HOW TO REPLACE ARENA 3 WITH ARENA NX



User Guide

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USER GUIDE

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Overview

This document is a step-by-step description of how to replace an ARENA 3.00 supervisor with an ARENA NX supervisor.

Replacing ARENA Classic with ARENA NX with the interfaces CLIF-CBUSLC + IF-LON2 + LIP

ARENA Classic site commissioned with Coach or CARE



Fig. 1. Typical ARENA Classic Configuration with XL5000 controllers communicating via virtual C-Bus and SERVAL controller on LON

Review of the existing installation

1. Check the Domain, Subnet and Node addresses in COACH:

Domain is always CE, Subdomain is always 1, Node addresses start with 1, so the Node address for CLIF and L-IP should be 127 and 126. Also you can see the subnet/Node ID in Coach when you click the device in the tree, and check the *Summary* tab.

📔 Coach - Precontrol	
<u>F</u> ile <u>V</u> iew <u>C</u> onfigure <u>H</u> elp	
Precontrol	월 @ 🖪 ळ ≱ 善 · Assign Controller Type - ×
Engineering View - 4	Configuration 👻 🕂
Controller 🖓	Functions Equipment Connections
□ ● □ Ontroller_1 □ ● □ Plant_1 □ ● □ Zoorget □ ● □ Zoorget □ ● □ Plant_1 □ ● □ Zoorget ⊡ ● □ Plant_1 □ ● □ Zoorget ⊡ ● □ FCU(Serval)_1	Functions Model Type CLSE 11.230 Room Control Confi Fancoil Unit with Heating Valve/Cooling Control mode Standalone/Master Manual Override Yes Precontrol Assignm Controller_1/Plant_1/Pre-Contro Timeprogram Assig Controller_1/Plant_1/Pre-Contro
🔜 Summary	★ 4
Property	Details
Version	3.0.0.34
Name	FCU(Serval)
Category	
Subnet ID/Node ID	1/2
Error List 🗐 Summary 🖹 Ou put	Alarming
Ready	

Fig. 2. Subnet/ Node ID in COACH, Domain is always CE

2. In CARE, the Domain (see Figure 3) and subnet/ node (see Figure 4) can be viewed as shown in following figures. Node addresses for CLIF and L-IP should be adjusted to unused addresses.

CentraLine System Integrator CARE - XL 5000 10.07 - [plugintest]	
Database Project Controller Plant LON Options Edit View	<u>W</u> indow <u>H</u> elp
150 % 🔄 🔍 🔊 🛣 📶	
● ※ ※ ● + 1 ○ □ ○ ● 2 ● 100 % - Name	
Image: Second	Properties Network Name : LON-Works Description : Network Interface: klaus Network Interface: klaus Domain Settings generate Domain Id randomly Id Stee: 1 byte(s) Generate Domain Id randomly Id: B4 LNS Settings LNS Controlled Extended LNS Options Fanable Care Controlled Flow Parameters for Honeywell VAV2 Devices
	EBI Settings NV Poll Interval: 10 s





	Description :	XL10 Fan Coil Unit controller
	Node Selfdoc String:	
	<u>P</u> ing Interval :	1 minute
	Commision State:	updates pending
	Program ID	
	80000C501403040	Ā
	Location	
	Channel Chan	nel_2
	Neuron Id: 00000	0000000
K	Subnet/Node: 2/2	
	Online State: offline	9

Fig. 4. Subnet/ Node in CARE

1.

ARENA NX System Configuration

2. Connect ARENA NX instead of COACH/CARE with a. the CLIF-CBUSLC and the IF-LON and b. the L-IP Commission the L-IP 3. Connect the existing system 4. NX Supervisor IP ARENA NX PC e.g 192.168.200.10 LION/ PANTHER/ TIGER XL800 XL50 / XL40 ----4 -..... 7 m -----CLIF-CBUSLC SERVAL / XL10/ XL12 USB 💆 IP C-Bus Ē LON - FTT C-BUS driver e.g 192.168.200.25 IF-LON2 Arena NX L-IP LON - IP IP driver LON e.g 192.168.200.23

Configure the CLIF-CBUSLC



Configure the L-IP for SERVAL / XL10/ XL12

- 1. The needed Firmware Version must be 5.0.4 or newer. If you use a newer firmware version the single menus may look different.
- Open the L-IP configuration by entering the following IP Address: 192.168.1.254 (factory default). If you have already changed the IP address , enter your address. Default user: admin, default password: admin
- 3. Under **Device Info**: keep settings

	Device In	Device Info			
Logged in as Guest					
	O General Info				
Device Info	Product name	L-IP			
05-	Product code	LIP-33ECTB			
Config	Firmware	L-Switch/L-IP Primary Image			
Statistics	Version	5.0.4			
Reset	Build date	Fri Feb 27 11:40:38 2009			
Reset	Serial number	006810-80000075406			
Contact	Free memory	12439K, 855K			
Logout	System temp	42.2C			
Logoul	Supply volt	35.6V			
	0/				
	EIA709 Port 1 Info				
	External unique node ID	80 00 00 07 54 06			
	Internal unique node ID	80 00 00 07 54 09			
	Status	Online			
	Send Service Pin Message	Send Service Pin Message			
	<u> </u>				
	EIA709 Port 2 Info				
	External unique node ID	80 00 00 07 54 07			
	Internal unique node ID	80 00 00 07 54 0A			
	Status	Online			
	Send Service Pin Message				
	EIA852 Port Info				
	External unique node ID	80 00 00 07 54 08			
	Internal unique node ID	80 00 00 07 54 0B			
	Status	Online			
	Send Service Pin Message				

Fig. 6. L-IP Device Info settings

	4.	Under Config/System : Set Router Mode to "Configured Router Mode" and press the button "Save Settings" (see next page)
Logged in as Administrator		
Device Info Config Overview System EIA-709 IP EIA-852 Device EIA-852 Server EIA-852 Server EIA-852 Ch. List Passwords Backup	rks under control	Date/Time (GMT) Date (YYYY-MM-DD): 2017-06-20 Time (HH:MM:SS): 16:17:39 Set Date/Time Get Date/Time Webserver
Statistics Reset	etwo	Webserver port: 80 CSV delimiter . ✓
Contact Logout	^D U	Router Mode:
		Save Settings Get Settings

Fig. 7. L-IP Config System settings

5. Under Config/EIA-709 Ports: keep settings

Logged in as Administrator			
		EIA-709 Port 1	
Device late	ž	Transceiver:	FT-10
Device Into	5	Bitrate:	78.1 kBit
Config	ō		
	0	EIA-709 Port 2	
Overview System		Transceiver:	FT-10
■ EIA-709 ■ IP ■ EIA 853 Douting	nde	Bitrate:	78.1 kBit

Fig. 8. L-IP Config EIA-709 settings

Logged in as Administrator

De Co

Sta Re Co Log 6.

Config **Config/IP**, set IP Address and Hostname: e.g. L-IP 192.168.200.23 for XL10 / Serval communication with NX-PC IP address previously set to e.g. 192.168.200.10 " and press the button "Save Settings" (see next page, and also figure 5 New ARENA NX system)

	0	DHCP/BOOTP:	Disabled 🗸	
vice Info	tr	IP Address:	192.168.200.23	
ofic	n	IP Netmask:*	255.255.255.0	
ing	Ŭ	IP Gateway:*	192.168.200.1	
Overview System		Hostname:	newlip	
IA-709	ď	Domainname:		
r EIA-852 Device EIA-852 Server	un	DNS Server 1: (leave empty to disable)		
EIA-852 Ch. List Passwords Backup	rks	DNS Server 2: (leave empty to disable)		
tistics	MO	DNS Server 3: (leave empty to disable)		
set	let	NAT Address: (leave empty to disable)	Automatic NAT	
ntact jout		MAC Address:	Use Factory Default 00 0A B0 01 A3 06	
		Link Speed & Duplex:	Auto Detect 🗸	
		Multicast Address: (leave empty to disable)		
		Connection Keep Alive:	Disable V	
		Save Settings Get Set	tings	
		The entries marked with (*) are required for proper operation		

Fig. 9. L-IP Config IP settings

7. Under Config/EIA-852 Device: keep settings

Device Info	ntrol	Config server address: Config server port:	local 1629
Config	8	Config client port:	1628
	_	Device name:	local
 System EIA-709 	de	Channel mode:	Standard
■ IP ■ EIA-852 Device	Ц	Pri. SNTP server:	none
EIA-852 Server	n	Sec. SNTP server:	none
Passwords	ks	Channel timeout [ms]:	off
■ Backup	OL	Escrow timeout [ms]:	70
Statistics	ž	(leave empty to disable)	
Reset	et	(leave empty to disable)	16
	De	MD5 authentication:	off
Contact		Location string	unknown
Logout			
		Save Settings Get Setting	ngs

Fig. 10. L-IP Config EIA-852 Device settings

8.

press the button "Save Settings" (see next page) Config server status: enabled V contro Config server port Device Info 1029 Channel name: Config Channel members: 2 Overview etworks under Channel mode: Standard System EIA-709 IP Pri.SNTP server: 123 (leave empty to disable) IP EIA-852 Device EIA-852 Server EIA-852 Ch. List Passwords Backup Sec.SNTP server: (leave empty to disable) 123 Channel timeout [ms]: (leave empty to disable) Statistics Auto members: on 🗸 Roaming memoers: on 🗸 Reset C MD5 authentication: off 🗸 Contact Warning: This internet connection is insecure. All data will be transmitted in clear text. Use the console interface to change the MD5 secret in a secure way. Logout MD5 secret (16 bytes, hex) Save Settings Get Settings

Set Config/EIA-852 Server as follows:

Fig. 11. L-IP Config EIA-852 Server settings

- 9. Set Config/EIA-852 Channel List as follows:
 - a. Click button "Add Device"; enter the name e.g. "niagara"; set the IP address of the PC. The port will be found automatically " and press the button "Save Settings".

Set "Config server status": = enabled; Set Auto members: = on " and

ATTENTION: Please make sure that you have first installed and configured the LonIPNetworkdriver in ARENA NX. The green check mark will appear only if all the PC driver settings are correct. Otherwise the icon "!" = not responding will appear.

No Nar	me	IP Address		Stat Flags	
0 loca	al	192.168.200.2	3:1628	-	Edit
1 nia	gara	<u>192.168.200.1</u>	0:1628	✓ E	dit Stats

Fig. 12. L-IP Config EIA-852 CH. List settings

FN27-1	032GE51	R1117

Device Info Config © Overview © System © EIA-852 Device © EIA-852 Device © EIA-852 Ch. List © Passwords © Backup



12

LonIpNetwork for L-IP

- 1.
- 2.
- Add the "LonIpNetwork" driver as follows: In the *Nav* side bar, right-click on **LonIpNetwork** and select **Views / AX-Property View** in the context menu. On the *Property Sheet*, expand **Lon Netmgmt** and set the Domain ID as follows: Length 1; d: ce (In case the engineering is done with CARE, use the domain configured in CARE). 3.

	⁷¹	Property Sheet
Ny Network		🕙 LonIpNetwork (Lon Ip Network)
		Status {ok} Enabled true Fault Cause Health Ok [20-Jun-17 2:10 PM CEST] Alarm Source Info Alarm Source Info
👻 🔭 LonipNetwork		▶ 旦 Lon Comm Config Ip Lon Comm Config
🕨 📥 Ip Channel		Poll Service Lon Poll Service
Local Lon Device		💌 ≽ Lon Netmgmt 🛛 Lon Netmgmt
LonRouter	- 11	Domain Id Length: 1 🗸 d: ce
LonRouterFT2near	- 11	Authenticate
LonRouterFT1near	- 11	Authentication Key ff ff ff ff ff ff
LonDevice	- 11	Link Descriptors Descriptor Table
LonDevice_1	- 11	Non Group Timer 4
× L10Fcu2	- 11	Channel Priorities
Alarm Source Info	- 11	Debug 🛑 false 🗸
Device Data	- 11	Verify Nv Dir 🛑 false 🗸
Anns		Service Pin Wait 300 s
Files		🕼 Use Lon Objects 🛛 🛑 false 🔽
Hierarchy		🎦 Always In Zero Length Domain 🛑 false 🗸

Fig. 13. LONIpNetwork Domain ID settings

4. Property Sheet, expand IP Channel, then expand Network Config, It is important to set "Is Config Server" to false and click afterwards the Refresh Button. Only after this will be done the "Config Server IP" will be shown and can be configured. Set Config Server Ip as in L-IP Config IP (in this case "192.168.200.23"). Set Net Name as in L-IP Config EIA-852 Ch. List (in this case "niagara"). In Adapter, select the network adapter of your PC (this case an USB to Ethernet Adapter). The IP address will be shown in My Ip Address.



Fig. 14. LONIpNetwork Network Config settings

 After these settings are entered, NX can communicate with the L-IP adapter. Check the proper communication under L-IP Config EIA-852 Ch. List: The "Reload" button must been clicked to get the Stat Flags updated. A green checkmark must be behind the IP address of your PC for proper communication.

Device Info	A	dd Device	Reload Recor	ntact		Action on Sele	cted V Execute
Config	IO No	Name		IP Address		Stat Flags	
Overview	L 0	local		192.168.200.2	3:1628	-	Edit
 System EIA-709 IP EIA-852 Device 	1 nde	niagara		192.168.200.1	0:1628		dit Stats
 EIA-852 Server EIA-852 Ch. List Passwords Backup 	rks u	inregistered	? not contacted	 registered 	I not responding	🕑 no ext. NAT	Ø disabled

Fig. 15. Config EIA-852 Ch. List check

6. Right click on LonIpNetwork and select Views / Lon Device Manager in the context menu. In the Database pane, double-click the "Local Lon Device" and set the Node address to 126, because the node address 127 is used the CLIF-CBUSLC. Changing the Local LonDevice Node address is only needed if the Clif-CBUSLC will be used with the same address number.

Welcome to CentraLine NX	- 0 ×
File Edit Search Bookmarks Tools Window Manage	Help Q guick Search
< > • • • • • • • • • • • • • • • • • •	
ty Host : 192.168.246.129 (CLIF2) : Station (IRM) : Config : Drivers	: Lon Device Manager -
- Nav	
H O 🗵 🕼 Hy Network	Database 1 objects
	Name Type Exts Slate Subnet Node Fault Cause Menufacture: Program M. Heuron M. Emabled Lon Xml File. 🛡 in Local Lon Device to Local Device 🔁 Config Online 1 127 Indium 9000 Sect 103 900 Sect 103 90
V Station (CUP2)	
Atam Garden Garden	re Type State Channel & Subnet Node Working Domain Program Id Neuron Ic Worklandborks Config Online 1 1 1 128 0 1000 c010 c0100000 100000 1000000 1000000 1000000 1000000
• Palatta	
O LonipNetwork	
	Image: New Folder New Flat M Discover Image: Cancel Condition Commission Treplace Condition AppDownLoad
	0€ - 40 Po 12 13.31

Fig. 16. LonlpNetwork Node Address setting

_

	7. Check this	setti		twork (Lon In M	perty view	
My Network			anipive A state	work (Lon IP N	etwork)	
Schedules	A	- 4	Stat	us	{ok}	
Svs Alarms		- 4	Enat	oled	true	×
		- 9	Faul	t Cause		
			Heal	th	Ok [20-Jun-	17 2:10 PM CEST]
			Alar	m Source Info	Alarm Sour	ce Info
P Parameters] Mon	itor	Ping Monito	r
			Lon	Comm Config	Ip Lon Com	m Config
The second secon			Poll	Service	Lon Poll Ser	rvice
Local Lon Device		▶ ≯	Lon	Netmgmt	Lon Netmgr	nt
LonRouter)	Tuni	ing Policies	Lon Tuning	Policy Map
LonRouterFT2near		× .	Loca	I Lon Device	Ip Local Dev	vice
LonRouterFT1near			9 S	tatus	{ok}	
LonDevice			E E	nabled	🔵 true	×
LonDevice_1			СШ Г	ault Cause		
XL10Fcu2		Þ	٦ŀ	lealth	Ok [20-Ju	n-17 2:10 PM CEST]
Alarm Source Info		Þ	O A	larm Source Info	Alarm So	urce Info
Device Data		-	_ 문 [evice Data	Device Da	ata
Points			Q	Neuron Id		00 10 53 38 37 00
			Q	Program Id		90 00 8e 01 03 80 00 03
			9	Node State		Config Online 🗸 🗸
	-		Q	Subnet Node I	d 🤇	1/126
			9	Location		
	?		9	Authenticate		🛑 false 🗸
lp			Q	Channel Id		1
* *			Q	Working Doma	ain	0
			Q	Binding I I		e false
			Q	Hosted		🔵 true
			Q	Two Domains		🔵 true
			Q	Msg Tag Coun	t	0
			Q	Address Coun	t	15
			- F G	Address Table		Address Table
			5	Priority Slot		0
			- F G	Alias Table		Alias Table
			5	Self Doc		

Fig. 17. LonlpNetwork Subnet Node Id check

8. In the Nav side bar, right-click on LonIpNetwork and select Views/Lon Router Manager to discover the devices. The devices of the L-IP will be discovered. Add the discovered devices into the Database. Depending on the used L-IP, 1 LonRouter and 1, 2, 3 or 4 LonRouterFTxnear are found. In this example, an L-IP with 2 FT10 ports is used. Therefore 2 LonRouterFTxnear devices are found.

L246.129 (CLIF) : Station (CLIF) : Config : Drivers :	: LonipNetwork											/	Lon Router Manager
	2												» ×
🕅 🕼 My Network		Database											3 objects
Schedules	^	Name	Туре	Mode	State	Near Chan	Near Adr	Far Chan	Far Adr	Fault Cause	Near Neuron Id		
Sys Alarms		LonRouter	Repeater	Unknown	Config Online	3	3/1	6	6/1		80 00 00 07 54 08		
Critical Alarms		LonRouterFT2near	Repeater	Unknown	ConfigOnline	6	6/4	1	1/1		80 00 00 07 54 0a		
O Non Critical Alarms		LonRouterFT1near	Repeater	Unknown	Config Online	6	6/2	2	2/1		80 00 00 07 54 09		
O LonipNetwork													
🕨 🍓 Ip Channel													
Local Lon Device													



 Double-click the "LonRouter". This is the incoming bus of the L-IP. Set Type to "Repeater", Mode to "Unknown", and the channel addresses Near Chan, Near Adr, Far Chan and Far Adr. For details of the router settings, please refer to the L-IP documentation.

Go Schedules	Name	Туре	Mode	State	Near Chan	Near Adr	Far Chan	Far Adr	Fault
Sys Alarms	📜 LonRouter	Repeater	Unknown	Config Online	3	3/1	6	6/1	
Critical Alarms	LonRouterFT2near	Repeater	Unknown	Config Online	6	6/4	1	1/1	
Non Critical Alarms	LonRouterFT1near	Repeater	Unknown	Config Online	6	6/2	2	2/1	
General Parameters	-				1				
🕐 LonIpNetwork								— X	
🕨 🌑 Ip Channel									
Local Lon Device Name Type	Mode State	Near O	han Near	Adr Far Char	Far Adr	Near Neuro	n Id Far	Neuron Id	:
LonRouter	Unknown ConfigOnlin	e 3	3/1	6	6/1	80 00 00 07 5	4 08 80 0	0 00 07 54 0b	
LonRouterFT2near									1
LonRouterFTinear	onRouter								
E LonDevice Re	epeater 🗸								
▶ 🚡 LonDevice_1 🖓 Mode Ur	nknown -								
The Co	onfigOnline								
Alarm Source Info									
Device Data Near Adr 3/	1								
Points Far Chan 6									
Apps Far Adr 6/	1								
s Near Neuron Id 80	0 00 00 07 54 08								
archy 🕞 Far Neuron Id 80	00 00 07 54 0b								
ory								•	
		OF	(Ca	ncel					

Fig. 19. LonRouter/ Repeater settings

10. Double click to the "LonRouterFT2near". This is the outgoing bus (FT10) of the L-IP port 2. Here the LON is connected. Change the Name for better visibility. Set Type to "Repeater", Mode to "Unknown", and the channel addresses Nar Chan, Near Adr, Far Chan and Far Adr. Near Address 4 should not conflict with LON addresses available on the LON bus, the subnet is 1 so the Far Channel should be = 1 and Far Address = 1/1.

Gostedules	Name	Туре	Mode	State	Near Chan	Near Adr	Far Chan	Far Adr	Fault Cause	Near Neuron Id
Sys Alarms	LonRouter	Repeater	Unknown	Config Online	3	3/1	6	6/1		80 00 00 07 54 08
Critical Alarms	LonRouterFT2near	Repeater	Unknown	Config Online	6	6/4	1	1/1		80 00 00 07 54 0a
Non Critical Alarms	LonRouterFT1near	Repeater	Unknown	Config Online	6	6/2	2	2/1		80 00 00 07 54 09
Parameters	_								-	
ConpNetwork Edit								×		
🕨 🧠 Ip Channel										
Local Lon Device Name	Type Mode Sta	te	Near Chan	Near Adr	Far Chan Fa	arAdr Nea	r Neuron Id	Far Neu		
LonRouter LonRouterFT2near	Repeater Unknown Cor	nfig Online	6	6/4	1/	1 80 0	0 00 07 54 0a	80 00 00		
LonRouterFT2near	LopDoutorFT2poor									
LonRouterFT1near	Donastar	1								
LonDevice	Repeater									
LonDevice_1	Unknown									
XL10Fcu2	Config Online									
Q Alarm Source Info Mear Chan	6									
Near Adr	6/4	-								
Points	1	/								
Apps	1/1	·								
iles Reuron Id	80 00 00 07 54 0a									
herarchy an wearon ta	80 00 00 07 34 07			_			_			
istory								•		
		OF	Car	ncel						
🗴 lonip	_									

Fig. 20. LonRouter2/ Repeater settings

- 11. Double click the "LonRouter1". This is the outgoing bus (FT10) of the L-IP port 1. Since nothing is connected here, there should be no conflict with the subnet 1 and the settings are "don't care". Rename the Name for better visibility. Set Type = "Repeater", Mode = "Unknown", and the channel addresses Nar Chan, Near Adr, Far Chan and Far Adr.
- 12. Commission the router

] 🔇 My Network 🔻	Database									
Go Schedules	Name	Туре	Mode	State	Near Char	Near Adr	Far Chan	Far Adr	Fault Cause	Near Neuron Id
Sys Alarms	LonRouter	Repeater	Unknown	Config Online	3	3/1	6	6/1		80 00 00 07 54 08
Critical Alarms	LonRouterFT2n	ear Repeater	Unknown	Config Online	6	6/4	1	1/1		80 00 00 07 54 0a
Non Critical Alarms	LonRouterFT1n	ear Repeater	Unknown	Config Online	6	6/2	2	2/1		80 00 00 07 54 09
Parameters	-									
- 🕑 LonIpNetwork								×		
🕨 🧄 Ip Channel										
Local Lon Device Name	Type Mode	State	Near Chan	Near Adr	Far Chan	arAdr Ne	ar Neuron Id	Far Neu		
LonRouter LonRouterFT1near	Repeater Unknown	Config Online	6	6/2	2 2	/1 800	0 00 07 54 09	80 00 00		
LonRouterFT2near										
LonRouterFT1near	LonRouterFlinear									
EonDevice	Repeater									
LonDevice_1 Mode	Unknown									
👻 🖀 XL10Fcu2	Config Online									
Alarm Source Info Near Chan	6									
🕨 🔜 Device Data 🛛 🔛 Near Adr	5/2									
🕨 🕀 Points 🔰 🖬 Far Chan	2									
🕀 Apps 📔 Far Adr 💈	2/1									
Files Rear Neuron Id	30 00 00 07 54 09									
Hierarchy 📔 Far Neuron Id	80 00 00 07 54 06									
History								ŀ		
		OI	K Ca	ncel						
l lonip										

Fig. 21. LonRouter1/ Repeater Name, Type, Mode, Chan and Adr settings

- 13. In case a L-IP with more than 2 ports is used, please configure the additional ports in the same way as ports 1 and 2. Always check the needed subnet/ node addresses of ports 1 and 2.
- 14. Now you can discover again the devices and add the controllers to the database. The local Lon devices from top to down are as follows: the first one is the CLIF with node 127, the second one is the XL40 controller with node 1, the third one is the Local Lon device with node 126, the fourth one is the XL10fcu2 / Serval with node 2

8.246.129 (CLIF2) : Station (CLIF2) : Config : Drivers													🖍 🛛 Lon Devic	
	2												>>	×
X My Network		Discovered											2	objects
- Wy Tools		State	Subnet No	ode Ma	anufacturer I	Program Id		Neuron Id						
Platform		🖀 Config Online	1 127	7 un	iknown 4	15 61 67 6c 65 42	24e41	00 d0 71 11 9f 9	ь					
Station (CLIF2)		🖀 Config Online	1 1	ho	oneywell 8	30 00 0c 52 00 04	40401	00 06 54 21 05 0	1					
Alarm														
⊖ Config														
Services														
- 😁 Drivers														
NiagaraNetwork														
CBusNetwork														
- 😁 LonipNetwork														
Ip Channel														
Local Lon Device														
LonRouter														
LonRouterFT2														
LonRouterFT1														
V XL10Fcu2														
Alarm Source Info		Database											1	2 objects
Device Data		Name	Туре	Ð	xts State	Subnet	Node	Fault Cause	Manufacturer	Program Id	Neuron Id	Enabled	Lon Xml File	
Points		Local Lon Device	Ip Local Dev	vice e	Config Onl	line 1	126		tridium	90 00 8e 01 03 80 00 04	48 43 7e 62 a4 14	true	null	_
Apps			XI 10Ecu2	0	D Coofie Ool	line 1	2		booeswell	80.00.0+ 50.14.03.04.04	04 41 20 36 02 00	toue	module://lonk	Inconce
🖨 Files	~	- Charles (102	1000	Q	- connig on		•		nonsysten	00 00 00 00 00 00 00 00 00	044120300200		mousies/ioin	ionsy dea

Fig. 22. LonIpNetwork Discover SERVAL/ XL10 / XL12 devices

Following steps are only needed if you have to use this Cbus Network, if not the Lon-IP communication setup is finished.

CBusNetwork in NX for 192.168.200.25

- 1. Configure the CLIF-CBUSLC as follows:
 - b. Set the IP address to 192. 168.200.25, the mask to 255.255.255.0, and the default gateway to 192.168.200.1. The IF-LON2 is connected to port

2 via USB. Therefore for bus #2, the bus ID must be set to 1, subnet to 1, node to 127 and domain to CE.

2. Refer to the installation instructions, form no. EN1Z-1026GE51. Here is a section of it:

C-Bus Set-Up

After removing the CLIF-CBUSLC from its shipping box, attach power and wait approx. 1 minute while it powers up. During power-up, the red warning LED will be lit. As soon as this warning LED goes dark, you may commence with the set-up, as follows:

- 1. Connect one end of the A-male to B-male USB cable to your PC and the other end to the USB 2.0 Device Interface located on the front of your CLIF-CBUSLC.
- Enter URL <u>http://192.168.255.241</u> in your web browser. An initial mask will then appear on the screen of your PC.
- 3. When setting up your CLIF-CBUSLC for the first time, you will have to enter an administrator password. This administrator password must contain:
 - 8 or more (but not more than 31) characters
 - uppercase letters
 - lowercase letters
 - numerals
 - no whitespace characters
- 4. A login mask will appear. You may now login using the administrator password.
- 5. Press the CONFIGURATION button.
- 6. The configuration mask (see) will then appear. Enter the IP address, subnet mask, and default gateway address.

Do not select "block SUSInet port" (this is needed only if you want to tunnel SUSInet communication over ssh)

7. In case you are using the virtual C-Bus over LONWORKS option, enter the LONWORKS communication parameters

(subnet, node, domain). You can retrieve this information from the engineering tool. Use the same subnet and domain and a node address which is not used by another device).

- 8. If you want your interface to hourly synchronize the time of your bus devices, select "work as time master".
- 9. Press "SAVE CONFIGURATION". When you are done, you may log out or go back to the status display.

3. From the *clCBus* palette, add the **CBusNetwork** driver to the *Drivers* of the station (*Drivers* icon in the *Nav* tree). In **BNA IP-Address**, set the **Ip Address** as it is configured in the CLIF-CBUSLC. Disable **Cbus Channel 1** and enable **Cbus Channel 2**.



Fig. 23. CBUS Network settings

4. In the Nav side bar, right-click CBusNetwork and select Views / C Bus Device Manager in the context menu. Discover the devices. In this case, a controller with name "CONTROLLER_1". is received. Continue by discovering the points.

Pr	operty Sheet	
2	CONTROLLER_1 (C Bus Device	2)
	🗎 Status	{unackedAlarm}
	Enabled	🔵 true 🔍
	Fault Cause	
Þ	🖵 Health	Ok [20-Jun-17 2:04 PM CEST]
Þ	Alarm Source Info	Alarm Source Info
	Controller Name	CONTROLLER_1
	Controller Number	1
	🗎 Channel Number	2
	Controller Type	XL40 / TIGER
	Program Name	CONTROLLER_1
	Controller Status	ок
	Communication Status	Idle
	📔 File Loading	Completed
	Firmware Version	2.7.5
	🗎 Download Time	30-May-17 11:24 AM CEST
	Controller Time	20-Jun-2017 02:04 PM CEST
r	Points	C Bus Point Device Ext
	Discovery Preferences	C Bus Point Discovery Preferences
	N PR1_CoolVlvPosL_01	100 _ {ok} @ def
	N PR1_HeatVlvPosL_01	0 _ {ok} @ def
	• C PR1_ApplicModeL_01	6 {ok} @ def
	R1_CoolTemp01	12.4 °C {overridden} @ 8
	R1_FlowTemp01	14.5 °C {ok} @ def
	B PR1_ChillerCmd01	Off {ok} @ def
	PR1_DispHtgSp01	0.0 °C {ok} @ def
	Note: Not	12.0 °C {ok} @ def
	Schedules	C Bus Schedule Device Ext
•	Sys Alarms	C Bus Sys Alarm Device Ext
	Critical Alarms	C Bus Critical Alarm Device Ext
	Non Critical Alarms	C Bus Non Critical Alarm Device Ext
₽.	🖶 Parameters	C Bus Parameter Device Ext

Fig. 24. CBusNetwork Device Manager Discover Devices and Points

Manufactured for and on behalf of the Environmental and Energy Solutions Division of Honeywell Technologies Sarl, Rolle, Z.A. La Pièce 16, Switzerland by its Authorized Representative:

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