FREE Studio Plus

Release Notes

09/2021



www.eliwell.com



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Safety Information

Important Information

NOTICE

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.

A WARNING

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

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

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A qualified person 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.

About the Book

At a Glance

Document Scope

This document contains important information about the hardware/firmware/software delivery of product FREE Studio Plus. Read the complete document before you use the product or products described herein.

Validity Note

The information in this Release Notes document is applicable only for FREE Studio Plus compatible products. This document has been updated for the release of FREE Studio Plus V1.4.0.

The technical characteristics of the devices described in this document also appear online. To access this information online, go to the Eliwell home page *www.eliwell.com*.

The characteristics that are presented in the present document should be the same as those characteristics that appear online. In line with our policy of constant improvement, we may revise content over time to improve clarity and accuracy. If you see a difference between the document and online information, use the online information as your reference.

Chapter 1 Product Information

Overview

Maintenance release of FREE Studio Plus, with implementation of new features and bug fixing.

Product Identification

Reference	Description	Version	Note	
EVEVD1U000500	EEVD Expansion1 EEV Unipolar	Firmware msk: 772.00 NOT updated		
EVEVD●B000500	EEVD Expansion1 or 2 EEV Bipolar Firmware msk: 766.00 NOT		NOT updated	
EVD75●●	FREE Evolution Logic Controllers 27 I/OS	Firmware msk: 423.28	updated	
EVC75●●	FREE Evolution Performance Logic Firmware msk: u Controllers 27 I/OS 477.28		updated	
EVP3●●	FREE Panel Flush mountingFirmware msk:upControllers489.21		updated	
EVK1000	Remote Display HMI	Firmware msk: 476.21	updated	
AVK1000	Remote Display HMI		NEW PRODUCT	
AVD126●●/ AVC126●●/ AVD84●●/ AVC84●●	FREE Advance Logic Controllers 28 and 42 I/OS	Firmware msk: 596.12	updated	
AVD62●●/ AVC62●●/ AVD30●●/ AVC30●●	FREE Advance Logic Controllers 7 and 18 I/Os	e Logic Controllers 7 Firmware msk: 668.12		
AVP1●●●	FREE AVP1000 Display Color TouchScreen, Temperature (Humidity) built-in sensor(s) FREE AVP1000 Display Color TouchScreen Flush Mounting		updated	
SM●●●●	FREE Smart Logic Controllers	Firmware msk: updated 542.10		
SM●●●●	FREE Smart Logic Controllers	Firmware msk: 412.21	are msk: updated	
EVE6000/EVE10200	FREE Advance Expansion 12 and 28 I/Os			
XVD	XVD EEV Driver	Firmware msk: 497.13 (obsolete) 589.20	NOT updated	

Release History

Version	Release Date	Description
1.4.0	July 2021	FREE Studio Plus 1.4.0
1.3.0	January 2021	FREE Studio Plus 1.3.0
1.2.1	May 2020	FREE Studio Plus 1.2.1
1.2	February 2020	FREE Studio Plus 1.2.0
1.1	July 2019	FREE Studio Plus 1.1.0
1.0	December 2018	FREE Studio Plus 1.0.0

System Requirements

FREE Studio Plus can be installed on a personal computer having the following characteristics:

Operative System

- Windows 8 / 8.1 64 Bit
- Windows 10 64 Bit

Hardware requirements

- Processor Intel Pentium 1.6 GHz processor or greater
- RAM 1 GB; 2 GB preferred
- Hard Disk 500 MB hard disk space for a default installation; allow a further 1 GB hard disk space for installing libraries and dedicated applications
- Peripherals Mouse or compatible pointing device
- Peripherals USB interface
- Web access Web registration requires Internet access

FREE Studio Plus requires Administrator rights to be installed.

For further information, contact your local Eliwell representative.

Compatibility

All FREE Logic Controllers

Installation Instructions

FREE Studio Plus software can be downloaded from our website https://www.eliwell.com

The product version concerned offers the FREE Studio Plus functions associated with logic controllers.

Follow setup wizard and refer to FREE Studio Plus Operating Guide

Chapter 2

Hardware/Firmware Information

New Features

NEW FEATURES IN

- AVD126●●/ AVC126●●/ AVD84●●/ AVC84●●
- AVD62●●/ AVC62●●/ AVD30●●/ AVC30●●
- (FIRMWARE MSK 596.12 AND MSK 668.12)
- AVD● Make sysUART_Reinit flush the buffer

NEW PRODUCT AVK1000 (FIRMWARE MSK 476.21)

Mitigated Anomalies

- AVD126●●/ AVC126●●/ AVD84●●/ AVC84●●
- AVD62●/ AVC62●/ AVD30●/ AVC30● (FIRMWARE MSK 596.12 AND MSK 668.12)

Solved the following issue:

- Rebooting reading Modbus address 65535 in Modbus RTU and TCP protocol
- Analog Input (Alx) used like Digital Input (DI) does not ignore calibration parameter Cfg_Aix
- Communication via Modbus RTU Client is lost with a fault using EVEVD as server
 - Improved Implementation of Modbus Protocol for the management of repeated response from slaves.
- In case of micro SD corrupted controller resets continuously
 - After a reset for a WDT:8, the device restarts not allowing automatic or manual mounting, until microSD is removed and put back, or replaced. If another corrupted microSD is inserted there will be a WDT:7 error.

EVK1000 (FIRMWARE MSK 476.21)

Solved the following issues:

- Wrong management of long enumerative with over than 258 items.
- If multiple reset occur due to problems loading the HMI, it is not possible to enter DIAGNOSTIC menu
 - In case of WDT restart, the DIAGNOSTIC menu will be executed. If within ten seconds no actions are done the HMI starts automatically.

EVP3●● (FIRMWARE MSK 489.21)

Solved the following issues:

- Wrong management of long enumerative with over than 258 items.
- Analog Input (Alx) used like Digital Input (DI) does not ignore calibration parameter Cfg_Alx
- Wrong BACnet values in EEPROM after a boot
- Not able to manage multiple object subscribes BACnet MSTP
- Communication issue with BACnet MS/TP (BACnet verifies Tusage_delay and Tusage_timeout)
- After a getEventInformation BACnet command, controller replies with a too long message and then replies to a wrong MASTER
- Controller doesn't send error when trying to change BACnet PA6
- Multiple subscriptions of BACnet objects might lead a WDT reset

EVD75●●/ EVC75●● (FIRMWARE MSK 423.28 & MSK 477.28)

Solved the following issues:

- Wrong management of long enumerative with over than 258 items.
- Analog Input (Alx) used like Digital Input (DI) does not ignore calibration parameter Cfg_Alx
- Wrong BACnet values in EEPROM after a boot
- Not able to manage multiple object subscribes Bacnet MSTP
- Communication issue with BACnet MS/TP (BACnet verifies Tusage_delay and Tusage_timeout)
- After a getEventInformation BACnet command, controller replies with a too long message and then replies to a wrong MASTER
- Controller doesn't send error when trying to change BACnet PA6
- Multiple subscriptions of BACnet objects might lead a WDT reset

AVP1 •• (FIRMWARE MSK 659.08)

Solved the following issues:

- Sometimes there is a "Download application failure"
- Few installed devices have shown string visualization problem

Chapter 3

Software Information

New Features

- New "Templates" section added to the program landing page and in the File menu
- Improvement of pages navigation for HMI menus created through Display tab. "Close page and back" function is now always available.
- Library of images is now available in Display
- Improved functions to create and configure HMI Project profiles.
- FREE Advance Reconfiguration Master/Slave RS485-2 from IEC code
- New features in AFB Communication library: ATV320ModbusCom ATV320ModbusTcpCom ATV630ModbusCom ATV630ModbusCom

EBMpapst ModbusCom library: EBMFanOperation EBMReset EBMSetFanAddress EBMStatusInfo

EC Blue Basic ModbusCom library: ECBlueBasicCMODE ECBlueBasicCOMerrWTD ECBlueBasicErrorStatus ECBlueBasicInfoOpCd1 ECBlueBasicMotorReset ECBlueBasicControlman ECBlueBasicSetFanAddress ECBlueBasicSetFixedSpeed ECBlueBasicSetIO f_ECBlueBasicControlWEn f_ECBlueBasicControlWFull f_ECBlueBasicMotorCurrent f_ECBlueBasicSpeedCtrl

- New baseline Precision Air Conditioner (1.0)
- New baseline Air Handling Unit (1.28.1)

Mitigated Anomalies

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- Solved the following issues:
 - Improve to copy set or string or enum table for HMI
 - EVEVD /FREE Studio Plus BIOS update download failure
 - Hidden unsupported operators in simulation mode

- FREE Advance Improvement to decrease boot time due CAN device missing
- Refactoring is not propagated to display part
- Wrong IEC code for FREE Smart and a modbus custom driver
- Error in sysWritePar*() functions if value input is an Eeprom parameter if value arrive from Eeprom parameter
- EVK1000 Bug with a long enumerative (over 258 items)
- Bug last profile used in display is forgotten
- CharDimX and CharDimY at 1 like default value
- Simulator doesn't run in a correct way sys_LISBD_Command has been implemented in simulator. An en
 - sys_USBD_Command has been implemented in simulator. An embedded function is used to detect the correct task
 - 2 = Command code non valid (in back/init task)
 - 3 = Command not executed; function called into task timed.
- Misallignement between AP and DE compilation
- CanOpen_IEC Library: CanOpen Library properly renamed.
- Missing CFG_A01 and CFG_AO2 in param.bin for FREE Advance 4DIN if USB key creation files is used
- Wrong parameters definition result using scale 1 offset 1
- Write default values does not work
- Warm restart wrongly triggered
- Error generating EDS file when the project name contains unicode characters
- Eeprom parameters are created as read-only with "Add multiple" command.
- Source code becomes changeable during live debug
- "Download all" command in Installer from the upper toolbar causes script error in current HTML page
- A constant cannot be used as array bound on structure field
- Objects cannot be imported from library if custom workspace is disabled
- REAL values are truncated in Televis driver generator.
- Solved the following issues in AFB Application library (1.3.3):
 - CompMgmtVS(1.1.3): Code optimization; internal limitation of rSp based on current available capacity in order to avoid multiple compressor start after an alarm reset; extended range of rMinRange (0.0 is now allowed); redefined the way rReqCapacity is calculated (removed the use of ATAN, COS...in order to avoid calculation error with float); improved second tic calculation xlGetSecondTic; added full alarm ordering in order to avoid bug in case multiple alarms and request decrease at the same time
 - FanMgmt(1.0.2): fixed issues with hyst>=minfrequency; division by 0 prevention; offTimer wrong; removed correction in rPowerSP (1.05)
 - CompCntrl_VS(1.1.2): Bug fix: l_uiFreqCalc not updated if l_iSetpoint>=1000 or <= l_uiMinFreq
 - EEVDCntrl(1.0.4): Created array aauiEEVCntrlParamsImp to manage Imperial UM with selection; passed q_iSuperHeat and q_iEvapTemp, instead of q_iSuperHeatSI and q_iEvapTempSI to EEVSHCntrl
 - EEVDCntrl(1.0.4): increased range of i_iSuperHeatSetp, i_iMOPSetp, i_iContModSetp in EEVSHCntrl
 - EEVDCntrl(1.0.4): I_uiSupHeatSetpMax wrong initialization in FB_EEVDDynSetpCalc
 - EEVDSettingsU(1.1.3): Load set of parameters just after xEn = TRUE,
 - EEVDSettingsB(1.1.3): Load set of parameters just after xEn = TRUE
 - FloatingHighPresCntrl(1.1.1): Alarms related to Press2Temp independent from update of refrigerants
 - EvapPresCntrl(1.1.1): Alarms related to Press2Temp independent from update of refrigerants

- AHUTempCntrlStrategy(1.0.1): fixed warning generated with REAL conversion
- Solved the following issues in AFB Regul and Controls library (1.1.3):
 - PIDAdvanced(1.1.0): Dead band behavior modified, dead band high limit removed; PID low limit moved to -100.0
 - OperatingHours(1.0.1): Fixed hours calculation (in case of use in Timed the error was 10%)
- Solved the following issues in AFB Communication library (1.1.0):
 - ATV12ModbusCom(1.0.1), ATV312ModbusCom(1.0.1), ATV31ModbusCom(1.0.1), ATV32ModbusCom(1.0.1), ATV61ModbusCom(1.0.1), ATV71ModbusCom(1.0.1): Bug fix: in init state, changed if condition to go to 'stopping'

Known Operational Anomalies

NONE

Chapter 4

Additional Information

Other Important External Information

None

Release Notes History

Release Notes FREE Studio Plus – HVAC v1.3.0

Fourth Release

Release Notes FREE Studio Plus - HVAC v1.2.1

Third Release

Release Notes FREE Studio Plus - HVAC v1.2

Second Release

Release Notes FREE Studio Plus - HVAC v1.1

First Release

New Features v1.3.0

NEW EVEVD1U00500/EVEVD●B00500 (FIRMWARE MSK 772.00 AND MSK 766.00)

 New EEVD Expansions to drive 1 Unipolar Electronic Expansion Valve or up to 2 Bipolar Electronic Expansion Valves

NEW FEATURES IN AVD●●●●/ AVC●●●● (FIRMWARE MSK 596.11 AND MSK 668.11)

- Reconfiguration Master to Slave on RS485-2 from IEC code:
 - if Modbus register 16145 is set different from 0 and MbMRtu_IsDisByPar function is present before MbMRtu_OpenChn function in CONNEC.PAR file then Modbus Master is disabled and Modbus Slave is enabled
- Improvent to decrease boot time due CAN device missing:
 - if Modbus register 16144 is set different from 0 and COPM_SlavePresenceByPar function is present before COPM_SlaveAssignfunction in CONNEC.PAR file then master controller skip inizialization of the CAN expansion indicated in register 16144 as following:
 - register 16144 bit0 : if 0 the 1st CAN slave in CONNEC.PAR sequence is present otherwise it is not present
 - register 16144 bit1 : if 0 the 2nd CAN slave in CONNEC.PAR sequence is present otherwise it is not present
 - o ...
 - register 16144 bit11 : if 0 the 11th CAN slave in CONNEC.PAR sequence is present otherwise it is not present

- Extension to negative value for web select objects:
 - <select> range is now from -999 to 9999
- Improve not changing IP address on fly:
 - every time was written a parameter from 15798 to 15817 a timeout of 30 seconds is loaded. This timeout delay reload of ETH settings
- New target Data Block to prevent reading application executable:
 - introduced BOOL MEMO Data Block 5001.0 : if FALSE then *.COD files can be opened by FTP or virtual FTP otherwise not (*.COD files can't be opened by FTP and virtual FTP)

NEW FEATURES IN SM●●●●● (FIRMWARE MSK 542.10)

- Modbus protocol available on COM0 (LAN)
- Modbus master available on COM0 (LAN)
- Added parameters CF35, CF36, CF37 to set protocol on COM0
- CF00 change of range to select protocol on COM0
- Added parameter CF39 to select which COM port is enabled for modbus master
- Preset of parameters CF35, CF36, CF37, CF39 with default values to permit to program old devices without updating EEPROM map

NEW FEATURES IN SM●●●● (FIRMWARE MSK 412.21)

- Modbus protocol available on COM0 (LAN)
- Added parameters CF35, CF36, CF37 to set protocol on COM0
- CF00 change of range to select protocol on COM0
- Preset of parameters CF35, CF36, CF37 with default values to permit to program old devices without updating EEPROM map

Mitigated Anomalies v1.3.0

AVD●●●●/ AVC●●●● (FIRMWARE MSK 596.11 AND MSK 668.11)

Solved the following issue:

- recognize only first USB key plugged after a boot
- FTP Command Timeout changing from 10 to 30 seconds
- input Web server authentication always active in iOS
- Removing file using FTP a WDT reset occurs
- Green led ON before end download with USB key
- After a getEventInformation BACnet command , controller reply with a message too long
- When a BMS try to change PA6 for BACnet AV the controller should reply with a writeaccess denied and not change PA15
- Communication issues with BACnet MS/TP, BACnet verify Tusage_delay and Tusage_timeout
- FREE Advance WDT0 reset at power on

SM●●●● (FIRMWARE MSK 542.10 AND MSK 412.21)

Solved the following issues:

Improved serial communication

New Features Hardware/Firmware v1.2.1

NEW FEATURES IN AVD●●●●/ AVC●●●● (FIRMWARE MSK 596.10 AND MSK 668.10)

- For reasons of Internet security:
 - Modbus TCP / BACnet IP / FTP are disabled by default. Therefore Modbus TCP / BACnet IP / FTP have to be manually enabled.
 - The following Target functions has new added return codes:
 - sysHTTP_AuthentGuest()
 - sysHTTP_Authentication()
 - sysFTP AuthentGuest()
 - sysFTP Authentication()
- Increased number of Modbus TCP Client from 3 to 8
- Increased number of register from 16 to 20 for the following Modbus on event functions:
 - sysMbMRTU_FC03()
 - sysMbMRTU_FC01()
 - sysMbMRTU FC02()
 - sysMbMRTU FC04()
 - sysMbMRTU_FC15()
 - sysMbMRTU FC16()
- Introduced the following Target variables to count the number of Modbus message received on the relate serial port:
 - sysMODBUS_msg_received_USB AT %MD5000.0 : UDINT; { DE:"Counter for modbus message received on USB-device" }
 - sysMODBUS_msg_received_RS485-1 AT %MD5000.1 : UDINT; { DE:"Counter for modbus message received on RS485-1" }
 - sysMODBUS_msg_received_RS485-2 AT %MD5000.2 :
 - UDINT; { DE: "Counter for modbus message received on RS485-2" }
 - sysMODBUS_msg_received_RS485-Plugin AT %MD5000.3 : UDINT: { DE: "Counter for modbus message received on RS485/232 Plugin" }
- Modified in Read Only the MAC address
- Introduced Target function sysLocalADCs_Fast() to read scaled Analog to Digital Converters values to be able to handle a faster read of Analog Inputs configured as Digital Inputs
- Introduced Target function sysUART_Reinit() to modify run-time UARTs settings using sysUART_getbuf() and sysUART_putbuf() Target functions
- Introduced Baud Rate at 2400b/s for sysUART Target functions

NEW FEATURES IN XVD (FIRMWARE MSK 589.20)

o Implemented Unipolar Valves driving for Parker-Sporlan CEV models

Mitigated Anomalies Hardware/Firmware v1.2.1

AVD●●●●/ AVC●●●● (FIRMWARE MSK 596.10 AND MSK 668.10)

Solved the following issue:

- Additional 0xCC character received in sysUART_getbuff() Target function
- After several copy of a file from microSD to USB-host controller reset

AVP1●●● (FIRMWARE MSK 659.07)

Solved the following issues:

- sysMbMRTU_FC03() Target function not include all error cases
- When a page change it is visible a display flickering

XVD (FIRMWARE MSK 589.20)

Solved the following issues:

when change MOP setpoint (SP3) Driver must be reset to have new setting active.

New Features Software v1.2.1

- Integrated new SESU 2.3.0.
- Ask to select language during installation
- EULA in Japanese.
- Modbus variables can be exported to a Ecostruxure Operator Machine Expert compatible format
- Target RTC alignment during Download All
- Graphical minor changes on logos and icons
- Live debug function for ST language
- Direct bit mapping with physical location
- Support for direct bit access
- Optimization of watch windows
- Support for dynamic array bound using a symbolic constant
- POU can be saved into separate file to facilitate the integration with version control systems
- Improved RS485 configuration form
- Zoom function in Programming Editor
- Bios Parameters \rightarrow Add full list in Menu
- Change Filter Icon in Commissioning/Installer
- Cybersecurity best practices adoption (force user to change password at first access and unsecure protocols disabled by default)

Mitigated Anomalies Software v1.2.1

- Solved the following issues:
 - Loss of program link when "Multiple files project" is selected
 - Loss of the translation of the enumeratives defined within Display which have additional languages with respect to the BaseLanguage
 - Target EVE6000/EVE10200 do not exit from preoperational status
 - Stop download with DMI1003002000 vs Target SM●●●●
- Anomalies on FreeStudioPlus by code
 - Bug in debug mode: A breakpoint in Debug mode on FB TON gives a WDT reset of controller
 - Buttons in raised state are wrongly drawn, exceeding HMI area
 - Init String on FREE Advance
 - ST editor: multilines IEC comments that contains a) is not marked as comment
 - FC Improvement security vulnerabilities in HTML5 online help
 - Help for application object launch an exception

- Column value of parameter not valorized for SM●●●●
- Error loading LON Custom profile
- Missing typedef variables after importing from library (typedef not imported)
- Batch download without /REBUILDPLC does not work anymore
- When dragging a new block, it cannot be placed at the right place because the code scrolls too fast
- Auto creation EDS file

New Features Hardware/Firmware v1.1

NEW FEATURES IN AVD●●●●/ AVC●●●● (FIRMWARE MSK 596.09 AND MSK 668.09)

- Introduced target functions sysHTTP_AuthentOnOff() and sysFTP_AuthentOnOff() to disable/enable authentication (enabled by default)
- Introduced two new SNVTs for LONWOKS protocol:
 - SNVT_setting
 - SNVT_state
- Introduced target function sysLcd_RotateAt180(mode) to rotate display visualization. Keys work accordingly to mode value: TRUE=rotation at 180°, FALSE=default visualization

Mitigated Anomalies Hardware/Firmware v1.1

AVD●●●●/ AVC●●●● (FIRMWARE MSK 596.09 AND MSK 668.09)

Solved the following issues:

- microSD mount at startup that lock the controller. Fixed max timeout of 30 seconds to mount a volume
- AVD126●/AVD84● models continuously reset at power-on if powered only via USB-device.
- Not able to manage multiple object subscribes Bacnet MSTP

AVP1●●● (FIRMWARE MSK 659.06)

- Solved the following issues:
 - Not possible to enter edit mode with enums
 - Bad navigation between different enumeratives
 - Editing of INT with format XXX.Y doesn't work if you try to enter values between 0.1 and 0.9
 - Not possible to send broadcast messages
 - String writing by commissioning using USB port is not correct.

New Features Software v1.3.0

- New command line switched included in batch download (e.g retries)
- Possibility to open multiple resources-tree at the same time
- Menu folder shown in Global shared, EEPROM and Status Variables
- Added possibility to create multiple EEPROM and Status variables, similarly to local variables
- Added possibility to comment out Ladder/FBD networks to remove them from the compilation process.
- Libraries now available with direct link to target (msk 668.11 and msk 569.11 only)
- New features in AFB Application library (1.3.2):
 - New AFBs EEVDCntrl (1.0.3), EEVSHCntrl (1.0.3), SuperHeatCalc (1.0.1),

EEVDAlarmMgmt (1.0.1), CheckCOMAlarm (1.0.1) for EEV application control

- New AFB EEVDSettingsU (1.1.2) for unipolar EEVD management
 - New AFB EEVDSettingsB (1.1.2) for bipolar EEVD management
- Added new refrigerants from 13 to 26 and custom refrigerant (255) in Press2Temp (1.1.2) and Temp2Press (1.1.2) AFBs

Mitigated Anomalies Software v1.3.0

- Solved the following issues:
 - Integrated new Registration Software mechanism to fix artf214353 vulnerability
 - Integrated new Registration Software mechanism to fix a cybersecurity issue that could allow attackers to redirect Eliwell Software Update to a malicious Update server.
 - Added find and replace feature for Configuration tab
 - Added Driver Televis generation also for FREE Smart
 - Corrected object property description for FB OverwriteLocaldisplay
 - Bug fix in the closure of FTPGateway
 - XVD : fixed description issue for dE25 and integration of SP and MOP values made available through modbus
 - Bug fix in installation folder
 - Bug fix in firmware upgrade via COM on FREE Advance
 - Speed up FREE Advance boot in case of not connected CAN expansion
 - Bug fix in defining string variable of length 1
 - Bug fix in moving program between tasks
 - Bug fix in window appearance, help on line
 - Added dE97 in the catalogue of XVD 3.0
 - Addede pre-compilation directive to exclude part of source code from the compilation process
 - Big fix on BIOS Eumerator removal
 - Added Port_FTP_PI in PARAM.BIN file
 - Bug fix on compilation error generation if, with custom modbus editor the number of registers exceed the allowed ones
 - Solved the following issues in AFB Application library (1.3.2):
 - Changed low limit of iFixeVal from 0 to -500 in FloatingWaterTempSet (1.1.0)
 - Default values changed for uiLowNoiseMaxFreq, uiFanFreqMin, uiFanFreqMax, uiHysteresis in FanMgmt (1.0.1)
 - Correction of bug: hysteresis implemented for uiArrFreqLimits in CompCntrl_VS (1.1.1)
 - New inputs for custom refrigerant in Press2Temp for FloatingHighPresCntrl (1.1.0) and EvapPresCntrl (1.1.0)

New Features Software v1.1

Localization on dialog forms is now possible

Mitigated Anomalies Software v1.1

- Solved the following issues:
 - Function Block QRCodeDisplay launch compiler critical error if used with AVP1●●.
 - Value for RS-485 set in configuration aren't written like default
 - Issue with "Modified" state after a "Refresh current target" command
 - "Build all" disabled while the HMI project is loading

- File PARAM.BIN is wrong, string termination is missing
- Switching perspective issue
- Add the possibility to download single PLC, HMI and HMI Remote from FREE STUDIO PLUS Installer as with SoMachine
- EWC.exe: error in the compilation of the project with Chinese characters in the name
- File list (.ini) encoding issue
- Modbus Custom editor: all protocol are not added if driver is modified.
- In Modbus custom editor is not possible to insert modbus register of different type (input, Holding...) with same modbus address
- Code generation error: SFC control variables not found.
- Import of FREE Evolution/Panel Blind Project with HMI Remote doesn't function.
- Black tabs in Auto Hide Mode. It's difficult read the name of the window
- A program error for a particular configuration of the group policy
- In simulation mode a breakpoint is reached after the CASE OF and after the ELSE.
- Error in print on Ladder project
- Breakpoints used inside inner loop

Known Operational Anomalies v1.1

Minor vulnerability fixed on dll hijacking (internal reference artf270287)