Configuring the E3 or Site Supervisor with E2 in Mixed Environments with Connect+

A Peer network allows communication between multiple controllers to take place with one controller as the annunciator, which will send alarms for all the controllers on the network.

For Peer network and Annunciator setup, see Appendix E in the Supervisory Control Platform Controller Installation and Operation Manual P/N 026-1803. Click <u>here</u> to access.

- When a Site Supervisor or E3 is added to an existing E2 network, the Supervisor must be the gateway unit to Connect+ and if sending Advisories, the Supervisor must be commissioned to send to Connect+
- The Site Supervisor or E3 must communicate over a different port than the E2, and the port must be open to Connect+ either directly or through VPN. Contact Technical Services and your IT Administrator for assistance.

Typical Port Configurations					
Site Supervisor/E3 Port	80 or 443				
E2 Port	1025				
Monitoring (Advisory COM Port)	3001 or 3004				

Once connected and logged-in to the Supervisor, click the gear icon > Configure System > General System
 Properties. This will take you to the Network configuration settings.



Figure 1 - General System Properties



2. At the Network Configuration screen, click the **Network Settings** tab to access the TCP/IP settings of the controller.

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General System Properties
COM Ports Network Settings Localization System Values
INTERNET (TCP/IP)
Host Name
Domain Name
Monitoring Port
Legacy Olient Port
ETH 0 DHCP Enabled DISABLED
• ETH 0 IP Address
ETH 0 Subnet Mask
ETH 0 Default Gateway
ETH 0 MAC Address

Figure 2 - Network Settings

3. Click the Advanced options button on the upper right corner of the screen. This will enable Advanced options.

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			Advanced	Save
				1
	J			
DISABLED				
	, 1			
]			
)			

Figure 3 - Advanced Tab

Note that this menu is visible when a user's profile is set to **Basic**. If the user profile menu is set to **Advanced**, the button will not be visible. To configure, go the gear icon > **Configure System** > **My Profile** > **Select User View Level** > choose **Basic** or **Advanced**.

4. The IP address to be used for the ETH 0 should be the same IP address used in the control system settings of the Connect+ instance. The Supervisor will be the gateway controller in this setup. Contact Technical Services at **ColdChain.TechnicalServices@copeland.com** to obtain the gateway IP address to be used.

E3 Interface	Connect+ In	terface
Com Ports Network Settings Localization System Values	Control System Configuration	
INTERNET (TCP/IP) Host Name	Name Supervisor Protocol Type Site Supv Connection Type 19	
Domain Name	IP Address 10.42.112 Port 80	Validate IP Address
Monitoring Port	Legacy Client Port 1025 Advisory Commissioning Port 3001	
ETH 0 DHCP Enabled		
• ETH 0 IP Address		
ETH 0 Subnet Mask		
ETH 0 Default Gateway		

Figure 4 - IP Address for E3 and Site Supervisor/UltraSite

5. The ETH 0 Subnet Mask and Default Gateway would be just copied from the existing E2 controllers on site. To get to the TCP/IP settings of the E2, press , 2, 3, 1, from the Home screen. Press F2 three (3) times to go to the TCP/IP tab.

E3 Interface

E2 Interface

General System Properties
COM Ports Network Settings Localization System Values
INTERNET (TCP/IP)
Host Name
Domain Name
Monitaring Port
Legacy Client Port
ETH 0 DHCP Enabled
ETH 0 IP Address
ETH 0 Subnet Mask
* ETH 0 Default Gateway

Subnet Mask	: 255.255.255.0
DNS Server 1	
DNS Server 2	:
DNS Server 3	:
DNS Server 4	:
Default Gateway	: 10.42.112.254

Figure 5 - ETH 0 Subnet mask and Default Gateway for E3 and E2

6. Change the following addition settings to your default values:

Monitoring Port:	3001
Legacy Client Port:	1025
Web Port:	80

General System Properties								
COM Ports Network Settings Localization System Values								
INTERNET (TCF	P/IP)							
	Host Name	SiteSupervisor						
	Domain Name							
	* Monitoring Port	3001						
	* Legacy Client Port	1025						
	ETH 0 DHCP Enabled							
WEB SERVER S	SETUP							
	* Web Port	80						
	* Secure Web Port	443						

Figure 6 - Network Settings Port

7. Click the **System Values** tab. Configure the Site Name and Unit according to your specifications, then edit the Group Name to match the Group Name on the existing E2 controllers on site.

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General System Propert	es					
COM Ports Network	Settings	Localiz	ation	System	Values	
GENERAL SETUP	PARAME	ETER	S			
	* Site	Name	SITENA	ME: ABC1		
	* Unit	Name	SS Unit	04		
	UnitN	umber	- 1			
	Group	Name	Groupn	ame_1234	1	

Figure 7 - System Values

To view the Group Name of the existing E2 controllers on site, press , f, s, form the Home screen. Press F2 four (4) times to go to the **Peer Network** tab.

-11-18 ♥ e Ctrl-X to	 Select CX Tabs	RX-	🖄 OAT: 32	
1: General	C2: Eng Units	C3: Serial	C4: TCP/IP	C5: Peer Netwrk
5:	C7: System	C8:	C9:	CO: MORE
	Genera	1 Setup: GENERA	L SERV	
Peer Netw	rk Value			
I NELWORK I				
Group Nam	e Groupn	ame_1234		

Figure 8 - Peer Network

8. Save the changes by clicking on the Save button on the upper right corner of the screen.



Figure 9 - Save Properties

9. The user credentials of both Supervisor and E2 must be modified to accommodate the login protocol of Connect+. To create a new user on the Supervisor, click the gear icon (Main Menu) button, **Configure System** and select **Manage Users**.



Figure 10 - Manage Users

10. Click the **Create a User** button. On the window that will appear, enter the information for your **Username** and **Password**. Both username and password are case sensitive.

Username:	yourname
Actual Name:	yourname
Password:	Example1

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Manage U	sers						
Creat	te a User	r					
user123456	0		۶	Û			
user1235	•		۶	Ŵ			
service 🚯			۶	Ŵ			
user 🚯			۶	Ŵ			
All				Ŵ			

Figure 11 - Create a User

Choose the Technician role for the user account created.

• User Name	User Name	* Actual Name	Actual Name
* Password	Password	* Confirm Password	Confirm Password
Contact Informa	tion		
Email	Email	Mobile Phone(SMS)	Mobile Phone(SMS)
Office Phone	Office Phone		
User Information	1		
* Select User Role:	Energy Manager Non-Technical End User	User Description	User Description
	Monitoring Staff @		
	 System Admin ① Create a User Role 		

Figure 12 - User Role - Technician

11. Click the Save button in the upper right corner of the screen to save the changes.



Figure 13 - Save Properties

06-11-18 🔹 🍞 📖	RX-300 Unit USR ACCESS S	1 🖄 OAT: Etup	30 5:34:38 ED INS
Access level guidelines: 1 = 3 -	Viev 2 = C Config/Override 4 - S	hange Setpoint/Bypass ystem Administrator	ADUISORY SUMMARY Fails 0 Alarms 1 Notices 2
Level Required for : Set Po Refrigeration Control: 2 Building Control : 2 Advanced Control : 2 Common Control : 2 Enable Detailed Transaction L	int Bypass Override 2 3 2 3 2 3 2 3 ogging: Yes Enabl	Config Alarm Ack 3 3 3 3 3 3 9 e Global Log-On: Yes	NETWORK OVERVIEW IONet-1 • MODBUS-1 •
Users : Username USER #1 : USER USER #2 : USER USER #3 : TEST	Password Auto Logout Acc **** 0:30 ***** 0:30 ***** 0:30	ess Level Default UI 4 English-US 4 English-US 4 English-US	
			LTR_RX_01 Rev 4_09F01
	and the first of the state of the state		English-US
			F5: CANCEL

Figure 14 - User Access Setup

13. Press the down arrow button until you are in the User List box. Press **F1** to add a new User. Enter the following for the **Username** and **Password** then set the Access Level to 4. Press the **S2** button to save the settings.

Username:	yourname		
Password:	Example password		

Note: Perform the above steps prior to upgrading the Firmware version of the E2.

86-11-18 🔹 🧑 🔟	RX-300 Unit USR ACCESS S	1 Etup	🖄 OAT:	29 5:38:06 ED INS
Access level guidelines: 1 = View 3 = Config	2 = Cl /Override 4 = S	hange Set ystem Adm	point/Bypass inistrator	ADUISORY SUMMARY Fails Ø Alarns 1 Notices 2
Level Required for : Set Point	Bupass Override	Confia	Alarm Ack	
Refrigeration Control: 2	2 3	3	3	NETWORK OVERVIEW
Building Control : 2	2 3	3	3	IONet-1 🔷
Advanced Control : 2	2 3	3	3	MODBUS-1 🐡
Common Control : 2	2 3	3	3	
Enable Detailed Transaction Logging	: Yes Enabl	e Global	Log-On: Yes	
Users : Username Passwo	rd Auto Logout Acc	ess Level	Default UI	
USER #1 : USER ****	0:30	4	English-US	
USER #2 : USER *****	0:30	4	English-US	
USER #4 : USER	0:30	1	English-US	
				LTR_RX_01
				Rev 4.09F01
				English-US
Enter desired text User name str	ina			
F1: ADD USER F2: DELETE USE	R			F5: CANCEL

Figure 15 - User Access Level 4

14. The login credentials of the control system must be updated with the correct username and password used. Make sure the "use this protocol user information" checkbox is enabled and enter the following username and password.

Isername: your name	Name	Supervisor-E2			
	Protocol Type	Site Supv 🔻			
	Connection Type	ID 🔺	● HTTP	HTTPS	
Password: password example	IP Address		10.42.88.		Validate IP Address
	Port	80			
	Legacy Client Port		1025		
	Advisory Commissioning Port 3001				
	Optional Use this protocol user information for acc this Control System				access to the devices at
	Protocol Password				

Figure 16 - Control System Configuration

15. Ensure that the E2 controllers on site are running the 4.10F01 or above firmware. If the firmware is below 4.10F01, the controllers on site must be upgraded to the latest firmware. Refer to the User Guide on Basic E2E USB Operations for instructions on how to upgrade the firmware using a USB drive or Contact Copeland Technical Services using the below contact information.

Email:	ColdChain.TechnicalServices@copeland.com
Australia number:	1 800 456 047 (option 1)
United States number:	833-409-7505

Visit our website at copeland.com/en-us/products/controls-monitoring-systems for the latest technical documentation and updates. For Technical Support call 833-409-7505 or email ColdChain.TechnicalServices@Copeland.com

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