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scalable platforms management API
specification —**

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This document was prepared by DMTF (as DMTF Redfish Specification, DSP0266, Version 1.13.0) and drafted in accordance with its editorial rules. It was adopted, under the JTC 1 PAS procedure, by Joint Technical Committee ISO/IEC JTC 1, *Information technology*.

This first edition cancels and replaces the first edition (ISO/IEC 30115:2018), which has been technically revised.

The main changes are as follows:

- a number of clauses have been added expanding the functionality of the protocol, including additions for controlling software-defined composable systems, for performing software or firmware updates and for aggregating multiple service instances;
- the protocol itself has been enhanced to provide a number of optional query parameters to enable more efficient transactions;
- the specification and its data model have been enhanced to provide compatibility with the OpenAPI v3.0 specification allowing the use of the OpenAPI toolchain for both documentation and code generation.

A list of all parts in the ISO/IEC 30115 series can be found on the ISO and IEC websites.

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

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1 Foreword {-}

The Redfish Forum of the DMTF develops the Redfish standard.

DMTF is a not-for-profit association of industry members that promotes enterprise and systems management and interoperability. For information about the DMTF, see [DMTF](#).

This version supersedes version 1.12.1. For a list of the changes, see [ANNEX A \(informative\) Change log](#).

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2 Introduction {-}

Redfish is a standard that uses RESTful interface semantics to access a schema based data model to conduct management operations. It is suitable for a wide range of devices, from stand-alone servers, to composable infrastructures, and to large-scale cloud environments.

The initial Redfish scope targeted servers. The DMTF and its alliance partners expanded that scope to cover most data center IT equipment and other solutions, and both in- and out-of-band access methods.

Additionally, the DMTF and other organizations that use Redfish as part of their industry standard or solution have added educational material.

This document defines the RESTful interface protocol and the various concepts and services necessary to implement a Redfish interface. The definition of the schema based data model and standard messages for the Redfish interface are covered separately in the following documents:

- DMTF DSP8010, *Redfish Schema Bundle*, <https://www.dmtf.org/dsp/DSP8010> contains the individual schema definition files in multiple schema description languages.
- DMTF DSP0268, *Redfish Schema Supplement*, <https://www.dmtf.org/dsp/DSP0268> contains the normative descriptions and example payloads for all standard Redfish schema in a single reference guide.
- DMTF DSP8011, *Redfish Standard Registries Bundle*, <https://www.dmtf.org/dsp/DSP8011> contains the message registries used for error reporting and event messages.

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