

Enerlin'X IFE Switchboard Server IFE/EIFE Ethernet Interface

Firmware Version 003.007.024
Release Note

05/2018



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Introduction to IFE Switchboard Server and IFE/EIFE Ethernet Interface

IFE Switchboard Server

When an intelligent modular unit (IMU) contains a circuit breaker equipped with a communicating Micrologic trip unit, the IFE Ethernet switchboard server (IFE server) enables the IMU to be connected to an Ethernet network. Each circuit breaker has its own IFE server and a corresponding IP address.

The IFE server is compatible with the following ranges of circuit breakers:

- Masterpact MTZ circuit breakers
- Masterpact NT/NW circuit breakers
- Compact NS circuit breakers
- Compact NSX circuit breakers
- PowerPact P- and R-frame circuit breakers
- PowerPact H-, J-, and L-frame circuit breakers

The IFE server with part number LV434002 or LV434011 is an Ethernet interface for the circuit breaker in the IMU and a server for Modbus-SL (serial line) connected devices.

IFE Ethernet Interface for One Circuit Breaker

When an intelligent modular unit (IMU) contains a circuit breaker equipped with a communicating Micrologic trip unit, the IFE Ethernet interface for one circuit breaker (IFE interface) enables the IMU to be connected to an Ethernet network. Each circuit breaker has its own IFE interface and a corresponding IP address.

The IFE interface is compatible with the following ranges of circuit breakers:

- Masterpact MTZ circuit breakers
- Masterpact NT/NW circuit breakers
- Compact NS circuit breakers
- Compact NSX circuit breakers
- PowerPact P- and R-frame circuit breakers
- PowerPact H-, J-, and L-frame circuit breakers

The IFE interface with part number LV434001 or LV434010 is an Ethernet interface for the circuit breaker in the IMU.

EIFE Embedded Ethernet Interface for One Masterpact MTZ Drawout Circuit Breaker

The EIFE embedded Ethernet interface for one Masterpact MTZ drawout circuit breaker (or EIFE interface) enables one Masterpact MTZ drawout circuit breaker to be connected to an Ethernet network. It provides digital access to all the data delivered by the Micrologic X control unit of the Masterpact MTZ circuit breaker. It provides information about the intelligent modular unit (IMU) system. In addition, it monitors the three positions of the circuit breaker in the cradle:

- Cradle connected
- Cradle disconnected
- Cradle test position

New Features and Benefits Overview

New Features for IFE Server and IFE/EIFE Interface

Addition of the following features, available with a Micrologic X control unit with firmware version 002.000.003 or higher:

- Monitoring of current and power demand values
- Reset of peak demand values
- New events for notification by email:
 - Presence of 24 Vdc power supply
 - Ground-fault alarm/ Earth-leakage alarm (available when Ground-fault Digital Module is installed on Micrologic X control unit)
- Update of standard dataset with current and power demand values
- Availability of legacy dataset when Modbus Legacy Dataset Digital Module is installed on the Micrologic X control unit
- Availability of individual harmonics and currents up to rank 40 when Individual Harmonics Analysis Digital Module is installed on the Micrologic X control unit
- Introduction of new mechanism for activating Digital Modules across Enerlin'X devices
- Modification to management of multiple requests through command interface: reception of new command aborts previous command still in progress

New Features for IFE Server and IFE Interface

Addition of Compact NSX circuit breaker with Micrologic 7 trip unit as discoverable device that can be connected to ULP port of IFE server or IFE interface

New Features for IFE Server

Addition of Vigirex RHU and Vigirex RMH relays as discoverable devices that can be connected as Modbus slaves on an IFM interface stacked to the IFE server.

IFE Firmware Release History

Date	Firmware version	Availability
April 2018	V003.007.024	Release for manufacturing
July 2017	V003.006.011	Obsolete
December 2016	V003.005.003	Obsolete
June 2016	V001.010.018	Obsolete
May 2015	V001.009.008	Obsolete

EIFE Firmware Release History

Date	Firmware version	Availability
April 2018	V003.007.024	Release for manufacturing
July 2017	V003.006.011	Obsolete
December 2016	V003.005.003	Obsolete
June 2016	V001.010.018	Obsolete

Baseline

A baseline in a product life cycle is a reference point marked by the completion and formal approval of a set of device versions.

IFE/EIFE firmware version 003.007.024 is baselined with the following device versions:

Range	Device	Part number	Firmware version
Enerlin'X	Enerlin'X IO - Input/Output Application Module for One Circuit Breaker	LV434063	V003.003.011
	Enerlin'X IFE - Ethernet Interface for One Circuit Breaker	LV434010 LV434001	V003.007.024
	Enerlin'X IFE - Ethernet Switchboard Server	LV434011 LV434002	
	Enerlin'X EIFE – Embedded Ethernet Interface for One Masterpact MTZ Drawout Circuit Breaker	LV851001	
	Enerlin'X IFM - Modbus-SL Interface for One Circuit Breaker	TRV00210 STRV00210	V2.2.11
		LV434000	V003.001.006
	Enerlin'X FDM121 - Front Display Module for One Circuit Breaker	TRV00121 STRV00121	V003.000.013
	Enerlin'X FDM128 - Ethernet Display for Eight Devices	LV434128	V6.5.3
	BCM ULP – Breaker Communication Module	33106	V4.1.9 and product date code higher than or equal to WX18205
Micrologic	Micrologic X control units for Masterpact MTZ Circuit Breakers	–	V002.000.002
	Micrologic A, E, P, H trip units for Masterpact NT/NW, Compact NS, and PowerPact P- and R-frame circuit breakers	–	V8284
	Micrologic trip units for Compact NSX and PowerPact H-, J-, and L-frame circuit breakers	–	V1.0.6
Micrologic 5.3 and Micrologic 6.2 trip units		V1.0.6 and product date code higher than 3N1706630589	
Acti9 Smartlink	Acti9 Smartlink - Modbus RS485 slave - smart communication IO module	A9XMSB11	V1.3.7
	Acti9 Smartlink - Modbus TCP/IP communication IO module	A9XMEA08	V2.5.5
	Acti9 Smartlink SI B Modbus TCP/IP and Wireless communication module	A9XMZA08	V2.2.0
	Acti9 Smartlink SI D - Wireless to Modbus TCP/IP Concentrator	A9XMWA20	V2.2.0
Ecoreach	Ecoreach – Digital Management of Electrical Distribution	–	V2.8

Firmware Upgrade with Ecoreach Software

Use the latest version of Ecoreach software:

- To check the firmware compatibility between devices
- To upgrade the firmware of the devices

For more information, refer to *Ecoreach Online Help*.

The latest version of Ecoreach software is available at www.schneider-electric.com.

Resolved Issues

Firmware version	Description
V003.007.024	<ul style="list-style-type: none"> • LV434001 and LV434002: ULP LED blinks green instead of yellow when IFE interface is in boot mode
V003.006.011	<ul style="list-style-type: none"> • None
V003.005.003	<ul style="list-style-type: none"> • ULP disconnection issue fix • IFE interface and IO module ULP communication do not share the correct chassis status when powered up and the circuit breaker is disconnected
V001.010.018	<ul style="list-style-type: none"> • IFE datalogs in CSV are logging Error 38 (Invalid Data) and not logging sub-network devices without Ethernet cables. (Error 38 indicates bad data) • X-Axis labels in the data logging graph are not showing the correct time • IFE server upgrade with IFM (V2.2.9) may no longer see the devices in the background and they cannot be found via Ecoreach

Restrictions and Known Issues

Firmware version	Description
V003.006.011	When IFE interface IP address configuration is changed with DHCP setting, the device does not acquire a new IP address unless device power cycle is done

Related Documents

The following table lists documents updated for IFE/EIFE firmware version 003.007.024:

Title of documentation	Publication date	Reference number
<i>Enerlin'X IFE – Ethernet Switchboard Server/ Ethernet Interface for One Circuit Breaker – Instruction Sheet</i>	03/2018	QGH13473-02
<i>Enerlin'X IFE – Ethernet Switchboard Server – User Guide (IEC)</i>	03/2018	DOCA0084EN-06 DOCA0084ES-06 DOCA0084FR-06 DOCA0084ZH-06
<i>Enerlin'X IFE – Ethernet Switchboard Server – User Guide (UL)</i>	03/2018	1040IB1401-06 (EN) 1040IB1402-06 (ES) 1040IB1403-06 (FR) 1040IB1404-06 (ZH)
<i>Enerlin'X IFE – Ethernet Interface for One IEC Circuit Breaker – User Guide</i>	03/2018	0602IB1801EN-00 0602IB1801ES-00 0602IB1801FR-00 0602IB1801ZH-00
<i>Enerlin'X IFE – Ethernet Interface for One UL Circuit Breaker – User Guide</i>	03/2018	DOCA0142EN-00 DOCA0142ES-00 DOCA0142FR-00 DOCA0142ZH-00
<i>Enerlin'X EIFE – Embedded Ethernet Interface for One Masterpact MTZ Drawout Circuit Breaker – Instruction Sheet</i>	03/2018	NVE23550-03
<i>Enerlin'X EIFE – Embedded Ethernet Interface for One Masterpact MTZ Drawout Circuit Breaker – User Guide</i>	03/2018	DOCA0106EN-03 DOCA0106ES-03 DOCA0106FR-03 DOCA0106ZH-03
<i>ULP System (IEC Standard) – User Guide</i>	03/2018	DOCA0093EN-03 DOCA0093ES-03 DOCA0093FR-03 DOCA0093ZH-03
<i>ULP System (UL Standard) – User Guide</i>	03/2018	0602IB1503-01 (EN) 0602IB1504-01 (ES) 0602IB1505-01 (FR) 0602IB1506-01 (ZH)

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