

## Enhancement of LogService for Diagnostic Data

Redfish Forum – Work in progress

May 2020



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## **Disclaimer**

- The information in this presentation represents a snapshot of work in progress within the DMTF.
- This information is subject to change without notice. The standard specifications remain the normative reference for all information.
- For additional information, see the DMTF website.

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## **Providing Feedback**

- Feedback to the DMTF Redfish Forum is encouraged
  - Submit items using the DMTF feedback portal
  - <u>https://www.dmtf.org/standards/feedback</u>
- Questions and comments can be posted on the Redfish User Forum
  - <u>https://www.redfishforum.com</u>

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#### **Diagnostic data overview**

- Diagnostic data can be collected at any point of time from the system and is stored in a file to troubleshoot problems that have occurred
- The data may consist of a "crash dump", application core, network configuration, system inventory configuration, journal log, etc.

#### **Requirements**

- Provide a method through which user can collect the diagnostic data from the system and can retrieve it through Redfish
- This diagnostic data can be generated in following ways:
  - User Initiated (collect the diagnostic data at any moment of time)
  - Critical software or hardware failure



#### **Proposed Data Model – Enhance LogService/LogEntry**

Redfish Resource	Action	Details
LogService	CollectDiagnosticData	Collects the diagnostic data

#### NOTE:

**1. CollectDiagnosticData** spawns a task and returns the taskID. Client can query the status of the task using the taskID.

Redfish Resource	Property	Description
	AdditionalDataUri	URI of the file associated with the entry
	AdditionalDataSizeBytes	Size of the Additional data file
LogEntry	DiagnosticDataType	Type of diagnostic data
	OEMDiagnosticDataType	OEM diagnostic data type

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### Proposed Data Model (LogService) - Mockup

redfish » v1 » Systems »system» LogServices » EventLog

```
"@odata.id": "/redfish/v1/Systems/system/LogServices/EventLog",
"@odata.type": "#LogService.v1 1 0.LogService",
"Actions": {
 "#LogService.ClearLog": {
   "target": "/redfish/v1/Systems/system/LogServices/EventLog/Actions/LogService.ClearLog"
    },
  "#LogService.CollectDiagnosticData": {
    "target": "/redfish/v1/Systems/system/LogServices/EventLog/Actions/LogService.CollectDiagnosticData"
"Description": "System Event Log Service",
"Entries": {
  "@odata.id": "/redfish/v1/Systems/system/LogServices/EventLog/Entries"
"Id": "Event Log",
"Name": "Event Log Service",
"OverWritePolicy": "WrapsWhenFull"
```

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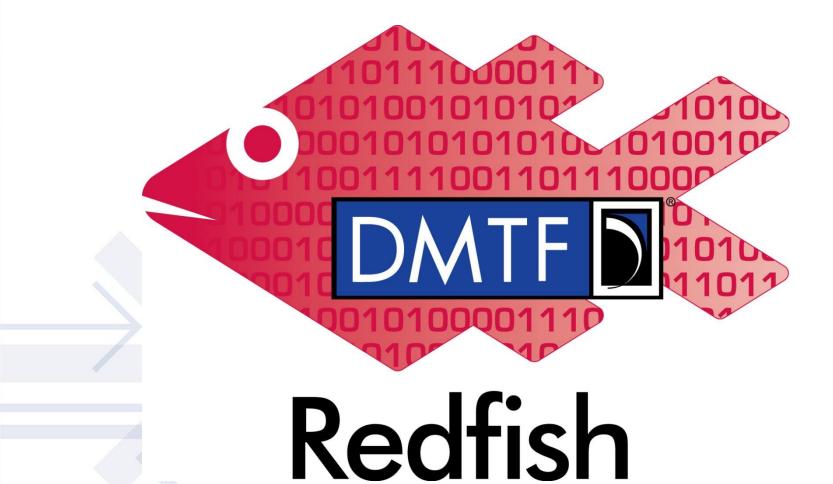
### Proposed Data Model (LogEntryCollection) - Mockup

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#### redfish » v1 » Systems »system» LogServices » EventLog» Entries

```
"@odata.id": "/redfish/v1/Systems/system/LogServices/DiagnosticLog/Entries",
    "@odata.type": "#LogEntryCollection.LogEntryCollection",
    "Description": "Collection of System Event Log Entries",
    "Members": [{
     "@odata.id": "/redfish/v1/Systems/system/LogServices/EventLog/Entries/111",
     "@odata.type": "#LogEntry.v1_4_0.LogEntry",
     "Created": "2020-01-01T14:44:00Z",
     "EntryType": "Event",
     "DiagnosticDataType": "PreOS",
     "ld": "111",
     "Message": "User initiated dump",
     "MessageId": "Diagnostics.1.0.UserInitiatedDiagnosticDump",
     "Name": "System Event Log Entry",
     "AdditionalDataUri": "/redfish/v1/Systems/system/LogServices/EventLog/attachement/111",
     "AddionalDataSizeBytes": 1048576
    }],
    "Members@odata.count": 1,
    "Name": "System Event Log Entries"
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```





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