undefined]	
Board0_UNUSED11	BOOL	[undefined] 💌	
·			
Progress View Log			
Loaded Board: C:\Program Files\Synergetic\SMSIServer\Example Creating Storage			
Scan Time(ms): 100 Display Time(ms): 300			

From the Edit menu, select Edit Board. When the window pops up, click on the "+" sign for Board0 to expand the tree as shown below. Addr9 should now be seen, which represents the COM-DNS at MAC ID 9. Click on the icon for Addr9 to highlight it, then select Add.

Synergetic Universal Driver Version 1.016	×
Board0	<u>A</u> dd
⊕-∰ Addr9 ⊕-∰ Status tags	<u> </u>
	 Delete
Save & Exit Cancel Help)

A "Create Tag" window will appear as shown below.

Universal CIF Ed	lit/Create Tag		×
Tag <u>N</u> ame:	Data_In		
Description:			*
<u>B</u> yte offset (0 - n): Bit of <u>f</u> set (0 - 7):	0		
Area		Data order processing	
Input		🔲 Bit swap (bytewise)	
O Output		🗖 Nibble swa <u>p</u>	
Data type		Byte swap Word gwap	
○ BOO <u>L</u>			
• BYTE			
© <u>I</u> NT			
O <u>w</u> ord			
O DW <u>O</u> RD			
O <u>B</u> EAL			
	ОК	Cancel Help	

We will call the input data, from the I/O block, "Data_In" and the output data to the I/O block, "Data_Out". Both of these images of the I/O block's inputs and outputs are written to the COM-DNS from the master controller and appear as inputs to Intouch. Type in the first Tag name "Data_In". You can optionally type in a meaningful description for the Tag. Leave the "Area" defaulted to Input, and select BYTE for "Data type". Click OK to accept this new Tag. We should now be back at the Board0 edit window with "Data_In" shown as a Tag under Addr9.

Now click on the Addr9 icon again to highlight it and select "Add" to add the Tag "Data_out". Go through the same process for the "Data_In" but since this is the second of the two bytes, which will be sent to the COM-DNS, change the "Byte offset" from 0 to 1. If there had been three bytes to be sent to the COM-DNS, the third byte would be Byte offset 2, and so on. Then select OK to accept this Tag.

Universal CIF Ec	lit/Create Tag	×
Tag <u>N</u> ame:	Data_Out	
<u>D</u> escription:		×
<u>B</u> yte offset (0 - n):	1	
Bit of <u>f</u> set (0 - 7):	0	
Area		Data order processing
Input		🔲 Bit swap (bytewise)
O Output		Nibble swag
Data type		Byte swap Word gwap
○ BOOL		
© <u>I</u> NT		
O <u>w</u> ord		
O DW <u>O</u> RD		
O <u>B</u> EAL		
	OK Cance	el Help

Now both Tags appear below Addr9. Now click on Save & Exit to save the server's Tags to the Example1 file.

Synergetic Universal Driver Version 1.016	×
Board0 Addr9 Data_In Data_Out Status tags Status tags	<u>A</u> dd <u>E</u> dit <u>D</u> elete
Save & Exit Cancel Help	

After the Save & Exit the following screen will appear. Scroll down the list of Tagnames and note that the "Data_In" and "Data_Out" Tagname just entered appear at the bottom. Now exit the server. The file, Example1.io should be found in the folder C:\Program Files\Synergetic\SMSIServer. This file must be downloaded to the Runtime Workstation system into the folder of the same name, C:\Program Files\Synergetic\SMSIServer.

🕂 SMS	DDE Server - [Example1.io]				
<u>F</u> ile <u>E</u> d	it <u>S</u> ettings <u>H</u> elp				
	SERVER NAME: SMSIServer	TOPIC: B	pard0		
	Tag Information				
	Tag Name (Item)	Туре	Value 🔺		
	Board0_UNUSED5	BOOL	[undefined]		
	Board0_UNUSED6	BOOL	[undefined]		
	Board0_TRANS_ABORTS	BYTE	[undefined]		
	Board0_ERR_INT	BYTE	[undefined]		
	Board0_RX_OVERRUN	BYTE	[undefined]		
	Board0_TX_INT	WORD	[undefined]		
	Board0_UNUSED11	BOOL	[undefined]		
	Addr9_OnLine	BOOL	[undefined]		
	Addr9_Diag	BOOL	[undefined]		
	Data_In	BYTE	[undefined]		
	Data_Out	BYTE	[undefined]		
	Progress View Log				
->BoardName: Board0 Creating Storage Saved: C:\Program Files\Synergetic\SMSIServer\Example1.io.					
Scan Time(ms): 100 Display Time(ms): 300					

OpenHMI

Launch OpenHMI from **Start - Programs - WonderWare FactorySuite - OpenHMI.** Create a new application and start Window Maker. Create a new window by clicking on the new window icon or by selecting "New Window" from the File menu. Choose a name for the window and window color then select **OK**.

Now we will create two value displays in the newly created window by utilizing the

"Wizards" Lool. Click on the Wizards tool to bring up the following selections.

Wizard Selection				×
Alarm Displays Buttons Clocks Frames Lights Meters Panels Runtime Tools Sliders Switches Text Displays Trends Value Displays Windows Controls	Paste Link I/O Analog Display	Tagname Value 0.000 Manalog Tagname Display	Expression Value a+b = 0.000 Analog Expression Display	
Wizard Description		- teach Construction View	-LOD) - O-Kanallaard	
Uisplays formatted analo	og values with Lagname	e text (including option	ai 30 j. Optional Input.	
OK Ca	ancel <u>A</u> dd to to	olbar <u>B</u> emove	from toolbar	

Choose the "Value Displays" and from the possible selections pick "Analog Tagname Display with Tagname Text" followed by **OK**.

Position the cursor in the application window where you want the Value Display and left click the mouse to place it. Intouch generates a temporary Tagname for the Value Display, which must be changed.

Example 1	
a:AnalogTag = 0.00	

Double click on the temporary Tagname to bring up the following window. Change the temporary tagname to "Data_In", (previously entered into the SMSI Server). The Tagnames are case sensitive and must be entered in **exactly** as they were in the SMSI Server. Otherwise, communication between Intouch and the SMSI Server is impossible. Change the "Number Format" to an integer value by clicking on the pull down menu arrow and scrolling up to the single "0". Select it and click on OK.

Analog Tagname Wizard	
Tagname: Data_In	ОК
Number Format: 0.00	Cancel
0 ▲ Use Tagname 0.0 ↓ 0.00 ↓	
Allow Input Minimum: Waximum 10	0

A question will pop up asking if you want to define the Tagname "Data_In". Click OK to bring up the Tagname Dictionary.

Tagname Dictionary 🛛 🔀
O Main 💿 Details O Alarms O Details & Alarms O Members
New Restore Delete Save Select >> Cancel Close
Tagname: Data_InMemory Real
<u>Group:</u> System C Read only € Read Write
Comment:
□ Log Data □ Log Events □ Retentive Value □ Retentive Parameters
Initial Value: 0 Eng Units:
Min Value: -32768 Deadband: 0
Max Value: 32767 Log Deadband: 0

Click on the **Type** button to define the Tag Type. Click on I/O Integer followed by **OK**.

🕂 Tag Types					×
Memory Discrete I/O Discrete Indirect Discrete Memory Integer I/O Integer Memory Real I/O Real I/O Real Indirect Analog Memory Message I/O Message I/O Message Group Var Hist Trend Tag ID					
ОК	Cancel	<u>D</u> etail:	s <u>S</u> elec	at All	<u>C</u> lear All

Notice that additional information is now available at the bottom of the Tagname Dictionary window. The Access Name is used by Intouch to reference realtime I/O data from a server such as the SMSI Server.

Tagname Dictionary	×
O Main 💿 Details O Alarms O Details & Alarms	C Members
<u>N</u> ew <u>R</u> estore <u>D</u> elete Sa <u>v</u> e <u>≤</u> < <u>S</u> ela	ect Cancel Close
Tagname: Data_In	ype: 1/0 Integer
Group: \$System	◯ Read <u>o</u> nly . ⊙ Read <u>W</u> rite
Comment	
□ Log Data □ Log Events □ Reten	itįve Value 🔲 Retentive Para <u>m</u> eters
Initial Value: 0 Min EU: -32768	Ma <u>x</u> EU: 32767
Deadband: 0 Min Ra <u>w</u> : -32768	Max R <u>a</u> w: 32767
Eng Units:	Conversion © Linear
Access Name: Unassigned	C Square Root
Item:	
Use Tagname as Item Name	Log Deadband: 0

Click on the Access Name button and when the "Access Names" window appears, click on "Add" to bring up the "Add Access Names" window. Type in "COM-DNS" as the Access Name. This name can be arbitrary, but try to make it meaningful by describing what the Tagnames are linked to. Fill in the Application Name with "smsiserver" and the Topic Name with "board0" followed by OK. Unlike the Tagnames, the Application Name and the Topic Names are not case sensitive.

dd Access Name		
Access Name: COM-DNS		OK
Node Name:		Cancel
Application Name:		
smsiserver		
Topic Name:		
board0		
⊢ Which protocol to use		
DDE	🔿 SuiteLink	
<u>When to advise server</u>		
O Advise all items	Advise only active ite	ms

Back at the Access Names window click on **Close** to return to the "Tagname Dictionary" window. Click on the checkbox, "Use Tagname as Item Name" and note that the Item is filled in automatically with the Tagname from above.

Tagname Dictionary	×	
🔿 Main 💿 Details 🔿 Alarms 🔿 Details & Alarms 🤍 Members		
New Restore Delete Save	<u>≤</u> < <u>S</u> elect <u>></u> Cancel Close	
Tagn <u>a</u> me: Data_In	<u>Type:</u> I/O Integer	
<u>G</u> roup: \$System	◯ Read <u>o</u> nly . ● Read <u>W</u> rite	
Comment:		
🔲 Log Data 🔲 Log Events	🔲 Retentive Value 🔲 Retentive Parameters	
Initial <u>V</u> alue: 0 Mi <u>n</u> EU:	-32768 Ma <u>x</u> EU: 32767	
Deadband: 0 Min Raw:	-32768 Max Raw: 32767	
Eng Units:	Conversion Cinear	
Access Name: COM-DNS	C Square Root	
Item: Data_In		
☑ Use Tagname as Item Name	Log Dead <u>b</u> and: 0	

Click on Close to accept all the entries and to exit the Tagname Dictionary. Now notice that the Tagname pre-assigned by Intouch to the Value Display now reflects the "Data_In" text.



Create another Value Display as before but give it the Tagname "Data_Out". The Access name in the Tagname Dictionary should already indicate COM-DNS, so no further setup is required. When finished, the application window should look as follows. From the File menu, select Save Window to save the application. Now exit Window Maker. The application can now be transferred to the Runtime Workstation using the techniques previously described.

A batch file must be set up to automatically launch the SMSI Server and WindowViewer.



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