

Enerlin'X IFE Switchboard Server

Firmware Release Notes

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Safety Information

Important Information

Read these instructions carefully, and look at the equipment to become familiar with the device before trying to install, operate, service, or maintain it. The following special messages may appear throughout this documentation or on the equipment to warn of potential hazards or to call attention to information that clarifies or simplifies a procedure.



The addition of this symbol to a “Danger” or “Warning” safety label indicates that an electrical hazard exists which will result in personal injury if the instructions are not followed.



This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.

DANGER

DANGER indicates a hazardous situation which, if not avoided, **will result in** death or serious injury.

WARNING

WARNING indicates a hazardous situation which, if not avoided, **could result in** death or serious injury.

CAUTION

CAUTION indicates a hazardous situation which, if not avoided, **could result in** minor or moderate injury.

NOTICE

NOTICE is used to address practices not related to physical injury.

Please Note

Electrical equipment should be installed, operated, serviced, and maintained only by qualified personnel. No responsibility is assumed by Schneider Electric for any consequences arising out of the use of this material.

A qualified personnel is one who has skills and knowledge related to the construction and operation of electrical equipment and its installation, and has received safety training to recognize and avoid the hazards involved.

Cybersecurity Safety Notice

⚠ WARNING

POTENTIAL COMPROMISE OF SYSTEM AVAILABILITY, INTEGRITY, AND CONFIDENTIALITY

- Change default passwords at first use to help prevent unauthorized access to device settings, controls, and information.
- Disable unused ports/services and default accounts to help minimize pathways for malicious attackers.
- Place networked devices behind multiple layers of cyber defenses (such as firewalls, network segmentation, and network intrusion detection and protection).
- Use cybersecurity best practices (for example, least privilege, separation of duties) to help prevent unauthorized exposure, loss, modification of data and logs, or interruption of services.

Failure to follow these instructions can result in death, serious injury, or equipment damage.

About the Book

Document Scope

This document provides the firmware version history of IFE Ethernet switchboard server.

Validity Note

This document is valid only for IFE Ethernet switchboard server.

Online Information

The technical characteristics of the devices described in this guide also appear online. To access the information online, go to the Schneider Electric country website at www.se.com.

The information contained in this guide is likely to be updated at any time. Schneider Electric strongly recommends that you have the most recent and up-to-date version available on www.se.com/ww/en/download/.

Related Documents for IEC Devices

The following table lists the documents valid for IEC devices that are compatible with an IFE Ethernet switchboard server with the latest firmware version:

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
<i>Enerlin'X IFE – Ethernet Switchboard Server – User Guide</i>	09/2024	DOCA0084EN DOCA0084ES DOCA0084FR DOCA0084ZH
<i>ULP System (IEC Standard) - User Guide</i>	10/2023	DOCA0093EN DOCA0093ES DOCA0093FR DOCA0093ZH
<i>MasterPacT MTZ – Modbus Communication Guide</i>	05/2023	DOCA0105EN DOCA0105ES DOCA0105FR DOCA0105ZH
<i>MasterPacT NT/NW, ComPact NS - Modbus Communication Guide</i>	05/2023	DOCA0054EN DOCA0054ES DOCA0054FR DOCA0054ZH
<i>ComPacT NSX - Modbus Communication Guide</i>	07/2022	DOCA0213EN DOCA0213ES DOCA0213FR DOCA0213ZH

Title of documentation	Publication date	Reference number
<i>ComPact NSX - Modbus Communication Guide</i>	07/2022	DOCA0091EN DOCA0091ES DOCA0091FR DOCA0091ZH
<i>ComPacT NS - Modbus Communication Guide</i>	07/2022	DOCA0220EN DOCA0220ES DOCA0220FR DOCA0220ZH

You can download these technical publications and other technical information from our website at <https://www.se.com/en/download/>

Related Documents for UL/ANSI Devices

The following table lists the documents valid for UL/ANSI devices that are compatible with an IFE Ethernet switchboard server with the latest firmware version:

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
<i>Enerlin'X IFE – Ethernet Switchboard Server – User Guide</i>	09/2024	DOCA0084EN DOCA0084ES DOCA0084FR DOCA0084ZH
<i>ULP System (UL Standard) – User Guide</i>	10/2023	0602IB1503EN 0602IB1504ES 0602IB1505FR 0602IB1506ZH
<i>MasterPacT MTZ – Modbus Communication Guide</i>	05/2023	DOCA0105EN DOCA0105ES DOCA0105FR DOCA0105ZH
<i>MasterPacT NT/NW and PowerPact P- and R-Frame – Modbus Communication Guide</i>	07/2022	0613IB1313EN 0613IB1314ES 0613IB1315FR 0613IB1316ZH
<i>PowerPact H-, J-, and L-Frame Circuit Breakers – Modbus Communication Guide</i>	05/2023	0611IB1302EN 0611IB1303ES 0611IB1304FR 0611IB1305ZH

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Information on Non-Inclusive or Insensitive Terminology

As a responsible, inclusive company, Schneider Electric is constantly updating its communications and products that contain non-inclusive or insensitive terminology. However, despite these efforts, our content may still contain terms that are deemed inappropriate by some customers.

Introduction

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 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.

NOTE: The IFE server with part number LV434002 completely replaces the IFE server with part number LV434011. The part number LV434002 comes with the real time clock (RTC) feature and allows ULP connections up to 20 m (65.6 ft) with the MasterPacT MTZ circuit breakers (LV434011 had a theoretical limitation of 5 m (16.4 ft) over the life of the IFE server).

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

NOTE:

- The information related to the new generation of ComPacT NSX and PowerPacT H-, J-, and L-frame circuit breakers in this document applies to ComPacT NSX and PowerPacT H-, J-, and L-frame circuit breakers also. The exceptions are mentioned wherever applicable.
- The information related to the new generation of ComPacT NS and PowerPacT P- and R-frame circuit breakers in this document applies to ComPacT NS and PowerPacT P- and R-frame circuit breakers also. The exceptions are mentioned wherever applicable.

Firmware Release History

The following table indicates the availability of each firmware version:

Date	Firmware version	Availability
February 2025	005.002.000	Released for manufacturing
May 2024	005.001.000	Obsolete
July 2022	003.016.000	Obsolete
February 2022	003.015.000	Obsolete
July 2021	003.014.000	Obsolete
April 2021	003.013.003	Obsolete
January 2021	003.012.002	Obsolete
October 2020	003.011.003	Obsolete
December 2019	003.010.005	Obsolete
March 2019	003.009.010	Obsolete
April 2018	003.007.024	Obsolete

Date	Firmware version	Availability
July 2017	003.006.011	Obsolete
December 2016	003.005.003	Obsolete

Firmware Update Policy

Firmware update is recommended to benefit from the latest features and potential bug fixes. Do not update the firmware to the latest version, if the latest features are not required for your application and no bug fixes are provided.

Use this release note to confirm if an update to the latest version of the firmware is relevant for your application.

For more information on the firmware update policy and the firmware compatibility between devices, refer to *MicroLogic Trip and Control Units - Firmware History – DOCA0155EN*.

Firmware Update with EcoStruxure Power Commission Software

Use the latest version of EcoStruxure Power Commission (EPC) software to update the device with the latest firmware version available.

Click [here](#) for the latest version of EPC software.

For more information on the use of EPC software, refer to *EcoStruxure Power Commission Online Help*.

Firmware Versions

Firmware Version 005.002.000

Bug Fixed

Firmware upgrade of ComPacT NSX circuit breakers with MicroLogic 7.2 or 7.3 trip units through EPC software and IFE server was unsuccessful.

Firmware Version 005.001.000

Security Updates

Enhanced the following Cybersecurity features:

- Enabled the HTTPS mode for the web interface.
- Enabled the FTPS mode for file import.
- Added the Syslog logging service feature.
- Revised the user management configuration rules according to the Role Base Access Control (RBAC) strategy.
- Added RBAC for MasterPacT MTZ and ComPacT NSX with MicroLogic 5, 6, and 7 trip units.
- Enabled automatic export of datalog file.
- Enabled compatibility with EcoStruxure Cybersecurity Admin Expert (CAE) software.
 - Added Device Specific Settings (DSS) feature that enables the IFE/EIFE interface configurations to be tailored for each individual device.
 - Added signature verification feature to validate the security configuration files received from CAE software.
- Added the Machine-to-Machine (M2M) communication for Modbus communication.
- Enhanced the policies of password security.

New Features

The following features are added:

- Enhanced firmware upgrade feature.
- Improved design for the webpage interface.
- IEC 61850 communication protocol which is compatible with CET850 configuration software.
- Rapid Spanning Tree Protocol (RSTP).
- Enhanced the Simple Network Time Protocol (SNTP) with the Network Time Protocol (NTP).
- Integration of BSCM Modbus SL/ULP module.

Known Issues

The firmware version 005 does not support the following features as compared to the firmware version 003:

- Firmware version 005 supports less devices as compared to the firmware version 003. For more information, refer to the list of supported devices with the firmware version 005 and the firmware version 003 in the *Enerlin'X IFE – Ethernet Switchboard Server - User Guide*.
- Display of the IO module input/output configuration.
- Adding remote devices.
- Trending graphs.
- Data logging for serial devices.

Firmware Version 003.016.000

New Features

Freshness timeout for ULP communication is configurable.

Firmware Version 003.015.000

New Features

Enhanced firmware upgrade feature for ComPacT NSX and PowerPacT H-, J-, and L-frame circuit breakers.

Firmware Version 003.014.000

Security Updates

Included the patch for IPv6 vulnerabilities.

Firmware Version 003.013.003

New Features

The new range of ComPacT NSX and PowerPacT H-, J-, and L- frame circuit breakers are introduced with the evolution of existing ComPacT NSX and PowerPacT H-, J-, and L-frame range of circuit breakers.

Bugs Fixed

New administrators were able to perform the control operations without the acceptance of the disclaimer message.

Firmware Version 003.012.002

New Features

Added MicroLogic Xi control units. A MicroLogic Xi is a control unit without Bluetooth Low Energy (BLE) communication.

Bugs Fixed

Time synchronization of IFM interface with IFE server did not happen when the IFE server was in Daylight Saving mode.

Firmware Version 003.011.003

New Features

The events are added for internal Current Power Supply (CPS) sensors, available with the MicroLogic X control unit for firmware version 004.105.000 or higher.

Bugs Fixed

Treck TCP/IP Vulnerabilities (Ripple20)

For more information, refer to [SEVD-2020-175-01](#) *Schneider Electric Security Notification*.

Firmware Version 003.010.005

New Features

Access has been added through Modbus registers to the following data for MasterPacT MTZ circuit breakers:

- IDMTL protection trip
- Over/Under frequency trip
- Directional overcurrent trip
- Discrepancy between display and MicroLogic

Bugs Fixed

The following bugs are fixed:

- Modbus TCP communication was lost due to serial driver issue.
- When IP Filtering was enabled as Read only, the Modbus function *Scattered read* was blocked.

Firmware Version 003.009.010

New Features

The following maintenance features have been added and are available with a MicroLogic X control unit with firmware version 003.011.000 or higher:

- New events for contact wear ratio.
- New events for type of preventive maintenance to be performed.

Access has been added through Modbus registers to the following data for MasterPacT MTZ circuit breakers:

- Average peak current demand.
- Minimum and maximum values of real-time measurements.
- Energy per phase values.
- Main settings of the active setting group of current protection functions.

NOTE: The configuration of the connection to EcoStruxure Facility Expert is not available now. You can use Enerlin'X COM'X energy servers to configure the connection to EcoStruxure Facility Expert.

Bugs Fixed

The following bugs are fixed:

- IFE server lost its clock master status when SNTP server did not answer.
- IFE server restarted when discovery packet from Satchwell Sigma BMS platform was received.

Firmware Version 003.007.024

New Features

The following features are added and are 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.

Added ComPacT NSX circuit breaker with MicroLogic 7 trip unit as discoverable device that can be connected to ULP port of IFE server.

Added 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.

Bug Fixed

LV434002: ULP LED was blinking green instead of yellow when IFE server was in Boot mode.

Firmware Version 003.006.011

New Features

The following features are added:

- Access has been added through Modbus registers to the trip cause data for MasterPacT MTZ circuit breakers.
- Support of alpha-numeric passwords for IFE webpages.
- LV434002: Added support for the internal battery that maintains the date and time settings of the real-time clock (RTC) during a power loss.
- Compatibility with ULP cables up to 20 m (65 ft) in length.
- Alarm support for the MicroLogic P and H advanced protection settings, allowing an alarm email to be sent.
- Discovery from IFE webpages of devices equipped with non-communicating trip units, through BCM or BSCM module (For example, NSX non-communicating MicroLogic with BSCM module), for device status display only.
- Compatibility with new MicroLogic 7 trip units for ComPacT NSX circuit breakers.
- Integration of Acti9 Smartlink SI D as a remote device.
- Modbus end-of-line termination default value in webpage for easier default configuration.

NOTE: The Schneider Electric automatic email profile is not available now. You have to use your own SMTP server.

Bugs Fixed

The following bugs are fixed:

- FTP server could not be enabled in Italian language.
- BCM firmware update was not performed when IFE device closed connection in DHCP mode.

Firmware Version 003.005.003

New Features

The following features are added:

- The MasterPacT MTZ circuit breakers are now discoverable devices.
- Integration of secure email.

Bugs Fixed

The following bugs are fixed:

- IFE time and date were not well synchronized with the SNTP server.
- Refresh of data on IFE device stopped after a few hours of use.
- IP filtering was disabled after a firmware update of IFE devices.
- IFE device and IO module ULP communication did not share the correct cradle status when powered up with a device in disconnected position.

Schneider Electric
35 rue Joseph Monier
92500 Rueil Malmaison
France

+ 33 (0) 1 41 29 70 00

www.se.com

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