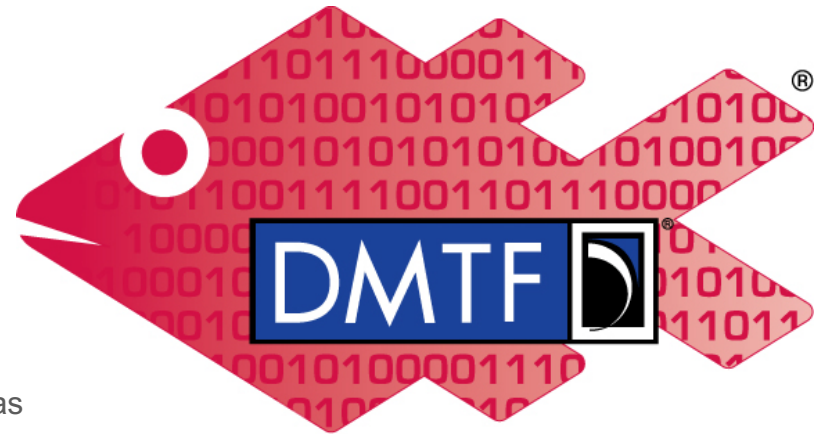# Redfish Release 2020.2

**DMTF Redfish Forum**

**June 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

# 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
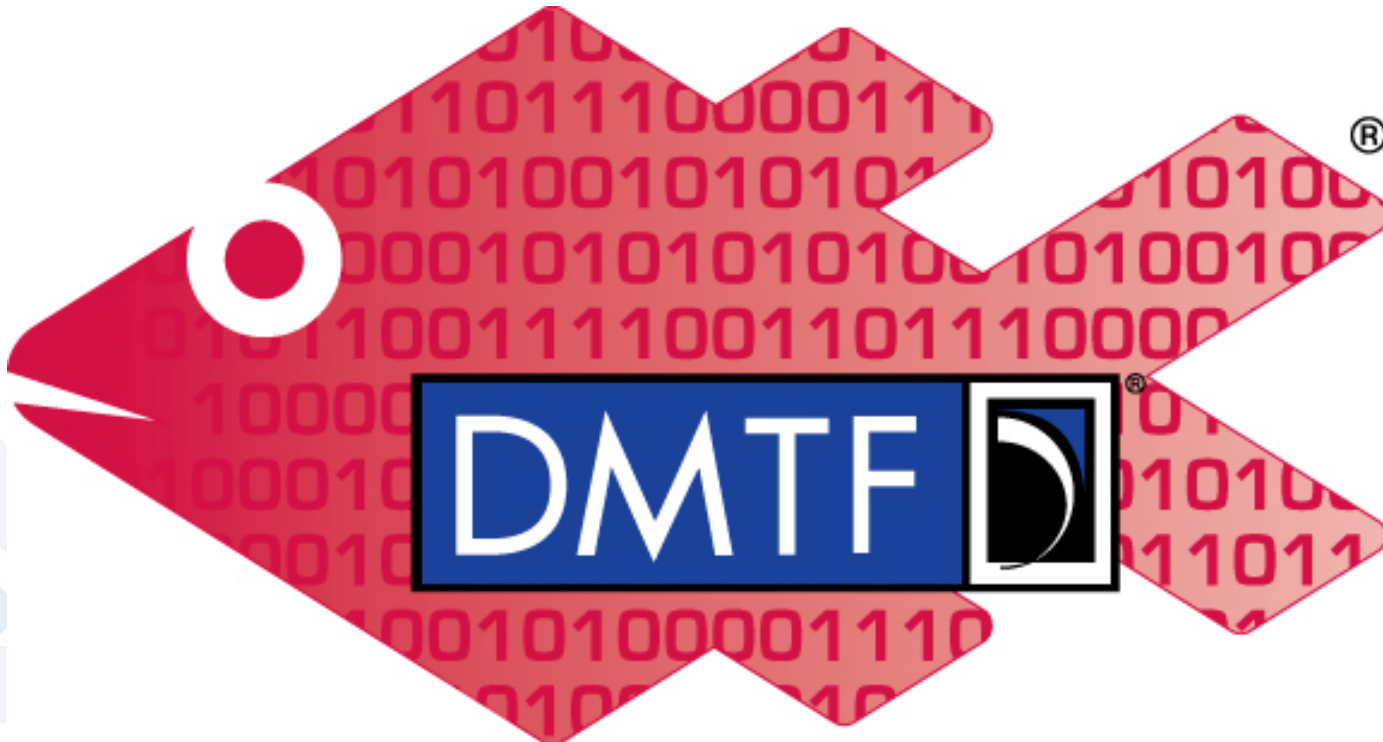  - Added *ManagedBy* and *ManagerForManagers* properties to *Links*

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# 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

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