Release Notes

SMART-IOT-KIT v5.00

July 2017

Introduction

This document provides firmware update information for SMART-INTEGRATION-KIT devices, in particular the most popular models: SMART-SENSOR-ETH-POE-TH-BASIC, SMART-SENSOR-ETH-POE-TH-FILTER, SMART-SENSOR-ETH-POE-xT-IP67.

Support

For more information on latest software releases, upgrade procedures, support, contact with your distributor and/or partner or visit www.astozi.com and/or email to support@astozi.com.

Update procedure

Software version 5.00 brings improvements, improvements and new features. You are requested to thoroughly familiarize with the software update procedure.

WARNING !!!

After the software update is done, in most cases, it is necessary to clear the browser cache where the device configuration was performed.

Assignments of devices models to firmware version:

Device model:	Filename:
SMART-SENSOR-ETH-POE-TH-BASIC	SMART- IOT-KIT-ETH-POE-TH-BASE_FW_ALL.BIN
SMART-SENSOR-ETH-POE-TH-FILTER	SMART- IOT-KIT-ETH-POE-TH-BASE_FW_ALL.BIN
SMART-SENSOR-ETH-POE-xT-IP67 (where x = 1,2,4)	SMART- IOT-KIT-ETH-POE-TH-EXPAND_FW_ALL.BIN

Update

To update firmware of the device, please do the following steps:

1. Extract the file with the .BIN extension to a temporary directory.
2. Select the uncompressed file using the "Choose file" option in the firmware section of the Manage -> Maintenance menu.
3. Start the update procedure by pressing the green arrow button.
4. The update lasts for about 5 minutes.
5. After the update procedure is complete, the device will automatically restart.

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New functionality / improvements

This section shows the major improvements in each software release.

Version 5.00
- aggregation module
  - dynamic calculation of dew point and absolute humidity

Version 4.69
- no new functionality

Version 4.68
- integration module
  - support for sharing data via CoAP protocol

Version 4.67
- no release

Version 4.66
- no new functionality

Version 4.65
- added possibility to download MIB file via web interface

Version 4.64
- no new functionality

Version 4.63
- system management module
  - added the Failover IP option - if the DHCP server does not work, the device uses the last saved static IP address

Version 4.62
- no new functionality

Version 4.61
- no new functionality

Version 4.60
- integration module
  - added support for the "Aggregated history" functionality available on devices with SMART-LOGGER software

Version 4.51
- aggregation module
  - added support for SMART-SENSOR-EXT-PROBE-TH-FILTER sensor

Version 4.50
- integration module
  - support for sharing data via SNMP protocol

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- o support for sharing data via MQTT protocol
- o support for sharing data via JSON protocol
- o support for sharing data via CSV file
- system management module
  - o configuration export / import
  - o there is an alert after reboot the device if the time has not been correctly set
  - o logs are daily rotated
  - o support for device management via SNMP
  - o Support for device management via MQTT
- visualization module
  - o improved layout
    - ▪ new menu layout
  - o support for graphs for dynamically added sensors
  - o device status
    - ▪ percentage of usage of internal memory
- aggregation module
  - o support for 1Wire temperature sensors
  - o possibility to change sensor names
  - o possibility to change the frequency of saving historical data

Version 4.04
- add export log file and debug file

Version 4.02
- adding time zone support

Version 4.00
- split firmware into two branches, one branch for standalone devices and one for devices communicating with systemONE solution
- default configuration enable data logger mode
- preview historical data via web interface

Version 3.16
- added option to restore factory settings without changing network configuration

Version 3.14
- no new functionality

Version 3.13
- the uptime of the device is displayed

Version 3.12
- no new functionality

Version 3.11
- no new functionality

Version 3.10
- no new functionality

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Version 3.09
- extension of functionality of detection of thresholds exceeded

Version 3.08
- no new functionality

Version 3.07
- no new functionality

Version 3.06
- information by LED indicator that the assumed thresholds are exceeded

Version 3.05
- adding sending a local address to DCMS Gateway

Version 3.04
- no new functionality

Version 3.03
- no new functionality

Version 3.02
- no new functionality

Version 3.01
- added support for Responsive Web Design (RWD) technology for the web panel

Version 3.00
- support for sharing data via SNMP protocol
- added the support for AUTH PLAIN authorizations when sending email

Version 2.12
- added support for temperatures below zero

Version 2.11
- no new functionality

Bug fixes

This section shows the most important bug fixes in each version of the firmware.

Version 5.00
- fixes in CoAP support
- minor fixes in the web interface

Version 4.69
- fixes in CoAP support

Version 4.68
- minor fixes in the web interface

Version 4.67
- no release

Version 4.66
- minor fixes in the web interface (graphs)

Version 4.65
- fixes in SNMP support

Version 4.64
- fixes in NTP support

Version 4.63
- fixes in the function of configuration restore

Version 4.62
- fixes in the function of settings restore

Version 4.61
- improved support for dynamic sensor detection
- fixes in the web interface

Version 4.60
- fixes in support of SMART-SENSOR-EXT-PROBE-TH-FILTER sensors

Version 4.51
- minor fixes in the web interface

Version 4.50

- management module
  - added "Are you sure" messages for critical operations
  - disabled logging of messages type "Trying to resolve"
  - the default timezone is set to Europe/Warsaw
- visualization module

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  - o added the blocking an interface when an operation is performing
  - o acceleration of graphs generation
- aggregation module
  - o saving the historical data only when NTP is running or the time has been manually set

Version 4.05

- correct time zone support in graphs
- minor fixes in the web interface

Version 4.04

- improved communication with NTP server

Version 4.03

- minor fixes in the web interface

Version 4.02

- fixes when displaying measurement history on Firefox and Internet Explorer browsers

Version 4.01

- fixes when displaying software update status

Version 4.00

- split firmware into two branches, one branch for standalone devices and one for devices communicating with systemONE solution

Version 3.16

- fixes in input parameters validation
- DNS queries fixes

Version 3.15

- fixes in displaying dashboard on mobile devices
- patches for communication between dcms mote and dcms gateway

Version 3.14

- patches for communication between dcms mote and dcms gateway

Version 3.13

- new web interface layout
- patches in the www interface

Version 3.12

- reducing delays in measurements
- changes to the OID tree for SNMP to ensure compatibility with Axence nVision software
- fixes in MIB file

Version 3.11

- fixes in configuration of threshold values
- minor fixes in the web interface

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SMART-IOT-KIT

Version 3.10
- patches in SNMP agent

Version 3.09
- fixes in displaying graphs
- patches for displaying dashboard on mobile devices

Version 3.08
- fixes for the measurement of temperatures below zero

Version 3.07
- patches for communication between dcms mote and dcms gateway

Version 3.05
- no fixes

Version 3.04
- patches for communication between dcms mote and dcms gateway

Version 3.03
- validation of input data in email configuration

Version 3.02
- changing the firmware upgrade procedure
- improved handling of the TCP / IP stack

Version 3.01
- displaying the information about running synchronization procedure with dcms gateway

Version 3.00
- improved graph display when no time synchronization with NTP server or manual time is set
- minor fixes in the web interface

Version 2.12
- improved software update procedure (support for weak and unstable internet connections)
- added support for temperatures below zero

Version 2.11
- improved silent mode operation - sensor failure is always signaled by a buzzer