Release Notes

Smart Gateway Platform Firmware

Release 63998-20561 (1.0.17)

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Guardian Management Gateway user documentation applicable to this release

The *Guardian Management Gateway User Guide* document from the 63998-20560 (1.0.16) release remains applicable for this release. The *Guardian Management Gateway Command Line Interface Specification* document from the 63998-20559 (1.0.15) release remains applicable for this release.

New and changed features since release 63998-20560 (1.0.16)

1. Implemented decimal scaling for analog controls; values of these analog controls are presented to a user as real values, but internally are stored as integer numbers scaled by a corresponding degree of 10. Implemented APIs *smrHpiControlAnalogFloatSet()*, *smrHpiControlAnalogFloatGet()*, *smrHpiControlAnalogRangeFloatGet()* and the OID *ctrlScalingFactor* for SNMP. Implemented "UseScaling" attribute for such controls in Modbus JSON framework.
2. Added support for a configurable table of alarm names; names are mapped to specific sensor or resource events and are associated with the alarms generated by these events. Implemented API *smrHpiAlarmGetName()* to obtain the alarm name for a specific resource, sensor and state.
3. Added support for Modbus sensors mapped to a bit field of the corresponding register.
4. Added support for "reversed halfwords" mode for Modbus "long word" sensors and controls (mapped to two adjacent registers).
5. Added support for logical removal of RTU-connected Modbus devices (via CLI and Web interface).
6. In the Modbus driver for the TTSIM leak detection device, added support for cable segments and for retrieving leak location relative to the corresponding segment.
7. In the Modbus JSON framework, added support for device probing by reading a specific register.
8. In event filter action expressions, the CONTROL() term now allows using a symbolic name from the event filter as a resource number (for event filters handling multiple resources of the same type).
9. Implemented the "Detection Resistance" sensor for TTSIM-1A devices.
10. Support for indexed variables has been added to expressions.

Bug Fixes

1. Values for discrete (state) controls were not checked against the allowed range when being set.
2. Privileges could be handled incorrectly for users without the privilege "View User Settings".

3. Sensor assertion delays could be saved / restored incorrectly.

4. Modbus controls mapped to coil registers could be set incorrectly.

5. A 1-wire device identification record with only one item could be incorrectly considered wrong.

6. Incorrect return code "Not Present" was returned from the API *smrHpiIPv4AddressSet()* in the case of an incorrect subnet mask.

7. The "Leak Location" sensor at TTSIM-1A devices could generate wrong events.

8. Sensor offset was not applied to the sensor reading value before checking for threshold crossing. Also, sensor offset was not a persistent parameter.