

# Vertiv™ Wireless Sensor Network (WSN)

## Firmware Release Notes

VERSION 1.1, OCTOBER 2021

### Release Notes Section Outline

1. Features and Enhancements
2. Updating Your Firmware

### 1. Features and Enhancements

The Vertiv™ Wireless Sensor Network (WSN) version 1.1 firmware release adds Modbus TCP communication functionality, refines sensor configurations within the Web User Interface (Web UI) and enhances configuration settings to the WSN-GATEWAY.

This firmware release includes the following updates:

- Added Modbus TCP as another BMS-level protocol; it resides under the new BMS tab in the Web UI.  
**NOTE: Both SNMP and Modbus TCP are able to operate at the same time.**
- Resolved an issue requiring two refresh clicks to correct the Device Table ghosting issue; only one refresh click is now needed.
- Sensor configuration updates:
  - Disabled the ability to manually select *Remote Temperature Probe* or *Remote Door Switch* in the Flex I/O 1 configuration dialog box. Remote probes are strictly driven by the auto detect feature, where the probe is inserted into the FLEXio connector and the sensor rejoins the network. Text instructions are added to assist with setup.
  - Reformatted the Edit Sensor Configuration dialog box to improve use of the “Apply Settings to All Sensors...” feature. Motion, FLEXio 1 and FLEXio 2 are now part of a separate configuration and are no longer included with the group that is applied to all sensors. The Update Rate, Beeper and Units group is now the only one that may be applied to all sensors to ensure any custom Motion or FLEXio setting is not wiped out with global Update Rate changes.
  - Identified and resolved an issue with the sensor configuration not working when Java Web Token (JWT) expires after 24 hours. Code is now added to get a new JWT if there is a communications failure after the JWT expires. Code is also added to provide a new JWT every time the WSNConnect switch is turned on and/or every time the *Upload File* button is selected within the Import System Settings.  
**NOTE: In older versions, instructions were missing for Import System Settings; instructions are added in this version.**
- Configuration settings updates:
  - Added updateConfigTrap to SNMP.
  - Added a “getBatterySaverMult” setting used by Vertiv™ Liebert® iCOM™-S to adjust the staleness timeout for sensors with Battery Saver Mode enabled. The timeout is based on the Battery Saver Mode algorithm.
  - Added Data Logging functionality; a new Data Logging tab for logging sensor data and transferring it to the Downloads folder on the client PC is now added to System Settings.

## 2. Updating Your Firmware

The latest firmware is available for download at [www.vertiv.com](http://www.vertiv.com) or by contacting your Technical Support representative.

To update your firmware:

1. Visit <https://www.vertiv.com/en-us/support/software-download/monitoring/wsn/vertiv-wireless-sensor-network-firmware-downloads/> and download the version 1.1 firmware.

**NOTE: If the firmware is not available at this location, please contact your Technical Support representative.**

2. Log on to the WSN-GATEWAY.
3. Select the *Gateway* tab, then click *Select File*.
4. Navigate until you locate the previously downloaded, applicable firmware zip file; select the encrypted zip file and upload.  
**NOTE: Since the firmware zip file is encrypted, it cannot be unzipped by any Windows utility.**