



Intel® Rack Scale Design Software Reference Kit

Getting Started Guide

May 2017

This 'Getting Started' guide is a good starting point for developers who will be working with *Intel® Rack Scale Design Software*. We recommend that you read the entire document before getting started. Keep in mind this code is reference software only. We expect developers to take this reference software and make it their own. Look for more releases in the future! Enjoy!

1. Read *Intel® Rack Scale Design Architecture Specification (335501)* to gain an understanding of what hardware you'll be building on, what you'll have to work with, and how Intel® Rack Scale Design software works with these components.
2. Read the *Intel® Rack Scale Design Pod Manager User Guide (335457)* and *Intel® Rack Scale Design PSME User Guide (335460)*. These documents are a great resource for understanding the core components and setting up your hardware and software components.
3. **Plan how to configure your Intel® Rack Scale Design software components across your hardware.** You'll need to decide which servers in your rack configurations will run which PSME and Pod Manager (PODM) components (also known as agents). You don't have to do it this way, but here is one example configuration:
 - a. Dedicate an Ubuntu* 14.04 server with a BMC (for example, 1U on any rack) to run the PSME compute and core rest interface modules. For example, Dell PowerEdge* and HP ProLiant* have this capability.
 - b. Dedicate a 10 GbE TOR (or other) switch to run the PSME core and networking modules.
 - c. Dedicate another storage server (disk controller) to run the PSME core rest APIs and storage agents/modules. This could potentially be the same dedicated server (with BMC) above for compute, as the server could also have a storage controller and additional disks.
4. Download whatever code you need from the GitHub repository: <https://github.com/01org/intelRSD>
5. Read the *Intel® Rack Scale Design GAMI API Specification (335451)*, the *Intel® Rack Scale Design Pod Manager API Specification (335455)*, and the *Intel® Rack Scale Design PSME API Specification (335458)*. These references will help you understand how to work with the code.
6. **Build, install, and modify the PODM components** on your hardware configuration. (Refer to the *Intel® Rack Scale Design PSME User Guide*.) You will need to modify the GAMI agents to interface with your hardware configuration.
7. **Build, install, and modify the PODM components** to talk with your PSME agents and manage your racks. (Refer to the *Intel® Rack Scale Design Pod Manager User Guide*.)
8. **Connect to outside orchestration layer** if you have one (for example, OpenStack).
9. Read the *Intel® Rack Scale Design Pod Manager Release Notes (335456)* and *Intel® Rack Scale Design PSME Release Notes (335459)* to be aware of issues you may run into.
10. Provide feedback via GitHub tracker (<https://github.com/01org/intelRSD/issues>) if you run into issues, have questions, or want to provide general feedback.

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