



Intel® Rack Scale Design RMM

Release Notes

Rack Scale Design Software v1.2

December 2016

Revision 006



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Revision History

Revision	Description	Date
1.6	Update to new RMM 1.2.6.17 version	December 7, 2016
1.5	Update to new RMM 1.2.6.9 version	September 6, 2016
1.4	Update to new RMM 1.2.6.6 version	August, 3, 2016
1.3	Update to new RMM 1.2.6.5 version	June 21, 2016
1.2	Update to new RMM 1.2.6.3 version	April, 1, 2016
1.1	Update to new RMM 1.2.5.3 version	March 3, 2016
1.0	Final Version	December 23, 2015
0.4	Minor Change	December 23, 2015
0.3	Minor Change	December 22, 2015
0.2	Minor Change	December 21, 2015
0.1	Initial Release	December 16, 2015

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1 Introduction

The release notes are intended to accompany the RMM reference stack release 1.2.6.x of the Intel® Rack Scale Design.

1.1 RMM package contents

Table 1 lists the contents of the release package.

Table 1 Software package for RMM 1.2

Title	Notes
Release Notes RMM Reference Stack	This document
Intel® Rack Scale Design Generic Asset Management Interface	JSON-RPC API specifications to communicate with the Generic Asset Management Modules
RMM REST-API Specification	RMM REST API specifications
RMM Reference Stack User guide	User Guide
RMM_1.2.6.17.zip	RMM reference stack sources
License.txt	Apache License, Version 2.0

Customers should check <https://github.com/01org/intelRSD> to download the latest available onboard device drivers, system firmware, and system software. For further assistance, please contact the Intel Field Representative.

1.2 Revision numbers of RMM package components

Table 2 Revision numbers of the RMM Reference Stack Release components

Subproject (component)	Revision
Intel® RMM	RMM_1.2.6.17

1.3 References

Table 3 Reference documents

Doc ID	Title	Location
332868	Intel® Rack Scale Design GAMI API Specification	http://intel.com/intelRSD
332869	Intel® Rack Scale Design Pod Manager REST API Specification	http://intel.com/intelRSD
332870	Intel® Rack Scale Design Pod Manager Release Notes	http://intel.com/intelRSD
332871	Intel® Rack Scale Design Pod Manager User Guide	http://intel.com/intelRSD
332873	Intel® Rack Scale Design PSME REST API Specification	http://intel.com/intelRSD
332872	Intel® Rack Scale Design PSME Release Notes	http://intel.com/intelRSD
332874	Intel® Rack Scale Design PSME User Guide	http://intel.com/intelRSD
332877	Intel® Rack Scale Design RMM REST API Specification	http://intel.com/intelRSD
332876	Intel® Rack Scale Design RMM Release Notes	http://intel.com/intelRSD
332875	Intel® Rack Scale Design RMM User Guide	http://intel.com/intelRSD
332878	Intel® Rack Scale Design Storage Services API Specification	http://intel.com/intelRSD
332936	Intel® Rack Scale Design BIOS/BMC Tech Guide	http://intel.com/intelRSD
332937	Intel® Rack Scale Design Architectural Requirements Specification	http://intel.com/intelRSD
334611	Intel® Rack Scale Design Getting Started Guide	http://intel.com/intelRSD
n/a	Scalable Platforms Management API	http://dmtf.org/standards/redfish



2 New Features

2.1 Change logs for v1.2 release

Beside stability improvements, the RMM 1.2 (RMM_1.2.6.17) release introduces the following features:

- Replaced sup:readOnly attributes with odata.permission to indicate read-only properties.
- Changed Oem child property name from Intel:RSA or Intel:Rackscale to Intel_RackScale.
- Property Description cannot be patched now.
- Changed property name from DeliveryRetryIntervalInSeconds to DeliveryRetryIntervalSeconds.
- Property Status moved from Vlan:Status to Vlan:Oem:Intel_RackScale:Status.
- Property ManagerForMBP moved from Links to Links:Oem:Intel_RackScale:ManagerForMBP property.
- Property ContainedBy moved from Chassis:Links to Chassis:Links:Oem:Intel_RackScale:ContainedBy property.
- Added odata.id property to Subscriptions collection.
- After installation RMM metadata can be found at: /var/rmm/web/redfish/v1/Metadata/

2.2 Limitations

The following list describes all the limitations for this release. (Described limitations are target for future releases.)

1. The items listed below differ from the REST API Specification 1.0:
 - Values of Inlet TemperatureCelsius, Outlet TemperatureCelsius VolumetricAirflow depends on ptas and currently is 0
 - Values of PowerConsumeWatts and PowerOutputWatts from pmbus reading and might be wrong if pmbus provides an invalid value
 - Status of Outlet Temperature is disabled since there is no sensor for outlet temperature.
2. Remotely update CM component will always return successful even with wrong image since there is no method to check the update status for CM remotely.
3. Only PSU health status is supported for health status check since it's the only smart device. PSU support fan alert and temperature alert for health status check.
4. Memdb snapshot may mismatch between two different version of RMM firmware while updating, its required to remove memdb snapshot before restarting RMM service by following commands:

```
sudo rm /var/memdb/* -f
```





3 Known Issues

Table 4 lists and describes possible statuses of known issues in this release:

Table 4 Status definitions

Status	Description
Under investigation	The sighting is being investigated.
Root cause identified	The root cause for the defect is identified.
Workaround available	A temporary solution to the defect is provided until the bug is fixed.
As designed	The issue reported is not a defect and the behavior will not be modified.
Closed no repro	The situation was not observed anymore and no further investigation is scheduled.
Fixed	The defect has been fixed.

Table 5 presents problems and issues found during testing of this release.

Table 5 Known issues

Issue	Description
HSD 88210	Update event cannot be received from RMM.
Problem	Event from update RMM firmware may not be receive in some test stages
Implication	Subscriber should get event for RMM update always
Note	Network issue
Workaround	N/A
Disposition	Under Investigation
HSD 98957	CCB committee needs to consider adding the requirement of the RMM to specify the SLEDs serial config.
Problem	RMM can specify 1 of 4 SLEDs, but the configuration of the SLED is in an arbitrary state.
Implication	This issue concerns the Port /dev/ttyCm1Serial device, which is actually Port /dev/ttyACM1. It requires 3 components to be configured to receive and send over the port.
Note	N/A
Workaround	N/A
Disposition	Under Investigation
HSD 101445	RMM REST API does not provide metadata as expected according to the specification.
Problem	Properties "@odata.context" in the RMM REST API has link to empty resource.
Implication	User is not able to see metadata through rest API.
Note	N/A
Workaround	REST API can be checked with metadata published in a separate file.
Disposition	Root cause identified
HSD 101471	VTS reports unallowable values in MessageRegistry in RMM REST API.
Problem	MessageRegistry API is not complainant with Redfish specification.
Implication	MessageRegistry resource has additional properties not allowed in Redfish specification.
Note	N/A
Workaround	N/A
Disposition	Fixed
HSD 101475	VTS reports wrong status code in PATCH test.
Problem	Some of the properties cannot be patched in Chassis resource.
Implication	Model, SerialNumber, PartNumber, Id, Name, ChassisType, Manufacturer properties cannot be patched.
Note	N/A



Workaround	N/A
Disposition	Root cause identified
HSD 101526	RMM API mismatch with metadata file.
Problem	REST API shows incorrect information about allowed methods on properties.
Implication	REST API will show some properties (AssetTag, RackPUID, GeoTag, etc) as patchable but according to specification they should not be.
Note	N/A
Workaround	User should not use PATCH method on this properties.
Disposition	Root cause identified
HSD 102177	Memory leak result in room case on RMM running.
Problem	Running RMM with overnight testing, and found available (+cached) continue to drop without releasing.
Implication	After a long uptime RMC can run out of memory.
Note	N/A
Workaround	Disable this function: notify_psu_power_out_change(); or restart Assetd binary periodically.
Disposition	Under Investigation
HSD 73690	Value of PresentTemperatureCelsius OutletTemperatureCelsius VolumetricAirflow is 0.
Problem	Cannot read temperature and airflow.
Implication	REST API will not show correct values for present, outlet temperature and airflow.
Note	N/A
Workaround	N/A
Disposition	Under Investigation
HSD 102854	VTs found unrecognized odata.type in few resources.
Problem	Five resources have incorrect odata.type in OEM property REST API: Vlan, Chassis, PowerZone, PowerSupply, Thermal
Implication	Validating REST API of this resources with metadata will fail.
Note	N/A
Workaround	N/A
Disposition	Fixed

Table 6 lists APIs which have changed since the last release. These are expected to cause issues with existing code.

Table 6 Status definitions

API	Ww26 release	Ww38 release	Comment
Event Service			Changed property name: DeliveryRetryIntervalInSeconds to DeliveryRetryIntervalSeconds
Manager resource			ManagerForMBP moved to OEM property.
Chassis resource			ContainedBy moved to OEM property.
Vlan resource			Status moved to OEM property.

