



Intel® Rack Scale Design PSME

Release Notes

Software Version 2.1.3

May 2017

Revision 001



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Revision History

Revision	Description	Date
001	Initial Release.	May 08, 2017

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1 Introduction

These release notes are intended for the Intel® Rack Scale Design (Intel® RSD) PSME v 2.1.3.59.0 May 2017 release of Intel® RSD.

1.1 Software package contents

Table 1 lists the contents of the release package.

Table 1 Software package for Intel® RSD v2.1.3

Title	Description
Intel® Rack Scale Design Version 2.1.3 PSME Release Notes	This document
Intel® Rack Scale Design Version 2.1.3 PSME User Guide	User Guide
Intel® Rack Scale Design Version 2.1.3 Generic Asset Management Interface (GAMI)	JSON-RPC API specifications to communicate with GAMI Modules
Intel® Rack Scale Design Version 2.1.3 PSME REST API Specification	PSME REST API specifications
Intel® Rack Scale Design Version 2.1.3 Storage Service REST-API Specification	Storage Service REST API specifications
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 package components

Table 2 Revision numbers of Beta release components

Subproject (component)	Revision
Intel® Rack Scale Design PSME	RSD_PSME_2.1.3.59.0



1.3 References

Table 3 Reference documents

Doc ID	Title
335451	Intel® Rack Scale Design Generic Assets Management Interface API Specification
335452	Intel® Rack Scale Design BIOS & BMC Technical Guide
335501	Intel® Rack Scale Design Architecture Specification
335454	Intel® Rack Scale Design Software Reference Kit Getting Started Guide
335455	Intel® Rack Scale Design Pod Manager API Specification
335456	Intel® Rack Scale Design Pod Manager Release Notes
335457	Intel® Rack Scale Design Pod Manager User Guide
335458	Intel® Rack Scale Design PSME REST API Specification
335459	Intel® Rack Scale Design PSME Release Notes
335460	Intel® Rack Scale Design PSME User Guide
335461	Intel® Rack Scale Design Storage Services API Specification
335462	Intel® Rack Scale Design Rack Management Module (RMM) API Specification
335463	Intel® Rack Scale Design RMM Release Notes
335464	Intel® Rack Scale Design Software RMM User Guide
n/a	Scalable Platforms Management API

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2 New Features

2.1 New features for v2.1.3 release

Besides stability improvements, the Intel® RSD v2.1.3 (RSD_PSME_2.1.3.59.0) release introduces the following features:

- iSCSI Out of Band Booting - booting from iSCSI Targets without using PXE,
- CHAP Authentication – storage services enable management of CHAP authentication for iSCSI Targets.

For details/limitations on above features refer to User Guide.

2.2 Limitations

The following list describes all the limitations for this release. Described limitations are targeted for future releases:

- The code was verified with Bulldog Creek (BDC) and Red Rock Canyon (RRC) switch hardware. For details on BDC and RRC firmware versions, contact your Intel representative.
- REST API
 - Some of the information on the REST API is not discovered from hardware, but instead is read from configuration files which the user must set up according to the User Guide.
- GAMI API
 - The following commands are not supported:
 - Get Power Zone Info
 - Set Power Zone Attributes
 - Get PSU Attributes
 - Set PSU Attributes
 - Get Thermal Zone Info
 - Get Fan Info
 - Get Fan Attributes
 - Set Fan Attributes





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 of 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 is 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
HSD110545	Patching only with any non base Endpoints creates two tasks.
Problem	Accepts PATCHes on the Zone endpoints that simultaneously add and delete ports
Implication	This creates two tasks (instead of one, as specified in the PSME REST specification) and may lead to data inconsistency and service failure
Note	N/A
Workaround	Instead of sending only one PATCH, request should be divided into two PATCH requests, one for all endpoints to be added to the zone, and the second for all to be removed from the zone
Status	Workaround available
HSD110651	Actions field missing in Managers API of PSME
Problem	Inconsistency in DMTF Redfish specification
Implication	Fields are not available on API
Note	Need also fix in DMTF Redfish specification
Workaround	N/A
Status	Root cause identified
HSD110654	Mandatory fields missing in Managers API of PSME
Problem	Inconsistency in DMTF Redfish specification
Implication	Fields are not available on API
Note	Need also fix in DMTF Redfish specification
Workaround	N/A
Status	Root cause identified
HSD106204	After deep discovery PSME REST API shows less PciDevices than expected
Problem	DeepDiscovery feature shows more of PCI devices than Basic Discovery
Implication	Inconsistency in devices numbers on API
Note	N/A
Workaround	N/A
Status	Root cause identified.
HSD110396	ClassCode attribute in Functions API is incorrect
Problem	Defect in DMTF Redfish specification
Implication	Language typo in API. PSME client must be aware
Note	API is consistent with DMTF Redfish specification
Workaround	N/A



Issue	Description
Status	Root cause identified
HSD106164	Slowpoll destroys user experience
Problem	Slowpoll destroys user experience
Implication	User needs to wait until slowpoll fetches all resource
Note	N/A
Workaround	N/A
Status	As designed
HSD110281	Pod does not detect Storage
Problem	Network interface driver has an issue
Implication	Network interface of Storage Service does not get IP
Note	N/A
Workaround	Wait about 10 min: Assemble and disassemble one more time
Status	Workaround available
HSD111437	PATCHing null on DriveErased returns Bad request
Problem	PATCHing null on DriveErased returns Bad request
Implication	PATCHing null on DriveErased returns Bad request
Note	N/A
Workaround	N/A
Status	Root cause identified
HSD111454	Cannot PATCH System Boot to Disable or None
Problem	Cannot PATCH System Boot to Disable or None
Implication	Cannot PATCH System Boot to Disable or None
Note	This has no implication on hardware
Workaround	N/A
Status	Root cause identified
HSD111471	PSME PNC configuration file has wrong default value
Problem	PSME PNC configuration file has wrong default value
Implication	PSME REST Server exposes service name as Storage Services instead of PNC. PODM does not properly connect rack chassis' (contendBy property will be null)
Note	This has no implication on hardware.
Workaround	Change to proper value in config file after installation
Status	Root cause identified
HSD110608	Detach with EOD "true" does not erase nvme drive content
Problem	Drives that have a secure erase setting (SES) limit cannot be reformatted upon reaching a permitted number of reformatting cycles
Implication	Once the drive reaches its format limit, further attempts to format the drive with either option SES=1 or SES=2 will return an error and the drive will not be reformatted
Note	Contact your Intel account representative for details
Workaround	N/A
Status	Under Investigation
HSD115767	PSME Rest returned 500 error when deleting ACL (3-10)
Problem	During stress tests deleting 3 out of 10 previously created ACLs, PSME REST server returns error code.
Implication	User is unable to remove ACLs from the REST API
Note	Seen sporadically. 'acl show' reported no ACLs on the HW. Probably ONPSS or HW/RRC issue.
Workaround	N/A
Status	Root cause identified
HSD115628	There is no TargetLUN in master target
Problem	TargetLUN API field is empty while it shouldn't.



Issue	Description
Implication	User cannot use the remote target.
Note	Seen sporadically. Storage Service reads LUNs from TGT.
Workaround	Restart tgt service
Status	Root cause identified
HSD115650	Name is not set during creating new Logical Drive
Problem	When creating new logical drive user can give a unique name to the drive, but that name is not stored. Get operation always returns default name "Logical Drive".
Implication	User cannot identify created Logical Drive by the name it was used during drive creation.
Note	LVM limitation (3rd party component), cannot be fixed in PSME
Workaround	N/A
Status	Root cause identified
HSD116770	Allocation and assembly of Node to local mSATA results in failed Node state
Problem	Node assembly fails sporadically.
Implication	Seen sporadically: Fail to assemble node.
Note	Sleds may momentarily disappear when SMBIOS data is updated, resulting in assembly failure.
Workaround	Delete and again assemble node
Status	Under Investigation
HSD116940	Node deletion fails with http 500
Problem	Running allocation/deletion of nodes in a loop test failed to delete node.
Implication	Seen sporadically: Fail to delete node after 227 iterations
Note	May be related to HSD116770.
Workaround	Repeat delete action
Status	Under Investigation
HSD116901	Storage: 503 ServiceUnavailable while creating logical drive
Problem	The storage service was unavailable.
Implication	Unable to create logical drive
Note	Waiting for debug logs, environment information for reproduction. Possible duplicate of HSD110281.
Workaround	Check connection/restart storage service.
Status	Under Investigation
HSD116918	No information about spaces in Initiator and Target from NetworkDeviceFunction in metadata
Problem	Clarification of naming rules for Initiator and Target JSON properties.
Implication	Initiator and Target JSON properties naming rules.
Note	Waiting for DMTF resolution of issue: https://github.com/DMTF/spmf/issues/2029
Workaround	Do not use spaces in mentioned JSON properties.
Status	Root cause identified
HSD116921	Wrong annotation term in few properties in NetworkDeviceFunction.xml in metadata
Problem	Typo in metadata definition of NetworkDeviceFunction in validation annotation.
Implication	Maximum allowed value for some properties is not defined in metadata.
Note	N/A
Workaround	Use maximum RFC defined values for TCP Port and VLAN Id.
Status	Root cause identified

3.1 API changes

There were no API changes in this release.





4 Addendum – Intel® RSD PSME Release Notes Software Version 2.1

4.1 Introduction

These release notes are intended for the Intel® Rack Scale Design (Intel® RSD) PSME v 2.1.231.0 January 2017 release of Intel® RSD.

4.1.1 Software package contents

Table 6 lists the contents of the release package.

Table 6 Software package for Intel® RSD v2.1

Title	Description
Intel® Rack Scale Design Version 2.1 PSME Release Notes	This document
Intel® Rack Scale Design Version 2.1 PSME User Guide	User Guide
Intel® Rack Scale Design Version 2.1 Generic Asset Management Interface (GAMI)	JSON-RPC API specifications to communicate with GAMI Modules
Intel® Rack Scale Design Version 2.1 PSME REST API Specification	PSME REST API specifications
Intel® Rack Scale Design Version 2.1 Storage Service REST-API Specification	Storage Service REST API specifications
License.txt	Apache License, Version 2.0

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4.1.2 Revision numbers of package components

Table 7 Revision numbers of Beta release components

Subproject (component)	Revision
Intel® Rack Scale Design PSME	RSD_PSME_2.1.231.0

4.1.3 References

Table 8 Reference documents

Doc ID	Title
335451	Intel® Rack Scale Design Generic Assets Management Interface API Specification
335452	Intel® Rack Scale Design BIOS & BMC Technical Guide
335501	Intel® Rack Scale Design Architecture Specification
335454	Intel® Rack Scale Design Software Reference Kit Getting Started Guide
335455	Intel® Rack Scale Design Pod Manager API Specification
335456	Intel® Rack Scale Design Pod Manager Release Notes
335457	Intel® Rack Scale Design Pod Manager User Guide
335458	Intel® Rack Scale Design PSME REST API Specification
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335460	Intel® Rack Scale Design PSME User Guide
335461	Intel® Rack Scale Design Storage Services API Specification
335462	Intel® Rack Scale Design Rack Management Module (RMM) API Specification
335463	Intel® Rack Scale Design RMM Release Notes
335464	Intel® Rack Scale Design Software RMM User Guide



Doc ID	Title
n/a	Scalable Platforms Management API

4.2 New Features

4.2.1 New features for v2.1 release

Besides stability improvements, the Intel® RSD v2.1 (RSD_PSME_2.1.231.0) release introduces the following features:

- Updated PSME GAM Modules updated to Intel® RSD Generic Asset Management Interface.
- Redfish API – Intel® RSD PSME Manager API and Schema build on top of Redfish API 2016.2
- PNC Switch support – user is able to see Fabric model data exposed by PNC service
- Discovery service is based on both DHCP and/or SSDP
- Support for MF3 platform

4.2.2 Limitations

The following list describes all the limitations for this release. Described limitations are targeted for future releases:

- The code was verified with the following:
 - Bulldog Creek with Red Rock Canyon switch hardware
 - Haswell BMC version 3.08
 - Haswell BIOS version F20A3A03.03_A
 - MMP FW version 1.14
 - cyMUX 1.06
 - ONS: 201602091212
 - Coreboot version 0.9.2
 - CM FW version 1.10
 - MYB-IMX28X (ARM926EJ-S based)
 - MF3 Haswell sled BIOS: F20A3A03.03_A
 - MF3 BMC: 1.02
 - MF3 Host: Haswell sled BIOS: F20A3A03.03_A
- REST API
 - Some of the information on the REST API is not discovered from hardware, but instead is read from configuration files which the user must set up according to the User Guide.
- GAMI API
 - The following commands are not supported:
 - Get Power Zone Info
 - Set Power Zone Attributes
 - Get PSU Attributes
 - Set PSU Attributes
 - Get Thermal Zone Info
 - Get Fan Info
 - Get Fan Attributes
 - Set Fan Attributes



4.3 Known Issues

Table 9 lists and describes possible statuses of known issues in this release.

Table 9 Status definitions

Status	Description
Under investigation	The sighting is being investigated.
Root cause identified	The root cause of 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 is not observed anymore and no further investigation is scheduled.
Fixed	The defect has been fixed.

Table 10 presents problems and issues found during testing of this release.

Table 10 Known issues

Issue	Description
HSD91841	Associated switch port to check VLANs during assemble is missing
Problem	During VLAN relation between switch and port is not reported
Implication	User sporadically get confusing reports
Note	PSME
Workaround	No workaround
Status	Fixed
HSD91505	Checking link to port member of LAG returns 500
Problem	Sometimes failure is reported during LAG port creation
Implication	Sometimes HTTP/500 error is reported on PortMembers URL
Note	PSME
Wokaround	No workaround
Status	Fixed
HSD91690	Node was in failed state after assemble action - after 101 assemble
Problem	Sometimes nodes respond invalid assembly state
Implication	Very sporadically node assembly does not work properly
Note	PSME
Wokaround	No workaround
Status	Fixed
HSD92117	addLogicalDrive method is always returning INVALID_PARAMS message on PSME Storage Agent
Problem	Request sent directly via GAMI must contain "Image" property although GAMI API claims it is not mandatory
Implication	Request missing Image property for adding logical drive is discarded
Note	PSME
Wokaround	Always send image name properly
Status	Fixed
HSD91341	PSME_1.2.404.4:MessageId is Null and Message registry details missed in PSME doc
Problem	MessageID is showing as null in PSME eventArray
Implication	Some API attributes differ from PSME Spec
Note	PSME
Workaround	No workaround
Status	Fixed
HSD93663	Documentation: RSD1.2.371.0: ForceOn Option missing in ComputerSystem API (Reset action)



Issue	Description
Problem	ForceOn Option missing in System API which is mentioned in PSME documentation
Implication	ForceOn Option is not available
Note	PSME
Wokaround	User shall use "On" option to power on system
Status	Fixed
HSD93499	Rename TargetIQN via PSME Patch returns http error 400
Problem	Patch is not implemented for TargetIQN
Implication	Patch for TargetIQN cannot be used
Note	PSME
Wokaround	No workaround
Status	Fixed
HSD98270	PSME SwitchID attribute is null after mesh topology configuration
Problem	SwitchID attribute under NeighborInfo in PSME API is listed as null
Implication	SwitchID is still null after drawers were connected by a cable
Note	PSME
Wokaround	No workaround
Status	Fixed
HSD102735	Very sporadically manual triggered DeepDiscovery fails and must be retrigged
Problem	DeepDiscovery fails
Implication	Resources won't be discovered
Note	PSME
Workaround	Rerun
Status	Fixed
HSD11139	Error with patch test script on PSME PNC
Problem	Inconsistency in Redfish specification and mockups
Implication	PSME REST API shows Manager instead of Manager_1_0_0
Note	PSME/Redfish
Workaround	User client application needs to be aware of this issue and accept "Manager" without version number
Status	Under investigation
HSD110545	Patching only with any non base Endpoints creates two tasks.
Problem	Accepts PATCHes on the Zone endpoints that simultaneously add and delete ports
Implication	This creates two tasks (instead of one, as specified in the PSME REST specification) and may lead to data inconsistency and service failure
Note	N/A
Workaround	Instead of sending only one PATCH, request should be divided into two PATCH requests, one for all endpoints to be added to the zone, and the second for all to be removed from the zone
Status	Root cause identified
HSD110651	Actions field missing in Managers API of PSME
Problem	Inconsistency in DMTF Redfish specification
Implication	Fields are not available on API
Note	Need also fix in DMTF Redfish specification
Workaround	N/A
Status	Root cause identified
HSD110654	Mandatory fields missing in Managers API of PSME
Problem	Inconsistency in DMTF Redfish specification
Implication	Fields are not available on API
Note	Need also fix in DMTF Redfish specification
Workaround	N/A



Issue	Description
Status	Root cause identified
HSD106204	After deep discovery PSME REST API shows less PciDevices than expected
Problem	DeepDiscovery feature shows more of PCI devices than Basic Discovery
Implication	Inconsistency in devices numbers on API
Note	N/A
Workaround	N/A
Status	Root cause identified.
HSD110396	ClassCode attribute in Functions API is incorrect
Problem	Defect in DMTF Redfish specification
Implication	Language typo in API. PSME client must be aware
Note	API is consistent with DMTF Redfish specification
Workaround	N/A
Status	Root cause identified
HSD102390	PSME_2.1.109.0:SSDP:NotifyMulticastIntervalSeconds attribute shows null in Network Protocol API of PSME
Problem	In PSME, turning off SSDP multicast notifications is done by setting 'announce-interval-seconds' to zero in configuration
Implication	When notifications are turned off, PSME API displays "NotifyMulticastIntervalSeconds" as null. The apparent mismatch between the 0 and the null may be confusing for some users
Note	N/A
Workaround	N/A
Status	Closed
HSD1110998	PSME 2.1.204.0:StaticMAC patch operation shows internal server error
Problem	Patching StaticMAC returns error code 500 or 501, depending on which attributes are being patched
Implication	Inconsistency in PSME API return codes
Note	The issue is a workaround for a mismatch between PSME and GAMI specifications
Workaround	N/A
Status	Fixed
HSD106164	Slowpoll destroys user experience
Problem	Slowpoll destroys user experience
Implication	User needs to wait until slowpoll fetches all resource
Note	N/A
Workaround	N/A
Status	Root cause identified.
HSD110281	Pod does not detect Storage
Problem	Network interface driver has an issue
Implication	Network interface of Storage Service does not get IP
Note	N/A
Workaround	Wait about 10 min: Assemble and disassemble one more time
Status	Root cause identified.
HSD111437	PATCHing null on DriveErased returns Bad request
Problem	PATCHing null on DriveErased returns Bad request
Implication	PATCHing null on DriveErased returns Bad request
Note	N/A
Workaround	N/A
Status	Root cause identified
HSD109560	After deep discovery PSME REST API shows less Managers than expected
Problem	After deep discovery PSME REST API shows less Managers than expected



Issue	Description
Implication	After deep discovery PSME REST API shows less Managers than expected
Note	N/A
Workaround	User may retrigger Deep Discovery on demand
Status	Root cause identified.
HSD111454	Cannot PATCH System Boot to Disable or None
Problem	Cannot PATCH System Boot to Disable or None
Implication	Cannot PATCH System Boot to Disable or None
Note	This has no implication on hardware
Workaround	N/A
Status	Root cause identified
HSD111471	PSME PNC configuration file has wrong default value
Problem	PSME PNC configuration file has wrong default value
Implication	PSME REST Server exposes service name as Storage Services instead of PNC. PODM does not properly connect rack chassis' (contendBy property will be null)
Note	This has no implication on hardware.
Workaround	Change to proper value in config file after installation
Status	Root cause identified
HSD111422	MEMORY - wrongly VendorID
Problem	VendorID has the same value as Manufacturer
Implication	VendorID has the same value as Manufacturer
Note	N/A
Workaround	N/A
Status	Root cause identified
HSD110608	Detach with EOD "true" does not erase nvme drive content
Problem	Drives that have a secure erase setting (SES) limit cannot be reformatted upon reaching a permitted number of reformatting cycles
Implication	Once the drive reaches its format limit, further attempts to format the drive with either option SES=1 or SES=2 will return an error and the drive will not be reformatted
Note	Contact your Intel account representative for details
Workaround	Contact your Intel account representative for details
Status	Under Investigation

4.3.1 API changes

Release 2.1 of Intel® RSD introduced significant changes in the RESTful API. As a result of these changes, this version of software is not backward compatible. A brief description of changes is listed below.

- Redfish API 2016.2 specification aligned
- Introduced PNC Switch





5 Addendum – Intel® RSD PSME Release Notes Software Version 2.1.2

5.1 Introduction

These release notes are intended for the Intel® Rack Scale Design (Intel® RSD) PSME v 2.1.2.25.0 March 2017 release of Intel® RSD.

5.1.1 Software package contents

Table 11 lists the contents of the release package.

Table 11 Software package for Intel® RSD v2.1.2

Title	Description
Intel® Rack Scale Design Version 2.1.2 PSME Release Notes	This document
Intel® Rack Scale Design Version 2.1.2 PSME User Guide	User Guide
Intel® Rack Scale Design Version 2.1.2 Generic Asset Management Interface (GAMI)	JSON-RPC API specifications to communicate with GAMI Modules
Intel® Rack Scale Design Version 2.1.2 PSME REST API Specification	PSME REST API specifications
Intel® Rack Scale Design Version 2.1.2 Storage Service REST-API Specification	Storage Service REST API specifications
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.

5.1.2 Revision numbers of package components

Table 12 Revision numbers of Beta release components

Subproject (component)	Revision
Intel® Rack Scale Design PSME	RSD_PSME_2.1.2.25.0

5.1.3 References

Table 13 Reference documents

Doc ID	Title
335451	Intel® Rack Scale Design Generic Assets Management Interface API Specification
335452	Intel® Rack Scale Design BIOS & BMC Technical Guide
335501	Intel® Rack Scale Design Architecture Specification
335454	Intel® Rack Scale Design Software Reference Kit Getting Started Guide
335455	Intel® Rack Scale Design Pod Manager API Specification
335456	Intel® Rack Scale Design Pod Manager Release Notes
335457	Intel® Rack Scale Design Pod Manager User Guide
335458	Intel® Rack Scale Design PSME REST API Specification
335459	Intel® Rack Scale Design PSME Release Notes
335460	Intel® Rack Scale Design PSME User Guide
335461	Intel® Rack Scale Design Storage Services API Specification
335462	Intel® Rack Scale Design Rack Management Module (RMM) API Specification
335463	Intel® Rack Scale Design RMM Release Notes
335464	Intel® Rack Scale Design Software RMM User Guide



Doc ID	Title
n/a	Scalable Platforms Management API

5.2 New Features

5.2.1 New features for v2.1.2 release

Besides stability improvements, the Intel® RSD v2.1.2 (RSD_PSME_2.1.2.25.0) release introduces the following features:

- Chassis's Location->ParentID can be now any string as it is configurable from PODM and RMM API
- New versioning scheme of the packages (please check the installation limitations in the next section)

5.2.2 Limitations

The following list describes all the limitations for this release. Described limitations are targeted for future releases:

- The code was verified with the following:
 - Bulldog Creek with Red Rock Canyon switch hardware
 - Haswell BMC version 3.08
 - Haswell BIOS version F20A3A03.03_A
 - MMP FW version 1.14
 - cyMUX 1.06
 - ONS: 201602091212
 - Coreboot version 0.9.2
 - CM FW version 1.10
 - MYB-IMX28X (ARM926EJ-S based)
 - MF3 Haswell sled BIOS: F20A3A03.03_A
 - MF3 BMC: 1.02
 - MF3 Host: Haswell sled BIOS: F20A3A03.03_A
- REST API
 - Some of the information on the REST API is not discovered from hardware, but instead is read from configuration files which the user must set up according to the User Guide.
- GAMI API
 - The following commands are not supported:
 - Get Power Zone Info
 - Set Power Zone Attributes
 - Get PSU Attributes
 - Set PSU Attributes
 - Get Thermal Zone Info
 - Get Fan Info
 - Get Fan Attributes
 - Set Fan Attributes
- Because of the new versioning scheme (2.1.<build_no> -> 2.1.2.<build_no>) user needs to uninstall existing 2.1 PSME packages or force the installation of 2.1.2 package (for example `rpm -U -force <package>`)

5.3 Known Issues

Table 14 lists and describes possible statuses of known issues in this release.



Table 14 Status definitions

Status	Description
Under investigation	The sighting is being investigated.
Root cause identified	The root cause of 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 is not observed anymore and no further investigation is scheduled.
Fixed	The defect has been fixed.

Table 15 presents problems and issues found during testing of this release.

Table 15 Known issues

Issue	Description
HSD111139	Error with patch test script on PSME PNC
Problem	Inconsistency in Redfish specification and mockups
Implication	PSME REST API shows Manager instead of Manager_1_0_0
Note	PSME/Redfish
Workaround	User client application needs to be aware of this issue and accept "Manager" without version number
Status	Fixed
HSD110545	Patching only with any non base Endpoints creates two tasks.
Problem	Accepts PATCHes on the Zone endpoints that simultaneously add and delete ports
Implication	This creates two tasks (instead of one, as specified in the PSME REST specification) and may lead to data inconsistency and service failure
Note	N/A
Workaround	Instead of sending only one PATCH, request should be divided into two PATCH requests, one for all endpoints to be added to the zone, and the second for all to be removed from the zone
Status	Workaround available
HSD110651	Actions field missing in Managers API of PSME
Problem	Inconsistency in DMTF Redfish specification
Implication	Fields are not available on API
Note	Need also fix in DMTF Redfish specification
Workaround	N/A
Status	Root cause identified
HSD110654	Mandatory fields missing in Managers API of PSME
Problem	Inconsistency in DMTF Redfish specification
Implication	Fields are not available on API
Note	Need also fix in DMTF Redfish specification
Workaround	N/A
Status	Root cause identified
HSD106204	After deep discovery PSME REST API shows less PciDevices than expected
Problem	DeepDiscovery feature shows more of PCI devices than Basic Discovery
Implication	Inconsistency in devices numbers on API
Note	N/A
Workaround	N/A
Status	Root cause identified.
HSD110396	ClassCode attribute in Functions API is incorrect
Problem	Defect in DMTF Redfish specification
Implication	Language typo in API. PSME client must be aware



Issue	Description
Note	API is consistent with DMTF Redfish specification
Workaround	N/A
Status	Root cause identified
HSD106164	Slowpoll destroys user experience
Problem	Slowpoll destroys user experience
Implication	User needs to wait until slowpoll fetches all resource
Note	N/A
Workaround	N/A
Status	As designed
HSD110281	Pod does not detect Storage
Problem	Network interface driver has an issue
Implication	Network interface of Storage Service does not get IP
Note	N/A
Workaround	Wait about 10 min: Assemble and disassemble one more time
Status	Workaround available
HSD111437	PATCHing null on DriveErased returns Bad request
Problem	PATCHing null on DriveErased returns Bad request
Implication	PATCHing null on DriveErased returns Bad request
Note	N/A
Workaround	N/A
Status	Root cause identified
HSD109560	After deep discovery PSME REST API shows less Managers than expected
Problem	After deep discovery PSME REST API shows less Managers than expected
Implication	After deep discovery PSME REST API shows less Managers than expected
Note	N/A
Workaround	User may retrigger Deep Discovery on demand
Status	Fixed
HSD111454	Cannot PATCH System Boot to Disable or None
Problem	Cannot PATCH System Boot to Disable or None
Implication	Cannot PATCH System Boot to Disable or None
Note	This has no implication on hardware
Workaround	N/A
Status	Root cause identified
HSD111471	PSME PNC configuration file has wrong default value
Problem	PSME PNC configuration file has wrong default value
Implication	PSME REST Server exposes service name as Storage Services instead of PNC. PODM does not properly connect rack chassis' (contendBy property will be null)
Note	This has no implication on hardware.
Workaround	Change to proper value in config file after installation
Status	Root cause identified
HSD111422	MEMORY - wrongly VendorID
Problem	VendorID has the same value as Manufacturer
Implication	VendorID has the same value as Manufacturer
Note	N/A
Workaround	N/A
Status	Fixed
HSD110608	Detach with EOD "true" does not erase nvme drive content



Issue	Description
Problem	Drives that have a secure erase setting (SES) limit cannot be reformatted upon reaching a permitted number of reformatting cycles
Implication	Once the drive reaches its format limit, further attempts to format the drive with either option SES=1 or SES=2 will return an error and the drive will not be reformatted
Note	Contact your Intel account representative for details
Workaround	Contact your Intel account representative for details
Status	Under Investigation
HSD115673	Drive is not erased after Secure Erase
Problem	Sometimes drives are not erased after Secure Erase operation.
Implication	Files are left on the drive and can be read again.
Note	Seen sporadically
Workaround	Perform Secure Erase again
Status	Under investigation
HSD115767	PSME Rest returned 500 error when deleting ACL (3-10)
Problem	During stress tests deleting 3 out of 10 previously created ACLs, PSME REST server returns error code.
Implication	User is unable to remove ACLs from the REST API
Note	Seen sporadically. 'acl show' reported no ACLs on the HW. Probably ONPSS or HW/RRC issue.
Workaround	N/A
Status	Under investigation

5.3.1 API changes

There were no API changes in this release.

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