



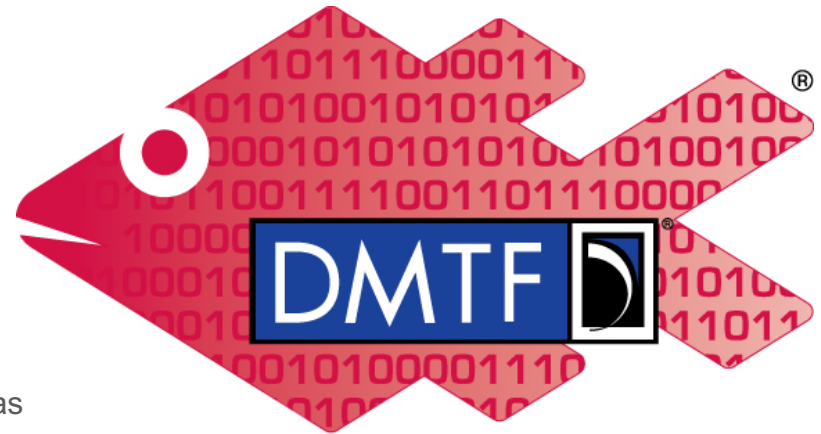
Redfish Release 2020.2

DMTF Redfish Forum
May 2020



Redfish Release 2020.2

- **Redfish Specification v1.11.0**
 - Adds clauses for aggregators
 - Contains informative text describing aggregators
 - Specifies requirements of aggregators (unifying southbound services, assembling resource collections, sanitizing URIs)
- **Redfish Schema Bundle 2020.2**
 - Bundle (DSP8010) contains all released Redfish schemas
- **Redfish Message Registry Bundle 2020.2**
 - Bundle (DSP8011) contains all released Redfish message registries
 - **NEW** StorageDevice registry to provide storage-specific events or status changes
- **5 NEW Schemas, 10 updated schemas**
 - Addition of Aggregate, AggregationService, AggregationSource, ConnectionMethod, and OperatingConfig
- **Download all published material at:** <http://www.dmtf.org/standards/redfish>



Redfish



NEW AggregationService

- New service exposed via service root
- Provides client interface for managing aggregation of southbound services
- Provides links to AggregationSource, ConnectionMethod, and Aggregate resources



NEW AggregationSource and ConnectionMethod

- AggregationSource
 - Represents a southbound service being aggregated
 - Clients can create new instances and specify the location of the southbound service, credentials to access the service, and the type of connection (ConnectionMethod) used with the service
- ConnectionMethod
 - Represents a type of connection/protocol the service supports for aggregation
 - Connection types can be Redfish, IPMI, SNMP, NETCONF, or OEM
 - Connection types can be further qualified with the “ConnectionMethodVariant” string
 - Example: If the connection method is IPMI, the variant could be “Contoso IPMI Flavor”



NEW Aggregate

- A client-defined grouping of resources
 - Contains a single “Elements” array that shows the members of the aggregate
 - Clients can use the AddElements and RemoveElements action to modify the array after the resource is created
- Used to minimize large-scale operations that might be carried out at once
 - For example, resetting 10000 systems at once
- Contains two actions that can be performed on the aggregate
 - Reset
 - SetDefaultBootOrder
 - When invoked, the action is carried out on all members of the aggregate (if the member supports the action)



NEW OperatingConfig

- Added to Processor to express canned operating modes that the processor supports
 - Core count configuration
 - Speed configuration
 - Turbo mode profiles
- Properties added to Processor to allow a client to specify which OperatingConfig to apply to the Processor



Redfish Schema Minor Revisions (1 of 2)

- **ComputerSystem v1.2.0**
 - Added *LastResetTime* property
- **Drive v1.10.0**
 - Added *ReadyToRemove* property
- **Event v1.5.0**
 - Added *MessageSeverity* property and deprecated *Severity* property
 - *Severity* was not tied to the enumeration values of *State*, which caused interoperability issues
- **EventService v1.7.0**
 - Deprecated *Login* enumeration in *SMTPAuthenticationMethods* in favor of *Plain*
- **Manager v1.9.0**
 - Added *LastResetTime* property
 - Added *ManagedBy* and *ManagerForManagers* properties to *Links*



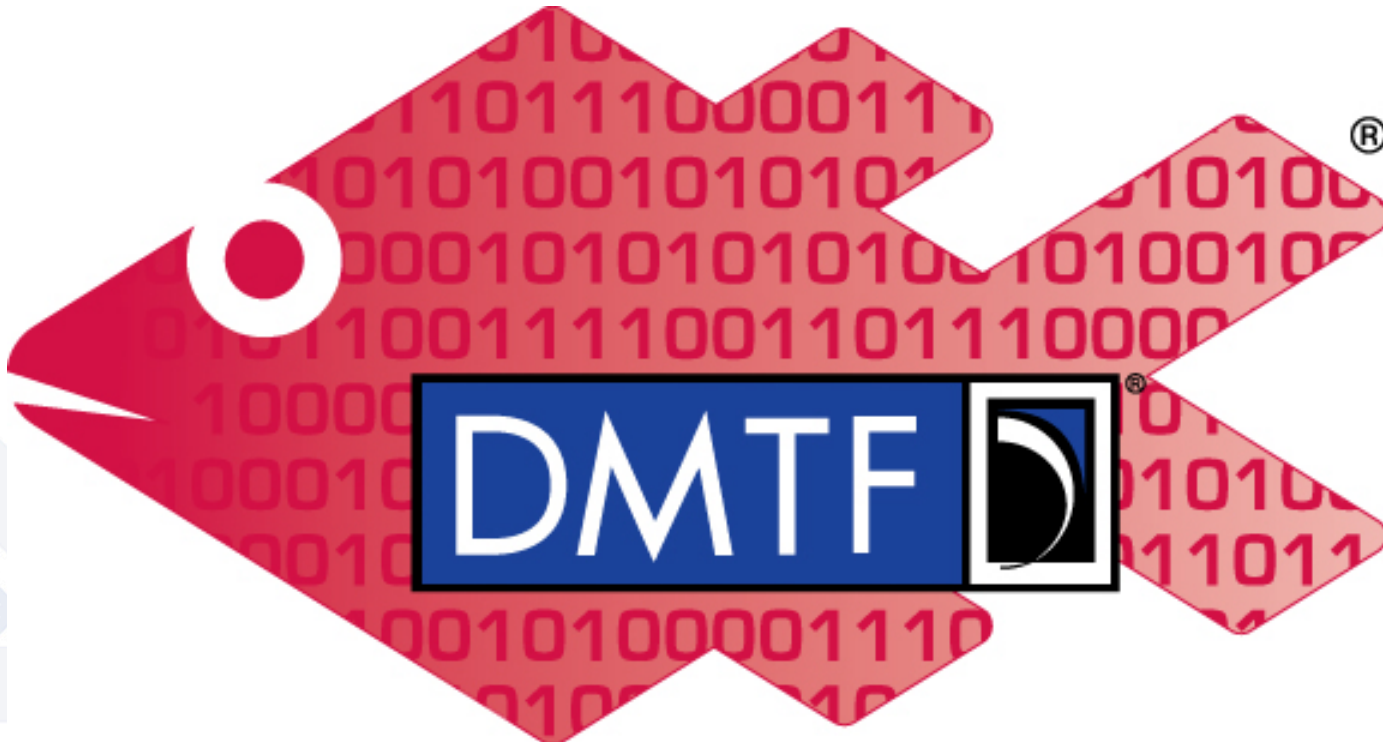
Redfish Schema Minor Revisions (2 of 2)

- MediaController v1.1.0
 - Added *UUID* property
- MetricReport v1.4.0
 - Added *Context* property
- NetworkAdapter v1.4.0
 - Added *Identifiers* and *Location* properties
- Processor v1.9.0
 - Deprecated *FirmwareVersion* in *FPGA* in favor of *FirmwareVersion* at the root of the resource
 - Added *TurboState*, *BaseSpeedPriorityState*, *HighSpeedCoreIDs*, *OperatingConfigs*, and *AppliedOperatingConfig* properties
- ServiceRoot v1.8.0
 - Added *AggregationService* property



Schema Guide, Property Guide, and Schema Supplement

- Guide documents are updated for each schema (DSP8010) release
 - Description text for properties taken directly from schema files
 - DMTF documentation generator creates these guide documents
- **Redfish Resource and Schema Guide (DSP2046)**
 - Presents schema definition contents in a more human-readable format
 - Includes example payloads for each schema
- **Redfish Property Guide (DSP2053)**
 - Provides an alphabetical list of all properties defined in Redfish schema
 - Useful for schema writers to locate existing definitions or properties
 - Helps avoid re-defining property names already in use
- **Redfish Schema Supplement (DSP0268)**
 - Presents normative (“LongDescription”) schema definition contents
 - Useful for Redfish Service developers to ensure conformance



Redfish