

Worksheet instructions

This worksheet is an interactive PDF form. You can fill in the highlighted fields online and save the form to your hard drive or print the form and fill it in manually.

Caution: To maintain a permanent network connection, it is recommended you use a dedicated uninterruptible power supply (UPS) and a surge protection device deployed to ensure all network pathways remain active during primary power interruptions.

Contact information

For contact information, see www.edwardsfiresafety.com.

Time synchronization configuration

This section identifies questions to ask IT administrators. Gather the information before using the 4-CU to program the project's time synchronization source.

1. Is it possible to connect to an Internet-based remote Network Time

Ask the IT administrator:

Protocol (NTP) server?

	,
	☐ Yes
	☐ No: Information for step 4 below is not required.
No	te: The information for step 2 below is entered in the 4-CU for the de Configuration > Hardware Layer > device > Edit Properties tab > M Configuration group properties.
2.	What is the Network Time Protocol for the node CPU?
	☐ Server
	— or —
	☐ Client: Information for step 3 below is not required
3.	What time source will the NTP server use to synchronize node clocks across the network?
	Note: If the answer to step 2 above is Client, information for step 3 is not required.
	☐ Master Panel Clock
	— or —
	☐ Remote NTP Server
Pro	te: The information for step 3 below is entered in the 4-CU for the object > Project Data > Edit Properties tab > Remote NTP Server dress Type property.
4.	What is the NTP server's IP address or full qualified domain name (FQDN)?
	Note: If the answer to step 1 above is No, information for step 4 is not required.
	☐ IP address
	— or —
	☐ Full Qualified Domain Name

EST4 Network Services Configuration Worksheet

This completes information gathering for configuring time synchronization.

4-FWALx node configuration

This section identifies questions to ask IT administrators. Gather the information before using the 4-CU to program the control unit for communication through 4-FWALx modules.

Ask the local IT administrator:

1.		ere o, etc	is the physical IP connection made to the networ c.)?	k (switch,
	Loc	atio	n	
2.	Do	es th	ne building network use an IPv4 or IPv6 network?	?
		ΙΡν	4	
		ΙΡν	6	
the	Noc		rmation for steps 3 and 4 below is entered in the onfiguration > Hardware Layer > 4-FWALx > Ediab.	
3.			network connection addressing be obtained autofor IPv4; SLAAC for IPv6)?	omatically
			s: Check the eth0 IP Address Automatic and/or edress Automatic check box.	th1 IP
		No:	Obtain the following static addresses for eth0 ar	nd/or eth1.
		Not	tes	
		•	The eth0 and eth1 network connections must be different subnetworks and use the same IP vers or IPv6). They must also be connected to different servers.	sion (IPv4
		•	If you chose to use an automatic IP address (ab <i>must</i> be configured on eth0.	ove), it
		eth	0 IP Address	
		eth	0 Subnet Mask	
		eth	0 Default Gateway	
		eth	1 IP Address	
		eth	1 Subnet Mask	
		eth	1 Default Gateway	
4.	Do	es th	ne local network have a DNS server?	
		No:	No additional information is required.	
		Yes	s: Obtain the following DNS addresses for eth0 a	nd/or eth1.
			te: The eth0 and eth1 network connections must erent subnetworks.	be on
		eth	0 Preferred DNS server	
		eth	0 Alternate DNS server	(optional)
		eth	1 Preferred DNS server	
		eth	1 Alternate DNS server	(optional)
5.	Thi	s co	mpletes information gathering for configuring 4-F	WALx

modules.

ECP Communication Service configuration

This section identifies questions to ask remote interface administrators (i.e., BMS other 3rd-party). Gather the information before using the

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•	U to program the control panel for remote communication.
Noc	te: The information for all steps below is entered in the 4-CU on the de Configuration > Communication Services > ECP Services > Edit operties tab.
Asl	k the remote interface administrator:
1.	Should secure communication (encryption) be used for communication between the control unit and remote interface?
	Yes: Check the Secure Communications check box (default setting).
	☐ No: Clear the Secure Communications check box.
2.	What is the ECP passphrase and license key number required for external applications to connect to the system?
	ECP Passphrase
	ECP License Key
3.	This completes information gathering for configuring the ECP Communication Service.
	Receiver Communication Service
CC	onfiguration
(CN	s section identifies questions to ask central monitoring station <i>MS</i>) administrators. Gather the information before using the 4-CU to gram the control unit for CMS communication.
Noc	te: The information for all steps below is entered in the 4-CU on the de Configuration > Communication Services > IP Receiver Service dit Properties tab.
Asl	k the CMS administrator:
1.	Does the account use a dialed number identification service (DNIS)?
	☐ No: No entry is required.
	Yes: DNIS value
2.	Does the account use subscriber identification (SIM)?
	☐ No: No entry is required.
	☐ Yes: SIM value
3.	What is the Receiver 1 (primary) address type?
	Receiver 1 Address Type (IPv4, IPv6, or URL):
4.	What is the Receiver 1 address or URL?
	Receiver 1 IPv4 or IPv6 Address
	— or —
	Receiver 1 URL
5.	What is the Receiver 1 port number to be opened for communication?
	Receiver 1 Port
6.	What is the Receiver 1 account code?
	Receiver 1 Account Code

7.	Can the Receiver 1 connection be secure?
	☐ No: No entry is required.
	Yes: Receiver 1 Encryption Key
8.	Is an alternate receiver (Receiver 2) supported?
	☐ No: No entry is required.
	Yes: Obtain Receiver 2 information.
	Receiver 2 Address Type (IPv4, IPv6, or URL):
	Receiver 2 IPv4 or IPv6 Address
	— or —
	Receiver 2 URL
	Receiver 2 Port
	Receiver 2 Account Code
	Receiver 2 Secure Communication Yes No
	If yes, Receiver 2 Encryption Key
9.	What values does the CMS administrator want for the following?
	Heartbeat time (seconds)
	Supervision timeout (seconds)
	Maximum attempts
	Use the formulas below to calculate the maximum heartbeat and supervision time configurations to meet agency requirements.
	 For CAN/ULC-S559: [Supervision Time] + [Heartbeat Time] = 180 s (3 min)
	• For UL 864 ninth edition: [Supervision Time] + [Heartbeat Time] ≤ 300 s (5 min)
	• For UL 864 tenth edition: [Supervision Time] + [Heartbeat Time] ≤ 3600 s (60 min)
10.	This completes information gathering for configuring the IP Receiver Communication Service.
ΙP	Receiver CMS Account
CC	onfiguration
Thi:	s section identifies questions to ask central monitoring station (MS) administrators. Gather the information before using the 4-CU (gram the control unit for CMS communication.
IP F	te: The information for all steps below is entered in the 4-CU on the Receiver Service Configuration > CMS Account Details > Edit perties tab.
Asl	the CMS administrator:
1.	What is the CMS account number?
	CMS account number
2.	This completes information gathering for the configuring the CMS Account.

Email Address List configuration

This section identifies questions to ask the authority responsible for deciding who will receive message notifications. Gather the information before using the 4-CU to program the control unit for email and SMS

Ask the local email messaging author	rity	t١	۷
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con	nmunication.
	te: The information for all steps below is entered in the 4-CU on the oject > Email Address List > Add Email Addresses tab.
Asl	k the local email messaging authority:
1.	Is an email list of people who will receive message notifications available?
	Yes: Obtain the email list.
	☐ No: Advise that the list must be provided.
2.	Does the email list include wireless phone numbers for SMS text notifications?
	Yes: Obtain the carrier gateway address for the wireless provider (example, @txt.att.net).
	The 10-digit wireless number followed by the carrier gateway address is used for the Email Address property.
	Carrier gateway address
3.	This completes information gathering for configuring the Email Address List.
	mail Communication Service onfiguration
	s section identifies questions and information to gather before using 4-CU to program the control unit for email communication.
	ne building has an SMTP server on the network, contact the local IT ministrator for the required information.
	o local SMTP server or IT administrator is available, contact the ernet service provider (ISP) for the required information.
Asl	k the local IT administrator or ISP:
4-C	te: The information for steps 1 through 8 below is entered in the CU on the Node Configuration > Communication Services > Email rvice > Edit Properties tab.
1.	What is the primary SMTP server (Server 1) address type?
	Server 1 Address Type (IPv4, IPv6, or URL):
2.	What is the Server 1 address or URL?
	Server 1 IPv4 or IPv6 Address
	— or —
	Server 1 URL
3.	What is the Server 1 port number to be opened for communication?
	Server 1 Port number

	n alternate SMTP server (Server 2) available?
	No: No entry is required.
	Yes: Obtain the Server 2 information.
	Server 2 IPv4 or IPv6 Address
	— or —
	Server 2 URL
	Server 2 Port number
Wh	at is the from email address that will show in email messages?
	te: This must be a valid email address that an SMTP server can date.
Fro	m Email Address
	at is the email account holder's user name and email account sword?
Use	er Name
Use	er Password
	ould secure communication (encryption) be used for numerication between the control unit and server?
	Yes: Check the Secure Communication check box.
	No: Clear the Secure Communication check box.
Do	es the SMTP server require authentication?
	Yes: In the Trust Level property, choose Root Certificate.
	Note: Not all commercial email services are supported. Perform testing to determine if a specific root certificate is supported. If the root certificate fails, select No Authentication for the Trust Level property.
	No: In the Trust Level property, choose No Authentication.
	The information for steps 9 and 10 below is required for email r settings.
Do	es the email provider use two-factor authentication?
Yal	te: When using email providers such as AOL, Gmail, iCloud, or noo that offer two-factor authentication, it may be necessary to figure your email service to accept messages from the EST4.
	No: No action is required.
	Yes: Configure your email account to allow less secure apps or devices to send email. The property may be found under your email account, security settings.
Do	es the email provider support multiple TCP ports?
	No: No action is required.
	Yes: Check that you are using the proper TCP port for your email server. Use the TCP port that supports TLS v1.2 connections.
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Web Browser Communication Service configuration

This section identifies questions to ask local IT administrators. Gather the information before using the 4-CU to program the control unit for Web browser communication.

Note: The information for all steps below is entered in the 4-CU on the Project > Project Data > Edit Properties tab.

Ask the local IT administrator:

1.	What is the web browser authentication password?
	Web Browser Password
2.	This completes information gathering for configuring the Web Browser Communication Service

IoT/ACS Communication Service configuration

This section identifies questions to ask local IT administrators. Gather the information before using the 4-CU to program the control unit for IoT/ACS communication.

Notes

- The information for step 2 below is entered in the 4-CU on the Node Configuration > Communication Services > IoT/ACS Service > Edit Properties tab.
- Ensure the 4-CU programmed system time is accurate for your time zone.
- IoT/ACS communication requires 4-CU V6.0.

As	k the local IT administrator:
1.	Are building Ethernet ports 8883 and 443 open?
	☐ No: Open ports 8883 and 443.
	Note: The building Ethernet port numbers 8883 and 443 <i>must</i> be open to allow communication.
	Yes: No action is required.
2.	Does the ACS service need to be supervised?
	☐ No: Clear the Supervision check box.
	Yes: No action is required.
3.	This completes information gathering for configuring the IoT/ACS Communication Service.