

PnioVerify ProfiNET Master Simulator Documentation

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1 Introduction

The SYBERA ProfiNET Master Simulator allows the control of ProfiNET IO devices at realtime, on a standard PC, without the need of additional controller hardware. The PROFINET control can be realized simply by the PC with a standard Ethernet adapter. The Master Simulator is based on the high precision XRealtime Engine for sending and receiving of ProfinetIO frames at realtime. The Master Simulator allows the handling of ProfiNET-IO data without the need of any complex ProfinetIO management. The Master Simulator scans the bus for Accesspoints, and offers simply configuration of functional modules. Also diagnostics can be handled easily.



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1.1 Product Features

- ProfiNET Station Management
- Station Realtime Sampling-Cycles upto 100 µsec
- ProfiNET Diagnostics
- ProfiNET acyclic Service Interface (Read / Write)
- ARP, DCP, RPC, LLDP Implementation
- ProfiNET Cyclic Data Exchange
- Sequence Log

1.2 Supported OS

- Windows 7
- Windows 8
- Windows 10
- Windows 11

1.3 Reference Devices

- HMS Anybus-S Module (T_ID_DAP)
- HMS Anybus-S Module (T_ID_ABS_PIR)
- HMS Anybus-S Module (T_ID_ABS_PRT)
- Phoenix ILB 24 DI16 DIO16 TX2
- Phoenix FL IL 24 BK-PN-PAC
- Deutschmann Unigate CL

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2 Installation

For installation of the PnioVerify software following steps are required:

2.1 Preparation

- 1. Provide a PC with INTEL or REALTEK Ethernet adapter and Windows operating system
- 2. Check the installed Ethernet adapter has given a correct IP address

2.2 Installation

- 3. Install the MFC redistributables DLLs (in Folder MISC \ REDIST)
- 4. Install Fonts (in Folder MISC \ FONTS)
- 5. Install MSXML redistributables (in Folder MISC \ MSXML)
- 6. Next run SYSETUP64 with administrator privileges (make sure the directory path has no space characters)
- 7. On Installation the PEC information (PID, SERNUM and KEYCODE) must be entered. The SERNUM for the evaluation version is: 12345678, the KEYCODE is: 00001111-22223333
- 8. Select Network card Optional: Check license with SYLICENCECHECK64.EXE
- 9. Reboot the System

2.3 Operation

10. Run PnioVerify

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Select Windows processor count, typically [Active - 1]

Active	4	
New	1	ОК

Select ethernet device and quit with button [OK]

Select	Device
Gigabit-Netzwerkverbindung Intel(R) 82578	DM
L.	
	Install manually OK

Reboot the system

Installation compl	eted successfu	lly.
System needs to i	reboot - do you	want reboot now 3
	9	

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2.4 Jitter Control (optional)

Since a notebook has a quiet different jitter behaviour than desktop systems, an enhanced jitter control mechanism is required. Therefore SYBERA provides a registry entry called "JitterCtrl". This entry allows an adaptive iteration to the best jitter behaviour of the notebook.

		1	Registrierungs-Edit	or		>
atei Bearbeiten /	Ansicht Favoriten	?				
 NVI OD OD Poli Reg Sec Syb Syb Syb Syb Syb Syb System SYSTEM HKEY_USEI HKEY_CUR 	DIA Corporation BC icies jisteredApplications ure era ECT ETH PNT SHA nantec atile M RS RENT CONFIG	^	Name (Standard) BootMemCached DestinationPath FilterCtrl KeyCode Pid SeqMemCached SeqMemSize SerNum	Typ REG_SZ REG_DWORD REG_DWORD REG_SZ REG_DWORD REG_SZ REG_SZ REG_DWORD REG_DWORD REG_DWORD REG_SZ	Daten 0x00000000 (0) 0x00000000 (0) 0x00000006 (6) C:\SHA 0x00000000 (0) d4dc0eab-a6309463 e1a980ee 0x00000000 (0) 0x00002000 (8192) 12345678	
		V	<			

Following values are valid:

- 0: No enhanced jitter control
- 1: Enhaced Jitter Control, Step 1 (first choice together with BIOS settings)
- 2: Enhaced Jitter Control, Step 2 (for INTEL platforms only)
- 3: Enhaced Jitter Control, Step 3 (for INTEL platforms only, together with BIOS settings)

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2.5 Dynamic Jitter Compensation (optional)

SYBERA uses the procedure "Dynamic Jitter Compensation" with active and passive feedback compensation within the realtime engine. Although the X-Real time engine of SYBERA allows a native maximum Jitter of approx. 15 μ sec (according to hardware platform), this behaviour may be reduced below 3 μ sec by the dynamic jitter compensation.

For compatibility reason on some platforms it may be required to disable the dynamic jitter compensation. Therefore the registry value "NoJitterComp" has to be set to 1

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Datei Bearbeiten Ansicht Favoriten	?			
⊳ - 🔑 ws2ifsI	^	Name	Тур	Daten
 wscsvc wscsvc WSDPrintDevice WSearch WSearch WSService WudfPf WUDFWpdFs WUDFWpdMtp WWanSvc WUDFWpdMtp XRTETH32 Enum DriverDatabase HardwareConfig MountedDevices RNG Select Seture 		(Standard) (Standard) AccErrPacket DisplayName DriverMajorVersi DriverMinorVers DriverMinorVers DriverMinorVersion DriverMinorVersion NdisMajorVersion NdisMajorVersion NoSpeed1G OvrAddrHigh OvrAddrLow OvrAddrLow OvrAddrLow OvrIndexLock Owners Start Tag	REG_SZ REG_DWORD REG_SZ REG_DWORD REG_DWORD REG_DWORD REG_DWORD REG_SZ REG_EXPAND_SZ REG_DWORD REG_DWORD REG_DWORD REG_DWORD REG_DWORD REG_DWORD REG_DWORD REG_DWORD REG_DWORD REG_DWORD REG_DWORD REG_DWORD REG_DWORD	0x00000000 (0) @oem4.inf,%ServiceName%;XRT Ethernet D 0x00000001 (1) 0x00000001 (1) 0x00000001 (1) NDIS \SystemRoot\system32\DRIVERS\xrteth32.sy 0x00000005 (5) 0x00000001 (1) 0x00000001 (1) 0x00000001 (1) 0x00000001 (1) 0x00000000 (0) 0x00000000 (0) 0x00000000 (0) 0em4.inf 0x00000003 (3) 0x0000001 (28)
D WPA	~	iii lype	REG_DWORD	0x00000001 (1)
< >>		<		>
Computer\HKEY_LOCAL_MACHINE\SYSTEM	/\Curre	entControlSet\Service	xXRTETH32	

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3 Creating a Stationlist

A ProfinetIO fieldbus system consists of several station devices (typically buscoupler devices). A station consists at least of one module (SLOT) and a module consists at least of one submodule (SUBSLOT). For proper operation the ProfinetIO devices needs first to be configured (by Station Name and IP) and a native STATIONLIST for operating the ProfiNET realtime library has to be created. Therefore SYBERA provides a program called PNIOVERIFY64.EXE.

1odule Catalog	Configuration List
Image: Second system Image: Second system Image: Second	••••••••••••••••••••••••••••••••••••

Note: Make shure a valid IP address is provided for the network connection.

<u>Note:</u> If the application fails to run, check if the lastest Microsoft XML Parser has been installed. If not, install in the directory \APP\MSXML\MSXML4

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PNIOVERIFY allows creating a native stationlist by selecting modules from a module catalog (leftside view). The catalog get its entries by the provides GSDML files which must be present in the same directory as PNIOVERIFY. A module is inserted to the station list configuration (rightside view) by a DRAG and DROP operation (just drag a module from the catalog to the station list configuration). There are two types of modules:

 Accesspoint Module	(SLOT 0)
Functional Module	(SLOT 1 n)

3.1 Accesspoint Module

The accesspoint module keeps all information required for connecting to the fieldbus, as station name, IP parameters, MAC address, timing parameters. Therefore first task is to collect information about the ProfinetIO configuration by scanning the bus.

m PnioVerify, Host IP: 192.168.1.80	×
 PnioVerify, Host IP: 192.168.1.80 Module Catalog ILB PN 24 D116 D1016-2TX INPUT: 1 byte INPUT: 1 byte INPUT: 2 bytes INPUT: 4 bytes INPUT: 32 bytes INPUT: 2 bytes INPUT: 2 bytes INPUT: 4 bytes INPUT: 32 bytes INPUT: 4 bytes INPUT: 54 bytes INPUT: 32 bytes INPUT: 32 bytes INPUT: 32 bytes INPUT: 32 bytes INPUT: 4 bytes INPUT: 4 bytes 	Configuration List •••••••••••••••••••••••••••••
B IN/OUT: 4 bytes B IN/OUT: 8 bytes B IN/OUT: 8 bytes B IN/OUT: 16 bytes B IN/OUT: 128 bytes B IN/OUT: 128 bytes B BIDIR256 B BIDIR512 B BIDIR512 <t< td=""><td>DevNum 0 Period 100 Connect Cancel OK</td></t<>	DevNum 0 Period 100 Connect Cancel OK

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3.2 Station Settings

The scan gets information about manufacturer name and MAC address. Now individual assignment must set (e.g. IP address, station name, timings). On a right button click at the accesspoint module the Set Station Information dialog appears.

ILB PN 24 DI16 DI0 DI0 16 DI 16 UNIGATE-CL-Profine INPUT: 1 byte INPUT: 2 bytes	16-2TX t	Configuration List
Set Station Informati	on	×
If If Stationname If C	station5	
d d IP Address	192,168,1,5	(z.B. 192.168.0.2)
G Subnet Mask	255,255,255.0	(z.B. 255.255.255.0)
Default Router	0.0.0.0	(z.B. 0.0.0.0)
d	F Permanent	
II MAC Address	00-30-11-04-bd-90	(z.B. 00-A0-45-03-96-90) (z.B. 8)
II II Clock Factor	32 (z.B. 32)	Reduction Ratio 8 Phase 8
Watchdog Factor	24 (z.B. 24)	Datahold Factor 24 (z.B. 24)
B Send Offset	[ffffffff	(z.B. 0xFFFFFFF)
8 8 F F		Cancel OK
RT FO RT IN 001 byte RT IN 002 bytes		
RT IN 004 bytes		×
		DevNum 0 Period 1

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3.2.1 ProfiNET Timing

The timing settings of each station are based on a clock unit of 31,25 $\mu sec.$ The synchronisation period is calculated as follow:

SyncTime = 31,25 µsec * ClockFactor * ReductionRatio

(e.g. 31,25 µsec * 32 * 8 = 8000 µsec = 8 msec)

WatchdogTime = SyncTime * WatchdogFactor

(e.g. 8 msec * 24 = 192 msec)

The SendOffset must be set to 0xFFFFFFF

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3.3 Functional Module

Each station typically consists of multiple functional modules (SLOT 1..n). Function Modules have to be inserted from the catalog by DRAG and DROP operations. As well the nmodules may be sorted below the AccessPoint. A station configuration should contain all functional modules (in the order these modules are physically connected). When inserting a new module from the catalog, after dropping, it appears at the end of the configuration list and may be pushed to the correct slot location.



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3.4 Cyclic Operation

For cyclic data exchange, select an access point and press the button [Connect]. On the left side you will see the input submodules, on the right side the output submodules with status and data fields. When selecting a data field, the value is displayed below with several selectable options (hex, endian, bitwise ...). Each value may displayed and evaluated by a maximum size of 4 bytes. At larger data fields, an offset must be used to display and evaluate the next data bytes.



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An output value for a output data field my be written by pressing the button [Update].

PnioVerify, Host IP: 192.168.1	.80		×	
Module Catalog 	_V1) _V2_RT)	Configuration List	5_PIR_V2_RT)	
⊕	Name: station5 IP: 192.1	68.1.5 Update: 239798		×
Image: Constraint of the second sec	Input (80) - Status (Slot: 0) (80) - Status (Slot: 0) (80) - Status (Slot: 0) (80) - Status (Slot: 1) (38 46) - Data	SubSlot: 1) RT (T_ID_ABS_F SubSlot:8000) SubSlot:8002) SubSlot: 1) RT IN 002 bytes	Output	1) RT OUT 002 byt
. ID_EMPTY_SLOT	Offset Data (w 0 5830	/ORD)	I Hex □ Endian	Update
	MSB			LSB
Scan	Setup Diag	Connect	Cancel OK	

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3.5 PLL Send Mode

With the PLL send mode, a station is bound to the send timing of the master. The device will send its frame, when receiving a master frame.



Registry:

HKEY LOCAL MACHINE\SOFTWARE\Sybera\PNS\SendMode 0

Wireshark:

2735 16.795502000	0 CIMSYS_33:44:55	FritzKue_03:23:96	PNIO_PS	64 RTC1(legacy),	ID:0xc002,	Len:	40, Cycle:28370 (Valid,Primary,Ok,Run)
2736 16.79585000) FritzKue_03:23:96	CIMSYS_33:44:55	PNIO PS	64 RTC1(legacy),	ID:0xc001,	Len:	40, Cycle:28370 (Valid,Primary,Ok,Run)
2737 16.799501000	CIMSYS_33:44:55	FritzKue_03:23:96	PNIO PS	64 RTC1(legacy),	ID:0xc002,	Len:	40, Cycle:28498 (Valid,Primary,Ok,Run)
2738 16.799851000	FritzKue_03:23:96	CIMSYS_33:44:55	PNIO PS	64 RTC1(legacy),	ID:0xc001,	Len:	40, Cycle:28498 (Valid,Primary,Ok,Run)
2739 *REF*	CIMSYS_33:44:55	FritzKue_03:23:96	PNIO_PS	64 RTC1(legacy),	ID:0xc002,	Len:	40, Cycle:28627 (Valid,Primary,Ok,Run)
2740 0.000354000	FritzKue_03:23:96	CIMSYS_33:44:55	PNIO_PS	64 RTC1(legacy),	ID:0xc001,	Len:	40, Cycle:28627 (Valid,Primary,Ok,Run)
2741 0.004009000	CIMSYS_33:44:55	FritzKue_03:23:96	PNIO_PS	64 RTC1(legacy),	ID:0xc002,	Len:	40, Cycle:28755 (Valid,Primary,Ok,Run)
2742 0.004356000	FritzKue_03:23:96	CIMSYS_33:44:55	PNIO_PS	64 RTC1(legacy),	ID:0xc001,	Len:	40, Cycle:28755 (Valid,Primary,Ok,Run)
2743 0.008013000	CIMSYS_33:44:55	FritzKue_03:23:96	PNIO_PS	64 RTC1(legacy),	ID:0xc002,	Len:	40, Cycle:28883 (Valid,Primary,Ok,Run)
2744 0.008360000	FritzKue_03:23:96	CIMSYS_33:44:55	PNIO_PS	64 RTC1(legacy),	ID:0xc001,	Len:	40, Cycle:28883 (Valid,Primary,Ok,Run)
2745 0.012013000	CIMSYS_33:44:55	FritzKue_03:23:96	PNIO_PS	64 RTC1(legacy),	ID:0xc002,	Len:	40, Cycle:29011 (Valid,Primary,Ok,Run)
2746 0.012361000	FritzKue 03:23:96	CIMSYS 33:44:55	PNIO PS	64 RTC1(legacy),	ID:0xc001,	Len:	40, Cycle:29011 (Valid,Primary,Ok,Run)
2747 0.016016000	CIMSYS_33:44:55	FritzKue 03:23:96	PNIO PS	64 RTC1(legacy),	ID:0xc002,	Len:	40, Cycle:29139 (Valid,Primary,Ok,Run)
2748 0.016362000	FritzKue_03:23:96	CIMSYS 33:44:55	PNIO PS	64 RTC1(legacy),	ID:0xc001,	Len:	40, Cycle:29139 (Valid, Primary, Ok, Run)
2749 0.020023000	CIMSYS_33:44:55	FritzKue_03:23:96	PNIO PS	64 RTC1(legacy),	ID:0xc002,	Len:	40, Cycle:29267 (Valid, Primary, Ok, Run)
2750 0.020349000	FritzKue_03:23:96	CIMSYS_33:44:55	PNIO PS	64 RTC1(legacy),	ID:0xc001,	Len:	40, Cycle:29267 (Valid, Primary, Ok, Run)
2751 0.024023000	CIMSYS_33:44:55	FritzKue_03:23:96	PNIO PS	64 RTC1(legacy),	ID:0xc002,	Len:	40, Cycle:29395 (Valid,Primary,Ok,Run)
2752 0.024369000	FritzKue 03:23:96	CIMSYS 33:44:55	PNIO PS	64 RTC1(legacy),	ID:0xc001,	Len:	40, Cycle:29395 (Valid, Primary, Ok, Run)
2753 0.028025000	CIMSYS_33:44:55	FritzKue_03:23:96	PNIO PS	64 RTC1(legacy),	ID:0xc002,	Len:	40, Cycle:29523 (Valid, Primary, Ok, Run)
2754 0.028367000	FritzKue_03:23:96	CIMSYS_33:44:55	PNIO_PS	64 RTC1(legacy),	ID:0xc001,	Len:	40, Cycle:29523 (Valid,Primary,Ok,Run)

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3.6 Clocked Send Mode

With the clocked send mode, a station is bound to a (master) specified send cycle, independently to the master cycle itself. This allows a different device send cycle to the master send cycle.



1

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Registry:

HKEY_LOCAL_MACHINE\SOFTWARE\Sybera\PNS\SendMode

Wireshark:

3296 13.897668000	CIMSYS_33:44:55	FritzKue_03:23:96	PNIO_PS	64 RTC1(legacy),	ID:0xc002,	Len:	40,	Cycle:62012	(Valid, Primary, Ok, Run)
3297 13.898353000	FritzKue_03:23:96	CIMSYS_33:44:55	PNIO_PS	64 RTC1(legacy),	ID:0xc001,	Len:	40,	Cycle:62012	(Valid, Primary, Ok, Run)
3298 13.900355000	FritzKue_03:23:96	CIMSYS_33:44:55	PNIO_PS	64 RTC1(legacy),	ID:0xc001,	Len:	40,	Cycle:62012	(Valid, Primary, Ok, Run)
3299 13.901645000	CIMSYS_33:44:55	FritzKue_03:23:96	PNIO_PS	64 RTC1(legacy),	ID:0xc002,	Len:	40,	Cycle:62140	(Valid, Primary, Ok, Run)
3300 *REF*	FritzKue_03:23:96	CIMSYS_33:44:55	PNIO_PS	64 RTC1(legacy),	ID:0xc001,	Len:	40,	Cycle:62140	(Valid, Primary, Ok, Run)
3301 0.002011000	FritzKue_03:23:96	CIMSYS_33:44:55	PNIO_PS	64 RTC1(legacy),	ID:0xc001,	Len:	40,	Cycle:62140	(Valid, Primary, Ok, Run)
3302 0.003281000	CIMSYS_33:44:55	FritzKue_03:23:96	PNIO_PS	64 RTC1(legacy),	ID:0xc002,	Len:	40,	Cycle:62268	(Valid, Primary, Ok, Run)
3303 0.004007000	FritzKue_03:23:96	CIMSYS_33:44:55	PNIO_PS	64 RTC1(legacy),	ID:0xc001,	Len:	40,	Cycle:62268	(Valid, Primary, Ok, Run)
3304 0.006002000	FritzKue_03:23:96	CIMSYS_33:44:55	PNIO_PS	64 RTC1(legacy),	ID:0xc001,	Len:	40,	Cycle:62268	(Valid, Primary, Ok, Run)
3305 0.007301000	CIMSYS_33:44:55	FritzKue_03:23:96	PNIO_PS	64 RTC1(legacy),	ID:0xc002,	Len:	40,	Cycle:62396	(Valid, Primary, Ok, Run)
3306 0.008009000	FritzKue_03:23:96	CIMSYS_33:44:55	PNIO_PS	64 RTC1(legacy),	ID:0xc001,	Len:	40,	Cycle:62396	(Valid, Primary, Ok, Run)
3307 0.010007000	FritzKue_03:23:96	CIMSYS_33:44:55	PNIO_PS	64 RTC1(legacy),	ID:0xc001,	Len:	40,	Cycle:62396	(Valid, Primary, Ok, Run)
3308 0.011305000	CIMSYS_33:44:55	FritzKue_03:23:96	PNIO_PS	64 RTC1(legacy),	ID:0xc002,	Len:	40,	Cycle:62525	(Valid, Primary, Ok, Run)
3309 0.011994000	FritzKue_03:23:96	CIMSYS_33:44:55	PNIO_PS	64 RTC1(legacy),	ID:0xc001,	Len:	40,	Cycle:62525	(Valid, Primary, Ok, Run)
3310 0.014011000	FritzKue_03:23:96	CIMSYS_33:44:55	PNIO_PS	64 RTC1(legacy),	ID:0xc001,	Len:	40,	Cycle:62525	(Valid, Primary, Ok, Run)
3311 0.015305000	CIMSYS_33:44:55	FritzKue_03:23:96	PNIO_PS	64 RTC1(legacy),	ID:0xc002,	Len:	40,	Cycle:62653	(Valid, Primary, Ok, Run)
3312 0.016013000	FritzKue_03:23:96	CIMSYS_33:44:55	PNIO_PS	64 RTC1(legacy),	ID:0xc001,	Len:	40,	Cycle:62653	(Valid, Primary, Ok, Run)
3313 0.018024000	FritzKue_03:23:96	CIMSYS_33:44:55	PNIO_PS	64 RTC1(legacy),	ID:0xc001,	Len:	40,	Cycle:62653	(Valid, Primary, Ok, Run)
3314 0.019306000	CIMSYS_33:44:55	FritzKue_03:23:96	PNIO_PS	64 RTC1(legacy),	ID:0xc002,	Len:	40,	Cycle:62781	(Valid, Primary, Ok, Run)
3315 0.019996000	FritzKue_03:23:96	CIMSYS_33:44:55	PNIO_PS	64 RTC1(legacy),	ID:0xc001,	Len:	40,	Cycle:62781	(Valid, Primary, Ok, Run)
3316 0.022010000	FritzKue_03:23:96	CIMSYS_33:44:55	PNIO_PS	64 RTC1(legacy),	ID:0xc001,	Len:	40,	Cycle:62781	(Valid,Primary,Ok,Run)

Registry:

HKEY_LOCAL_MACHINE\SOFTWARE\Sybera\PNS\SendMode

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Sample Startup Protocoll:

Sybe	era ILB24_FE350 64 (Modues (OK).pcap - Wiresha	rk						
Eile E	dit ⊻iew <u>G</u> o <u>C</u> apture	Analyze Statistics Telephony	Tools Help						
I I I I I I I I I I I I I I I I I I I									
Filter:			▼ Expression Clear Ap	ply					
No. +	Time	Source	Destination Protocol	Info					
	19 29.927300	HMSFIELU_US:8C:/D	CIMSYS_33:44:00 PN-DCP Proadcast ARP	Tuent OK , XIU:UX2, NameOFStation: Stationit, Dev-Options(9), Dev-II - who has 192 168 1 222 Tall 192 168 1 3					
	21 29.938537	HmsField_03:8c:7b	Cimsvs_33:44:55 ARP	192.168.1.22 is at 00:30:11:03:8c:7b					
	22 29,999843	HmsField_03:8c:7c	LLDP_Multicast LLDP	Chassis Id = station1 Port Id = port-001 TTL = 20					
_	23 29.999875	HmsField_03:8c:7c	LLDP_Multicast LLDP	Chassis Id = station1 Port Id = port-001 TTL = 20					
	24 30.323179	PhoenixC 04:07:f3	Cimsys 33:44:55 PNIO-CM	RTC1/UDP_TD:0xc001_Len: 40_Cycle:55520_(Valid Primary Ok Run)					
	26 30.385367	PhoenixC_04:07:f3	Cimsys_33:44:55 PNIO	RTC1/UDP, ID:0xc001, Len: 40, Cycle:55776 (Valid, Primary, Ok, Run)					
	27 30.393341	PhoenixC_04:07:f3	Cimsys_33:44:55 PNIO	RTC1/UDP, ID:0xc001, Len: 40, Cycle:56032 (Valid, Primary, ok, Run)					
	28 30.401335	PhoenixC_04:07:13	Cimsys_33:44:55 PNIO	RTC1/UDP, ID:0xc001, Len: 40, Cycle:56288 (Valid, Primary, Ok, Run)					
	30 30 417307	PhoenixC_04:07:13	Cimsys_33:44:55 PNIC	RTC1/UDP, ID:0xC001, Len: 40, Cycle:56304 (Valid, Primary, OK, Run)					
	31 30.425285	PhoenixC_04:07:f3	Cimsys_33:44:55 PNIO	RTC1/UDP, ID:0xc001, Len: 40, Cycle:57056 (Valid, Primary, Ok, Run)					
	32 30.433272	PhoenixC_04:07:f3	Cimsys_33:44:55 PNIO	RTC1/UDP, ID:0xc001, Len: 40, Cycle:57312 (Valid, Primary, Ok, Run)					
	33 30.433648	PhoenixC_04:07:f3	Broadcast ARP	who has 192.168.1.3? Tell 192.168.1.23					
	34 30.438385	C1msys_33:44:55	Phoen1XC_04:07: ARP	192.108.1.3 15 at UU:11:22:33:44:55 Connect response OK APPlockBes TOCPPlockBes TOCPPlockBes Alarmy					
	36 30.441256	PhoenixC 04:07:f3	Cimsvs 33:44:55 PNIO	RTC1/UDP. ID:0xc001. Len: 40. Cvcle:57568 (Valid.Primarv.0k.Run)					
	37 30.449242	PhoenixC_04:07:f3	Cimsys_33:44:55 PNIO	RTC1/UDP, ID:0xc001, Len: 40, Cycle:57824 (Valid, Primary, Ok, Run)					
	38 30.454303	192.168.1.3	192.168.1.23 PNIO-CM	Write request, IODWriteReqHeader, Api:0x0, Slot:0x0/0x1, Index:(0x1)					
	39 30.457228	PhoenixC_04:07:f3	Cimsys_33:44:55 PNIO	RTC1/UDP, ID:0xc001, Len: 40, Cycle:58080 (Valid, Primary, Ok, Run)					
	40 30.465216	PhoenixC_04:07:13	Cimsys_33:44:55 PNIC	RTC1/UDP, ID:0xC001, Len: 40, Cycle:58556 (Valid, Primary, 0k, Run)					
	42 30.481190	PhoenixC_04:07:f3	Cimsys_33:44:55 PNIO	RTC1/UDP, ID:0xc001, Len: 40, Cycle:58848 (Valid, Primary, Ok, Run)					
	43 30.488294	192.168.1.23	192.168.1.3 PNIO-CM	Write response, OK, IODWriteResHeader, Api:0x0, Slot:0x0/0x1, Index					
	44 30.489175	PhoenixC_04:07:f3	Cimsys_33:44:55 PNIO	RTC1/UDP, ID:0xc001, Len: 40, Cycle:59104 (Valid, Primary, Ok, Run)					
	45 30.49/18/	192 168 1 3	192 168 1 23 PNIO	Write request TODWriteBenHeader Ani:0x0 Slot:0x1/0x1 Todex:(0x1)					
	47 30.505144	PhoenixC 04:07:f3	Cimsvs 33:44:55 PNIO	RTC1/UDP. ID:0xc001. Len: 40. Cvcle:59616 (Valid.Primarv.0k.Run)					
	48 30.513142	PhoenixC_04:07:f3	Cimsys_33:44:55 PNIO	RTC1/UDP, ID:0xc001, Len: 40, Cycle:59872 (Valid, Primary, ok, Run)					
-	49 30.521115	PhoenixC_04:07:f3	Cimsys_33:44:55 PNIO	RTC1/UDP, ID:0xc001, Len: 40, Cycle:60128 (Valid, Primary, Ok, Run)					
	50 30.528/64	192.168.1.23 Phoenix: 04:07:53	192.168.1.3 PNIO-CM	Write response, OK, IODWriteResHeader, Api:0x0, Slot:0x1/0x1, Index					
	52 30.533084	192.168.1.3	192.168.1.23 PNIO-CM	Control request. IODBlockReg. Command: ParameterEnd					
	53 30.537093	PhoenixC_04:07:f3	Cimsys_33:44:55 PNIO	RTC1/UDP, ID:0xc001, Len: 40, Cycle:60640 (Valid,Primary,Ok,Run)					
	54 30.537201	⊂imsys_33:44:55	PhoenixC_04:07: PNIO	RTC1/UDP, ID:0xc010, Len: 40, Cycle:60640 (Valid, Primary, 0k, Stop)					
	55 30.545072	PhoenixC_04:07:13	Cimsys_33:44:55 PNIO	RTC1/UDP, ID:0xc001, Len: 40, Cycle:60896 (Valid, Primary, Ok, Run)					
	57 30 553057	PhoenixC 04:07:53	Cimsys 33:44:55 PNTO	RTC1/UDP, ID:0xC010, Len: 40, Cycle:600990 (Valid, Primary, Ok, Stop)					
	58 30.553086	⊂imsys_33:44:55	PhoenixC_04:07: PNIO	RTC1/UDP, ID:0xc010, Len: 40, Cycle:61152 (Valid, Primary, Ok, Stop)					
	59 30.561043	PhoenixC_04:07:f3	⊂imsys_33:44:55 PNIO	RTC1/UDP, ID:0xc001, Len: 40, Cycle:61408 (Valid, Primary, Ok, Run)					
	60 30.561144	Cimsys_33:44:55	PhoenixC_04:07: PNIO	RTC1/UDP, ID:0xc010, Len: 40, Cycle:61408 (Valid, Primary, 0k, Stop)					
-	61 30.569042	PhoenixC 04:07:T3	CIMSVS 33:44:55 PNIO	RTCL/UDP. ID:UXCUUL. Len: 40. CVCle:61664 (Valid.Primarv.ok.Run)					
Fra Fth	ume 24 (514 bytes Dernet II. Src: C	on wire, 514 bytes ca imsys 33:44:55 (00:11:	ptured) 22:33:44:55), Dst: PhoenixC	04:07:f3 (00:a0:45:04:07:f3)					
∃ Int	ernet Protocol,	src: 192.168.1.3 (192.	168.1.3), Dst: 192.168.1.23	(192.168.1.23)					
+ Use	er Datagram Proto	col, Src Port: blackia	ck (1025), Dst Port: profir	et-cm (34964)					
+ DCE	RPC Request. Se	q: 0. Serial: 0. Fraq:	0. FragLen: 392						
E PRO	FINET IO, Connec	t	, ,						
0	operation: Connec	t (0)							
А	rgsMaximum: 4096								
A	rgsLength: 372								
ΞA	rray: Max: 4096,	offset: 0, size: 372							
ΞA	RBlockReq: IOCAR	Single, Session:1, MAC	:00:11:22:33:44:55, Port:0x	8892, Station:Sybera-PNIO-Master					
±Ι	OCRBlockReq: Inp	ut CR, Ref:0x1, Len:40	, FrameID:0xc001, clock:32,	Ratio:8, Phase:8 APIS:1					
± I	OCRBlockReq: Out	put CR, Ref:0x2, Len:4	0, FrameID:0xffff, Clock:32	, Ratio:8, Phase:8 APIs:1					
ΞE	xpectedSubmodule	BlockReq: APIs:1, Subm	odules:1						
ΞE	xpectedSubmodule	BlockReq: APIs:1, Subm	odules:1						
ΞE	xpectedSubmodule	BlockReq: APIs:1, Subm	odules:1						
±Α	larmCRBlockReg: .	Alarm CR, LT:0x8892, T	Factor:1, Retries:3, Ref:0x	1, Len:200 Tag:0xc000/0xa000					
ΞĒ	ARUUID:017b173e-	6c79-d74c-8d74-427c0b1	c8f95 ContrMAC:00:11:22:33:	44:55 ContralRef:0x1 DevMAC:00:a0:45:04:07:f3 DevAlRef:0x14 InCR:0xc001 +					
1				× * * * * * * * * * * * * * * * * * * *					
0000	00 a0 45 04 07 f	3 00 11 22 33 44 55 1	08 00 45 00E "3DU	.E					
0020	01 17 04 01 88 9	04 01 e0 24 5c 04 00	20 00 00 00						
0030	00 00 de a0 00 0	0 6c 97 11 d1 82 71	00 01 00 04]q						
0040	00 b0 de a0 00 0 df 7d 76 56 d0 d	1 6c 97 11 d1 82 71 1	00 a0 24 42	• \$B					
O Fram	e (frame). 514 bytes	Packets: 5333 (Displayed: 5333 Marked: 0	Profile: Default					

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3.7 Station Diagnostics

The station diagnostics allows gathering of I&M data, as well as reading and writing acyclic information (by API, SlotNum, SubSlotNum and RecordIndex). Therefore select an AccessPoint and press button [Diag].

nocule Catalog ⊕	016-2TX	Configura ⊡ -□ ⊡ -□	0: RT (T_ID_ABS_PIR) 0: RT IN 002 bytes	_V2_RT)			
🗄 🖪 DI 16	11 - 12 -	÷ 🖪	1: RT OUT 002 bytes				
E CONTRACT - CL-Profit	n <u>et</u>						
In TRINPUT: 2 butes	Diagnostics						
I INPLIT: A butes							
THINDIT: 9 butos	Station	station5		API-ID	0	Error Code	0x00
		. Louis and a			1.7.		1.00000
	Vendor ID	0x010c		Slot	0	Error Decode	0x00
				5			
	Order ID	ABS-PIR		SubSlot	1	Error Code 1	0x00
+ UUIPUI: I byte							
E UUIPUI: 2 bytes	Serial Number	A0124FD6		Record Index	OxaffO	Error Code 2	0x00
	Hardware Nev.	0x0004		Record Length	60		
E OUTPUT: 16 bytes	Coffuero Dou	F0.00.00.00		Report Data			
🗉 🔲 OUTPUT: 32 bytes	Sultwale nev.	156-02-02-02		necolu Dala			
	1.00			00,20,00,38,01,	00,01,0c,41,42	,53,2d,50,49,52,20,20,3	20,20,20,20
E 🖪 OUTPUT: 64 bytes	Bey Counter	10.0000					20 20 20 20
⊕⊶∎ OUTPUT: 64 bytes ⊕⊶∎ IN/OUT: 2 bytes	Rev. Counter	0x0000		20,20,20,20,20,20,	20,20,41,30,31	,32,34,45,44,35,20,20, 	20,20,20,20
⊡ ∎ OUTPUT: 64 bytes ⊡ ∎ IN/OUT: 2 bytes ⊕ ∎ IN/OUT: 4 bytes	Rev. Counter	000000		20,20,20,20,20,20, 20,20,00,04,56,	20,20,41,30,31 02,02,02,00,00	,32,34,46,44,36,20,20, ,f6,00,00,04,01,01,00,1	20,20,20,20 e
Ð⊷∎BOUTPUT: 64 bytes Ð⊷∎BIN/OUT: 2 bytes Ð⊷∎BIN/OUT: 4 bytes Ð⊷∎BIN/OUT: 8 bytes	Rev. Counter Profile ID	0xf600		20,20,20,20,20, 20,20,00,04,56,	20,20,41,30,31 02,02,02,00,00	,32,34,46,44,36,20,20, ,f6,00,00,04,01,01,00,1	20,20,20,20 e
- ■ 0UTPUT: 64 bytes - ■ IN/OUT: 2 bytes - ■ IN/OUT: 4 bytes - ■ IN/OUT: 8 bytes - ■ IN/OUT: 8 bytes - ■ IN/OUT: 16 bytes	Rev. Counter Profile ID Profile Type	0xf600		20,20,20,20,20, 20,20,00,04,56,	20,20,41,30,31 02,02,02,00,00	,32,34,46,44,36,20,20,, ,16,00,00,04,01,01,00,1	20,20,20,20 e
D BE OUTPUT: 64 bytes D BE IN/OUT: 2 bytes D BE IN/OUT: 4 bytes D BE IN/OUT: 8 bytes D BE IN/OUT: 16 bytes D BE IN/OUT: 32 bytes	Rev. Counter Profile ID Profile Type	0x0000 0xf600 0x0004		20,20,20,20,20, 20,20,00,04,56,	20,20,41,30,31 02,02,02,00,00	,32,34,46,44,36,20,20,, ,66,00,00,04,01,01,00,1	20,20,20,20 e
HI OUTPUT: 64 bytes HI N/OUT: 2 bytes HI N/OUT: 4 bytes HI N/OUT: 4 bytes HI N/OUT: 8 bytes HI N/OUT: 16 bytes HI N/OUT: 32 bytes HI N/OUT: 34 bytes	Rev. Counter Profile ID Profile Type IM Version	0x0000 0xf600 0x0004 0x0101		20,20,20,20,20, 20,20,00,04,56,	20,20,41,30,31 02,02,02,00,00	,32,34,46,44,36,20,20, ,f6,00,00,04,01,01,00,1	20,20,20,20
UH OUTPUT: 64 bytes III IN/OUT: 2 bytes III IN/OUT: 4 bytes III IN/OUT: 4 bytes III IN/OUT: 8 bytes III IN/OUT: 16 bytes III IN/OUT: 32 bytes III IN/OUT: 64 bytes III IN/OUT: 128 bytes	Rev. Counter Profile ID Profile Type IM Version	0x0000 0xf600 0x0004 0x0101		20,20,20,20,20,20,20,20,20,20,20,00,04,56,	20,20,41,30,31 02,02,02,00,00	1,32,34,46,44,36,20,20,, (6,00,00,04,01,01,00,1	20,20,20,20
OUTPUT: 64 bytes III IN/OUT: 2 bytes III IN/OUT: 4 bytes III IN/OUT: 8 bytes III IN/OUT: 8 bytes III IN/OUT: 16 bytes III IN/OUT: 32 bytes III IN/OUT: 64 bytes III IN/OUT: 128 bytes III IN/OUT: 128 bytes III IN/OUT: 128 bytes IIII IN/OUT: 128 bytes IIII IN/OUT: 128 bytes	Rev. Counter Profile ID Profile Type IM Version IM Supported	0x0000 0xf600 0x0004 0x0101 0x001e		20.20.20.20.20.20.20.20.20.20.20.00.04.56.	20,20,41,30,31 02,02,02,00,00 Read	.32,34,46,44,36,20,20, ,66,00,00,04,01,01,00,1	е ОК
OUTPUT: 64 bytes III IN/OUT: 2 bytes III IN/OUT: 4 bytes III IN/OUT: 8 bytes III IN/OUT: 8 bytes III IN/OUT: 16 bytes III IN/OUT: 32 bytes III IN/OUT: 32 bytes III IN/OUT: 128 bytes IIII IN/OUT: 128 bytes IIII IN/OUT: 128 bytes IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	Rev. Counter Profile ID Profile Type IM Version IM Supported	0x0000 0xf600 0x0004 0x0101 0x001e		20,20,20,20,20,20,20,20,20,20,00,04,56,	20,20,41,30,31 02,02,02,00,00 Read	.32,34,46,44,36,20,20, ,66,00,00,04,01,01,00,1	e OK
OUTPUT: 64 bytes IN/OUT: 2 bytes IN/OUT: 4 bytes IN/OUT: 8 bytes IN/OUT: 16 bytes IN/OUT: 16 bytes IN/OUT: 32 bytes IN/OUT: 64 bytes IN/OUT: 128 bytes IDIR256 IDIR512 IDIR512 IDIR1024	Rev. Counter Profile ID Profile Type IM Version IM Supported	0x0000 0xf600 0x0004 0x0101 0x001e		20.20.20.20.20.20.20.20.20.20.20.20.20.2	20,20,41,30,31 02,02,02,00,00	.32,34,46,44,36,20,20, ,66,00,00,04,01,01,00,1	e 0K
	Rev. Counter Profile ID Profile Type IM Version IM Supported	0x0000 0xf600 0x0004 0x0101 0x001e		20.20.20.20.20.20.20.20.20.20.20.20.20.2	20,20,41,30,31 02,02,02,00,00	.32,34,46,44,36,20,20, ,66,00,00,04,01,01,00,1	е ОК
UITPUT: 64 bytes IN/OUT: 2 bytes IN/OUT: 4 bytes IN/OUT: 4 bytes IN/OUT: 8 bytes IN/OUT: 16 bytes IN/OUT: 32 bytes IN/OUT: 128 bytes IN/OUT	Rev. Counter Profile ID Profile Type IM Version IM Supported R_V1)	0x0000 0xf600 0x0004 0x0101 0x001e		20.20.20.20.20.20.20.20.20.20.20.20.20.2	20,20,41,30,31 02,02,02,00,00	.32,34,46,44,36,20,20, ,f6,00,00,04,01,01,00,1	е ОК
OUTPUT: 64 bytes IN/OUT: 2 bytes IN/OUT: 4 bytes IN/OUT: 4 bytes IN/OUT: 8 bytes IN/OUT: 16 bytes IN/OUT: 32 bytes IN/OUT: 32 bytes IN/OUT: 128 bytes IN/OUT:	Rev. Counter Profile ID Profile Type IM Version IM Supported R_V1) R V2 RT)	0x0000 0xf600 0x0004 0x0101 0x001e		20,20,20,20,20,20,20,20,20,20,20,20,20,2	Read	.32,34,46,44,36,20,20, ,f6,00,00,04,01,01,00,1	e OK
OUTPUT: 64 bytes IN/OUT: 2 bytes IN/OUT: 4 bytes IN/OUT: 4 bytes IN/OUT: 8 bytes IN/OUT: 16 bytes IN/OUT: 32 bytes IN/OUT: 24 bytes IN/OUT: 24 bytes IN/OUT: 128 bytes III/OUT: 128 bytes IIII/OUT: 128 bytes III/OUT: 128 bytes IIII/OUT: 128 bytes IIIIII/OUT: 128 bytes IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	Rev. Counter Profile ID Profile Type IM Version IM Supported R_V1) R_V2_RT)	0x0000 0xf600 0x0004 0x0101 0x001e		20,20,20,20,20,20,20,20,20,20,20,20,20,2	20,20,41,30,31 02,02,02,00,00	.32,34,46,44,36,20,20, ,f6,00,00,04,01,01,00,1	0K
OUTPUT: 64 bytes III IN/OUT: 2 bytes III IN/OUT: 4 bytes III IN/OUT: 8 bytes III IN/OUT: 8 bytes III IN/OUT: 16 bytes III IN/OUT: 16 bytes III IN/OUT: 16 bytes III IN/OUT: 12 bytes	Rev. Counter Profile ID Profile Type IM Version IM Supported R_V1) R_V2_RT)	0x0000 0xf600 0x0004 0x0101 0x001e		20,20,20,20,20,20,20,20,20,20,20,20,20,2	Read	.32,34,46,44,36,20,20, ,f6,00,00,04,01,01,00,1	0,20,20,20,20 e 0K
OUTPUT: 64 bytes III IN/OUT: 2 bytes III IN/OUT: 4 bytes III IN/OUT: 4 bytes III IN/OUT: 8 bytes III IN/OUT: 8 bytes III IN/OUT: 8 bytes III IN/OUT: 16 bytes III IN/OUT: 16 bytes III IN/OUT: 16 bytes III IN/OUT: 12 bytes	Rev. Counter Profile ID Profile Type IM Version IM Supported R_V1) R_V2_RT)	0x0000 0xf600 0x0004 0x0101 0x001e		20,20,20,20,20,20,20,20,20,20,20,20,20,2	Read	.32,34,46,44,36,20,20, ,f6,00,00,04,01,01,00,1	0K
HII OUTPUT: 64 bytes HII OUTPUT: 2 bytes HII N/OUT: 2 bytes HII N/OUT: 4 bytes HII N/OUT: 16 bytes HII N/OUT: 16 bytes HII N/OUT: 12 bytes HII N/OUT: 128 bytes	Rev. Counter Profile ID Profile Type IM Version IM Supported R_V1) R_V2_RT)	0x0000 0xf600 0x0004 0x0101 0x001e		20,20,20,20,20,20,20,20,20,20,20,20,20,2	Read	.32,34,46,44,36,20,20, ,f6,00,00,04,01,01,00,1	0K
III OUTPUT: 64 bytes III IN/OUT: 2 bytes III IN/OUT: 4 bytes III IN/OUT: 4 bytes III IN/OUT: 16 bytes III IN/OUT: 32 bytes IIII IN/OUT: 16 bytes IIII IN/OUT: 128 bytes IIIII IN/OUT: 128 bytes IIIII IN/OUT: 128 bytes IIIII IN/OUT: 128 bytes IIIIIIII IN/OUT: 128 bytes IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	Rev. Counter Profile ID Profile Type IM Version IM Supported R_V1) R_V2_RT)	0x0000 0xf600 0x0004 0x0101 0x001e		20.20.20.20.20.20.20.20.20.20.20.20.20.2	Read	.32,34,46,44,36,20,20,7 ,f6,00,00,04,01,01,00,1	0K
OUTPUT: 64 bytes IN/OUT: 2 bytes IN/OUT: 4 bytes IN/OUT: 4 bytes IN/OUT: 16 bytes IN/OUT: 16 bytes IN/OUT: 16 bytes IN/OUT: 12 bytes IN/OUT: 128 bytes	Rev. Counter Profile ID Profile Type IM Version IM Supported R_V1) R_V2_RT)	0x0000 0xf600 0x0004 0x0101 0x001e	DevNum 0	20.20,20,20,20,20,20,20,20,20,20,20,20,20,2	Read	.32,34,46,44,36,20,20,7 ,f6,00,00,04,01,01,00,1	0K
□ ■ OUTPUT: 64 bytes □ ■ IN/OUT: 2 bytes □ ■ IN/OUT: 4 bytes □ ■ IN/OUT: 8 bytes □ ■ IN/OUT: 16 bytes □ ■ IN/OUT: 32 bytes □ ■ IN/OUT: 32 bytes □ ■ IN/OUT: 128 bytes □ ■ IN/OUT: 128 bytes □ ■ BIDIR256 □ ■ BIDIR1024 □ ■ BIDIR1024 □ ■ BIT (T_ID_ABS_PII □ ■ BT (T_ID_ABS_PII □ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■	Rev. Counter Profile ID Profile Type IM Version IM Supported R_V1) R_V2_RT)	0x0000 0xf600 0x0004 0x0101 0x001e	DevNum 0	20.20.20.20.20.20.20.20.20.20.20.20.20.2	Read		0K
OUTPUT: 64 bytes IN/OUT: 2 bytes IN/OUT: 4 bytes IN/OUT: 8 bytes IN/OUT: 8 bytes IN/OUT: 16 bytes IN/OUT: 32 bytes IN/OUT: 32 bytes IN/OUT: 32 bytes IN/OUT: 128 bytes IN/OUT:	Rev. Counter Profile ID Profile Type IM Version IM Supported R_V1) R_V2_RT)	0x0000 0xf600 0x0004 0x0101 0x001e	DevNum 0	20,20,20,20,20,20,20,20,20,20,20,20,20,2	Read	.32,34,46,44,36,20,20, ,f6,00,00,04,01,01,00,1	0,20,20,20,20 e

To read or write acyclic information, put in the API-ID, Slot, SubSlot and Record Index. If the function fails, you'll get the corresponding PNIO error code.

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4 Save Configuration

The resulting stationlist is stored in a text file which must be provided to the ProfinetIO Master Library.

Sample:

> Station [NAME] station8 [MFG NAME] ABS-PIR [VENDOR NAME] HMS Industrial Networks [STATION_ID] 0c 01 06 00 01 00 [MAC_ADDR] 00 30 11 04 bd 90 [IP PARAMS] c0 a8 01 08 ff ff ff 00 00 00 00 00 [TI PARAMS] 00 >> Module [NAME] T ID ABS PIR V2 RT [MOD ID] 00 00 00 d0 [MOD TYPE] 00 00 [SLOT_NUM] 00 00 >>> Submodule [SUBMOD ID] 01 00 00 00 [SUBSLOT NUM] 01 00 [OBJ INPUT] 00 00 00 00 01 00 00 00 01 00 00 00 >>> Submodule [SUBMOD ID] $02 \quad 00 \quad 0\overline{0} \quad 00$ [SUBSLOT_NUM] 00 80 [OBJ INPUT] $01 \hspace{0.1cm} 00 \hspace$ 00 00 00 00 01 00 00 00 01 00 00 00 >>> Submodule [SUBMOD ID] 03 00 00 00 [SUBSLOT NUM] 01 80 [OBJ INPUT] $01 \hspace{0.1cm} 0\overline{0} \hspace{0.1cm} 00 \hspace{0.1cm} 0$

00 00 00 00 01 00 00 00 01 00 00 00

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>>> Submodule

[SUBMOD ID] 03 00 00 00 [SUBSLOT_NUM] 02 80 [OBJ INPUT] 00 00 00 00 01 00 00 00 01 00 00 00 >> Module [NAME] T_ID_RT_IN2 [MOD_ID] $02 \quad 0\overline{0} \quad 00 \quad 00$ [MOD TYPE] 01 00 [SLOT_NUM] 01 00 >>> Submodule [SUBMOD_ID] 01 00 00 00 [SUBSLOT NUM] 01 00 [OBJ INPUT] $01 \hspace{0.1in} 05 \hspace{0.1in} 00 \hspace$ 02 00 00 00 01 00 00 00 01 00 00 00 >> Module [NAME] T_ID_RT_OUT2 [MOD_ID] $20 \ 0\overline{0} \ 00 \ 00$ [MOD TYPE] 01 00 [SLOT_NUM] 02 00 >>> Submodule [SUBMOD ID] 01 00 00 00 [SUBSLOT NUM] 01 00 [OBJ OUTPUT] $\stackrel{\circ}{_{01}} \stackrel{\circ}{_{05}} \stackrel{\circ}{_{00}} \stackrel{\circ}$ $02 \ 00 \ 00 \ 01 \ 00 \ 00 \ 01 \ 00 \ 00 \ 00 \ 00$

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5 Error Handling

The master library provides an error handling and tracing mechanism.

5.1 Debug LOG File

On execution the master library creates a sequence file PNTDBG.LOG in Text-Format

Note: This file is not accessible while the application is running

5.2 Event File

On execution the master library logs error event to the Windows Event Manager. The master library logs Application and System events. These events can be exported to a file and provided for support purposes.

🖪 Ereignisanzeige								
Datei Aktion Ansicht ? ← → 🔁 🖬 😭 🔂 😫	2 🗈							
😥 Ereignisanzeige (Lokal)	Anwendung 3 Ereignis(se)							
Anwendung Sicherheit	Тур	Typ Datum Uhrzeit Quelle		Quelle	Kategorie			
System	Fehler	10.12.2010	10:42:40	ETHDLL	(66)			
ACEEventLog	Informatio	10.12.2010	09:48:17	MSSQL\$SQLEXPRESS	(2)			
ASI Internet Explorer	Informatio	10.12.2010	09:29:41	MSSQL\$SQLEXPRESS	(2)			
	<				>			