

Intel® Rack Scale Design POD Manager (PODM)

Release Notes
Software v2.2

December 19, 2017

Revision 001



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Revision History

Revision	Description	Date
001	Initial release.	December 19, 2017

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1 Introduction

This document contains information about the installation and configuration of Intel® Rack Scale Design (Intel® RSD) Pod Manager (PODM) v2.2.0.211.0. This document will be referred to as the Pod Manager (PDOM) throughout this document.

1.1 Intended audience

The intended audiences for this document include:

- Software Vendors (xSVs) of pod management software, who make use of PODM to discover, compose, and manage drawers, regardless of the hardware vendor, and/or manage drawers in a multivendor environment.
- Hardware Vendors (OxMs) of PSME firmware who would like to provide Intel® RSD PODM API on top of their hardware platform.

1.2 Conventions

The key words/phrases "MUST", "MUST NOT", "REQUIRED", "SHALL", "SHALL NOT", "SHOULD", "SHOULD NOT", "RECOMMENDED", "MAY", and "OPTIONAL" in this document are to be interpreted as described in RFC 2119, Table

1.3 Terminology

Table 1. Terminology

Term	Definition
BIOS	Basic Input/output System
BMC	Baseboard Management Controller
IoT	Internet of Things
IPMI	Intelligent Platform Management Interface
OOB	Out of band Telemetry
OS	Operating System
PODM	Pod Manager
PSME	Pooled System Management Engine
TORS	Top-Of-Rack Switches

1.4 Related Documents

Table 2. Related Documents

Doc ID	Title	Location
336811	Intel® Rack Scale Design (RSD) Conformance and Software Reference Kit Getting Started Guide v2.2, Revision 001	http://www.intel.com/intelRSD
336815	Intel® Rack Scale Design Pod Manager (PDOM) User Guide, Software v2.2, Revision 001	
336816	Intel® Rack Scale Design PSME Release Notes, Software v2.2, Revision 001	
336810	Intel® Rack Scale Design PSME User Guide, Software v2.2, Revision 001	
336855	Intel® Rack Scale Design PSME REST API Specification, Software v2.2, Revision 001	
336856	Intel® Rack Scale Design Storage Services API Specification, Software v2.2, Revision 001	



Doc ID	Title	Location
336857	Intel® Rack Scale Design Pod Manager REST API Specification, Software v2.2, Revision 001	
336858	Intel® Rack Scale Design Rack Management Module (RMM) API Specification, Software v2.2, Revision 001	
336859	Intel® Rack Scale Design Generic Assets Management Interface API Specification, Software v2.2, Revision 001	
336860	Intel® Rack Scale Design Firmware Extension Specification, Software v2.2, Revision 001	
336861	Intel® Rack Scale Design Architecture Specification, Software v2.2, Revision 001	
336862	Intel® RSD v2.2 Solid State Drive (SSD) Technical Advisory	
RFC2119	Key words for use in RFCs to Indicate Requirement Levels, March 1997	https://www.ietf.org/rfc/rfc2119.txt
SDP0266	Scalable Platforms Management API Specification v1.1.0	https://www.dmtf.org/sites/default/files/standards/documents/DSP0266_1.1.0.pdf
DSP8010	Redfish Schema v2016.3	https://www.dmtf.org/sites/default/files/standards/documents/DSP8010_2016.3.zip

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2 New Features and Limitations

The following are new features for the Intel® RSD v2.2 release.

2.1 New Features

Intel® RSD Pod Manager Release Note's v2.2 introduces the following features:

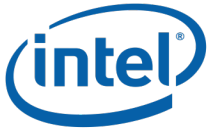
1. **Out of band Telemetry** – Discovering, monitoring and reporting Telemetry metrics, Health Status of RSD assets through the Out of band Telemetry (OOB) interface (i.e., Intelligent Platform Management Interface (IPMI)).
2. **Intel® Xeon® Processor Scalable family support** – The Intel® Xeon® Processor Scalable family platform is based on cutting-edge technology and provides compelling benefits across a broad variety of usage models including big data, artificial intelligence, high-performance computing, enterprise-class IT, cloud, storage, communication, and Internet of Things (IoT).
3. **Digital Signature** - For a more secure design, component firmware should be digitally signed and verified at startup which includes the Pooled System Management Engine (PSME) and Pod Manager (PODM) components. This is to prevent tampering of the components which leads to a security attack.
4. **TOR Switch support** – Ability to discover and configure basic functionalities of TOR Switches (TORs) that implement Redfish based API. For information on the Redfish based APIs refer to [Table 2](#).

2.2 Limitations

The following list describes limitations for this Intel® RSD v2.2 release (described limitations are targets for future releases):

- Code was tested for PSME v2.2.0.304.0.
- IP address of Composed Node is not exposed through the REST API - this depends on the booted Operating System (OS), and is outside the scope of Pod Manager.
- While reading the PSME REST API, the PODM may omit values presented by Baseboard Management Controller (BMC) or PSME that are not allowed to be exposed (e.g. bad enum value).
- The NVMe drives are visible on PSME/PODM REST APIs under two different assets, under Fabric's Endpoint and/or under System asset of PSME/PODM REST API. This is because BIOS, in the recommended version, can also serve information about those drives. Moreover, because of the nature of the BIOS discovery process, once detected asset will persist on the System until the next system reboot.
- After upgrade from Pod Manager 1.2 to this version all data stored in database will be lost, this implies that all Composed Node will be removed and need to be recreated.
- PODM does not support direct APIs to:
Create/Update/Remove LogicalDrive/RemoteTarget (creation is supported only during assembly)





3 Known Issues

This section presents problems and known issues found during the testing of Intel® RSD release v2.2. [Table 3](#) provides a detailed description of the status of the known issues.

Table 3. Status descriptions

Status	Descriptions
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.

3.1 Known issues

Table 4. Known issues

Issue	Description
HSD115799	GET operation on Switch Port sporadically fails with 500 status code
Problem	GET operation on Switch Port sporadically fails with 500 status code
Implication	Properties of Switch Port cannot be obtained
Note	PODM
Workaround	N/A
Status	Fixed
HSD111424	Invalid status code after trying detaching an already detached endpoint
Problem	Incorrect status code is being returned while trying to detach an already detached endpoint
Implication	Status code returned from PODM is incorrect and can be misleading
Note	PODM
Workaround	N/A
Status	Fixed
HSDES1805474721	Wildfly vulnerability
Problem	Used Wildfly version is vulnerable to path traversal issue CVE vulnerability 2017-2595
Implication	All authorized users who use Wildfly Admin Log Viewer may read files from filesystem where Pod Manager is installed.
Note	PODM
Workaround	Upgrade Wildfly to newer version
Status	Root Cause Identified

