ERD: Configuration

EFM Emerson ROC provides a configuration section to the Ignition Gateway that can be seen in the Configure section of the Ignition Gateway web UI. There is one configuration page - 'Settings'



Settings

The EFM Emerson ROC Settings configuration page allows user to create TLP Definitions as shown below:

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-)→ C @	Iocalhost:8088/main/web/conf	Ig/efmemersonroc.settings?66	V Y	⊻ III\ 🗉
gnition				USER MANUAL SUPPORT
G by inductive automation	A HOME 🔤 🗄 STATUS	¢ CONFIGURE		Launch Designer 🤤
Search	Trial Version 0:11:11	We're glad you're test driving our software. Have fun.		Activate Ignition
VSTEM				
Overview				
Backup/Restore	EFM Emerson ROC Se	ttings		
Licensing				
Projects	TLP Definitions			
Redundancy				
Gateway Settings	TLDDafinitiana			
IETWORKING	TLP Definitions			
Gateway Network	Nome	COV File		
Email Settings	Name	CSV File		
ECURITY	Main TLPs	TLPs.csv		delete edit
Auditing				
Users, Roles	User Program TLPS	UserProgramm LPS.csv		delete edit
Service Security				
Security zones	→ Create new TLP Definition			
DATABASES				
Connections				

New TLP Definitions can be created by following the 'Create new TLP Definition' link as shown below:

-)→ C' û	i localhost:	8088/main/web/cc	onfig/efmemersonroc.	settings?68	0	1☆	<u>↓</u> III\ 🗊
gnition							USER MANUAL SUPPORT
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anition							Launch Designer 🦿 🖌
by inductive automation	А НОМЕ	.և STATUS	CONFIGURE				
	Trial Vers	ion 0:01:08					Activate Ignition
YSTEM							
Overview							
Backup/Restore	EFM Emer	son ROC S	ettings				
Licensing							
Modules	TLP Definition	ıs					
Redundancy							
Gateway Settings							
	New ILF	[,] Definition	1				
Gateway Network							
Email Settings	Main						
ECURITY							
Auditing	Name	New TLP De	efinition				
Users, Roles		The name of	this TLP Definition				
Service Security		Proves	No file colocted				
Security Zones	CSV File	The CSV file f	or this TLP Definition				
ATABASES		The Cov file i	or and the Demindon				
Connections							
Drivers							
Store and Forward				Create New TLP Defin	tion		

Main Properties

- Name
 - This is the friendly name of the TLP Definition being created
- CSV File • Click the 'Browse' button to select CSV file for this TLP Definition

Click here to download the Cirrus Link default TLP and mapping files - Note these need to be thoroughly tested and reviewed in your application before they are put into production.

The downloaded zip file contains:

FB107-TLPs-V1_0.csv

FB107-Meter_Configuration_Mapping-V1_0.csv

FB107-Orifice_Turbine_Meter_Periodic_History_Mapping-V1_0.csv

ROC800-TLPs-V1_0.csv

ROC800-Meter_Configuration_Mapping-V1_0.csv

ROC800-Orifice_Turbine_Meter_Periodic_History_Mapping-V1_0.csv

UserProgram-TLPs-V1_0.csv

Emerson ROC Device Connection

Device connection for Emerson ROC module can be configured via OPC-UA SERVER.

-)→ C' û	(i) localhost:8088/main/web/config/opcua.devices?69	♥ ☆	<u>↓</u> III\	
Journal				
Notification				
On-Call Rosters				
Schedules				
AGS				
History				
Realtime				
DPC-UA SERVER				
Certificates				
Devices				
Settings				
DPC CONNECTIONS				
Servers				
Quick Client				
NOBILE				

Selecting 'Devices' opens respective configuration page as shown below:

	(i) localhost:8	088/main/web/config/o	ocua.devices?22		🖸 🏠	III\ 🗊
mition			55666667666722			
,iiidon						admin Sign Ou
•.• •						
gnifion.					Lai	inch Designer 🛛 🖌
by inductive automation	- HOME	IN STATUS C	ONFIGURE			
	Trial Versi	00 1.52.59 Walka	alad you've test driving our ceftuere			ctivate Ignition
		1.52.56 Wele	giad you re test driving our soltware.	nave lun.		
STEM						
Overview						
Backup/Restore	Devices					
Licensing						
Modules	Name	Туре	Description	Enabled	Status	
Projects	No Devices					
Gateway Settings						
	→ Create new Devi	ce				
TWORKING						
Email Settings						
Auditing						
Users, Roles						
Service Security						
Security Zones						
TABASES						
Connections						
Drivers						
Store and Forward						

New Emerson ROC device can be created by following the 'Create new Device...' link and choosing 'EFM Emerson ROC' device as shown below:

Ignition Gateway X +		,
(i) localhost:8088/main/web/config/opcua.devices?7	90% 🛛 🏠	III\ 🗊 😑
A HOME & STATUS O CONFIGURE		USER MANUAL SUPPORT
Trial Version 0:28:45 We're glad you're test driving our software. Have fun.		Activate Ignition
Add Device Step 1: Choose Type • Allen-Bradley Logix Driver Connect to Allen-Bradley Logix family devices, including devices with firmware v21+.		
• Allen-Bradley MicroLogix Connect to MicroLogix 1100 and 1400 series PLCs.		
Allen-Bradley PLC5 Connect to PLC5s via Ethernet. Allen-Bradley SLC Concented by SLC Concented by Clo (Disc) in Change by		
DNP3 Driver Connect to a DNP3 outstation.		
EFM Emerson ROC Connect to EFM Emerson ROC devices		
	Ignition Gatewy X + Concert to Allen-Bradley Legix family devices, including devices with firmware v21+. Connect to Allen-Bradley Legix family devices, including devices with firmware v21+. Connect to Allen-Bradley Legix family devices, including devices with firmware v21+. Allen-Bradley Legix family devices, including devices with firmware v21+. Allen-Bradley Legix family devices, including devices with firmware v21+. Allen-Bradley Legix family devices, including devices with firmware v21+. Allen-Bradley Legix family devices, including devices with firmware v21+. Allen-Bradley Legix family devices, including devices with firmware v21+. Allen-Bradley Legix family devices. Allen-Bradley PLC5 Connect to DIC5 via Ethernet. Allen-Bradley SLC Connect to SLC 5/05s via Ethernet. DNP3 Driver Connect to SLC 5/05s via Ethernet. Blen Kenerson ROC Connect to EFM Emerson ROC devices	ligention Gaterway × + Concert to Allen-Bradley Logix Driver Connect to Allen-Bradley Logix Sortes Connect to BLCS Sortes Sortes Connect to EFW Emerson BCC devices Connect to EFW Emerson BCC devices

This opens the 'New Device' configuration mage for EFM Emerson ROC Device:

🖲 🔵 🌒 🔣 Ig	nition - Ignition Gateway X +			
← → ♂ ☆	i localhost:8088/main/w	eb/config/opcua.devices?8	80% 🛡 🏠	
Ignition Ignition	A HOME JI STATUS & CONFI	une		USER MANUAL SUPPORT
Q Search	Trial Version 0:24:34 We're glady	u're test driving our software. Have fun.		Activate Ignition
SYSTEM Overview Backup/Restore Licensing Modules Projects	New Devic	2		
Redundancy Gateway Settings	Name			
NETWORKING Gateway Network Email Settings	Description			
SECURITY Auditing Users, Roles	Enabled	C (default: true)		
Service Security Security Zones	Connectivity			
DATABASES Connections Drivers	Protocol Type	Choose One		
Store and Forward ALARMING General	Hostname	Hostname/IP address of the device.		
Journal Notification On-Call Rosters Schedules	TCP Port	TCP Port of the device.		
TAGS History Realtime	ROC Unit Code	Station Address Unit Code of the ROC unit		
OPC-UA SERVER	ROC Group Code			

General

- Name
 Oevice name

- Description
- Device description
- Enabled
 - Device enabled

Connectivity

- Protocol Type
 - Specific Protocol Type of the device
 - ROCROC_PLUS
- Hostname
- Hostname or IP address of the device
- TCP Port
- TCP Port of the device. ROC Unit Code
 - Station Address Unit Code of the ROC unit
- ROC Group Code
 - Station Address Group Code of the ROC unit
- Host Unit Code
- Station Address Unit Code of the host (this driver)
 Host Group Code
 - Station Address Group Code of the host (this driver)

Records

- Alarm Scan Rate
 - $^{\circ}\;$ The rate in seconds that alarm records are scanned
 - Set to -1 to disable alarm scanning (default)
- Event Scan Rate
 - $^{\circ}\;$ The rate in seconds that event records are scanned
 - Set to -1 to disable event scanning (default)
- Minute History Scan Rate
 - $^{\circ}\,$ The rate in seconds that minute history records are scanned
 - Set to -1 to disable minute history scanning (default)
- Periodic History Scan Rate
 - $^{\circ}\;$ The rate in seconds that periodic history records are scanned
 - Set to -1 to disable periodic history scanning (default)
- Daily History Scan Rate
 - The rate in seconds that daily history records are scanned
 - Set to -1 to disable daily history scanning (default)

Sparkplug

- Group ID
 - An ID representing a logical grouping of Edge Nodes and Devices
- Edge Node ID • An ID representing an Edge or Network (EoN) Node
- Device ID
 - An ID representing a Device

When all EFM Emerson ROC devices are configured, the Devices page will look as shown below:

+)→ 健 @	i localhost:8088/mai	n/web/config/opcua.device	es?28		🛡 🕁	III\ 🗉
gnition Ignition	A HOME Ju STAT	US 🌣 CONFIGURE				USER MANUAL SUPPORT ▲ admin Sign Out Launch Designer 🖌
a Search	Trial Version 1	:47:54 We're glad you're	test driving our software. Have f	ūn.		Activate Ignition
SYSTEM Overview Backup/Restore Licensing Modules Projects Redundancy	Devices Successfully created in 	new Device "ROC 800"				
Gateway Settings	Name	Туре	Description	Enabled	Status	
IETWORKING	Flow Computer 1	EFM Emerson ROC	Emerson ROC 107	true	Not Configured	More 👻 edit
Gateway Network Email Settings	ROC 800	EFM Emerson ROC	ROC 800	true	Not Configured	More 👻 edit
ECURITY Auditing Users, Roles Service Security Security Zones	→ Create new Device					
ATABASES Connections Drivers Store and Forward						

To finish configuring Emerson ROC and connect to physical devices, TLP definitions for each device need to be provided as described in the 'Specifying TLP Definitions for a Device' section of the EFM Emerson ROC Quickstart document. In short, the following three things need to be done:

- Specify TLP Definitions
 Provide TLP Templates by importing TLP-template CSV file
 Configure TLP Poll Groups by importing TLP-poll-group CSV file

When this is done, the 'Devices' configuration page will look as shown below with the 'Status' of each device set to 'Connected'.

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< → ୯ û	i localhost:8088/m	ain/web/config/opcua.device	s?69		♥ ☆	<u>↓</u> III\ 🗊 =
Ignition						USER MANUAL SUPPORT
						🚢 admin 🛛 Sign Out
Ignition.	A HOME .la S	TATUS CONFIGUR	RE			Launch Designer 🦿
Q Search	Trial Version	1:32:01 We're glad you'r	e test driving our software. Ha	ave fun.		Activate Ignition
SYSTEM Overview Backup/Restore Licensing	Devices					
Modules	Name	Туре	Description	Enabled	Status	
Projects Redundancy Gateway Settings	Flow Computer 1	EFM Emerson ROC	Emerson ROC 107	true	Connected	More 🔻 edit
NETWORKING	ROC 800	EFM Emerson ROC	ROC 800	true	Connected	More 👻 edit
Email Settings	→ Create new Device					
SECURITY Auditing						