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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:

- DSP0266 - 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	1.3.0	2019-12-06	Added support for 'SupportedFeatures' to registry-level information.
RedfishInteroperabilityProfile	1.2.0	2019-07-03	Added support for 'Supported' and 'IfPopulated' Requirement types. Added 'pattern' term to provide regex for version-related properties.
RedfishInteroperabilityProfile	1.1.0	2019-02-26	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

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