PROJECT UTA

Changes history

## Release 1.11 16-05-2019

CHANGES:

* Added Tgo Driver
* Improved Description of CondensingUnitTypeEnum
* Added coherence check of the weekday
* Condensing Units:
  + Improved the change mode timing in case a change mode is required during an active change procedure.
* Webserver:
  + Added PLC Time to the bottom page
  + Added Alarm Reset Request to Alarm Page (page4.htm and page4.cgx)
  + Added Time synchronization to Weekly Scheduler Page (page9.htm and page9.cgx)
  + Modified the datepicker object of Trend page considering also the PLC date
  + Web Graphic layout update
* Parameters:
  + Modified Maximum Value of Fan\_MinimumSpeed (16840) from 50.0% to 70.0%
  + Modified Maximum Value of PreHeaterSetpoint (17000) from 20.0°C to 40.0°C

BUG FIXES:

* Condensing Units:
  + Fixed bug in the configuration with 1 CU multisteps, in the previous version step 2 was not working
  + Added an internal check related to parameters CondUnitS1\_Req… CondUnitS4\_Req. The logic values used in the internal regulation will be adjusted in order to satisfy the following rule: 0% < CondUnitS1\_Req <= CondUnitS2\_Req <= CondUnitS3\_Req <= CondUnitS4\_Req
  + Fixed power shown in case of single condensing unit on variable Status\_OutHeat (10011) considering the voltage offset defined by CondUnit\_Offset (16987)

## Release 1.10 28-03-2019

CHANGES:

* When External Dampers are configured as On/Off it is possible to allocate also the related modulating output, Damper will open at maximum value when the Dampers are open
* Changed default of RS485-1 and RS485 Plugin to 19.2, E,8,1
* Condensing Units:
  + If minimum off time is greater than 0sec, change mode is performed after the switching off of the Condensing units waiting 75% of the off time.
  + Mode Output is updated only after the condensing units have been switched off
  + Added an off time at boot equal to the maximum between CondUnit\_Toff and 30sec (previously was fixed 30s)
  + Condensing units are kept on after the defrost until fan restarts (this is the case when the parameter requires to stop fans during defrost)
    - Added to parameter MultiCondUnit\_CtrlMode configurations: 2=Parallel Dipendent - cumulative on/off, same request, any alarm stop all the units
* Removed low limit for parameter Alm\_MinPrSens 16785

BUG FIXES:

* Fan: added checks in order to have the fan speed vs Fan\_ReturnSpeedCorrection (16843) always between Fan\_MinimumSpeed (16840) and 100%
* Test Mode:
  + Fixed testing mode of all PWM Heaters
* Page S7-Modbus Scan fixed possibility to select slaves with address higher than 10
* Condensing Units:
  + In case of Multiple Condensing units, a unit Blocking alarm and Condensing Units Maintenance Pararmeters (19831…19834) were not stopping the condensing units
* Polarity: corrected the names of parameters for recovery and humidifier polarity output

BIOS Version:

* 596.8

SW Version:

* Free Studio 3.9.1

## Release 1.09 11-01-2019

CHANGES:

* Bacnet:
  + Added dynamic Object Name of the Device Object using format: ‘AHU\_<subnet>\_<id>’
  + Added BV Objects BVBlockingAlarm, BVFireAlarm, BVAlarmsResetReq
  + Added AI Supply Flow Tuning and Return Flow Tuning
  + Added AI Damper Position
  + Added AI Fan Supply Speed and Fan Return Speed
  + Added AI Cooling Actuator, Heating Actuator, PreHeating Actuator, PostHeating Actuator
  + Added AI Heat Cool Recovery Request
  + Added AI Humidifier Actuator
  + AI9, 10, 14,15 have a dynamic unit measure: Pa (Bacnet Unit 53) or m3/h (Bacnet Unit 135)
  + When a priority is active for Season/setpoint mode, the related setting can be changed from display using service/oem password level.
* Updated Website with mobile view and faster loading of the index page
* Updated pag1.htm e cgx, added 16746 DIFF\_T\_AutoEco.
* 16911 SupplyDeltaDwHeating, 16912 SupplyDeltaUpCooling minimum value changed from 5 to 0
* 16746 Diff\_T\_AutoEco minimum value changed from 5 to 0
* Increased maximum allowed setting from 20.0°C to 99.9°C of the following parameters:
  + 16914 Pb\_Cooling, 16915 Pb\_Heating
  + 16918 Pb\_ReturnCooling, 16919 Pb\_ReturnHeating
  + 16932 Temp\_HighSupplyBand, 16935 Temp\_LowSupplyBand
  + 17001 Pb\_PreHeating, 17042 Pb\_Post
  + 17023 Pb\_Dewpoint

BUG FIXES:

* Test Mode:
  + Modulating Heating Valves (Main Pre and Post) can be tested even with fan off
* AO Allocation: Corrected strings related to Pre Heater into Preheating and Post Heater into Postheating
* DI Allocation: Corrected Device string related to the allocation of the Filter 5 from “16=Filter 5” to “30=Filter 5”
* Air Quality with Modulating Dampers and Fans: Dampers reach maximum open when regulator asks for 100% instead of 50% specified in the manual
* Fixed bug with configuration having a fixed mode heating or cooling: setpoint setting in the main page was showing the mode defined by parameter 19501 Unit\_KbdMode\_E2
* Corrected the object name of AV BAI1
* Page S14:: fixed visualization of Minimum and Maximum Return Pressure 16883 Fan\_Return\_SetMinPr 16887 Fan\_Return\_SetMaxPr, Supply limit were shown instead of the Return one.
* Fixed enable of the 5th filter pressostat from HMI
* Fixed reset of Ziehl fan alarms

BIOS Version:

* 596.8

SW Version:

* Free Studio 3.9.1

NOTE:

* Upgrading from any previous version requires the following steps (keeping electrical panel but plc off):
  + saving current factory
  + upgrade via USB
  + reboot controller
  + restore factory settings

## Release 1.08 19-09-2018

CHANGES:

* Bacnet:
  + Added BACnet\_Addons library in order to have the project BTL compliant
  + Added EEprom parameter 16708 BACNET\_SUBNET available on page P5-Bacnet
  + Added MSI0 Unit Mode and MSI1 Unit Status
  + BV0 On/Off Unit is forced OOS in case the AHU is off from Digital input
* Languages:
  + Local and Remote Display languages are aligned:
    - Remote display is aligned to the base at boot and every 5min of inactivity on the main page
    - Base is aligned to remote display at every change on the remote display
  + Added French Language

BUG FIXES:

* Fan Damper:
  + Fixed fan damper output flickering during startup phase
  + Fixed fan damper output closing delay vs fan
* EBM Fans:
  + Fixed visualization on the fan info page
* ATV Fans:
  + Fixed read of Freq min and max after plc reboot
* Bacnet:
  + Bacnet icon shown in main page also in case On/Off override

BIOS Version:

* 596.706

SW Version:

* Free Studio 3.9.1

## Release 1.07 13-07-2018

CHANGES:

* Test Mode:
  + Automatically disabled in case of Unit blocking alarms
  + Fans and damper timing regulators linked to the test mode status
* Fan Pressure regulation:
  + Decreased the startup ramp speed from 15%/sec to 8%sec
  + bypassed the pressure alarms (broken sensor and flow) of 16786 Alm\_ActiveProbeBypass seconds in case of pressure overrange values.
* Condensing Unit:
  + Renamed 16988 CondUnit\_EnLowSpeedDefrost into CondUnit\_FanSpeedDefrost with the additional value 2=Fan Off
* AF alarm enabled even when the unit is in off status in summer season
* Added Summer/Winter/Auto Status also in the Off Main Page

BUG FIXES:

* Test Mode:
  + fixed issue causing the fan switch off when test mode is enabled with modulating dampers
* Updated page A-Unit, a wrong power request was displayed in case of Single Condensing Unit driven by AO Condensing Unit output
* Fixed visualization of recovery status on page A-Unit when unit regulation is off
* Postventilation applied also in cooling mode with heaters and condensing units
* Condensing Unit: fixed AO output when more than one step is selected
* Fixed bug PWM post heaters not working during dehumidification

BIOS Version:

* 596.306

SW Version:

* Free Studio 3.9.1

## Release 1.06 04-06-2018

CHANGES:

* + Condensing Unit: Added management of up to 4 Condensing Units
  + Each one is managed through the following I/O:
    - 1 DI for Alarm
    - 1 DI for Defrost Status
    - 1 DO for On/Off
    - 1 AO for power demand
  + Modified parameter 16408 cfgCoolHeat\_NumSteps in order to add the additional configurations of the external condensing units
  + Added EEprom parameters:
    - 16988 CondUnit\_EnLowSpeedDefrost -Condensing Unit: Force Low Fan Speed During Defrost
    - 16989 MultiCondUnit\_CtrlMode - Multi Condensing Unit: FALSE=Delay TRUE=Hysteresis
    - 16990 MultiCondUnit\_RegHyst - Multi Condensing Unit regulator hysteresis
    - 16991 MultiCondUnit\_DelayOn - Multi Cond Unit Delay On
    - 16992 MultiCondUnit\_DelayOff - Multi Cond Unit Delay Off
    - 19823 udhoursCU1E2 - Condensing Unit 1 Running Hours
    - 19825 udhoursCU2E2 - Condensing Unit 2 Running Hours
    - 19827 udhoursCU3E2 - Condensing Unit 3 Running Hours
    - 19829 udhoursCU4E2 - Condensing Unit 4 Running Hours
    - 19831 CU1\_Maintenance - Condensing Unit 1 Forced Off for maintenance
    - 19832 CU2\_Maintenance - Condensing Unit 2 Forced Off for maintenance
    - 19833 CU3\_Maintenance - Condensing Unit 3 Forced Off for maintenance
    - 19834 CU4\_Maintenance - Condensing Unit 4 Forced Off for maintenance
  + Added Status:
    - 11600 CondUnit1\_DD – 11601 CondUnit1\_HH - Condensing Unit 1 Working Days and Hours
    - 11602 CondUnit2\_DD – 11603 CondUnit2\_HH - Condensing Unit 2 Working Days and Hours
    - 11604 CondUnit3\_DD – 11605 CondUnit3\_HH - Condensing Unit 3 Working Days and Hours
    - 11606 CondUnit4\_DD – 11607 CondUnit4\_HH - Condensing Unit 4 Working Days and Hours
  + Updated pages E2-Working Hours, S24-Condensing Units
  + Heat Recovery: Renamed option None into None/Not Regulated
  + Defrost Heat Recovery: it can be enabled also when Heat Recovery is not managed
  + Added the management of the 5th Filter Alarm Input:
    - 9578 AL58\_Filter5
    - 16610 DI\_Polarity\_LogicIndex\_30
    - 9775 DI\_Voltage\_LogicIndex\_30
  + Working Days & Hours of actuators not enabled, e.g backup fans, are forced to 0
  + Increased maximum value of 16841 Fan\_LowSpeed to 80.0%
  + Test Mode forced off in case of Unit blocking alarms

BUG FIXES:

* Minor fix to logger management in case max alarm events has been reached
* Test Output Mode: fixed issue causing the fan switch off when test mode is enabled with modulating dampers
* Updated page A-Unit, a wrong power request was displayed in case of Single Condensing Unit driven by AO Condensing Unit output
* Postventilation applied also in cooling mode with heaters and condensing units

BIOS Version:

* 596.306

SW Version:

* Free Studio 3.9.1

## Release 1.05 13-07-2018

CHANGES:

* Condensing Unit: The analog output changes from 16987 CondUnit\_Offset to 100% only when the request caused the switch on of the first step of the condensing unit (even if it is not allocated), otherwise the analog output is 0%
* When the Condensing Unit is enabled with an analog output the power shown on page A is the one related to the AO
* Analog output for Condensing Unit is automatically allocated when one step is selected
* Postventilation 16846 Fan\_Post\_Time is applied also when the unit is switched off with Condensing Unit active
* Heat Cool Recovery: if the return probe is enabled it is used together with current setpoint to evaluate the recovery conditions in case of supply control (previous versions use just the current setpoint instead of return probe)
* Data Logger: Optimization of the file size, when an alarm is not active, instead of “,0,” it is saved an empty field “,,”
* Fast Heat/Cool: during this phase the heating cooling actuators are forced at 100% and the supply limits are enabled regardless the related enable parameter. At the end of the Fast Heat/Cool the temperature PI regulator is reset.
* Updated default IP to: 192.168.0.114
* Updated the description of the Heating and Cooling Valve output to Modulating Heating and Cooling
* Project updated to target 596.6 and Free Studio 3.9.1
* Webserver: Renamed valves AO output into Modulating Heat and Modulating Cool
* AF alarm enabled even when the unit is in off status in summer season
* Fan Pressure regulation:
  + Decreased the startup ramp speed from 15%/sec to 8%sec
  + bypassed the pressure alarms (broken sensor and flow) of 16786 Alm\_ActiveProbeBypass seconds in case of pressure overrange values.
* Added Summer/Winter/Auto Status also in the Off Main Page

BUG FIXES:

* Fixed visualization of page S32
* Fixed visualization of recovery status on page A-Unit when unit regulation is off
* Minor fix in the evaluation of heating/cooling resource availability
* Minor fix in the evaluation of ATV212 Fan Supply alarm
* Fixed dynamic visibility of AI in the I/O webserver page page3.htm
* Fixed Heating request when the regulation can use just the heat recovery, i.e Summer mode with set oversatisfied
* Fixed bug in the management of the AO for condensing unit when more than one step is enabled
* Fixed bug PWM post heaters not working during dehumidification
* Fixed bug Post Ventilation not active with postheating during dehumidification

## Release 1.04 08-03-2018

CHANGES:

* Updated to target 596.5 and Free Studio 3.8
* HMI shows EV – instead of EV00 when none of the events is active

BUG FIXES:

* Fixed historical webserver page page4.htm
* Standby mode forced off when both year and week events are disabled
* Fixed the automatic allocation in case of 3 steps of Pre/Post Electric Heating and Electric Heating (previous version was allocating 3 relays instead of 2)

## Release 1.03 19-02-2018

CHANGES:

* Forced a Preheater PI reset at the exit of the Fast Heat procedure
* Access to 2nd level password accepted only with unit off
* Added Web User and Password saving to Factory settings
* Improved the Historical Alarm webpage layout
* Register 16842 Fan\_NominalSpeed is lower limited by 16841 Fan\_LowSpeed instead of 16840 Fan\_MinimumSpeed
* Added register 9299 Unit\_ApplicationCode = 1 for AHU
* Removed EVOHTVDA.JS from the webserver files

BUG FIXES:

* Fixed the visualization of the icon related to the current active profile
* Fixed setpoint used in Night mode, changed from Comfort to Economy
* Fixed the exit without saving from RTC clock update page (when entering again in the same page the clock shown was not the correct one)
* Fixed alignment of few parameter values on page S11
* Set registers 9320 Pr\_Flow\_Supply and : 9322 Pr\_Flow\_Return equal to SENSOR\_NOT\_ALLOCATED (-32766) when not used;
* Updated webserver evo\*.js due to issue found with Chrome 64.0.3282.119
* Updated index.htm and index.cgx in order to fix visualization of pressure probes and name of expulsion and preheat temperature

## Release 1.02 11-12-2017

CHANGES:

* Improved the Trend webpage layout
* Updated Minimum value allowed for parameter 16772 FreeCHMinExtTemp to -20.0°C
* After a reboot with unit in Auto mode, the current Heating/Cooling mode is restored
* Supply Limit regulator applied also to Free Cooling/Heating Regulator
* Added C:\INVSDATA\Free\CustomerKit\Images\Limit10x8.bmp icon in the A-Unit pages in order show the status of Supply limit function and Preheat limit function

BUG FIXES:

* Fixed HMI enumerative related to parameters 16391 fgCooling and 16393 PLC.cfgCooling\_Heating, previous version shows on modulating valve instead of condensing unit and viceversa
* Disabled airflow alarms AL26…AL29 during unit switch off procedure
* Improved Bacnet object initialization

## Release 1.01 31-10-2017

CHANGES:

* Increased to 50.0°C the maximum value of parameters 16941 FastHeatSet and 16942 FastCoolSet
* Added Parameters 16944 FastHeatExitSet 16945 FastCoolExitSet which define the end set of FastHeating/Cooling with respect to return temperature in case of supply regulation (page E5)
* Added Parameters 17016 RecoveryReqDuringFastHC which defines the Recovery request during the Fast Heating/Cooling (page S34)
* Preheater output at 100% during Fast Heating if cfgMixChamberBeforePreHeat is TRUE (previously the preheater regulator was simply enabled)
* With respect to Temperature regulator % request, the main Cooling/Heating actuator:
  + starts at minimum between 17012 RecoveryPower and 80% if recovery is enabled and Supply or Cascade regulation otherwise at 0%
  + has at least 20% of the power
* When the controller is regulating only with recovery the PID request and the % of the bar displayed in the Unit Status page is limited to Recovery power request
* Reset of alarms related to ATV in case of communication alarm with ATV
* Improved management of Reset command on ATV
* Added to Device Project the default settings for RS485-2
* Increased Modbus Master retry from 4 to 6 before raising a Modbus com alarm
* Antifreeze alarm enabled also in cooling in winter mode
* Fan start is linked to PrimaryPlantMode (season mode by display / DI) not by cooling/heating request respect to setpoint
* Preheater regulator enable is linked to PrimaryPlantMode (season mode by display / DI) not by cooling/heating request respect to setpoint
* Added web pages for Weekly Scheduler and Event Scheduler
* Updated User Manual ITA and EN

BUG FIXES:

* Fixed visualization of the minor version of the unit
* Fixed unit measures of page S32
* Fixed unit measure of 17023 Pb\_Dewpoint in the Device project
* Fixed visualization of Dehumidification icon on the main page
* If Auto mode is not selected, Mode Output is aligned to the current mode selected by parameter/display.

In the previous version, since the logic support cooling with recovery during winter mode, heating with recovery during summer, the output was linked to the actual mode.

* Fixed exit FreeCooling/heating by timeout
* Fixed Fast Heating/Cooling exit condition in case of mode change
* Enabled visualization of page E5 also when Recovery is enabled
* Fixed I/O Polarity description in the Device project, it was reversed
* Fixed automatic allocation in case of AVD8400+Expansions
* Modified enumeratives shown on page S31 for Unit\_RegTempType
* Fixed visibility with service password of Reset Button on page S12
* Moved Acked\_Transations[] bacnet field from EEprom to RAM

Known Issues:

* Reset Alarm on ATV212 does not work always, ATV212 might be required

Other:

* Ziehl parallel fans not tested

## Release 1.00 30-08-2017

CHANGES:

* Fan prestart phase ends also in case Nominal speed is reached

BUG FIXES:

* Fixed configuration issue with Cool/Heat modulating valve
* AL60 Logging error changes from active to resettable if the logger is disabled
* Fixed enable condition of PID cooling/heating in case recovery is enabled as free cooling/heating and other actuators are not available

## Release 0.99 24-07-2017

CHANGES:

* Modbus Fan Configuration:
  + Modbus Fan Configuration is sent only when configuration is changed or from Display/Modbus
  + Added to pages S15 S16 the command which force the Modbus configuration
  + Added parameter Fan\_Modbus\_Configured\_E2 (19814) which stored the configuration status (1=Configured)
* Parallel Modbus Ziehl Fan Management
  + Added management of up to 3 parallel fans per section through parameter CfgParallelFans (16413)
    - Ziehl Supply 1b Address 10
    - Ziehl Return 1b Address 11
    - Ziehl Supply 2b Address 12
    - Ziehl Return 2b Address 13
    - Ziehl Supply 1c Address 14
    - Ziehl Return 1c Address 15
    - Ziehl Supply 2c Address 16
    - Ziehl Return 2c Address 17
  + Added alarms A99…A106 for the management of the communication alarms of the additional Ziehl fans
  + Added Ziehl status info to pages S15 S16
  + Added Ziehl alarm info to pages S17 S18
  + Added Maintenance Parameters to page S11: Fan\_Maintenance\_Supply1b (19814)… Fan\_Maintenance\_Return2c (19821)
  + The alarm on a Modbus fan cause the stop of the unit which can restarted by enabling the Maintenance mode on the fan in alarm status.
  + Added new alarms to Web Alarm Page
* Maintenance mode can be enabled only when the regulation is off
* Added to the Ziehl Modbus fan configuration the register which force the fan stop in case of communication missing for more than 10sec

BUG FIXES:

* Webserver-
  + Index.htm:
    - Fixed decimal point visualization of VOC, CO2, Supply Fan, Return Fan, Ext. Dampers and Bypass Dampers output
    - Fixed visibility of return fans flow/pressure presence
  + Page1.htm fixed visualization of setpoint VOC and CO2 (reversed values in previous version)
* With Supply and Cascade regulation: disabled Cooling actuators when Heating mode is selected and set is satisfied more than the value of DIFF\_T\_AutoChangeMode (16745) parameter (and viceversa in case Cooling mode). When set is satisfied and Auto mode is not selected only recovery is enabled

## Release 0.98 03-07-2017

CHANGES:

* SP\_T\_Cool\_E2 (16749) is now lower limited by SP\_T\_MIN (16742) instead of SP\_T\_HEAT\_E2
* SP\_T\_Heat\_E2 (16750) is now upper limited by SP\_T\_MAX (16743) instead of SP\_T\_COOL\_E2
* Added 9MA00278.00\_Manuale\_Costruttore\_IT\_0517 and 9MA10278.00\_Manuale\_Costruttore\_EN\_0517
* Increased from 60s to 90s the bypass of alarm AL53 Fan configuration
* AL60 Logging error becomes an alarm with manual restore

BUG FIXES:

* Updated U.M. of status: Unit\_Status, Unit\_Mode\_Status, Unit\_EcoCmfNight\_Status, Unit\_Alarm
* Fixed Scaling and U.M. of Status\_PlantMode
* Updated index.htm and index.cgx in order to properly show the value of Pressure Probes when they are configured as flow
* Page E4-Webserver: user and password can now be edited with Level 1 password
* Fixed bug related to alarm AL57 Communication of Backup Return Fan in case of Ziehl fan
* Fixed Modbus configuration of Ziehl Fans
* Fixed Page A-Unit Fans in case of Modbus Fan: info related to Return Fan was not accessible

KNOWN ISSUES:

* Menu S31 and related manual table are not aligned

## Release 0.97 19-05-2017

CHANGES:

* Updated to target 596.4 (Free Studio 3.7)
* Updated pid library PIDregulators\_v1\_12
* Updated Logged variables adding output status
* Modified default and ranges of parameters FastCoolSet FastHeatSet

BUG FIXES:

* Test Output: Fixed the damper management vs Fans vs Heaters

## Release 0.96 13-04-2017

CHANGES:

* Added registers 19497-8 for Unit Serial Number (Level 2 Protection). Value shown in the splash page

BUG FIXES:

* Enable Refresh of EV string in the main page of the HMI
* Fixed display of CO2 value in the main view
* Fixed display of Pb of CO2 and VOC regulator on page S33

## Release 0.95 16-03-2017

AUTHOR: F.Marcassa

NOTES:

* It requires at least bios Msk596\_4

CHANGES:

* Save FactoryStatus shows error when the request is not performed with level 2 password
* Changed Italian label related to Factory saving button
* Added English Manual

BUG FIXES:

* Save Factory default from:Display: fixed bug: in case multiple pressure of Save Command
* Fixed Test output of conditioned output like fans and heaters
* Fixed Esc button of page S7-Modbus Scan
* Fixed restore factory settings in case of correlated parameter (e.g. enable flow alarm vs pressure probe allocation)

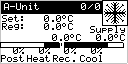
## Release 0.94 21-02-2017

AUTHOR: F.Marcassa

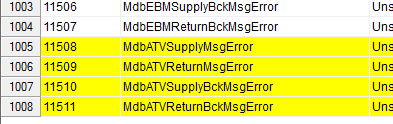
NOTES:

* It requires at least bios Msk596\_903\_161205

CHANGES:

* Added Dynamic Modbus Master
* Modified page: from:  to:C:\INVSDATA\Free\Applicazioni\Eliwell\UTA\HMI\docImages\StandBy_Off.bmp
* Updated page UnitStatus1: 
* If a condensing unit is configured with 1 step and analog output is allocated the output shown in the Unit page is the one related to the analog output
* DI,DO,AO can be allocated even if not required
* Timeout for password level 2 increased from 5min to 60min
* Added Registers 9491-9492 Seconds and status of the historical alarm selected
* New release of Webserver
* Ramp Start of fan with Pressure Regulation

BUG FIXES:

* Fixed Modbus address of registers:
* 
* Fix visibility Probe IDX\_AI\_FLOWTUNING2 not allocated
* Logger:
  + Fixed data2log value (from 14 to 19)
  + Aligned to rev. 09c
* Updated description of SV AI\_Exp1\_1…AI\_Exp2\_4
* Updated Modbus addresses of SV AI\_Exp1\_1…AI\_Exp2\_4 from 9600…9607 to 9670…9677
* De: Updated enumerative of DI polarity
* UI: Fix Ethernet page (P3 missing)
* Init variable SaveFactoryStatus to 2 (“Save factory Not done”)
* Fixed default value of LogDataE2\_30…LogDataE2\_49 from -1 to 0
* Fixed order database value for the following variables:
  + ioSV\_base\_AI\_03 ßàioSV\_base\_AI\_02
  + ioSV\_exp2\_AI\_01 ßàioSV\_exp2\_AI\_02
  + ioSV\_exp2\_DI\_01ßàioSV\_exp2\_DI\_02
* Fixed bug return fans stop when defrost force stop of supply fan
* Fixed bug postheating dehumidification not working with post integration disabled
* Fixed functions dp2flow and flow2dp for input value equal to -32765…-32767
* Updated max value of registers Log period and Log min period from 1440 to 1439
* Fixed Temperature regulator in case Supply temperature is not allocated and Return control
* Added safe check on the minimum number of steps defined for condensing unit and electric heater steps.
* Modified unit measure of CO2 and VOC from % to ppm and viceversa:
  + Reserved meaning of addresses 16759-16760; 16783-16784; 16820-16822; 16821-16823: 9312-9313
  + Changed unit measure of 9727-9728
  + Updated pages UnitStatus4 SetVOCCO2 MainOn MainOff
  + Updated related bacnet AI and setpoints
* Fixed Unit Status page change with up and down buttons
* Fixed title of pages T1-T4 AI DI DO AO allocation
* Changed display limit range of Humidity setpoint in the Unit page
* Humidity regulator enabled only in winter mode instead than cooling request equal to 0
* Fixed configuration of Ziehl Fans
* Updated PID library to version 11
* Pressure Regulation enabled since Power Up time 2
* If the pressure probe broken alarms comes when the pressure was over the setpoint the last valid value is used in regulation before raise the alarm

KNOWN ISSUES: