



# WAGO-I/O-SYSTEM 750

## Libraries for Building Automation

### Release Note and library version

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Every conceivable measure has been taken to ensure the correctness and completeness of this documentation. However, as errors can never be fully excluded, we would appreciate any information or ideas at any time.

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## List of Contents:

1	Release Note.....	4
2	Library version .....	30
3	Building libraries compatibility list .....	32

# 1 Release Note

## **07.07.2017 WeatherForecast HKW 01.lib (V1.1)**

- Bugfix FbHKW\_WeatherStationCompact
- New function block FbHKW\_SearchCity added

## **06.07.2017 KNX 02.lib (V2.7)**

- New function block FbKNX\_Master\_646\_TM for the transparent mode added

## **06.07.2017 BACnet 02.lib (V2.5)**

- Bugfix FbBACnetNative\_AO  
xNull/bPriority were not sent by change of value

## **06.07.2017 MBUS 649 01.lib (V1.5)**

- New library MBUS\_649\_01.lib for the M-Bus Master Module 753-649 added

## **06.07.2017 MBus 03.lib (V2.4)**

- Moved to *zz\_Previous\_Version.zip*

## **04.07.2017 Enocean 06.lib (V6.8)**

- New function block FbA51409\_Window\_DoorSensor added

## **28.06.2017 Enocean 06.lib (V6.7)**

- Bugfix FbA510xx\_RoomOperatingPanel  
Relative humidity was displayed as negative number

## **26.06.2017 BACnet 02.lib (V2.4)**

- New function block FbBACnetSchedule added
- New function block FbBACnetSchedule\_small added
- New function block FbBACnetTimeBeforeOperation added
- New BACnet\_02.EXP.  
Visualisation for BACnetScheduler added

## **19.06.2017 DALI 647 04.lib(V4.6)**

- New feature for FbDaliPresenceSensor and FbDaliLightSensor. When the Watchdog time elapsed, the function block sends a query command to the sensor.
- New DALI\_647\_04.EXP. Visualisation for Device Type 1 (Emergency Lighting) added
- Bugfix Fb\_ConfigEmergencyLighting. The Emergency Status wasn't deleted, when the short address isn't available.
- New feature for FbDaliPresenceSensor. When "tOffDelay" = t#0s", the function block reacts on a stop event from the sensor.
- New function block FbDaliWrite\_XY\_CoordinateScene

#### **19.06.2017 DALI 647 SpecialSensor 02.lib(V2.3)**

- New feature for FbSensorSteinel and FbSensorThebenHTS. When the Watchdog time elapsed, the function block sends a query command to the sensor.
- Bugfix PrgDaliConfigThebenHTS. In some cases the "Acknowledge" dialog doesn't appear.
- New DALI\_647\_SPECIALSENSOR\_02.EXP. Scaling for the configuration of the Steinel Sensors added.

#### **08.06.2017 Genibus 01.lib (V1.3)**

- This version eliminates problems at using several Genibus lines which might occurred with the previous version.

#### **06.06.2017 EnOcean 06.lib (V6.6)**

- New function block FbThermokonSTC65\_RS485\_EVC\_Config added.
- Bugfix FbD211xx\_RoomOperatingPanel.

#### **29.05.2017 MpBus 03.lib (V3.2)**

- New function block FbMpBusEPIV\_6way\_valve added.
- New function Fu\_NTC10K added.
- Bugfix FbMpBusCommand.

#### **10.05.2017 DALI 647 SpecialSensor 02.lib(V2.2)**

- Bugfix FbSensorThebenHTS and FbSensorSteinel, when tWatchdog = t#0s.

**10.05.2017 DALI 647 04.lib(V4.5)**

- Bugfix FbDaliLightSensor and FbDaliPresenceSensor, when tWatchdog = t#0s.

**09.05.2017 BUILDING HVAC 03.lib (V3.10)**

- New function block FbRedundancyUnits added

**04.05.2017 DALI 02.lib(V2.14) & DALI 02.EXP**

- Moved to *zz\_Previous\_Version.zip*

**04.05.2017 DALI EmergencyLightning 01.lib(V1.2)**

- Moved to *zz\_Previous\_Version.zip*

**24.04.2017 DALI 647 04.lib(V4.4)**

- Bugfix FbMaster753\_647

**13.04.2017 DALI 647 04.lib(V4.3)**

- FbDaliMaster indicates when the DALI-Multi-Master Module isn't available.
- FbDaliIdentifySensor modified, so that during the identification the short addresses could be changed.
- Bugfix FbDaliConfigLightSensor and FbDaliConfigPresenceSensor

**12.04.2017 DMX 02.lib(V2.0)**

- New library DMX\_02.lib substitutes the library DMX\_01.lib
- DMX Master or Slave feature is supported

**23.03.2017 DALI 647 SpecialSensor 02.lib(V2.1)**

- Bugfix: FbConfigSteinel
- Bugfix: FbConfigThebenHTS
- Bugfix: Query Light level FbSensorSteinel
- Bugfix: Visualisation DALI\_647\_SpecialSensor\_02.exp

**23.03.2017 DALI 647 04.lib(V4.2)**

- Improvement FbConstantLightControl, when the new reference value will be calculated.
- Bugfix: Visualisation DALI\_647\_04.exp

#### **20.03.2017 Genibus 01.lib (V1.2)**

- New function block Fb\_Magna3\_Pump added
- New function block Fb\_Magna3\_HeatEnergy added
- New function block FbGeni\_Get\_MeasuredData\_32Bit added

#### **20.02.2017 DALI 647 04.lib (V4.1)**

- Master with inputs and outputs for linking the process image directly reintegrated.

#### **20.02.2017 MpBus 03.lib (V3.1)**

- New library substitutes MpBus\_02.lib.

#### **07.02.2017 EnOcean 06.lib (V6.4)**

- Bugfix: 750-642-module handles the 4-byte-telegrams now correct.

#### **30.01.2017 ColourConverter 01.lib (V1.2)**

- New function block FbCCT\_control added
- Bugfix function block FbColorFader and FbColorCrossFader

#### **19.01.2017 DALI 647 SpecialSensor 02.lib (V2.0)**

- New library substitutes DALI\_647\_SpecialSensor\_01.lib and works only with the DALI\_647\_04.lib.

#### **19.01.2017 DALI 647 04.lib (V4.0)**

- New library substitutes DALI\_647\_03.lib.

#### **22.11.2016 Building HVAC 03.lib (V3.9)**

- Add new function block FbHxControl

#### **19.12.2016 DALI 647 03.lib (V3.1)**

- Bugfix in function block “FbMultiSensorType1”: Output values were not available.

#### **28.11.2016 DALI 647 SpecialSensor 01.lib (V1.0)**

- New library for connecting “Steinel LiveLink” sensors and “Theben HTS PlanoSpot 360 DALI” via DALI

#### **28.11.2016 DALI 647 03.lib / DALI 647 PFC 03.lib (V3.0)**

- KBus.lib integrated into Master function block
- New library DALI\_647\_03.lib substitutes the following libraries: “DALI\_647\_SensorType1\_02.lib”, “DALI\_647\_SensorType2\_02.lib”, “DALI\_647\_ColourControl\_02.lib”, “DALI\_647\_EmergencyLighting\_02.lib”
- FbAddressingSensorType2: MSensor-Mini Broadcast integrated
- FbConfigMultiSensorType2: LegalAddresses is queried, MSensor-Mini Broadcast integrated
- Integration of DALI 2 Standard sensor

#### **22.11.2016 Building HVAC 03.lib(V3.7)**

- Improvement of FbStartStopHeatingCircuit. The variable “xAutoCalibration” can be deactivated manually.
- Bugfix FbHeatingCharacteristic: Limit function, if rCurve is zero.

#### **18.11.2016 KNX 02.lib (V2.5)**

- Bugfix in calculation of 2Byte\_float DTP

#### **17.11.2016 EnOcean 06.lib (V6.2)**

- New EnOcean Equipment Profile D2-11-xx added (SMART-ACK)
- Mod\_com.lib data access is replaced by WagoLibKBUS.lib
- Bugfix: FbD500xx\_ContactsAndSwitches : Output value fixed
- Bugfix: FbA510xx\_RoomOperatingPanel: Set point correction fixed



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**28.09.2016 Enocan 06.lib (V6.1)**

- Decoding in Gateway with compatibility mode for 4BS fixed

**16.09.2016 ColourConverter 01.lib (V1.0)**

- Colour effects and converter library.

**16.09.2016 Enocan 06.lib (V6.0)**

- New Enocan lib supporting Smart ack.
- This library is not compatible with the old Enocan library.

**14.09.2016 Visu Scheduler 03 e.lib (V3.4)**

- Equalize to Scheduler\_03.lib (V3.4)

**14.09.2016 Visu Scheduler 03 d.lib (V3.4)**

- Equalize to Scheduler\_03.lib (V3.4)

**13.09.2016 WagoBuilding 01.lib (V1.17)**

- Bugfix: Dimmer single button functional bugfixes.

**24.08.2016 ThebenKNX DALI 02.lib (V2.3)**

- Bugfix: switching object did write to KNX bus after received switch telegram on same object.

**29.06.2016 WagoBuilding 01.lib (V1.14)**

- Bugfix: Exponent parameter in dimmer functions fixed.
- Bugfix: Dimm direction of single button with feedback signal fixed.
- Bugfix: Calculation of dim period in dimmer functions refactored.

**23.06.2016 Scheduler 03.lib (V3.4)**

- Bugfix: Orthographic mistake fixed.

**12.05.2016 WagoBuilding 01.lib (V1.9)**

- Bugfix: SlatTracking Parking position keeps true, when out of angle range
- Feature: SingleButton now react on dim direction of feedback signal

**26.04.2015 KNX 02.lib (V2.4)**

- This version eliminates an initialisation problem, which might occur with the previous version. ETS5 application download could be interrupted.

**05.04.2016 WagoBuilding 01.lib (V1.8)**

- Bugfix: CalculateSunriseSunset daylight saving time is now correctly integrated

**30.03.2016 DALI 647 SensorType2 02.lib (V2.3)**

- Bugfix FbLocateSensorType2: Locate sensors with broadcast address “255” was added.
- Bugfix FbMultiSensorType2: Besides the remote control RC6 the remote control RC5 was added.

**30.03.2016 DALI 647 SensorType1 02.lib (V2.3)**

- Bugfix FbLocateSensorType1: The check for the correct address was added.

**21.03.2016 WagoBuilding 01.lib (V1.7)**

- Bugfix: CalculateSunPosition with negative Longitude and CalculateSunriseSunset calculation corrected through round with infinitely constants

**24.11.2015 WagoBuilding 01.lib (V1.5)**

- Feature: Second Time Out Parameter in wind alarm can be used to evaluate sensor connection.

**13.11.2015 WagoBuilding 01.lib (V1.4)**

- Bugfix in maintenance function of sunshade actuator.

**03.11.2015 WagoBuilding 01.lib (V1.3)**

- Bugfix: Fu10Point linearization fixed.

**02.11.2015 ThiesModbusWeatherSensors 01.lib (V1.0)**

- New library for THIES weather sensors.

**02.11.2015 Visu Scheduler 03 d.lib (V3.3)**

- New folder structure. Sorted by associated function blocks.
- Numpad visu pages were added. They are similar to the “normal” pages, only Numpad function was added at the input fields.

**02.11.2015 Visu Scheduler 03 e.lib (V3.2)**

- New folder structure. Sorted by associated function blocks.
- Numpad visu pages were added. They are similar to the “normal” pages, only Numpad function was added at the input fields.

**30.10.2015 DALI 647 02.lib (V2.5)**

- Actual dim value gets synchronised cyclic with module database.
- Existing short addresses get checked when reading dim values. Not existing addresses are set to invalid value (over 100%).
- Add new option in dimmer single button to determine dim direction after switch on.

**23.10.2015 Scheduler 03.lib (V3.3)**

- Bugfix in calculation of daylight saving in FuDT\_LocalTime
- FbTime\_RTC\_Module is removed from build because of compatibility reason with PFC controller 750-820x
- Add new function block FbTime\_RTC\_Modul\_640
- FuDT\_To\_DetailTime has extended output data (bWeekday)

**14.09.2015 DALI 647 SensorType2 02.lib (V2.2)**

- Bugfix: FbSortAddressesSensorType2 (intern) by clicking on „Assign“, the module number will be saved correct now.
- FbAddressingSensorType2: Push button coupler will be set automatically into “Active Mode” after addressing.

### **11.09.2015 DALI 647 SensorType1 02.lib (V2.2)**

- Bugfix: FbAddressingSensorType1 Protocol ID from 67 to 35 changed.
- Bugfix: FbSortAddressesSensorType1 (intern) by clicking on „Assign“, the module number will be saved correct now.

### **31.08.2015 WagoBuilding 01.lib (V1.2)**

- Bugfix: FbSlatTracking did retrigger parking position out of azimuth range.
- Bugfix: bPartitionWallSunshadeControl did not work with permanent signals and could watch to wrong addresses after Online-Change.

### **25.08.2015 DALI 647 EmergencyLighting 02.lib (V2.0)**

- This library replaces DALI\_647\_EmergencyLighting\_01.lib
- EXP data for CODESYS visualisation also updated
- Emergency lighting library using DALI\_647\_02.lib as reference library

### **20.07.2015 Enocan 05.lib (V5.4)**

- All Function blocks wait for telegram update then calculate the data bytes accordingly.
- Default value for temperature is set to 20.0 °C

### **16.07.2015 Building HVAC 03.lib (V3.5)**

- Bugfix: FbLowPassFilter calculations of negative output values were wrong.

### **25.06.2015 Building HVAC 03.lib (V3.4)**

- Bugfix FbPIDController when xChangeInDirection is activated.
- The decimal places are now configurable for the FbImpulseCounter and all FbLowPassFilter function blocks.
- Bugfix FbPump\_FC during follow-up time.

### **15.06.2015 WagoBuilding 01.lib (V1.1)**

- Bugfix: Recovery-function of FbAdvancedLatchedRelay did not work with last recovery value.

**15.06.2015 DMX 01.lib (V1.1)**

- The util.lib is removed from the library.
- FbDMX\_ChangeChValues fixed for failing to update channel values simultaneously.

**12.06.2015 DALI 647 02.lib (V2.3)**

- Bugfix: xReady from FbSceneConfig, when xSendOnDelta is deactivated
- Export file for visualization adapted: DALI\_647\_02.EXP

**12.06.2015 DALI 647 SensorType2 02.lib (V2.1)**

- New function block: FbAddressingSensorType2
- New function block: FbLocateSensorType2
- New program: PrgDALIConfigSensorType2
- New Export file for visualization created:  
DALI\_647\_SensorType2.EXP (only applicable in cooperation with  
DALI\_647\_02.EXP)

**12.06.2015 DALI 647 SensorType1 02.lib (V2.1)**

- New function block: FbAddressingSensorType1
- New function block: FbLocateSensorType1
- New program: PrgDALIConfigSensorType1
- New Export file for visualization created:  
DALI\_647\_SensorType1.EXP (only applicable in cooperation with  
DALI\_647\_02.EXP)

**03.06.2015 WagoBuilding 01.lib (V1.0)**

- New library WagoBuilding\_01.lib substitutes the  
Gebaeude\_allgemein.lib and the Building\_Common.lib

**06.05.2015 KNX 02.lib (V2.3)**

- Bugfix: Optional RETAIN data (typDPT) was overwritten when using  
KNX-TP1 module 753-646.

#### **14.04.2015 BACnet 02.lib (V.2.3)**

- This version eliminates an initialisation problem, which might occur with the previous version at FbBACnetPriorityArray\_AV and FbBACnetPriorityArray\_BV.

#### **02.04.2015 MBus 03.lib (V2.4)**

- Changed receive buffer size from 255 to 261 bytes. The consumption meter Kamstrup Multical 602 needs this extended buffer size.

#### **17.03.2015 MpBus 02.lib (V2.7)**

- Changed error handling in FbMpBusRoomSensor
- Changed error handling in FbMpBusEnergyValve

#### **20.02.2015 SMI 02.lib (V2.3)**

- Update of manufacturer IDs in visualization objects

#### **10.02.2015 KNX 02.lib (V2.2)**

- Bugfix: Hardware type was not written correctly by FbKNX\_Master\_646 when controller 750-889 was used.

#### **04.02.2015 DALI 02.lib(2.14)**

- Bugfix: FbDALI\_DimmEasy, FbDALI\_DimmSingleButton and FbDALI\_LatchingRelay have stored the last reference value, when changing from group commands to short addresses.

#### **05.01.2015 DALI 647 02.lib und DALI 647 PFC 02.lib(V2.2)**

- The FbStatusControlGear acknowledged the Error Code 5 automatically.
- Bugfix: The FbConstantLightControl didn't switch off the light, when the min. dim level is reached.

#### **25.11.2014 ThebenKNX DALI 02.lib (V2.1)**

- New library ThebenKNX\_DALI\_02.lib substitutes the library ThebenKNX\_DALI\_01.lib
- This library is based on the DALI module 753-647 and the new KNX library KNX\_02.lib.

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### **28.10.2014 KNX\_02.lib (V2.1)**

- Bugfix: Data points of 750-889 IP-Controller were not synchronized correctly when a second KNX-module 753-646 was used.

### **17.09.2014 KNX\_02.lib (V2.0)**

- New library KNX\_02.lib substitutes the KNX\_Standard.lib

### **17.09.2014 KNX\_Standard.lib (V1.7)**

- Changed data structure typKNX and extended global variables in order to simplify replacement of 750-849 controller by 750-889 controller

### **15.09.2014 DecodeFlexweather\_01.lib (V1.0)**

- New library for decoding signals received from flexROOM® Weather

### **15.09.2014 RomotecModbusRTU\_02.lib (V2.2)**

- New function blocks FbBDH1403, FbBDH2203, FbBAH4001 and BDH1402

### **19.08.2014 DALI\_647\_02.lib(V2.1) and DALI\_647\_PFC\_02.lib**

- Cyclic query of the module status
- Performance improvement of FbDaliConstantLightControl

### **26.06.2014 DALI\_647\_02.lib (V2.0)**

- The library replaces DALI\_647\_01.lib
- The function block interfaces “bAddress”, “xGroup” and “bModule\_753\_647” were centralized in the data type “typBallast”.
- The function block “FbMaster753\_647\_IPC was removed.
- The interface “xSetSelected” was added in the function block “FbDaliOperatingHours”.
- Changes in the function block “FbDaliConfigConstantLightControl”:
  - Bugfix at the interface “xToggle”.
  - The new reference value will be detected 30s after dimming.
- The following function blocks were added:
  - FbDaliMemoryBank
  - FbDaliSendFadeRate

- FbDaliSendFadeTime
- FbDaliStoreActualValueAsScene
- FbDaliShowActualValue
- FbDaliSwitchPowerSupply
- FbDaliRestoreLastDimmValue

**26.06.2014 DALI 647 PFC 02.lib (V2.0)**

- Special version of DALI\_647\_02.lib for the PFC200 controller.

**26.06.2014 DALI 647 SensorType1 02.lib (V2.0)**

- The library replaces DALI\_647\_SensorCoupler\_01.lib

**26.06.2014 DALI 647 SensorType2 02.lib (V2.0)**

- The library replaces DALI\_647\_Msensor\_01.lib

**26.06.2014 DALI 647 ColourControl 02.lib (V2.0)**

- New library to control DALI Device Type 8 luminaires

**06.05.2014 MpBus 02.lib (V2.6)**

**FbMpBusVAV:** Changed value range of input rMaxAirVolume

**05.05.2014 EnOcean 05.lib (V5.3)**

- Visualization property of “Config\_Thermokon\_STC\_VISU\_PH” is set to “Visualization without master layout”.
- Output rTemperature of the following FBs are initialized with default value 20 i.e. 20°C.
  - FfbA502xx\_TemperatureSensor
  - FbA510xx\_RoomOperatingPanel
  - FbA52001\_BatteryPoweredActuator
- Error in data decoding in the following function blocks are fixed.
  - FbA51303\_DateExchange
  - FbA51304\_TimeAndDayExchange



- The function block FbA504xx\_TemperatureHumiditySensorSupport now support Eltako FAFT60 & FIFT63AP (A5-04-02/ 07-04-02.). This profile is NOT according to EEP2.1 and EEP2.6 specifications

#### **14.03.2014 DALI 647 01.lib (V1.4)**

- At each function block the Input “bModule\_753\_647” is limited between 1 and MaxModules.
- The scene number of the FbSceneConfig is limited between 0 and 15.

#### **14.03.2014 Building HVAC 03.lib (V3.3)**

- Bugfix in the calculation of the operating minutes of the FbFan\_1Level
- The FbCalculatedSupplyTemperature starts always with a reference value inside the defined limits.

#### **19.02.2014 Building HVAC 03.lib (V3.2)**

- New export file Building\_HVAC\_03\_x.exp with additional elements.
- Bugfix: FbRotaryHeatExchanger didn't enable “xRotaryHeatExchanger” during self cleaning.

#### **14.01.2014 Building HVAC 03.lib (V3.1)**

- New folder structure in the export file Building\_HVAC\_03\_x.exp
- Bugfix: FbStartStopOptimization has generated an error message at the PFC 200.
- Modification at the PIDController:  
The P-part will be deactivated, when the limit is reached and the actual level deviates more than 5 % from the reference value.
- Modification at the FbDHWPreparation:  
Supply temperature alarm doesn't switch off the pump

### **14.01.2014 DALI 647 01.lib (V.1.3)**

- The FbDaliLatchingRelay and the FbDaliSwitchOnOff use now the OFF Command (without Fade Time).
- The FbDaliDimmSingleButton and the FbDaliDimmDoubleButton use now the DAPC 0 % (with Fade Time).
- Bugfix: FbSceneConfig generates an Access violation at the PFC 200.

### **02.12.2013 MpBus 02.lib (V.2.5)**

- FbMpBusEnergyValve: The block will send write command when there is value change on input “*bSetOverride*” and “*rSetRelativeSetpoint*”. When error occurs, the write will remain inactive since the block waits for change of value. Now the block will reactivate write command for *override* and *relative setpoint* whenever error occurs.
- Bug fix: The error handling of the FbMpBusEnergyValve and FbMpBusRoomSensor is changed. The function blocks will no longer locked when error occurs.
- Scaling of input rSetRelativeSetpoint of the FbMpBusEnergyValve is corrected

**25.11.2013 BACnet 02.lib (V.2.2)**

- New function blocks added:
  - FbBACnetInOutValue\_AV: Function block for reading from /writing to BACnet Priority array of an analogue value object. The input is IN/OUT-Variable hence it is possible to change the value from the BACnet-Network and get an updated value in the IEC Application.
  - FbBACnetInOutValue\_BV: Function block for reading from /writing to BACnet Priority array of a binary value object. The input is IN/OUT-Variable hence it is possible to change the value from the BACnet-Network and get an updated value in the IEC Application.
  - FbBACnetInOutValue\_MV: Function block for reading from /writing to BACnet Priority array of a multistate value object. The input is IN/OUT-Variable hence it is possible to change the value from the BACnet-Network and get an updated value in the IEC Application.
- FbBACnetNative\_BO and FbBACnetNative\_AO: Internal code changes.
- New Version of BACNETOBJECTS.EXP available. In this version of the export data, the BACnet properties are resorted and a new category “Library Mandatory Properties” is introduced.

**07.10.2013 MpBus 02.lib (V.2.3)**

- New function blocks added:
  - FbMpBusRoomSensor: Function block for reading value from BELIMO Room combination sensor MS24-Rxx-MPX
  - FbMpBusEnergyValve: Reading and controlling BELIMO Energy Valve P6...EV-xxx
  - FbMpBusDamperAndValveActuator\_MPL: reading and controlling BELIMO MPL Actuator.
  - FbMpBusUST5: Read and control UST5 signal transmitter
  - FbMpBusP\_Sensor: Read and control P-Sensor
- Generic function blocks also added:
  - Function blocks for PEEK and POKE command.
  - Function blocks for getting and setting process data pool values.
  - Function block for setting configuration data pool values.

**27.09.2013 Enocean 05.lib (V5.2)**

- Function block for HVAC Components (EEP A5-20-xx) only receive telegram with Data Byte 0 = 16#08. This is a bug and has been fixed.
- The bidirectional function block accepts any learn telegram regardless of its corresponding EEP. An EEP filter has been build inside the function block to fix this bug.
- The bidirectional function block answers with DB0.3 =TRUE (data telegram):

**26.09.2013 BACnet 02.lib (V2.1)**

- LOOP object can be saved now as RETAIN. This function only available for BACnet IP Controller 750-831.
- Export data *BACnetObjects.EXP* updated with new object supported by 750-831.

**26.08.2013 DALI 647 01.lib (V1.2)**

- Constant light control revised and updated.
- Feedback during the access of the WAGO-DALI-Configurator.
- Actual level will be calculated during the dimming.

**12.08.2013 DMX 01.lib (V1.0)**

- New library in order to control DMX-devices via serial interface module 750-652.

**29.07.2013 Genibus 01.lib (V1.0)**

- New library in order to control Grundfos pumps with GENIbus interface.

**19.07.2013 Enocean 05.lib (V5.1)**

- Timeout not able to reset with incoming telegram with EEP A5-02-xx and A5-10-xx. This issue is now solved.

**08.07.2013 Building HVAC 03.lib (V3.0)**

- Building\_HVAC\_03.lib substitutes Building\_HVAC\_02.lib
- The interface of the Sequence function blocks has be changed
- New FbAnalog3Point function block with dynamic set value calculation

**01.07.2013 WeatherForecast HKW 01.lib (V1.0)**

- New library in order to integrate the HKW weather forecast station WS-K xx Modbus.

**25.06.2013 DALI 647 EmergencyLighting 01.lib (V1.1)**

- Fb\_SettingEmergencyLighting internal code's optimised. Functionality remains unchanged.

**18.06.2013 DALI 647 01.lib (V1.1)**

- A master block without the suffix \_IPC added.

**02.05.2013 BACnet 02.lib (V2.0)**

- New library in order to manage data exchange between BACnet network and IEC61131 application program

**02.05.2013 Building HVAC 02.lib (V2.1)**

- Building\_HVAC\_02.lib substitutes Building\_HVAC\_01.lib
- Revised and extended version of the previous HVAC library

#### **02.05.2013 Enocean 05.lib (V5.0)**

- Enocean\_05.lib substitutes Enocean\_04.lib
- New concept of function blocks according to the EEP (Enocean Equipment Profile) standard

#### **02.05.2013 Mbus 03.lib (V2.3)**

- Mbus\_03.lib substitutes Mbus\_02.lib
- Mbus\_03.lib substitutes Mbus\_Special.lib
- Support of secondary addressing
- Add new function block **FbMbus\_MultiTel** in order to provide an interface for multi-telegram-meters (e.g. ABB DAM13000)

#### **02.05.2013 SMI 02.lib (V2.2)**

- **FbSMI\_MOTOR:** Improved time behaviour for movement to shadow position

#### **02.05.2013 ThermokonWRF06 01.lib (V1.0)**

- New library in order to integrate the Thermokon Room Operating Panel WRF06 via Modbus/RTU.

#### **02.05.2013 ThermokonThanos 01.lib (V1.0)**

- New library in order to integrate the Thermokon Room Operating Panel Thanos via Modbus/RTU.

#### **12.02.2013 DMX StageProfi 02.lib (V2.1)**

- Improved error handling when losing the TCP connection

#### **01.02.2013 SMI 02.lib (V2.0)**

- SMI\_02.lib substitutes SMI\_01.lib

#### **20.11.2012 DALI 647 EmergencyLighting 01.lib (V1.0)**

- New library for DALI Emergency Lighting (Device Type 1)

#### **20.11.2012 DALI 647 SensorCoupler 01.lib (V1.0)**

- DALI\_647\_SensorCoupler\_01.lib substitutes the WagoLibDALI\_SensorCoupler\_01.lib

#### **20.11.2012 DALI 647 Msensor 01.lib (V1.0)**

- DALI\_647\_Msensor\_01.lib substitutes the WagoLibDALI\_Msensor\_01.lib

#### **20.11.2012 DALI 647 01.lib (V1.0)**

- DALI\_647\_01.lib substitutes the WagoLibDALI\_01.lib

#### **09.10.2012 DMX StageProfi 02.lib (V2.0)**

- DMX\_Stage\_Profi\_02.lib substitutes the DMX\_State\_Profi\_01.lib

#### **28.09.2012 LON 01.lib (V1.0)**

- New library for LON module 753-648

#### **13.09.2012 MpBus 02.lib (V2.2)**

- **FbMpBusVav:** Replaced command in order to write MIN/MAX values according to the new Belimo standard.

#### **13.09.2012 WagoLibDALI SensorCoupler 01.lib (V1.0)**

- New library for the DALI module 753-647
- This library supports the Sensor Coupler

#### **13.09.2012 WagoLibDALI Msensor 01.lib (V1.0)**

- New library for the DALI module 753-647
- This library supports the Msensor 2.0

#### **13.09.2012 WagoLibDALI 01.lib (V1.1)**

- Minor changes in FbDali\_Command

#### **22.08.2012 WagoLibDALI 01.lib (V1.0)**

- New library for the DALI module 753-647

#### **10.07.2012 Gebaeude\_allgemein.lib (V1.14)**

- Add new module **FbSunblind\_2**

#### 22.05.2012 Mbus Special.lib (V1.4)

- New function blocks **FbMbus\_Electricity\_Sec**, **FbMbus\_Heat\_Sec**, **FbMbus\_Water\_Sec** and **FbMbus\_Response\_02\_Sec** in order to support M-Bus secondary addressing

#### 13.02.2012 ThebenKNX DALI 01.lib (V1.4)

- This version eliminates problems with the PLC\_VISU visualisation which might occurred with the previous version.

#### 17.10.2011 DALI 02.lib (V2.12)

- Extended functionality of the **FbDALI\_ConstantLightControl**. Now it is possible to start the constant light control with a fix value.

#### 13.09.2011 Scheduler 03.lib (V3.2)

- Fixed error in **FbTimetable**. Invalid access to an array index.

#### 06.07.2011 Winsta BC 02.lib (V2.1)

- **Winsta\_BC\_02.lib** substitutes the **Winsta\_BC\_01.lib**
- This version supports new features of boxes with  $SW \geq 02$ .
- Add new module **FbWinsta\_BC\_Position**.

#### 28.06.2011 DALI EmergencyLighting 01.lib (V1.2)

- New visualisation element and function block **FbConfigEmergencyLighting** for identification of the emergency lighting.
- The new function block can also readout the status of all emergency lightings on the DALI line.

#### 16.05.2011 KNX Applications 02.lib (V2.3)

- Fixed error in **FbKNX\_DALI\_Dimm**. The feedback dim value was not displayed correctly.

#### 30.03.2011 ElsnerModbusWeatherStation 01.lib (V1.0)

- New library for the Elsner Weatherstation P03/3 Modbus



**09.03.2011 Mbus 02.lib (V2.1)**

- Mbus\_02.lib substitutes the Mbus.lib
- Improvement of **FbMbusDecode** in order to increase the number of data records to 20.
- Add new elements of the M-Bus VIFE-Extension table

**09.03.2011 Mbus Special.lib (V1.3)**

- Add module **FbMbus\_Response\_02**

**09.03.2011 Scheduler 03.lib (V3.1)**

- Add module **FbClock**
- Fixed error in **FbSetScheduleValue**. The output values were not set correctly.

**02.03.2011 DALI 02.lib (V2.11)**

- This version prevents, that during the initialization of the Joblist a Job will be written into the Joblist.

**11.02.2011 DALI 02.lib (V2.10)**

- This version eliminates an error if the Joblist for the first DALI line is not present. In this case the message “Please Wait” will always be displayed for the other DALI lines.

**26.01.2011 DALI 02.lib (V2.9)**

- New function block **FbDALI\_M\_Sensor**
- New function block **FbDALI\_SwitchRawValue**.
- Performance of the **FbDALI\_Joblist** optimized
- DALI Configuration tool has now the possibility to choose between ul values in percent or DALI ul values.
- New feature “Reset Joblist” implemented

**26.01.2011 PowerMeasurement 03.lib (V3.2)**

- New global variable in order to set a filter for unused inputs if one phase measurement is used.

**26.01.2011 Scheduler\_03.lib (V3.0)**

- Scheduler\_03.lib substitutes the Scheduler\_02.lib
- Scheduler\_03.lib belongs to an external open source visualisation library (Visu\_Scheduler\_03\_x.lib).
- Add new module **FbTimetable**. This module contains the time switching function for an occupancy schedule (timetable) of a room.
- Add new module **FbTime\_RTC\_Modul**. This function block determines the date and time from the RTC module 750-640 and makes the data available
- Add new module **FbSetScheduleValue**
- **FbScheduler**: New output typScheduleStatus
- **FbScheduler**: New feature for public holiday time switching program.

**18.01.2011 Enocan\_RS485\_03.lib (V3.0)**

- Enocan\_RS485\_03.lib substitutes the Enocan\_RS485\_02.lib
- New function blocks to support the bidirectional Enocan Gateway STC65-RS485 EVC from Thermokon.
- Add new module **Fb\_MD15\_FtL\_HE\_EVC** for Kieback&Peter actuator.

**26.11.2010 PowerMeasurement\_03.lib (V3.1)**

- This version eliminates the problem with the calculation of the energy consumption at a 16 Bit controller.

**30.09.2010 RomotecModbusRTU\_02.lib (V2.0)**

- RomotecModbusRTU\_02.lib substitutes the RomotecModbusRTU.lib
- **FbRomotecMaster**: New input to adjust COM\_FLOW\_CONTROL

**29.09.2010 SMI\_01.lib (V1.2)**

- New placeholder for SMI visualisation in order to be applicable as web-visualisation.
- **FbAddressing**: The new version of this function block eliminates a problem of extended addressing which might occurred with the previous version.

**23.08.2010 KNX Applications 02.lib (V2.2)**

- Add new module **FbKNX\_DALI\_Dimm**
- Add new module **FbKNX\_Clock**

**26.07.2010 Scheduler 02.lib (V2.3)**

- Changed licensing. The new version is applicable for WAGO PERSPECTO Control Panels

**26.07.2010 Building HVAC 01.lib (V2.14)**

- Changed licensing. The new version is applicable for WAGO PERSPECTO Control Panels

**26.07.2010 Gebaeude allgemein.lib (V1.13)**

- Changed licensing. The new version is applicable for WAGO PERSPECTO Control Panels

**31.05.2010 Winsta BC 01.lib (V1.0)**

- New library for the WINSTA Sunblind box 770-629/130-000

**31.05.2010 ThebenKNX DALI 01.lib (V1.3)**

- This version eliminates an initialisation problem, which might occurred with the previous version.

**31.05.2010 SMI 01.lib (V1.1)**

- **FbSMI\_MOTOR:** New switch over delay from safety position to shadow position.
- **FbSMI\_MOTOR:** Reduced polling rate of position when the motor moves to safety position.

**10.05.2010 PowerMeasurement 03.lib (V3.0)**

- PowerMeasurement\_03.lib substitute the PowerMeasurement\_02.lib
- 32-Bit value for Energy consumption with a fixed scaling factor (Wh)
- Current transformer ratio per phase

**03.05.2010 DALI 02.lib (V2.8)**

- **FbDALI\_ConstantLightControl** periodic refresh of dimmsignal when the constant light control is enabled
- **FbDALI\_ConstantLightControl** reduced switch on delay time if presence and actual value becomes smaller than the set point value

**27.04.2010 SMI 01.lib (V1.0)**

- New library for blind control application

**26.04.2010 Building HVAC 01.lib (V2.13)**

- Improved code for **Fb\_Fan\_FC**

**25.03.2010 DaylightSaving.lib (V1.2)**

- Changed code in order to support BACnet time synchronisation

**18.02.2010 ThebenKNX DALI 01.lib (V1.1)**

- New library in order to integrate the Theben compact office EIB ultisensory via KNX module 753-646 for a DALI constant light control.

**29.01.2010 Enocan Omnio 01.lib (V1.2)**

- Changed data acknowledgement

**29.01.2010 DALI 02.lib (V2.7)**

- Changed range for parameter FadeTime in **FbDALI\_ConfigDevice**
- Several outputs “xReady” have got a changed behaviour

**29.01.2010 MpBus 02.lib (V2.1)**

- Add new module **FbMpBusTHC24**

**29.01.2010 Building HVAC 01.lib V(2.12)**

- Improved code for **Fb\_Control\_PID\_Adv**

**29.01.2010 Enocan 04.lib (V4.4)**

- Add new module **FbSR\_MDS\_V2** for the ceiling multi sensors with changed output form

**03.11.2009 DaylightSaving.lib (V1.1)**

- Major change regarding write access to firmware register.  
**Please replace the previous version**

## 2 Library version

Library:	Version:	Further Information and examples:
BACnet_01_easy.lib	1.0	<a href="#">Bibliothek Library</a>
BACnet_02.lib	2.5	<a href="#">Bibliothek Library</a> <a href="#">Anwendungshinweis Application Note</a>
Building_HVAC_03.lib	3.10	<a href="#">Bibliothek Library</a> <a href="#">Anwendungshinweis Application Note</a>
ColourConverter_01.lib	1.2	<a href="#">Bibliothek Library</a>
DaylightSaving.lib	1.2	<a href="#">Anwendungshinweis Application Note</a>
DALI_647_04.lib / DALI_647_PFC_04.lib	4.1	<a href="#">Bibliothek Library</a>
DALI_647_SpecialSensor_02.lib	2.0	<a href="#">Bibliothek Library</a>
DecodeFlexweather_01.lib	1.0	<a href="#">Anwendungshinweis</a>
DMX_02.lib	2.0	<a href="#">Bibliothek Library</a> <a href="#">Anwendungshinweis Application Note</a>
DMXStageProfi_02.lib	2.1	<a href="#">Anwendungshinweis Application Note</a>
Enocean_06.lib	6.8	<a href="#">Bibliothek</a>
ElsnerModbusWeatherStation_01.lib	1.0	<a href="#">Anwendungshinweis Application Note</a>
Genibus_01.lib	1.3	<a href="#">Anwendungshinweis Application Note</a>
KNX_IP_750_889_02.lib	2.0	<a href="#">Bibliothek Library</a>
KNX_IP_750_849_01.lib	1.0	<a href="#">Bibliothek Library</a>
KNX_02.lib	2.7	<a href="#">Bibliothek Library</a> <a href="#">Anwendungshinweis Application Note</a>
KNX_Standard.lib	1.7	<a href="#">Bibliothek Library</a>

LON_01.lib	1.0	<a href="#">Bibliothek</a>	
MBUS_649_01.lib	1.5	<a href="#">Bibliothek</a> <a href="#">Library</a>	<a href="#">Anwendungshinweis</a> <a href="#">Application Note</a>
MpBus_03.lib	3.2	<a href="#">Bibliothek</a> <a href="#">Library</a>	<a href="#">Anwendungshinweis</a> <a href="#">Application Note</a>
PowerMeasurement_03.lib	3.2	<a href="#">Bibliothek</a> <a href="#">Library</a>	<a href="#">Anwendungshinweis</a> <a href="#">Application Note</a>
robutecheasy_02.lib	2.0	<a href="#">Bibliothek</a>	
RomotecModbusRTU_02.lib	2.2	<a href="#">Bibliothek</a>	
Scheduler_03.lib	3.4	<a href="#">Bibliothek</a> <a href="#">Library</a>	<a href="#">Anwendungshinweis</a> <a href="#">Application Note</a>
SchuecoTipTronic.lib	1.0	<a href="#">Bibliothek</a>	
SMI_02.lib	2.3	<a href="#">Bibliothek</a> <a href="#">Library</a>	<a href="#">Anwendungshinweis</a> <a href="#">Application Note</a>
ThermokonWRF08.lib	1.1	<a href="#">Bibliothek</a> <a href="#">Library</a>	<a href="#">Anwendungshinweis</a> <a href="#">Application Note</a>
ThebenKNX_DALI_02.lib	2.3		<a href="#">Anwendungshinweis</a> <a href="#">Application Note</a>
ThermokonWRF06_01.lib	1.0	<a href="#">Bibliothek</a> <a href="#">Library</a>	<a href="#">Anwendungshinweis</a> <a href="#">Application Note</a>
ThermokonThanos_01.lib	1.0	<a href="#">Bibliothek</a> <a href="#">Library</a>	<a href="#">Anwendungshinweis</a> <a href="#">Application Note</a>
ThiesModbusWeatherSensors_01.lib	1.0	<a href="#">Bibliothek</a> <a href="#">Library</a>	<a href="#">Anwendungshinweis</a> <a href="#">Application Note</a>
WagoBuilding_01.lib	1.17	<a href="#">Bibliothek</a> <a href="#">Library</a>	<a href="#">Anwendungshinweis</a> <a href="#">Application Note</a>
Winsta_BC_02.lib	2.1	<a href="#">Bibliothek</a> <a href="#">Library</a>	<a href="#">Anwendungshinweis</a> <a href="#">Application Note</a>
WeatherForecast_HKW_01.lib	1.1		<a href="#">Anwendungshinweis</a>

### 3 Building libraries compatibility list

	750-																		
Library	-806	-819	-829	-830	-831	-833	-837	-838	-841	-842	-843	-849	-871	-872	-873	-880	-881	-884	-889
BACnet_01_easy.lib			x	x	x														
BACnet_02.lib			x	x <sub>5</sub>	x														
Building_Common.lib	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Builing_HVAC_03.lib	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
ColourConverter_01.lib	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
DALI_647_04.lib			(07) <sub>1</sub>		(07) <sub>1</sub>											(07) <sub>1</sub>	(07) <sub>1</sub>	(07) <sub>1</sub>	(07) <sub>1</sub>
DALI_647_PFC_04.lib																			
DALI_647_SpecialSensor_02.lib			(07) <sub>1</sub>		(07) <sub>1</sub>											(07) <sub>1</sub>	(07) <sub>1</sub>	(07) <sub>1</sub>	(07) <sub>1</sub>
DaylightSaving.lib			x	x	x				x			x	x	x	x	x	x	x	x
DecodeFlexWeather_01.lib			x	x	x				x			x	x	x	x	x	x	x	x
DMX_02.lib	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
DMX_StageProfi_02.lib			x	x	x				x			x	x	x	x	x	x	x	x
ElsnerModbusWeatherStation_01.lib	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Enocean_06.lib			(07) <sub>1</sub>		(07) <sub>1</sub>											(07) <sub>1</sub>	(07) <sub>1</sub>	(07) <sub>1</sub>	(07) <sub>1</sub>
Gebaeude_allgemein.lib	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Genibus_01.lib	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
KNX_IP_750_889_02.lib																			x
KNX_IP_750_849_01.lib												x							
KNX_Standard.lib	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
KNX_02.lib			(07) <sub>1</sub>		(07) <sub>1</sub>											(07) <sub>1</sub>	(07) <sub>1</sub>	(07) <sub>1</sub>	(07) <sub>1</sub>
LON_01.lib	x <sub>4</sub>	x <sub>4</sub>	x	x	x	x	x <sub>4</sub>	x <sub>4</sub>	x	x <sub>4</sub>		x	x	x	x	x	x	x	x
MBUS_649_01.lib			(07) <sub>1</sub>		(07) <sub>1</sub>											(07) <sub>1</sub>	(07) <sub>1</sub>	(07) <sub>1</sub>	(07) <sub>1</sub>
MpBus_03.lib			(07) <sub>1</sub>		(07) <sub>1</sub>											(07) <sub>1</sub>	(07) <sub>1</sub>	(07) <sub>1</sub>	(07) <sub>1</sub>
PowerMeasurement_03.lib	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x



750-																			
Library	-806	-819	-829	-830	-831	-833	-837	-838	-841	-842	-843	-849	-871	-872	-873	-880	-881	-884	-889
Robutecheasy_02.lib	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
RomutecModbusRTU_02.lib	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
SMI_02.lib	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Scheduler_03.lib	O <sub>2</sub>	O <sub>2</sub>	x	x	x	O <sub>2</sub>	O <sub>2</sub>	O <sub>2</sub>	x	O <sub>2</sub>	O <sub>2</sub>	x	x	x	x	x	x	x	x
SchuecoTipTroinic.lib	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
ThermokonWRF06_01.lib	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
ThermokonWRF08.lib	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
ThermokonThanos_01.lib	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
ThebenKNX_DALI_02.lib			(07) <sub>1</sub>		(07) <sub>1</sub>											(07) <sub>1</sub>	(07) <sub>1</sub>	(07) <sub>1</sub>	(07) <sub>1</sub>
ThiesModbusWeatherSensors_01.lib	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
WagoBuilding_01.lib	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Winsta_BC_02.lib	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
WeatherForecast_HKW_01.lib	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x

- <sup>1</sup> Valid from FW ( )
- <sup>2</sup> FbSaveVariable not supported
- <sup>3</sup> Special communication module applicable for IPC
- <sup>4</sup> restricted-use
- <sup>5</sup> FW04 required. FbRetain\_LOOP not supported.

Library	750-				758-
	-8202	-8203	-8204	-8206	-874
BACnet_01_easy.lib					
BACnet_02.lib					
Building_Common.lib	x	x	x	x	x
Builing_HVAC_03.lib	x	x	x	x	x
ColourConverter_01.lib	x	x	x	x	x
DALI_647_04.lib	(03) <sub>1</sub>	(03) <sub>1</sub>	(03) <sub>1</sub>	(03) <sub>1</sub>	(09) <sub>1</sub>
DALI_647_PFC_04.lib	x	x	x	x	
DALI_647_SpecialSensor_02.lib	(03) <sub>1</sub>	(03) <sub>1</sub>	(03) <sub>1</sub>	(03) <sub>1</sub>	(09) <sub>1</sub>
DaylightSaving.lib					
DecodeFlexWeather_01.lib	x	x	x	x	x
DMX_02.lib	x	x	x	x	x
DMX_StageProfi_02.lib	x	x	x	x	x
ElsnerModbusWeatherStation_01.lib	x	x	x	x	x
Enocean_06.lib	(03) <sub>1</sub>	(03) <sub>1</sub>	(03) <sub>1</sub>	(03) <sub>1</sub>	(09) <sub>1</sub>
Gebaeude_allgemein.lib	x	x	x	x	x
Genibus_01.lib	x	x	x	x	x
KNX_IP_750_889_02.lib					
KNX_IP_750_849_01.lib					
KNX_Standard.lib	X <sub>3</sub>	X <sub>3</sub>	X <sub>3</sub>	X <sub>3</sub>	X <sub>3</sub>
KNX_02.lib	(03) <sub>1</sub>	(03) <sub>1</sub>	(03) <sub>1</sub>	(03) <sub>1</sub>	(09) <sub>1</sub>
LON_01.lib	x	x	x	x	x
MBUS_649_01.lib	(03) <sub>1</sub>	(03) <sub>1</sub>	(03) <sub>1</sub>	(03) <sub>1</sub>	(09) <sub>1</sub>
MpBus_03.lib	(03) <sub>1</sub>	(03) <sub>1</sub>	(03) <sub>1</sub>	(03) <sub>1</sub>	(09) <sub>1</sub>

750-					758-
Library	-8202	-8203	-8204	-8206	-874
PowerMeasurement_03.lib	X <sub>3</sub>	X <sub>3</sub>	X <sub>3</sub>	X <sub>3</sub>	X <sub>3</sub>
Robutecheasy_02.lib	X	X	X	X	X
RomotecModbusRTU_02.lib	X	X	X	X	X
SMI_02.lib	X	X	X	X	X
Scheduler_03.lib	X	X	X	X	X
SchuecoTipTroinic.lib	X	X	X	X	X
ThermokonWRF06_01.lib	X	X	X	X	X
ThermokonWRF08.lib	X	X	X	X	X
ThermokonThanos_01.lib	X	X	X	X	X
ThebenKNX_DALI_02.lib	(03) <sub>1</sub>	(03) <sub>1</sub>	(03) <sub>1</sub>	(03) <sub>1</sub>	(09) <sub>1</sub>
ThiesModbusWeatherSensors_01.lib	X	X	X	X	X
WagoBuilding_01.lib	X	X	X	X	X
Winsta_BC_02.lib	X	X	X	X	X
WeatherForecast_HKW_01.lib	X	X	X	X	X

<sup>1</sup> Valid from FW ( )

<sup>2</sup> FbSaveVariable not supported

<sup>3</sup> Special communication module applicable for IPC

<sup>4</sup> restricted-use

<sup>5</sup> FW04 required. FbRetain\_LOOP not supported.

762-					
Library	-3035	-3057	-3104	-3121	-3150
BACnet_01_easy.lib					
BACnet_02.lib					
Building_Common.lib	x	x	x	x	x
Builing_HVAC_02.lib	x	x	x	x	x
ColourConverter_01.lib					
DALI_647_04.lib					
DALI_647_PFC_04.lib					
DALI_647_SpecialSensor_02.lib					
DaylightSaving.lib					
DecodeFlexWeather_01.lib					
DMX_02.lib					
DMX_StageProfi_02.lib					
ElsnerModbusWeatherStation_01.lib					
Enocean_06.lib					
Gebaeude_allgemein.lib	x	x	x	x	x
KNX_IP_750_889_02.lib					
KNX_IP_750_849_01.lib					
KNX_Standard.lib					
KNX_02.lib					
LON_01.lib					
MBUS_649_01.lib					
MpBus_03.lib					
PowerMeasurement_03.lib					
Robutecheasy_02.lib					
RomutecModbusRTU_02.lib					

762-					
Library	-3035	-3057	-3104	-3121	-3150
SMI_02.lib					
Scheduler_03.lib	x <sub>4</sub>	x <sub>4</sub>	x <sub>4</sub>	x <sub>4</sub>	x <sub>4</sub>
SchuecoTipTroinic.lib					
ThermokonWRF06_01.lib					
ThermokonWRF08.lib					
ThermokonThanos_01.lib					
ThebenKNX_DALI_01.lib					
ThiesModbusWeatherSensors_01.lib					
WagoBuilding_01.lib	x	x	x	x	x
Winsta_BC_02.lib					
WeatherForecast_HKW_01.lib					

<i>KNX libraries compatibility</i>					
<i>Controller</i>	<i>OLD</i> (no fixed memory addressing possible)			<i>NEW</i> (fixed memory addressing possible)	
	KNX_Application_02.lib	KNX_Standard.lib	KNX_IP_750_849_01.lib	KNX_IP_750_889_02.lib	KNX_02.lib
750-88x (FW $\geq$ 07)	(x)	(x)			x
750-88x (FW<07)	x	x			
750-830	x	x			
750-831 (FW $\geq$ 07)	(x)	(x)			x
750-831 (FW<07)	x	x			
750-849	x	x	x		
750-889	(x)	(x)		x	x
750-820x (FW $\geq$ 03)	(x)	(x)			x
750-820x (FW<03)	x	x			
750-84x	x	x			
750-87x (FW $\geq$ 09)	(x)	(x)			x
750-87x (FW<09)	x	x			
750-829 (FW $\geq$ 07)	(x)	(x)			x
750-829 (FW<07)	x	x			

x – compatible

(x) – compatible but not recommended

**Note:** The compatibility of KNX libraries is independent of the 753-646 firmware version.

**Note:** The library KNX\_Application\_02.lib requires the library KNX\_Standard.lib and is not applicable with KNX\_02.lib.

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