Release Notes

Smart Gateway Platform Firmware

Release 63998-20559 (1.0.15)

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Guardian Management Gateway user documentation applicable to this release

The *Guardian Management Gateway User Guide* and the *Guardian Management Gateway Command Line Interface Specification* documents have been updated for this release.

New and changed features since release 63998-20558 (1.0.14)

1. This release includes updates to the Linux distribution that includes the following specific changes:

   - Set the initial voltage selector for *vddpcie* to avoid a kernel warning about failing to read a default voltage selector. The corresponding patch was back-ported from the mainline kernel release.

   - In U-Boot, if the CPU junction temperature is above 100°C the frequency is temporarily reduced to 198 MHz, which will allow the CPU to cool down and continue booting. Once the kernel is loaded the Linux thermal governor algorithm will throttle the CPU frequency as needed to limit the CPU junction temperature.

2. Assertion and Deassertion delays have been implemented for all sensor types. The CLI commands *sensor assertion_delay* and *sensor deassertion_delay* have been implemented.

3. The *smrHpiExpressionEvaluate* API call now returns *INVALID_STATE* instead of *INVALID_PARAMS* if the expression itself is valid but cannot be properly resolved or evaluated.

4. When SGP is configured for connecting to AWS Greengrass, the Greengrass server IP address or host name is now shown in the status line of the Web interface and in the output of the CLI command *system iot*.

5. The SSH server configuration has been updated to disable weak hash-based message authentication algorithms (security enhancement).

6. The web server configuration has been updated to enable the "OPTIONS" method for Redfish.

Bug Fixes

1. The Reboot Reason sensor events at system startup were not handled by filters.

2. The Reboot Reason sensor values were not propagated to AWS in the case of subscription for periodic sensor readings.

3. When configuring SGP for connecting to AWS Greengrass, the Greengrass server address (if different from "localhost") could be handled incorrectly.

4. Aggregate functions in expressions could be calculated incorrectly (the result value could incorrectly be assumed to be a string).

5. Found and fixed possibilities of hack injection (in particular, a security issue with injecting a command into the SEL exported as a CSV-file has been fixed).

6. In the Web and CLI interfaces the Redfish port number could be set; this is wrong since this port number is read-only and bound to the HTTPS port.

7. Several issues have been identified and fixed in the Redfish service, namely:

   - A user session could be closed after the timeout expiration, even if not idle.

   - The Manager.Reset action was not implemented.

   - Timestamps in Redfish events could be invalid.

   - An invalid Destination field in an event subscription could lead to a crash of the Redfish daemon.

   - A "Resource Removed" event could incorrectly be reported as "Resource Added" event.

   - "Resource Changed" events for sensors, effecters, resources could be incorrectly generated when the object status wasn't changed, and not generated when the object status was changed.