iSMA-B-FCU
Fan Coil Unit Controller

iSMA-B-FCU Software Bundle 2.4.0   2022

The list below contains modifications and new features since the release of software bundle version 2.4.0.

NAME	DESCRIPTION
Firmware Ver. 2.3 Release date 17 May 2022	**New Functionalities:** • Support of NV actions in FCU Updater v.2.5.1 • Support for new Touch Point wall panels in iSMA Room Device Modbus Kit **Improvements:** • Overall stability improvements • Increased time to detect the end of BACnet file transfer from 5 to 10 seconds of idle time

FCU Updater Ver. 2.5.1
Release date 17 May 2022
	New Functionalities:
	• Added possibility to invoke actions in one or multiple controllers directly from FCU Updater:
	   ○ CopyFromDefaultToNV,
	   ○ CopyFromNVToDefault,
	   ○ CopyFromNVToDefault,
	   ○ CopyFromUserToNV,
	   ○ CopyFromNVToUser,
	   ○ Set NV in AUTO.
	• Support for Touch Point wall panels USB upgrade
	Improvements:
	• Improved stability during the firmware upload process
	• Overall stability improvements
	• New FCU Updater Icon
	• Rebranded to iSMA CONTROLLI

iSMA-B-FCU Software Bundle 2.3.0   9 Mar 2021

The list below contains modifications and new features since the release of software bundle version 2.3.0.

NAME	DESCRIPTION
FCU Updater Ver. 2.3.0 Release date 9 Mar 2021	**New Functionalities:** • iSMA Modus Tunnel compatibility; • Modbus TCP gateway connection option; • Modbus BACnet IP gateway connection option; • added request timeout in project settings; • automatic backup disable option in project settings; • allowed to run multiple instances of FCU Updater on a single PC.

iSMA-B-FCU Software Bundle 2.2.3   25 Jun 2020

The list below contains modifications and new features since the release of software bundle version 2.2.3.

NAME	DESCRIPTION
iSMA-B-FCU Ver. 2.2.3 Release date 25 Jun 2020	**Improvements:** • added new FCU Updater v2.2.0 to the bundle.
FCU Updater Ver. 2.2.0 Release date 25 Jun 2020	**New Functionalities:** • added BACnet File Transfer Speed setting. **Fixed Bugs:** • fixed problem with reupload application created in FCU with FW ver. 2.1.

iSMA-B-FCU Software Bundle 2.2.2   27 Jan 2020

The list below contains modifications and new features since the release of software bundle version 2.2.2.

NAME	DESCRIPTION
iSMA-B-FCU Ver. 2.1 Release date 27 Jan 2020	**Improvements:** • added possibility to invoke actions CopyFromDefaultToNV and CopyFromNVToDefault remotely; • added new kit iSMA Building with Sunblind and AdvanceSunblind components. **Fixed Bugs:** • SlaveNetwork BACnet DeviceName slot is updated by the change of the BACnet Object Name property; • NV components are getting status Fault when trying to add the component if the application already have limited quantity of components (slot Free NV Boolean/Numeric in plat service); • NVNetNumeric and NVNetBoolean components facet MAX for slots Analog/Binary Value Id updated for proper number (230/240 instead of 200); • iSMA-FCU kit FanControl component fixed for restarting fan work after getting signal about closed windows and changing FanMode setting at the same time.

iSMA-B-FCU Software Bundle 2.2.0   25 Sep 2018

The list below contains modifications and new features since the release of software bundle version 2.2.0.

NAME	DESCRIPTION
iSMA-B-FCU Ver. 2.0 Release date 25 Sep 2018	**Improvements:** • BACnet BTL compatible firmware. **Fixed Bugs:** • fixed stopping communication if a Slave Device answers with a Service Error Telegram; • list of BACnet services in Device Object updated according to BTL requirements; • fixed lifetime out of range detection in COV subscription; • fixed database revision incrementation after any BACnet ID change; • fixed Device Objects properties for compatibility with BTL requirements; • fixed components in kit iSMA_RoomDevices_Modbus such as SubmenuNumeric, SubmenuBoolean, MainMenuNumeric, MainMenuBoolean; • fixed FanControl and PWM components in kit iSMA_FCU; • fixed components in kit iSMA_RoomDevices_Modbus related to the problem when connecting the LP panel.

The list below contains modifications and new features since the release of software bundle version 2.1.1.

NAME	DESCRIPTION
FCU Updater Ver. 2.1.1 Release date 30 Apr 2018	**New Functionalities:** • added Application State (with error codes) to the table with lists of all devices (Device Table). From now it is possible to see if the Application in the controller is running without any issue. The Application State shows the current state of SVM (Sedona Virtual Machine) including details information related to bootstrap, image, system, application, component, and runtime errors; • changed colouristic of the Device Table to clearly inform about current device status. **Improvements:** • better diagnostic for errors in connected devices thanks to introduction new way of colours for Device Table. **Fixed Bugs:** • fixed problem with restoring the backup to one device – backup marked as „After" often was corrupted after restoring backup process; • for direct connection by USB cable fixed to show incorrect values in BACnet ID, MAC Address, Firmware Version; • for direct connection by USB cable fixed problem showing that multiple devices are connected; • solved the situation with the refreshment of USB connected device while there is an active connection enable on Modbus/BACnet protocol.

The list below contains modifications and new features since the release of software bundle version 2.1.0.

NAME	DESCRIPTION
iSMA-B-FCU Ver. 1.4 Release date 13 Mar 2018	**New Functionalities:** • added SVM state (with error codes) available on Modbus register 99 and on BACnet in object Device, as property 5002. **Improvements:** • immediate getting and displaying new values in NVNet components after calling "Copy from Default to NV" and "Copy from User to NV"; • printing console messages improved. **Fixed Bugs:** • starting big applications, which failed during update from FW1.1 to FW1.3; • writing NV values to EEPROM; • upgrade of FW for new hardware; • default setting doesn't cause wrong 0 values on Modbus; • crashing the application during updating procedure for multiple devices; • FCU PID component behaviour after restarting SVM; • FCU PID and PI components calculating start value; • FCU PID component out value while slot is "Disabled".
Default Application Ver. 2.2 Release date 13 Mar 2018	**New Functionalities:** • added network variable Valves_dead_band (BACnet AV:39; Modbus 139); • dead band for PI Control Implemented in default application. **Improvements:** • application sets for slaves in BACnetMasterSlave Network value of FCU_Mode as Heating_only or Cooling_only related to Master's present value of Heating/Cooling mode.

The list below contains modifications and new features since the release of software bundle version 2.0.0.

NAME	DESCRIPTION

iSMA-B-FCU Ver. 1.3 Release date 14 Sep 2017	**New Functionalities:**
	• created new kit iSMA_Advanced with components:
	   o RaiseLower for actuator open/close control signals;
	   o Dimmer Switch for single or double switch dimming control;
	   o Action Trigger for remote calling action of any component in application;
	• added new kit iSMA_RoomDevices_Modbus with several components for iSMA-B-LP Room Panel operation optimization.
	Improvements:
	• improved stability and functionality of FCU_FanControl component;
	• improved switching Return and Space Sensors in FCU_Temperature_Sensor_Switch;
	• limiting of values from forbidden ranges in several components of various kits;
	• slaves addresses range expanded by Local Remote Auto Binding mode in FCU_MasterSlave component.
	Fixed Bugs:
	• default Settings called remotely (e.g., by FCU_Updater);
	• FCU_EffectiveSetpointCalculator component for Standby Offset;
	• FCU_OutputSwitch component for Second Stage control;
	• NaN value in NVNetNumeric and NVnetBoolean components.

FCU Updater Ver. 2.0 Release date 14 Sep 2017	First release.

The list below contains modifications and new features since the release of software bundle version 1.1.0.

NAME	DESCRIPTION
Default Application Ver. 1.6 Release date 9 Feb 2017	**New Functionalities:** • added ability of manual control of the outputs from a remote system (BMS); • added ability of monitoring of the control signal values and the outputs' states in the iSMA-B-LP; • added new network variables in order to extend the possibility of the iSMA-B-LP configuration from a remote system (BMS). **Improvements:** • functions and components implemented in default application improvements. **Fixed Bugs:** • analog outputs links; • anti-frost function for binary control; • test mode function for binary control.

The list below contains modifications and new features since the release of software bundle version 1.0.0.

NAME	DESCRIPTION
Default Application Ver. 1.6 Release date 9 Feb 2017	First release.