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](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 further qualified using `ConnectionMethodVariant`
    - Example: For IPMI, a variant could be “Contoso IPMI Flavor”
NEW Aggregate

• A client-defined grouping of resources
  • The *Elements* array contains the set of the resources to aggregate
  • Clients use the *AddElements* and *RemoveElements* actions to modify the array after the resource is created
• Used to perform large-scale operations on multiple, similar resources
  • For example, resetting 10000 systems at the same time
  • Aggregate allows single action to occur on a set of resources
• Defines 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 pre-defined operating modes supported by the processor
  - 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
NEW StorageDevice Message Registry

- Registry provides messages specific to storage devices
  - Follows “topic-based” message pattern from NetworkDevice registry
  - Explicit messages defined for device and controller state changes
  - Registry to expand as more standardized messages are defined
- Topics covered in StorageDevice message registry v1.0.0
  - Storage Controller status changes
  - Drive (Storage device) status changes
  - Predictive Failure status changes
  - Write Cache status changes
  - Drive Inserted or Removed
  - Volume status changes
Redfish Schema Minor Revisions (1 of 2)

- ComputerSystem v1.12.0
  - 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
- 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