

FREE Advance Secure Interface (m172si-v0.6.0)

Firmware Release Notes

Original Instructions

11/2024

RN0000000134.01



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About the Book

Document Scope

This document contains important information about the firmware delivery of product Secure Interface. Read the complete document before you use the firmware described herein.

Validity Note

The information in this Release Notes document is applicable only for FREE Advance Secure Interface. This document has been updated for the release of firmware m172si-v0.6.0

The characteristics of the products described in this document are intended to match the characteristics that are available on www.eliwell.com. As part of our corporate strategy for constant improvement, we may revise the content over time to enhance clarity and accuracy. If you see a difference between the characteristics in this document and the characteristics on www.eliwell.com, consider www.eliwell.com to contain the latest information.

Related Documents

Title of documentation	Reference number
FREE Studio Plus Release Notes	9MA10300

Cybersecurity Note

For information on cybersecurity go to Recommended Cybersecurity Best Practices.

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.

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 manual or on the equipment to warn of potential hazards or to call attention to information that clarifies or simplifies a procedure.



The addition of either 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.

Product Information

Overview

Maintenance release of Secure Interface Firmware, with implementation of new features and bug fixing

Product Identification

Reference	Description	Version	Note
AVS00PI070500	FREE Advance Secure Interface Plug-in	Firmware m172si-v0.6.0	updated
AVS00GW080500	FREE Advance Secure Interface Gateway	Firmware m172si-v0.6.0	

Release History

Version	Release Date	Description
0.6.0	November 2024	Release notes firmware m172si-v0.6.0
0.5.0	February 2024	Release notes firmware m172si-v0.5.0

Compatibility

AVS00PI070500/ AVS00GW080500 Logic Controllers

Installation Instructions

Firmware m172si-v0.6.0 can be downloaded from our website www.eliwell.com.

Follow the instructions of the FREE Advance AVS00• Secure Interface User Guide.

To help ensure the correct operation of the devices, it is necessary to update the PLC project to target 815.06 (for Plugin model) or 816.06 (for Gateway Model) and download it into the devices.

Firmware Information

Firmware Upgrade

NOTICE

UNINTENDED EQUIPMENT OPERATION

When uploading to firmware 0.6.0 all users are reset and must be recreated.

Failure to follow these instructions can result in equipment damage

New Features

AVPS00• (FIRMWARE m172si-v0.6.0)

- Change HTTPS Basic Authentication Mechanism
- Introduce HTTPS certificate management.
- Implemented additional security measures to help ensure that only valid and unaltered files are used for the update.
- DHCP server on RNDIS.
- Possibilities to enter the Device name.
- Add Application Name and Release.
- WEB PLC Users Management:
 - Increase to eight the web users number
 - Web pages access permissions management.
 - Functionality to add web users is remove from WebApp and added in SW FREE Studio Plus 1.7.0.

The screenshot shows the 'Configuration' tab of the software interface. The main window is titled "'USER_1' USER PAGE'. It contains a login form with fields for 'User name' (containing 'User_1') and 'User password'. Below the password field is a 'Default permission' dropdown menu set to 'w' and a 'Change password at login' checkbox which is checked. There are '+ Add' and '- Remove' buttons. Below the form is a table with the following data:

#	Page	Permission
1	Page1	w
2	Page2	r
3	Page3	-

Mitigated Anomalies

AVPS00• (FIRMWARE m172si-v0.6.0)

Solved the following issues:

- Unexpected Email sending to last mail server.
- Poor display of web pages.

Security Updates

The following third-party components have been updated to address cybersecurity vulnerabilities.

Component	ID
mbedTLS	CVE-2024-30166
net filters on Linux	CVE-2024-1086

Installation Instructions v0.6.0

- 1. WebServer Configuration Files Update:**
 - The WebServer configuration files are updated automatically, regardless of the data migration option selected.
- 2. Webdata Content Reinitialization:**
 - The webdata content is reinitialized with new content. Any existing user websites will be deleted as they would no longer be usable.
NOTE. Automatic conversion of old websites is not possible.
- 3. Web Page Compatibility:**
 - Web pages developed with previous firmware versions are not compatible with version 0.6.0.

Compatibility Table

Starting Version	Target Version	Skip Data Migration
0.4.0 and earlier	0.5.0	YES
0.4.0 and earlier	0.6.0	YES
0.5.0	0.6.0	NO

Additional Notes

- **Update from 0.5.0 to 0.6.0:** No need to select "skip data migration."
- **Update from 0.4.0 or earlier to 0.5.0 or 0.6.0:** "Skip data migration" must be selected.
- **New FREE Studio Plus** If the target selected is 0.5.0 and **FREE Advance Secure Interface** is 0.5.0, the website functions correctly.

NOTE. Using incompatible versions of Eco Struxure Machine Expert HAVC and TM172SI Secure Interface can cause unexpected user web pages to appear.

Additional Information

Release Notes History

Release Notes FREE Advance Secure Interface (Firmware m172si 0.5.0)

First Release

Installation Instructions v0.5.0

Firmware m172si-v0.5.0 can be downloaded from our website www.se.com.

Follow the instructions of the FREE Advance Secure Interface User Guide.

In order to be fully effective, this specific update requires to enable the option "Skip data migration". After the update, if used, PLC application and PLC WEBapp must be downloaded to restore all functionalities.

Install new firmware

By clicking on **INSTALL** your file `m172si-v0.5.0_signed.raucb` will be installed as a new firmware on this machine. Installation process can't be interrupted once it runs.

The web application will be restarted at the end of the process.

Skip data migration, migrate network configuration only

INSTALL Cancel

Firmware Information

Mitigated Anomalies v0.5.0

AVPS00• (FIRMWARE m172si-v0.5.0)

Solved the following issues:

- Function Blocks ModbusRTU_DiscrInputs() and ModbusRTU_DiscrInputs_Async() send the Read Coil command FC01 instead of the expected FC02.
- Special characters like &, # used in variable strings displayed on the User WEBapp cause string truncation. (This fix, also resolved in version 0.4.0, requires a firmware update without data migration to take effect).
- Numeric values defined in the PLC Application with the format XXX.Y or XX.YY are not properly edited from the User WEBapp pages, causing an incorrect value to be saved in the PLC. (This fix requires a firmware update without data migration to take effect).

Eliwell Controls s.r.l.
Via dell'Industria 15
32016 Alpago (BL) – Italy
Phone: +39 0437 166 0000
www.eliwell.com

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RN0000000134 Rev 01