

Redfish Release 2020.1

• Redfish Specification v1.10.0

- "Deep" operation support for creating or updating multiple resources with a single operation
- Restructured Security details clause for readability
- Require support of TLS v1.2 or later
- Deprecated use of TLS v1.1

Redfish Specification v1.9.1

- Numerous clarifications regarding query parameters and Actions
- Clarified naming guidelines, especially concerning acronyms
- Deprecated use of full ISO8601 "Duration" format to allow for a simplified version that omits years/months/weeks

Redfish Schema Bundle 2020.1

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Bundle (DSP8010) contains all released Redfish schemas

Redfish Message Registry Bundle 2020.1

- Bundle (DSP8011) contains all released Redfish message registries
- NEW NetworkDevice registry to provide NIC / networking adapter-specific events or status changes
- Minor release of Base Registry adding MaximumErrorsExceeded, PreconditionFailed, PreconditionRequired, OperationFailed and OperationTimeout messages

2 NEW Schemas, 19 updated schemas

- Addition of SecureBootDatabase and Signature
- Download all published material at: <u>http://www.dmtf.org/standards/redfish</u>



NEW SecureBoot Database

- SecureBootDatabase contains UEFI SecureBoot certificates or hashes
- DatabaseId Database name from the UEFI specification
 - e.g. PK, KEK, db, dbx, dbc, dbt, Pkdefault, KEKDefault, dbDefault, dbxDefault, dbrDefault, dbtDefault
- Link to SignatureCollection for this database
 - Contains the hashes and encrypted hashes that are stored in this database
- Link to CertificateCollection for this database
 - Contains the Certificates that are stored in this database
- Action to ResetKeys
 - Allows resetting individual databases to their default (ResetAllKeysToDefault), or deleting all keys in this database (DeleteAllKeys)

NEW Signatures

- Each SecureBootDatabase contains a SignatureCollection
- Signature contains the following:
 - *SignatureTypeRegistry* to look up the definitions
 - Values of: UEFI, TCG, IANA, DMTF
 - SignatureType Definition from referenced specification
 - SignatureString Encodes the signature bytes in hexadecimal format
 - UefiSignatureOwner Similar to the property in Certificate

Redfish Schema Minor Revisions (1 of 3)

- Certificate v1.2.0
 - Added UefiSignatureOwner property
- Chassis v1.12.0
 - Added MaxPowerWatts and MinPowerWatts properties
- ComputerSystem v1.11.0
 - Added AutomaticRetryConfig, AutomaticRetryAttempts, and RemainingAutomaticRetryAttempts properties to Boot
- EthernetInterface v1.6.0
 - Added EthernetInterfaceType property
 - Added NetworkDeviceFunction to Links
- EventDestination v1.8.0
 - Added IncludeOriginOfCondition property this allows an event subscriber to request the entire resource be included in the event payload
- EventService v1.5.0
 - Added IncludeOriginOfConditionSupported property

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Redfish Schema Minor Revisions (2 of 3)

- LogEntry v1.6.0
 - Added *Modified* property
- Manager v1.8.0
 - Added ResetToDefaults action
- ManagerAccount v1.6.0
 - Added PasswordExpiration property
- ManagerNetworkProtocol v1.6.0
 - Added ArchitectureId to EngineId in SNMP
- MemoryMetrics v1.3.0
 - Added OperatingSpeedMHz property
- MessageRegistry v1.4.0
 - Added MessageSeverity property and deprecated Severity property
 - Severity was not tied to the enumeration values of State, which caused interoperability issues

Redfish Schema Minor Revisions (3 of 3)

- NetworkDeviceFunction v1.4.0
 - Added EthernetInterface to Links
- PCIeSlots v1.3.0
 - Added U2 to PCIeSlotType
- Processor v1.8.0
 - Added SystemInterface, OperatingSpeedMHz, and MinSpeedMHz properties
 - Added AMBA, CCIX, and CXL values to the interface type enumeration
- ProcessorMetrics v1.1.0
 - Added OperatingSpeedMHz property and deprecated AverageFrequencyMHz
- SecureBoot v1.1.0
 - Added SecureBootDatabases property
- SoftwareInventory v1.3.0
 - Added WriteProtected property

Errata Schema Revisions (1 of 2)

• Event v1.x.x

• Updated description for *OriginOfCondition* to show that a subscriber can request the full resource for the origin of the event to be included in the event itself

• ManagerAccount v1.x.x

 Corrected formats for AuthenticationKey and EncryptionKey within SNMP to support patterns defined in RFC3414

ManagerNetworkProtocol v1.x.x

- Clarified EnterpriseSpecificMethod is tied to the "type 2 format" of the RFC3411-defined snmpEngineID
- Made PrivateEnterpriseId and EnterpriseSpecificMethod read-only
- MemoryMetrics v1.x.x
 - Corrected description of *HealthData* to allow its usage with regards to being metrics for a memory summary

Errata Schema Revisions (2 of 2)

• MetricReportDefinition v1.x.x

- Clarified that ReportUpdates and ReportActions should be ignored when MetricReportDefinitionType is OnRequest
- Clarified behavior of some properties when a metric report stops.
- Clarified ReportTimespan is the maximum timespan the report can cover

SecureBoot v1.x.x

• Updated descriptions as needed to reference UEFI Secure Boot databases

TaskService v1.x.x

 Clarified LifeCycleEventOnTaskStateChange to reference the Task Event Message Registry for task events

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



