Document Identifier: DSP-IS0018

Date: 2021-05-14

Version: 1.0.0

Redfish Conformance Test Suite Guidance

Supersedes: None

Document Class: Informative

Document Status: Published

Document Language: en-US

Copyright Notice

Copyright © 2021 DMTF. All rights reserved.

DMTF is a not-for-profit association of industry members dedicated to promoting enterprise and systems management and interoperability. Members and non-members may reproduce DMTF specifications and documents, provided that correct attribution is given. As DMTF specifications may be revised from time to time, the particular version and release date should always be noted.

Implementation of certain elements of this standard or proposed standard may be subject to third party patent rights, including provisional patent rights (herein "patent rights"). DMTF makes no representations to users of the standard as to the existence of such rights, and is not responsible to recognize, disclose, or identify any or all such third party patent right, owners or claimants, nor for any incomplete or inaccurate identification or disclosure of such rights, owners or claimants. DMTF shall have no liability to any party, in any manner or circumstance, under any legal theory whatsoever, for failure to recognize, disclose, or identify any such third party patent rights, or for such party's reliance on the standard or incorporation thereof in its product, protocols or testing procedures. DMTF shall have no liability to any party implementing such standard, whether such implementation is foreseeable or not, nor to any patent owner or claimant, and shall have no liability or responsibility for costs or losses incurred if a standard is withdrawn or modified after publication, and shall be indemnified and held harmless by any party implementing the standard from any and all claims of infringement by a patent owner for such implementations.

For information about patents held by third-parties which have notified the DMTF that, in their opinion, such patent may relate to or impact implementations of DMTF standards, visit http://www.dmtf.org/about/policies/disclosures.php.

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

CONTENTS

Foreword 4
Conformance Test Suite 5
    Redfish Service Validator 5
    Redfish Protocol Validator 5
    Redfish Interop Validator 5
    Redfish Usecase Checkers 5
ANNEX A (informative) Change log 6

Foreword

The *Redfish Conformance Test Suite Guidance* (DSP-IS0018) was prepared by the Redfish Forum.

DMTF is a not-for-profit association of industry members dedicated to promoting enterprise and systems management and interoperability. For information about the DMTF, see http://www.dmtf.org.

This version is the first version of this document. Future changes will be recorded in the change log in ANNEX A.

Conformance Test Suite

The following list is recommended by the DMTF Redfish Forum for a conformance test suite. The Redfish Forum runs these tests on the systems in the Redfish interoperability lab on a regular basis to validate interoperability. Each test provides an output file that documents the results of the test.

All the tests are open source. If issues are found, please submit the issues to the appropriate repository so they can be addressed.

These tests are described below, along with a link to the open source repository.

- Redfish Service Validator v1.3.9
- Redfish Protocol Validator v1.0.2
- Redfish Interop Validator v1.1.7 with the appropriate Redfish profile
- Redfish Usecase Checker v1.0.6 (recommended)

Redfish Service Validator

This Redfish Service Validator checks the conformance of a Redfish Service implementation against Redfish CSDL schema. The tool is designed to be device agnostic and is driven based on the Redfish specifications and schema intended to be supported by the device.

The test can be found at https://github.com/DMTF/Redfish-Service-Validator.

Redfish Protocol Validator

The Redfish Protocol Validator tests the HTTP protocol behavior of a Redfish service to validate that it conforms to the Redfish specification.

The test can be found at https://github.com/DMTF/Redfish-Protocol-Validator

Redfish Interop Validator

The Redfish Interop Validator validates that a Redfish Service conforms to the requirement encapsulated in a Redfish Interoperability Profile file. The Profile file is designated by the organization requesting the execution of the conformance test suite.

The test can be found at https://github.com/DMTF/Redfish-Interop-Validator

Redfish Usecase Checkers

This is a collection of tools to exercise and validate common use cases for DMTF Redfish. The checkers include that following:

- One Time Boot Checker
- Power/Thermal Info Checker
- Power Control Checker
- Account Management Checker
- Query Parameter Checker

The tests can be found at https://github.com/DMTF/Redfish-Usecase-Checkers.

ANNEX A
(**informative**)

Change log

Version	Date	Description
1.0.0	2021-05-14	

89