Redfish Release 2020.2

DMTF Redfish Forum
May 2020
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- **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](http://www.dmtf.org/standards/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

- **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
  - 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