

hitex

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Example Company
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Plant data

Location:	Example Location	Σ IO Controller:	2
Plant name:	Flower	Σ IO Devices:	6
Network name:	PLC33	Σ Network devices:	1

Overview of test cases and test results

Measurement period: 23/10/20
Export file name:
Report file name: Area33_AcceptanceReport.xlsm

	Good without reservation	Good with remarks	Rework recommended
Consistency check			x
Detection of network stations		x	
Detection of topology		x	
Comparison with engineering data		x	
Comparison with reference measurement	n.a.	n.a.	n.a.
Analysis of statistical data		x	
Analysis of diagnostic data			x
Cable test data	x		

Current network status

The network is working properly and it is installed expertly in compliance with industry standards. No further action is necessary.

The network is working properly and it is installed expertly in compliance with industry standards. Please check hints and suggestions in chapter "Detailed Results".

x Defects have been found, a properly working network cannot be guaranteed, and/or the risk of

Customer	
Date	Signature

Examiner	
06/11/2020 D Tomlin	
Date	Signature

Evaluation of results

The area was being commissioned as we were testing it so setup was not 100% complete for modules etc

In the Statistics tab some cables show issues with bandwidth, All of the links to the ASI gateways are 10MB rather than 100MB, after consultation with XXXX this appears to be a limitation of the ASI gateways.

There are more connected devices than are in the schematics

We tested the 4 cables on the schematics but no others
the following devices are on the network but not on the schematic:

x31562

PN-0033.00.99.a01-160k2

PN-0033.00.99.a01-175k1

PN-0033.00.99.a01-165k1

Recommended actions

A final test when all devices for this network are running is advised.

Topology information

Ring with redundancy manager: no
 Line depth: 2
 Copper connections present: yes
 OFC connections present: no
 Topology map: see appendix

Consistency check

Criteria	Check value	Result	Evaluation
Wrong IP addresses	172.10.9	IP range matches for all stations.	Ok
Subnet mask	255.255.255.192	One value for subnet mask was detected. It mismatches with the check value.	Warning
Default gateway		Default gateway is set to the same as the device IP	Warning
Maximum line depth	22	The measured line depth within the limit.	Ok
Firmware versions	see White List	No list of firmware versions supplied	unchecked
Naming schema - check prefix	pn-0033.	The prefix doesn't match for all stations with the check value. 1 of 8 stations have a prefix. The names of the corresponding stations are marked red (see detailed results).	Error
Naming schema - character length			unchecked
GSDML file	n.a.	40 diagnostic entries were found, indicating that a wrong GSDML file is used.	Warning

Comparison with engineering data

Consitant

Comparison with reference measurement

NA

Check of valid firmware versions

Sum of different order numbers in export: 7
Sum of different firmware versions in export: 7

White list		
Device type	Order number	FW version

Detailed results

Detection of network stations - PROFINET information

Station	Device type	Serial number	Order number	HW version	FW version
pn-0033.00.99.a01-160k2	S7-300		6ES7 318-3FL01-0AB0	10	V3.2.16
pn-0033.00.99.a01-165k1	ET200SP	S C-LNEM88472019	6ES7 155-6AU01-0BN0	2	V4.1.0
x31562	unknown		6AV2 124-2DC01-0AX0	0	V15.0.0
pn-0033.00.99.a01-175k1	PNPN_IOC	S C-LND302822019	6ES7 158-3AD10-0XA0	5	V4.2.0
pn-0033.00.99.a01-190k1	SCALANCE X-200	VPLN201695	6GK5 208-0BA10-2AA3	7	V5.2.4
pn-0033.00.95.a01-190k1	SCALANCE XC-200	VPLN193363	6GK5 208-0BA00-2AC2	2	V4.1.0
pn-0033.00.94.a01-170k1	AS-i/PROFINET Gateway	50017109	VBG-PN-K20-DMD-EV2	2	V2.0.0
pn-0033.00.91.a01-170k1	PNPN_IOC	S C-LNER18372019	6ES7 158-3AD10-0XA0	5	V4.2.0
DT-X220-Lenovo			LRA-JY-003028		V4.3.0.1560

Detection of network stations - network information

Station	Address/Slot	Subnet mask	Gateway	MAC address
pn-0033.00.99.a01-160k2	172.10.9.66	255.255.255.224	172.10.9.66	AC:64:17:5F:CD:3A
pn-0033.00.99.a01-165k1	172.10.9.67	255.255.255.224	172.10.9.67	AC:64:17:80:BE:80
x31562	172.10.9.68	255.255.255.224	0.0.0.0	AC:64:17:45:C0:52
pn-0033.00.99.a01-175k1	172.10.9.69	255.255.255.224	172.10.9.69	AC:64:17:7F:43:C2
pn-0033.00.99.a01-190k1	172.10.9.70	255.255.255.224	172.10.9.70	D4:F5:27:23:0E:95
pn-0033.00.95.a01-190k1	172.10.9.71	255.255.255.224	172.10.9.71	D4:F5:27:20:E1:7C
pn-0033.00.94.a01-170k1	172.10.9.72	255.255.255.224	172.10.9.72	00:16:77:05:24:D3
pn-0033.00.91.a01-170k1	172.10.9.76	255.255.255.224	172.10.9.76	AC:64:17:80:E8:7D
DT-X220-Lenovo	172.10.9.84	255.255.255.224	172.10.9.85	F0:DE:F1:EB:C8:B9

Analysis of statistical data

Max. transmission speed: 1518 kBit/s
 Max. error packets: 2 at pn-0033.00.99.a01-160k2 (Port 2) As expected in network being configured while we were testing

Statistical check

Criteria	Check value	Result	Evaluation
Bandwidth and duplex type	100 M/DX	Not all active ports have the correct bandwidth and duplex type (marked red). See detailed results.	Error
Maximum port load in % (*)	50.0	All port load values are below the specified limit.	Ok
Power budget - critical			unchecked
Power budget - alarming			

(*) Test of "Transmission speed receive" and "Transmission speed send"

Station	Data rate in Byte/cycle	Port	Status	Bandwidth in MBit/s	Duplex type	Connection information	Cable length in m	Power budget in dB	Transmission speed in kBit/s Receive	Transmission speed in kBit/s Send	Lost packets Error packets	Lost packets Discarded packets
pn-0033.00.99.a01-160k2	194	1	Down	0	DX			n.a.	0	0	0	0
pn-0033.00.99.a01-160k2	194	2	Up	100	DX	n.a.		n.a.	1167	1166	2	0
pn-0033.00.99.a01-165k1	20	1	Up	100	DX	n.a.		n.a.	279	282	0	0
pn-0033.00.99.a01-165k1	20	2	Down	0	DX			n.a.	0	0	0	0
x31562	0	1	Up	100	DX	n.a.		n.a.	13	12	0	0
pn-0033.00.99.a01-175k1	54	1	Down	0	DX			n.a.	0	0	0	0
pn-0033.00.99.a01-175k1	54	2	Up	100	DX	n.a.		n.a.	279	281	0	0
pn-0033.00.99.a01-190k1	0	1	Up	100	DX	n.a.		n.a.	866	852	0	0
pn-0033.00.99.a01-190k1	0	2	Up	100	DX			n.a.	40	39	0	0
pn-0033.00.99.a01-190k1	0	3	Up	100	DX	n.a.		n.a.	1518	1518	0	0
pn-0033.00.99.a01-190k1	0	4	Up	100	DX	n.a.		n.a.	18	19	0	0
pn-0033.00.99.a01-190k1	0	5	Up	100	DX	n.a.		n.a.	244	242	0	0

Station	Data rate in Byte/cycle	Port	Status	Bandwidth in MBit/s	Duplex type	Connection information Cable length in m	Power budget in dB	Transmission speed in kBit/s Receive	Transmission speed in kBit/s Send	Lost packets Error packets	Lost packets Discarded packets
pn-0033.00.99.a01-190k1	0	6	Up	100	DX	n.a.	n.a.	243	242	0	0
pn-0033.00.99.a01-190k1	0	7	Down	0	DX		n.a.	0	0	0	0
pn-0033.00.99.a01-190k1	0	8	Up	100	DX	n.a.	n.a.	44	59	0	0
pn-0033.00.95.a01-190k1	n.a.	1	Up	100	DX	n.a.	n.a.	872	884	0	0
pn-0033.00.95.a01-190k1	n.a.	2	Up	100	DX		n.a.	40	41	0	0
pn-0033.00.95.a01-190k1	n.a.	3	Up	100	DX	n.a.	n.a.	448	525	0	0
pn-0033.00.95.a01-190k1	n.a.	4	Up	100	DX	n.a.	n.a.	376	450	0	0
pn-0033.00.95.a01-190k1	n.a.	5	Down	0	DX		n.a.	0	0	0	0
pn-0033.00.95.a01-190k1	n.a.	6	Down	0	DX		n.a.	0	0	0	0
pn-0033.00.95.a01-190k1	n.a.	7	Down	0	DX		n.a.	0	0	0	0
pn-0033.00.95.a01-190k1	n.a.	8	Down	0	DX		n.a.	0	0	0	0
pn-0033.00.94.a01-170k1	88	1	Up	10	DX	n.a.	n.a.	0	0	0	0
pn-0033.00.94.a01-170k1	88	2	Up	100	DX		n.a.	0	0	0	0
pn-0033.00.94.a01-170k1	88	3	Up	100	DX		n.a.	395	338	0	0
pn-0033.00.94.a01-170k1	88	4	Down	0	DX		n.a.	0	0	0	0
pn-0033.00.91.a01-170k1	32	1	Up	100	DX	n.a.	n.a.	338	283	0	0
pn-0033.00.91.a01-170k1	32	2	Down	0	DX		n.a.	0	0	0	0
DT-X220-Lenovo	n.a.										

Analysis of diagnostic data - error statistics

ASI Gateways only allow 10MB connection

Station	Address	Failures	Diagnostics	Lost packets
pn-0033.00.99.a01-160k2	172.10.9.66	0	0	2
pn-0033.00.99.a01-165k1	172.10.9.67	0	2	0
pn-0033.00.99.a01-175k1	172.10.9.69	0	2	0
pn-0033.00.99.a01-190k1	172.10.9.70	0	32	0
pn-0033.00.95.a01-190k1	172.10.9.71	0	32	0
pn-0033.00.94.a01-170k1	172.10.9.72	0	3	0
pn-0033.00.91.a01-170k1	172.10.9.76	0	12	0

Cable Test Results

see file:xxxxxx_detailed.pdf for detailed results

ID	Type	Length (m)	Skew (nS)	SNR (dB) Margin	BERT Date	Result
0033.00.95-0033.00.91	CAT5E STP	86.8	---	---	21-10-20	✓ 100M
0033.00.95-0033.00.94	CAT5E STP	36.2	---	---	21-10-20	✓ 100M
0033.00.95-0033.00.99 P	CAT5E STP	57.1	---	---	21-10-20	✓ 100M
0033.0095P1-0033.00.99	CAT5E STP	57.3	---	---	21-10-20	✓ 100M

Analysis of diagnostic data - diagnostic messages

Need to investigate the error messages, there are a lot of submodule issues

ID	Date, Time	State	Station	Address/Slot	Diagnostics message	Troubleshooting tips
92	23 Oct 2020 12:15:02 AM	Device ok	pn-0033.00.91.a01-170k1	172.10.9.76	Device status ok	
91	23 Oct 2020 12:14:50 AM	Module with diagnostics	pn-0033.00.91.a01-170k1	172.10.9.76 / 0x0000 / 0x0001	Submodule has diagnostics	The submodule has a diagnostics. The data can be read.
90	23 Oct 2020 12:14:50 AM	Module with diagnostics	pn-0033.00.91.a01-170k1	172.10.9.76 / 0x0000 / 0x0001	Application Relation (between controller and device) ok	
89	23 Oct 2020 12:14:50 AM	Module with diagnostics	pn-0033.00.91.a01-170k1	172.10.9.76 / 0x0000 / 0x0001	Proper submodule	
88	23 Oct 2020 12:14:50 AM	Module with diagnostics	pn-0033.00.91.a01-170k1	172.10.9.76 / 0x0000 / 0x0001	Proper module	The module is okay but at least one submodule has diagnostics, is locked, wrong or missing. Please check the submodule specific message for further information.
87	23 Oct 2020 12:14:50 AM	Device ok	pn-0033.00.94.a01-170k1	172.10.9.72	Device status ok	
86	23 Oct 2020 12:14:48 AM	Device with parameter failure	pn-0033.00.91.a01-170k1	172.10.9.76	00h:00m:02s ago: WatchdogTime expired. man.spec.logbook entry: 0x11400005	Either controller has stopped communication or ethernet connection is interrupted.
85	23 Oct 2020 12:14:48 AM	Device with parameter failure	pn-0033.00.94.a01-170k1	172.10.9.72	00h:00m:02s ago: WatchdogTime expired. man.spec.logbook entry: 0x11400005	Either controller has stopped communication or ethernet connection is interrupted.
84	23 Oct 2020 12:14:48 AM	Device ok	pn-0033.00.95.a01-190k1	172.10.9.71	Device status ok	
83	23 Oct 2020 12:14:48 AM	Device ok	pn-0033.00.99.a01-190k1	172.10.9.70	Device status ok	
82	23 Oct 2020 12:14:48 AM	Device ok	pn-0033.00.99.a01-175k1	172.10.9.69	Device status ok	
81	23 Oct 2020 12:14:48 AM	Device ok	pn-0033.00.99.a01-165k1	172.10.9.67	Device status ok	

ID	Date, Time	State	Station	Address/Slot	Diagnostics message	Troubleshooting tips
80	23 Oct 2020 12:11:34 AM	Device with parameter failure	pn-0033.00.94.a01-170k1	172.10.9.72	00h:00m:02s ago: received alarm data wrong.	Alarm could not be processed because of a malformed packet. Please check your PROFINET equipment for latest firmware and check cables.
79	23 Oct 2020 12:11:34 AM	Device with parameter failure	pn-0033.00.94.a01-170k1	172.10.9.72	No parameters	Device has no parameters. Please check if controller is running and that device was correctly setup in the hardware project.
78	23 Oct 2020 12:11:34 AM	Device with parameter failure	pn-0033.00.95.a01-190k1	172.10.9.71	00h:00m:00s ago: received alarm data wrong.	Alarm could not be processed because of a malformed packet. Please check your PROFINET equipment for latest firmware and check cables.
77	23 Oct 2020 12:11:34 AM	Device with parameter failure	pn-0033.00.95.a01-190k1	172.10.9.71	No parameters	Device has no parameters. Please check if controller is running and that device was correctly setup in the hardware project.
76	23 Oct 2020 12:11:34 AM	Device with parameter failure	pn-0033.00.99.a01-190k1	172.10.9.70	00h:00m:00s ago: received alarm data wrong.	Alarm could not be processed because of a malformed packet. Please check your PROFINET equipment for latest firmware and check cables.
75	23 Oct 2020 12:11:34 AM	Device with parameter failure	pn-0033.00.99.a01-190k1	172.10.9.70	No parameters	Device has no parameters. Please check if controller is running and that device was correctly setup in the hardware project.

ID	Date, Time	State	Station	Address/Slot	Diagnostics message	Troubleshooting tips
74	23 Oct 2020 12:11:34 AM	Device with parameter failure	pn-0033.00.99.a01-175k1	172.10.9.69	00h:00m:02s ago: received alarm data wrong.	Alarm could not be processed because of a malformed packet. Please check your PROFINET equipment for latest firmware and check cables.
73	23 Oct 2020 12:11:34 AM	Device with parameter failure	pn-0033.00.99.a01-175k1	172.10.9.69	No parameters	Device has no parameters. Please check if controller is running and that device was correctly setup in the hardware project.
72	23 Oct 2020 12:11:34 AM	Device with parameter failure	pn-0033.00.99.a01-165k1	172.10.9.67	00h:00m:02s ago: received alarm data wrong.	Alarm could not be processed because of a malformed packet. Please check your PROFINET equipment for latest firmware and check cables.
71	23 Oct 2020 12:11:34 AM	Device with parameter failure	pn-0033.00.99.a01-165k1	172.10.9.67	No parameters	Device has no parameters. Please check if controller is running and that device was correctly setup in the hardware project.
70	23 Oct 2020 12:11:32 AM	Device with parameter failure	pn-0033.00.91.a01-170k1	172.10.9.76	00h:00m:00s ago: received alarm data wrong.	Alarm could not be processed because of a malformed packet. Please check your PROFINET equipment for latest firmware and check cables.
69	23 Oct 2020 12:11:32 AM	Device with parameter failure	pn-0033.00.91.a01-170k1	172.10.9.76	No parameters	Device has no parameters. Please check if controller is running and that device was correctly setup in the hardware project.

ID	Date, Time	State	Station	Address/Slot	Diagnostics message	Troubleshooting tips
68	23 Oct 2020 12:11:11 AM	Module with diagnostics	pn-0033.00.91.a01-170k1	172.10.9.76 / 0x0000 / 0x0001	extended manufacturer specific diagnostics type: 1665	Please contact the manufacturer or have a look at the device manual to find out the exact meaning.
67	23 Oct 2020 12:11:11 AM	Module with diagnostics	pn-0033.00.91.a01-170k1	172.10.9.76 / 0x0000 / 0x0001	Manufacturer specific diagnostics 1537	Please read device documentation or ask the device supplier for further information.
66	23 Oct 2020 12:11:11 AM	Module with diagnostics	pn-0033.00.91.a01-170k1	172.10.9.76 / 0x0000 / 0x0001	Diagnostics for submodule	
65	23 Oct 2020 12:11:11 AM	Module with diagnostics	pn-0033.00.91.a01-170k1	172.10.9.76 / 0x0000 / 0x0001	Submodule has diagnostics	The submodule has a diagnostics. The data can be read.
64	23 Oct 2020 12:11:11 AM	Module with diagnostics	pn-0033.00.91.a01-170k1	172.10.9.76 / 0x0000 / 0x0001	Application Relation (between controller and device) ok	
63	23 Oct 2020 12:11:11 AM	Module with diagnostics	pn-0033.00.91.a01-170k1	172.10.9.76 / 0x0000 / 0x0001	Proper submodule	
62	23 Oct 2020 12:11:11 AM	Module with diagnostics	pn-0033.00.91.a01-170k1	172.10.9.76 / 0x0000 / 0x0001	Proper module	The module is okay but at least one submodule has diagnostics, is locked, wrong or missing. Please check the submodule specific message for further information.
61	23 Oct 2020 12:10:52 AM	Module ok	pn-0033.00.95.a01-190k1	172.10.9.71 / 0x0000 / 0x8008	Application Relation (between controller and device) ok	
60	23 Oct 2020 12:10:52 AM	Module ok	pn-0033.00.95.a01-190k1	172.10.9.71 / 0x0000 / 0x8008	Submodule substitute	Submodule is not the original submodule, but compatible. Please check that the correct GSDML file is used.
59	23 Oct 2020 12:10:52 AM	Module ok	pn-0033.00.95.a01-190k1	172.10.9.71 / 0x0000 / 0x8008	Substitute module	Module is not the original module, but compatible. Please check that the correct GSDML file is used.
58	23 Oct 2020 12:10:51 AM	Module ok	pn-0033.00.95.a01-190k1	172.10.9.71 / 0x0000 / 0x8007	Application Relation (between controller and device) ok	

ID	Date, Time	State	Station	Address/Slot	Diagnostics message	Troubleshooting tips
57	23 Oct 2020 12:10:51 AM	Module ok	pn-0033.00.95.a01-190k1	172.10.9.71 / 0x0000 / 0x8007	Submodule substitute	Submodule is not the original submodule, but compatible. Please check that the correct GSDML file is used.
56	23 Oct 2020 12:10:51 AM	Module ok	pn-0033.00.95.a01-190k1	172.10.9.71 / 0x0000 / 0x8007	Substitute module	Module is not the original module, but compatible. Please check that the correct GSDML file is used.
55	23 Oct 2020 12:10:51 AM	Module ok	pn-0033.00.95.a01-190k1	172.10.9.71 / 0x0000 / 0x8006	Application Relation (between controller and device) ok	
54	23 Oct 2020 12:10:51 AM	Module ok	pn-0033.00.95.a01-190k1	172.10.9.71 / 0x0000 / 0x8006	Submodule substitute	Submodule is not the original submodule, but compatible. Please check that the correct GSDML file is used.
53	23 Oct 2020 12:10:51 AM	Module ok	pn-0033.00.95.a01-190k1	172.10.9.71 / 0x0000 / 0x8006	Substitute module	Module is not the original module, but compatible. Please check that the correct GSDML file is used.
52	23 Oct 2020 12:10:51 AM	Module ok	pn-0033.00.95.a01-190k1	172.10.9.71 / 0x0000 / 0x8005	Application Relation (between controller and device) ok	
51	23 Oct 2020 12:10:51 AM	Module ok	pn-0033.00.95.a01-190k1	172.10.9.71 / 0x0000 / 0x8005	Submodule substitute	Submodule is not the original submodule, but compatible. Please check that the correct GSDML file is used.
50	23 Oct 2020 12:10:51 AM	Module ok	pn-0033.00.95.a01-190k1	172.10.9.71 / 0x0000 / 0x8005	Substitute module	Module is not the original module, but compatible. Please check that the correct GSDML file is used.
49	23 Oct 2020 12:10:51 AM	Module ok	pn-0033.00.95.a01-190k1	172.10.9.71 / 0x0000 / 0x8004	Application Relation (between controller and device) ok	

ID	Date, Time	State	Station	Address/Slot	Diagnostics message	Troubleshooting tips
48	23 Oct 2020 12:10:51 AM	Module ok	pn-0033.00.95.a01-190k1	172.10.9.71 / 0x0000 / 0x8004	Submodule substitute	Submodule is not the original submodule, but compatible. Please check that the correct GSDML file is used.
47	23 Oct 2020 12:10:51 AM	Module ok	pn-0033.00.95.a01-190k1	172.10.9.71 / 0x0000 / 0x8004	Substitute module	Module is not the original module, but compatible. Please check that the correct GSDML file is used.
46	23 Oct 2020 12:10:51 AM	Module ok	pn-0033.00.95.a01-190k1	172.10.9.71 / 0x0000 / 0x8003	Application Relation (between controller and device) ok	
45	23 Oct 2020 12:10:51 AM	Module ok	pn-0033.00.95.a01-190k1	172.10.9.71 / 0x0000 / 0x8003	Submodule substitute	Submodule is not the original submodule, but compatible. Please check that the correct GSDML file is used.
44	23 Oct 2020 12:10:51 AM	Module ok	pn-0033.00.95.a01-190k1	172.10.9.71 / 0x0000 / 0x8003	Substitute module	Module is not the original module, but compatible. Please check that the correct GSDML file is used.
43	23 Oct 2020 12:10:51 AM	Module ok	pn-0033.00.95.a01-190k1	172.10.9.71 / 0x0000 / 0x8002	Application Relation (between controller and device) ok	
42	23 Oct 2020 12:10:51 AM	Module ok	pn-0033.00.95.a01-190k1	172.10.9.71 / 0x0000 / 0x8002	Submodule substitute	Submodule is not the original submodule, but compatible. Please check that the correct GSDML file is used.
41	23 Oct 2020 12:10:51 AM	Module ok	pn-0033.00.95.a01-190k1	172.10.9.71 / 0x0000 / 0x8002	Substitute module	Module is not the original module, but compatible. Please check that the correct GSDML file is used.
40	23 Oct 2020 12:10:51 AM	Module ok	pn-0033.00.95.a01-190k1	172.10.9.71 / 0x0000 / 0x8001	Application Relation (between controller and device) ok	

ID	Date, Time	State	Station	Address/Slot	Diagnostics message	Troubleshooting tips
39	23 Oct 2020 12:10:51 AM	Module ok	pn-0033.00.95.a01-190k1	172.10.9.71 / 0x0000 / 0x8001	Submodule substitute	Submodule is not the original submodule, but compatible. Please check that the correct GSDML file is used.
38	23 Oct 2020 12:10:51 AM	Module ok	pn-0033.00.95.a01-190k1	172.10.9.71 / 0x0000 / 0x8001	Substitute module	Module is not the original module, but compatible. Please check that the correct GSDML file is used.
37	23 Oct 2020 12:10:51 AM	Module ok	pn-0033.00.95.a01-190k1	172.10.9.71 / 0x0000 / 0x8000	Application Relation (between controller and device) ok	
36	23 Oct 2020 12:10:51 AM	Module ok	pn-0033.00.95.a01-190k1	172.10.9.71 / 0x0000 / 0x8000	Submodule substitute	Submodule is not the original submodule, but compatible. Please check that the correct GSDML file is used.
35	23 Oct 2020 12:10:51 AM	Module ok	pn-0033.00.95.a01-190k1	172.10.9.71 / 0x0000 / 0x8000	Substitute module	Module is not the original module, but compatible. Please check that the correct GSDML file is used.
34	23 Oct 2020 12:10:51 AM	Module ok	pn-0033.00.95.a01-190k1	172.10.9.71 / 0x0000 / 0x0001	Application Relation (between controller and device) ok	
33	23 Oct 2020 12:10:51 AM	Module ok	pn-0033.00.95.a01-190k1	172.10.9.71 / 0x0000 / 0x0001	Submodule substitute	Submodule is not the original submodule, but compatible. Please check that the correct GSDML file is used.
32	23 Oct 2020 12:10:51 AM	Module ok	pn-0033.00.95.a01-190k1	172.10.9.71 / 0x0000 / 0x0001	Substitute module	Module is not the original module, but compatible. Please check that the correct GSDML file is used.
31	23 Oct 2020 12:10:51 AM	Module ok	pn-0033.00.99.a01-190k1	172.10.9.70 / 0x0000 / 0x8008	Application Relation (between controller and device) ok	

ID	Date, Time	State	Station	Address/Slot	Diagnostics message	Troubleshooting tips
30	23 Oct 2020 12:10:51 AM	Module ok	pn-0033.00.99.a01-190k1	172.10.9.70 / 0x0000 / 0x8008	Submodule substitute	Submodule is not the original submodule, but compatible. Please check that the correct GSDML file is used.
29	23 Oct 2020 12:10:51 AM	Module ok	pn-0033.00.99.a01-190k1	172.10.9.70 / 0x0000 / 0x8008	Substitute module	Module is not the original module, but compatible. Please check that the correct GSDML file is used.
28	23 Oct 2020 12:10:51 AM	Module ok	pn-0033.00.99.a01-190k1	172.10.9.70 / 0x0000 / 0x8007	Application Relation (between controller and device) ok	
27	23 Oct 2020 12:10:51 AM	Module ok	pn-0033.00.99.a01-190k1	172.10.9.70 / 0x0000 / 0x8007	Submodule substitute	Submodule is not the original submodule, but compatible. Please check that the correct GSDML file is used.
26	23 Oct 2020 12:10:51 AM	Module ok	pn-0033.00.99.a01-190k1	172.10.9.70 / 0x0000 / 0x8007	Substitute module	Module is not the original module, but compatible. Please check that the correct GSDML file is used.
25	23 Oct 2020 12:10:51 AM	Module ok	pn-0033.00.99.a01-190k1	172.10.9.70 / 0x0000 / 0x8006	Application Relation (between controller and device) ok	
24	23 Oct 2020 12:10:51 AM	Module ok	pn-0033.00.99.a01-190k1	172.10.9.70 / 0x0000 / 0x8006	Submodule substitute	Submodule is not the original submodule, but compatible. Please check that the correct GSDML file is used.
23	23 Oct 2020 12:10:51 AM	Module ok	pn-0033.00.99.a01-190k1	172.10.9.70 / 0x0000 / 0x8006	Substitute module	Module is not the original module, but compatible. Please check that the correct GSDML file is used.
22	23 Oct 2020 12:10:51 AM	Module ok	pn-0033.00.99.a01-190k1	172.10.9.70 / 0x0000 / 0x8005	Application Relation (between controller and device) ok	

ID	Date, Time	State	Station	Address/Slot	Diagnostics message	Troubleshooting tips
21	23 Oct 2020 12:10:51 AM	Module ok	pn-0033.00.99.a01-190k1	172.10.9.70 / 0x0000 / 0x8005	Submodule substitute	Submodule is not the original submodule, but compatible. Please check that the correct GSDML file is used.
20	23 Oct 2020 12:10:51 AM	Module ok	pn-0033.00.99.a01-190k1	172.10.9.70 / 0x0000 / 0x8005	Substitute module	Module is not the original module, but compatible. Please check that the correct GSDML file is used.
19	23 Oct 2020 12:10:51 AM	Module ok	pn-0033.00.99.a01-190k1	172.10.9.70 / 0x0000 / 0x8004	Application Relation (between controller and device) ok	
18	23 Oct 2020 12:10:51 AM	Module ok	pn-0033.00.99.a01-190k1	172.10.9.70 / 0x0000 / 0x8004	Submodule substitute	Submodule is not the original submodule, but compatible. Please check that the correct GSDML file is used.
17	23 Oct 2020 12:10:51 AM	Module ok	pn-0033.00.99.a01-190k1	172.10.9.70 / 0x0000 / 0x8004	Substitute module	Module is not the original module, but compatible. Please check that the correct GSDML file is used.
16	23 Oct 2020 12:10:51 AM	Module ok	pn-0033.00.99.a01-190k1	172.10.9.70 / 0x0000 / 0x8003	Application Relation (between controller and device) ok	
15	23 Oct 2020 12:10:51 AM	Module ok	pn-0033.00.99.a01-190k1	172.10.9.70 / 0x0000 / 0x8003	Submodule substitute	Submodule is not the original submodule, but compatible. Please check that the correct GSDML file is used.
14	23 Oct 2020 12:10:51 AM	Module ok	pn-0033.00.99.a01-190k1	172.10.9.70 / 0x0000 / 0x8003	Substitute module	Module is not the original module, but compatible. Please check that the correct GSDML file is used.
13	23 Oct 2020 12:10:51 AM	Module ok	pn-0033.00.99.a01-190k1	172.10.9.70 / 0x0000 / 0x8002	Application Relation (between controller and device) ok	

ID	Date, Time	State	Station	Address/Slot	Diagnostics message	Troubleshooting tips
12	23 Oct 2020 12:10:51 AM	Module ok	pn-0033.00.99.a01-190k1	172.10.9.70 / 0x0000 / 0x8002	Submodule substitute	Submodule is not the original submodule, but compatible. Please check that the correct GSDML file is used.
11	23 Oct 2020 12:10:51 AM	Module ok	pn-0033.00.99.a01-190k1	172.10.9.70 / 0x0000 / 0x8002	Substitute module	Module is not the original module, but compatible. Please check that the correct GSDML file is used.
10	23 Oct 2020 12:10:51 AM	Module ok	pn-0033.00.99.a01-190k1	172.10.9.70 / 0x0000 / 0x8001	Application Relation (between controller and device) ok	
9	23 Oct 2020 12:10:51 AM	Module ok	pn-0033.00.99.a01-190k1	172.10.9.70 / 0x0000 / 0x8001	Submodule substitute	Submodule is not the original submodule, but compatible. Please check that the correct GSDML file is used.
8	23 Oct 2020 12:10:51 AM	Module ok	pn-0033.00.99.a01-190k1	172.10.9.70 / 0x0000 / 0x8001	Substitute module	Module is not the original module, but compatible. Please check that the correct GSDML file is used.
7	23 Oct 2020 12:10:51 AM	Module ok	pn-0033.00.99.a01-190k1	172.10.9.70 / 0x0000 / 0x8000	Application Relation (between controller and device) ok	
6	23 Oct 2020 12:10:51 AM	Module ok	pn-0033.00.99.a01-190k1	172.10.9.70 / 0x0000 / 0x8000	Submodule substitute	Submodule is not the original submodule, but compatible. Please check that the correct GSDML file is used.
5	23 Oct 2020 12:10:51 AM	Module ok	pn-0033.00.99.a01-190k1	172.10.9.70 / 0x0000 / 0x8000	Substitute module	Module is not the original module, but compatible. Please check that the correct GSDML file is used.
4	23 Oct 2020 12:10:51 AM	Module ok	pn-0033.00.99.a01-190k1	172.10.9.70 / 0x0000 / 0x0001	Application Relation (between controller and device) ok	

ID	Date, Time	State	Station	Address/Slot	Diagnostics message	Troubleshooting tips
3	23 Oct 2020 12:10:51 AM	Module ok	pn-0033.00.99.a01-190k1	172.10.9.70 / 0x0000 / 0x0001	Submodule substitute	Submodule is not the original submodule, but compatible. Please check that the correct GSDML file is used.
2	23 Oct 2020 12:10:51 AM	Module ok	pn-0033.00.99.a01-190k1	172.10.9.70 / 0x0000 / 0x0001	Substitute module	Module is not the original module, but compatible. Please check that the correct GSDML file is used.
1	23 Oct 2020 12:10:30 AM				Measurement started	Measurement without historical data

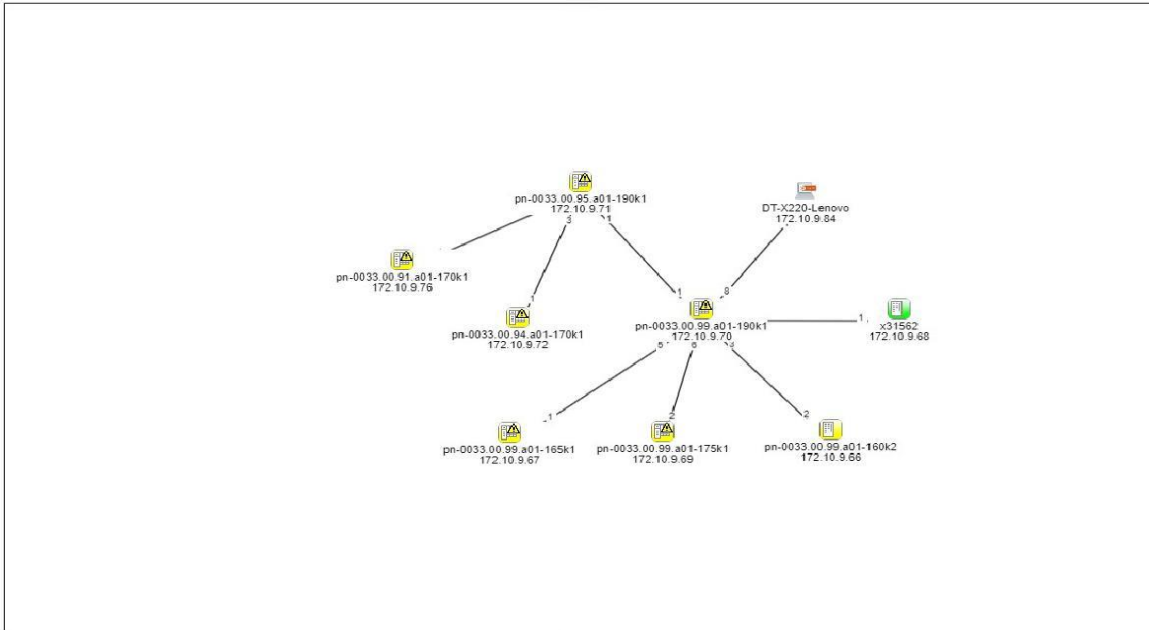
Appendix
Detected topology

see file: Area33_Topology.pdf

Minimized view:

softing TH SCOPE 23.10.2020 0:16:7

Topology for TH LINK (DT-X220-Lenovo | 172.10.9.84) Line depth: 2



Reference

Reference object:
Reference topology:
Minimized view: