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# Redfish Interoperability Profiles Bundle

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This document's normative language is English. Translation into other languages is permitted.

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# Foreword

The following files are part of the Redfish development effort:

- DSP0226 - Redfish Specification - This file is the main Redfish Specification.
- DSP0270 - Redfish Host Interface Specification - This document specifies the "in-band" or "OS-based" Redfish Host Interface.
- DSP0272 - Redfish Interoperability Profile Specification - Specifies the structure and JSON document used to define and publish an interoperability profile used to check an implementation's conformance to a defined minimum set of functionality.
- DSP2044 - Redfish Whitepaper - This is intended to be a non-normative document helping those new to Redfish understand how to interact with the Redfish Service and understand common functions and tasks.
- DSP2043 - Redfish Mockup - This is a mockup that can be used as sample of output from GETs from a Redfish Service. Informative in nature, it was used to develop the schema. A person can set up an NGINX or similar server and configure it to output JSON format and then use this directory for demonstration purposes.
- DSP8010 - Redfish Schema - This contains the Redfish Schema definitions. These files are normative in nature and are normatively referenced by the Redfish Specification. There are two Schema formats - CSDL (OData Common Schema Definition Language format, which is in XML) and JSON Schema. These Schema definitions should be functionally equivalent, thus specifying the schema in two different languages.
- DSP8011 - Redfish Standard Registries - This contains the Redfish Registry definitions. This bundle of Redfish registries includes Message registries used for Redfish-defined messages (including events) and Privilege maps.
- DSP8013 - Redfish Interoperability Profiles - A bundle of published Redfish Interoperability Profile documents as well as supporting schema and sample documents used for creating profiles.

# **Redfish Interoperability Profile bundle contents**

# 1. Profile Construction Documents

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The root folder of this bundle contains tools useful for constructing a new Redfish Interoperability Profile.

- RedfishInteroperabilityProfile.v1\_n\_n.json - A JSON schema definition for a Redfish Interoperability Profile JSON document. This schema file can be used with a JSON schema validator to ensure that a created profile conforms to the Redfish Interoperability Profile Specification.
- SampleProfile.json - A sample profile JSON document that shows the features available in the profile definition.

## 2. Profile folders

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As Profiles are defined, approved and published, they will be added to folders in this bundle. Each published profile is expected to include at least two files: the JSON document, which conforms to the profile schema, and a Profile Guide to document the contents of the profile.

As of this publication, there are no normative profiles (work-in-progress profiles are available separately).

## 3. Utilities

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The DMTF has published several open source utilities to aid in the development of Redfish Interoperability Profiles. In addition, questions can also be posted in the Redfish User Forum ([www.redfishforum.com](http://www.redfishforum.com)).

### 3.1. Redfish Interop Validator

<https://github.com/DMTF/Redfish-Interop-Validator>

The Redfish Interop Validator is a python3 tool that will validate a service based on an Interoperability profile given to the tool. The purpose of the tool is to guarantee that a specific service is compatible with vendor systems or system tools based on a vendor's specification in a profile.

### 3.2. Documentation Generator

<https://github.com/DMTF/Redfish-Tools>

Creates end user documentation by combining the Redfish Schemas with a Profile document and any supplemental text provided by the profile author.

# Change log

| File                           | Version | Date       | Description  |
|--------------------------------|---------|------------|--|
| RedfishInteroperabilityProfile | 1.1.0   | 2019-03-18 | Added support for basing requirements on URIs when applied with Redfish Specification v1.6 OpenAPI support. Corrected the format of the 'Repository' property to use 'uri-reference' and clarified its description to reflect usage for profiles, schemas, and registries. |
| RedfishInteroperabilityProfile | 1.0.3   | 2018-11-29 | Errata release. Corrected the type for 'CompareType' to allow for booleans, numbers, and strings.  |
| RedfishInteroperabilityProfile | 1.0.2   | 2018-11-29 | Errata release. Corrected the depth of 'additionalProperties' found in 'Parameters' for 'ActionProfile'.   |
| RedfishInteroperabilityProfile | 1.0.1   | 2018-05-01 | Errata release. Corrected inconsistent usage of the 'Comparison' property within Conditional Requirements. Added missing 'Values' property to Conditional Requirements to enable specification of property values when a condition is met.                                 |
| SampleProfile.json             | 1.0.3   | 2018-05-01 | Errata release. Updated examples to reflect errata with v1.0.1 of the specification. Added example to show a condition that also places requirements on the value of a property when a condition is met.   |
| RedfishInteroperabilityProfile | 1.0.0   | 2017-11-17 | Initial release. JSON schema used to define a Redfish Interoperability Profile.  |

| File               | Version | Date       | Description  |
|--------------------|---------|------------|--|
| SampleProfile.json | 1.0.0   | 2017-11-17 | Initial release. Sample document to show examples of the various profile features. |