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1 Scope

The DCIM Chassis Record Log Profile provides the management capabilities to represent logs for the modular chassis. This profile provides information on managing various logs: chassis log, CMC event log and CMC software log also known as RAC event log. The logs are modeled as referencing the managed system elements that populate the log. The profile registration information is provided both for the purposes of conformance to the DMTF profiles as well as versioning of this profile implementation.

2 Normative References

Refer to the following documents for more information.

NOTE: For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

- DMTF DSP1010, Record Log Profile 1.0.0
- DMTF DSP1033, Profile Registration Profile 1.0.0
- DMTF DSP0226, Web Services for Management (WS-Management) Specification 1.1.0
- DMTF DSP0227, WS-Management CIM Binding Specification 1.0.0
- Dell Lifecycle Controller Best Practices Guide 1.0,
  http://en.community.dell.com/techcenter/extras/m/white_papers/20066173.aspx
- Dell WSMAN Licenses and Privileges 1.0
- Dell Tech Center MOF Library: http://www.delltechcenter.com/page/DCIM.Library.MOF

- Related Managed Object Format (MOF) files:
  - Dell_ChassisUseOfLog.mof
  - Dell_HWLog.mof
  - Dell_HWLogEntry.mof
  - Dell_HWLogManagesRecord.mof
  - Dell_ModularUseOfLog.mof
  - Dell_SWLog.mof
  - Dell_SWLogEntry.mof
  - Dell_SWLogManagesRecord.mof
  - DCIM_ChassisLogEntry.mof
  - DCIM_ChassisRecordLog.mof
  - DCIM_LCRecordLogCapabilities.mof
  - DCIM_ChassisElementCapabilities.mof
  - Dell_ChassisUseOfLog.mof
  - DCIM_ChassisLogManagesRecord.mof
3 Terms and Definitions

For the purposes of this document, the following terms and definitions apply.

3.1 Conditional – Indicates requirements to be followed strictly in order to conform to the document when the specified conditions are met.

3.2 Mandatory – Indicates requirements to be followed strictly in order to conform to the document and from which no deviation is permitted.

3.3 May – Indicates a course of action permissible within the limits of the document.

3.4 Optional – Indicates a course of action permissible within the limits of the document.

3.5 can – Used for statements of possibility and capability, whether material, physical, or causal.

3.6 cannot – Used for statements of possibility and capability, whether material, physical, or causal.

3.7 need not – Indicates a course of action permissible within the limits of the document.

3.8 referencing profile – Indicates a profile that owns the definition of this class and can include a reference to this profile in its “Related Profiles” table.

3.9 shall – Indicates requirements to be followed strictly in order to conform to the document and from which no deviation is permitted.

4 Symbols and Abbreviated Terms

4.1 CIM – Common Information Model

4.2 CMC – Chassis Manager Controller – management controller for the modular chassis

4.3 LIFO – Last In, First Out

4.4 CEL – Chassis Event Log
5 Synopsis

Profile Name: Chassis Record Log
Version: 1.0.0
Organization: DCIM
CIM Schema Version: 2.26 Experimental
Dell Schema Version: 1.0.0
Interop Namespace: root/interop
Implementation Namespace: root/dell/cmc
Central Class: DCIM_ChassisRecordLog, Dell_HWLog and Dell_SWLog

The Chassis Record Log Profile is an autonomous profile that provides the management capabilities to represent logs of a managed system element.

DCIM_ChassisRecordLog, Dell_HWLog and Dell_SWLog shall be the Central Class.

Table 1 identifies profiles that are related to this profile.

<table>
<thead>
<tr>
<th>Profile Name</th>
<th>Organization</th>
<th>Version</th>
<th>Relationship</th>
</tr>
</thead>
<tbody>
<tr>
<td>Profile Registration</td>
<td>DCIM</td>
<td>1.0</td>
<td>Reference</td>
</tr>
<tr>
<td>Record Log</td>
<td>DMTF</td>
<td>1.0</td>
<td>Specialize</td>
</tr>
</tbody>
</table>

6 Description

The Chassis Record Log Profile describes the properties and methods for logs that are generated by the modular system. This profile describes the association between the managed system element and the generated logs as well as how individual log entries are contained within a record log.
The Chassis Log is represented through the DCIM_ChassisRecordLog and DCIM_ChassisLogEntry classes. DCIM_ChassisLogEntry instance represents an individual log entry that contains properties describing the Chassis Log entry such as message text and timestamp. The DCIM_ChassisLogEntry instances are aggregated under the DCIM_ChassisRecordLog instance through the DCIM_ChassisLogManagesRecord association. The DCIM_ChassisRecordLogCapabilities represents and specifies the capabilities of the associated Chassis Log.

The RAC Event Log is represented through the Dell_SWLog and Dell_SWLogEntry classes. Dell_SWLogEntry instance represents an individual log entry that contains properties describing the RAC Event Log entry such as message text and timestamp. The Dell_SWLogEntry instances are aggregated under the Dell_SWLog instance through the Dell_SWLogManagesRecord association.

CEL is represented through the Dell_HWLog and Dell_HWLogEntry classes. Dell_HWLogEntry instance represents an individual log entry that contains properties describing the CEL entry such as message text and timestamp. The Dell_HWLogEntry instances are aggregated under the Dell_HWLog instance through the Dell_HWLogManagesRecord association.

Figure 1 – Chassis Record Log Profile Class Diagram
This section describes the requirements and guidelines for implementing Chassis Record Log Profile.

### Table 2 – Class Requirements: Chassis Record Log Profile

<table>
<thead>
<tr>
<th>Element Name</th>
<th>Requirement</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>DCIM_ChassisRecordLog</td>
<td>Mandatory</td>
<td>The class shall be implemented in the Implementation Namespace. See section 7.1</td>
</tr>
<tr>
<td>DCIM_ChassisRecordLogCapabilities</td>
<td>Mandatory</td>
<td>The class shall be implemented in the Implementation Namespace. See section 7.2</td>
</tr>
<tr>
<td>DCIM_ChassisLogEntry</td>
<td>Mandatory</td>
<td>The class shall be implemented in the Implementation Namespace. See section 7.3</td>
</tr>
<tr>
<td>DCIM_ChassisElementCapabilities</td>
<td>Mandatory</td>
<td>The class shall be implemented in the Implementation Namespace. See section 7.1 and 7.2</td>
</tr>
<tr>
<td>Dell_ChassisUseOfLog</td>
<td>Mandatory</td>
<td>The class shall be implemented in the Implementation Namespace. See section 7.1 and 7.6</td>
</tr>
<tr>
<td>DCIM_ChassisLogManagesRecord</td>
<td>Mandatory</td>
<td>The class shall be implemented in the Implementation Namespace. See section 7.1 and 7.3</td>
</tr>
<tr>
<td>Dell_HWLog</td>
<td>Mandatory</td>
<td>The class shall be implemented in the Implementation Namespace. See section 7.4</td>
</tr>
<tr>
<td>Dell_HWLogEntry</td>
<td>Mandatory</td>
<td>The class shall be implemented in the Implementation Namespace. See section 7.5</td>
</tr>
<tr>
<td>Dell_HWLogManagesRecord</td>
<td>Mandatory</td>
<td>The class shall be implemented in the Implementation Namespace. See section 7.4 and 7.5</td>
</tr>
<tr>
<td>Dell_ModularUseOfLog</td>
<td>Mandatory</td>
<td>The class shall be implemented in the Implementation Namespace. See section 7.4</td>
</tr>
<tr>
<td>Dell_SWLog</td>
<td>Mandatory</td>
<td>The class shall be implemented in the Implementation Namespace. See section 7.6</td>
</tr>
<tr>
<td>Dell_SWLogEntry</td>
<td>Mandatory</td>
<td>The class shall be implemented in the Implementation Namespace. See section 7.7</td>
</tr>
<tr>
<td>DCIM_ElementConformsToRecordLogProfile</td>
<td>Mandatory</td>
<td>The class shall be implemented in both the Interop and Implementation Namespaces. See section 7.9</td>
</tr>
<tr>
<td>DCIM_RecordLogRegisteredProfile</td>
<td>Mandatory</td>
<td>The class shall be implemented in the Interop Namespaces. See section 7.9</td>
</tr>
</tbody>
</table>
### 7.1 DCIM_ChassisRecordLog – Chassis Log

This section describes the implementation for the DCIM_ChassisRecordLog class that represents the Chassis log. The Chassis Log never overwrites its entries when it approaches the full capacity, the log’s old entries are then archived.

Dell_ChassisUseOfLog shall reference the DCIM_ChassisRecordLog class and the Dell_ChassisMgr class.

DCIM_ChassisElementCapabilities shall reference the DCIM_ChassisRecordLog class and the DCIM_ChassisRecordLogCapabilities class.

DCIM_ChassisLogManagesRecord shall reference the DCIM_ChassisRecordLog class and the DCIM_ChassisLogEntry.

This class shall be instantiated in the Implementation Namespace.

#### 7.1.1 Resource URIs

The class Resource URI shall be “http://schemas.dell.com/wbem/wscim/1/cim-schema/2/DCIM_ChassisRecordLog?__cimnamespace=root/dell/cmc”

The key property shall be the InstanceID.


#### 7.1.2 Operations

The following table lists the implemented operations on DCIM_ChassisRecordLog.

<table>
<thead>
<tr>
<th>Operation Name</th>
<th>Requirements</th>
<th>Required Input</th>
</tr>
</thead>
<tbody>
<tr>
<td>Get</td>
<td>Mandatory</td>
<td>Instance URI</td>
</tr>
<tr>
<td>Enumerate</td>
<td>Mandatory</td>
<td>Class URI</td>
</tr>
<tr>
<td>Invoke</td>
<td>Mandatory</td>
<td>Instance URI (see section 8.1)</td>
</tr>
</tbody>
</table>

#### 7.1.3 Class Properties

The following table lists the implemented properties for DCIM_ChassisRecordLog instance representing a system in a system. The “Requirements” column shall denote whether the property is implemented (for

<table>
<thead>
<tr>
<th>Element Name</th>
<th>Requirement</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dell_ElementConformsToRecLogProfile</td>
<td>Mandatory</td>
<td>The class shall be implemented in both the Interop and Implementation Namespaces. See section 7.8</td>
</tr>
<tr>
<td>Dell_RecordLogProfile</td>
<td>Mandatory</td>
<td>The class shall be implemented in the Interop Namespaces. See section 7.8</td>
</tr>
</tbody>
</table>

Indications:
None defined in this profile
requirement definitions, see section 3). The “Additional Requirements” column shall denote either possible values for the property, or requirements on the value formulation.

Table 4 – DCIM_ChassisRecordLog - Properties

<table>
<thead>
<tr>
<th>Property Name</th>
<th>Type</th>
<th>Requirements</th>
<th>Additional Requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>InstanceID</td>
<td>String</td>
<td>Mandatory</td>
<td>The property value shall be “DCIM:ChassisLog”.</td>
</tr>
<tr>
<td>MaxNumberOfRecords</td>
<td>Uint64</td>
<td>Mandatory</td>
<td>The property shall have the value 0 meaning there is no restriction on the maximum number of records.</td>
</tr>
<tr>
<td>LogState</td>
<td>Uint16</td>
<td>Mandatory</td>
<td>The property shall have the value 2 (Normal). The successful instantiation of this class denotes that the logging is fully functional.</td>
</tr>
<tr>
<td>OverwritePolicy</td>
<td>Uint16</td>
<td>Mandatory</td>
<td>The property shall have the value 8 (Archives), and the log shall archive the old entries when close to its full capacity.</td>
</tr>
<tr>
<td>RequestedState</td>
<td>Uint16</td>
<td>Mandatory</td>
<td>The property shall have the value 12 (Not Applicable).</td>
</tr>
<tr>
<td>EnabledState</td>
<td>Uint16</td>
<td>Mandatory</td>
<td>The property shall have the value 2 (Enabled). The logging is always enabled.</td>
</tr>
<tr>
<td>OperationalStatus[]</td>
<td>Uint16</td>
<td>Mandatory</td>
<td>The property shall have the value 2 (OK). The successful instantiation of this class denotes that the logging is fully functional.</td>
</tr>
<tr>
<td>HealthState</td>
<td>Uint16</td>
<td>Mandatory</td>
<td>The property shall have the value 5 (OK). The successful instantiation of this class denotes that the logging is fully functional.</td>
</tr>
<tr>
<td>ElementName</td>
<td>String</td>
<td>Mandatory</td>
<td>The property shall have the value “Chassis Log”.</td>
</tr>
<tr>
<td>CurrentNumberOfRecords</td>
<td>Uint64</td>
<td>Mandatory</td>
<td>The property value shall be the number of non-archived section of the Chassis Log.</td>
</tr>
</tbody>
</table>

7.2 DCIM_ChassisRecordLogCapabilities – Chassis Log Capabilities

This section describes the implementation for the DCIM_ChassisRecordLogCapabilities class. DCIM_ChassisElementCapabilities shall reference the DCIM_ChassisRecordLog class and the DCIM_ChassisRecordLogCapabilities class. This class shall be instantiated in the Implementation Namespace.

7.2.1 Resource URIs

The class Resource URI shall be “http://schemas.dell.com/wbem/wscim/1/cim-schema/2/DCIM_ChassisRecordLogCapabilities?__cimnamespace=root/dell/cmc”.

The key property shall be the InstanceID.


7.2.2 Operations

The following table lists the operations implemented on DCIM_ChassisRecordLogCapabilities.
Table 5 – DCIM_ChassisRecordLogCapabilities - Operations

<table>
<thead>
<tr>
<th>Operation Name</th>
<th>Requirements</th>
<th>Required Input</th>
</tr>
</thead>
<tbody>
<tr>
<td>Get</td>
<td>Mandatory</td>
<td>Instance URI</td>
</tr>
<tr>
<td>Enumerate</td>
<td>Mandatory</td>
<td>Class URI</td>
</tr>
</tbody>
</table>

7.2.3 Class Properties

The following table lists the implemented properties for DCIM_ChassisRecordLogCapabilities instance representing the capabilities of the ChassisRecordLog. The “Requirements” column shall denote whether the property is implemented (for requirement definitions, see section 3). The “Additional Requirements” column shall denote either possible values for the property, or requirements on the value formulation.

Table 6 – DCIM_ChassisRecordLogCapabilities - Properties

<table>
<thead>
<tr>
<th>Property Name</th>
<th>Type</th>
<th>Requirements</th>
<th>Additional Requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>InstanceID</td>
<td>String</td>
<td>Mandatory</td>
<td>The property value shall be “DCIM:ChassisLogCapabilities”</td>
</tr>
<tr>
<td>RequestedStatesSupported[]</td>
<td>Uint16</td>
<td>Mandatory</td>
<td>The property array shall be empty meaning the log state management is not supported</td>
</tr>
<tr>
<td>ElementNameEditSupported</td>
<td>Boolean</td>
<td>Mandatory</td>
<td>The property shall have value FALSE.</td>
</tr>
<tr>
<td>SupportedRecordTypes[]</td>
<td>Uint16</td>
<td>Mandatory</td>
<td>The property shall have value 3 (Standard Messages).</td>
</tr>
</tbody>
</table>

7.3 DCIM_ChassisLogEntry – Chassis Log Entry

This section describes the implementation for the DCIM_ChassisLogEntry class.

DCIM_ChassisLogManagesRecord shall reference the DCIM_ChassisRecordLog class and the DCIM_ChassisLogEntry.

This class shall be instantiated in the Implementation Namespace.

7.3.1 Resource URIs

The class Resource URI shall be “http://schemas.dell.com/wbem/wscim/1/cim-schema/2/DCIM_ChassisLogEntry?__cimnamespace=root/dellcmc”

The key property shall be the InstanceID.


7.3.2 Operations

The following table lists the operations implemented on DCIM_ChassisLogEntry.

Table 7 – DCIM_ChassisLogEntry - Operations

<table>
<thead>
<tr>
<th>Operation Name</th>
<th>Requirements</th>
<th>Required Input</th>
</tr>
</thead>
<tbody>
<tr>
<td>Get</td>
<td>Mandatory</td>
<td>Instance URI</td>
</tr>
<tr>
<td>Enumerate</td>
<td>Mandatory</td>
<td>Class URI</td>
</tr>
<tr>
<td>Set</td>
<td>Mandatory</td>
<td>Instance URI</td>
</tr>
</tbody>
</table>
The following table lists the implemented properties for DCIM_ChassisLogEntry instance representing a system in a system. The “Requirements” column shall denote whether the property is implemented (for requirement definitions, see section 3). The “Additional Requirements” column shall denote either possible values for the property, or requirements on the value formulation.

Table 8 – DCIM_ChassisLogEntry – Properties

<table>
<thead>
<tr>
<th>Property Name</th>
<th>Type</th>
<th>Requirements</th>
<th>Additional Requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>InstanceID</td>
<td>String</td>
<td>Mandatory</td>
<td>The property value shall have format “DCIM:&lt;sequence number of log entry&gt;”</td>
</tr>
<tr>
<td>LogInstanceID</td>
<td>String</td>
<td>Mandatory</td>
<td>The property value shall be “DCIM:ChassisLog”.</td>
</tr>
<tr>
<td>LogName</td>
<td>String</td>
<td>Mandatory</td>
<td>The property value shall be “Chassis Log”.</td>
</tr>
<tr>
<td>RecordID</td>
<td>String</td>
<td>Mandatory</td>
<td>The property value shall be sequence number of log entry.</td>
</tr>
<tr>
<td>CreationTimeStamp</td>
<td>Datetime</td>
<td>Mandatory</td>
<td>The property value shall represent time stamp of log entry creation.</td>
</tr>
<tr>
<td>ElementName</td>
<td>String</td>
<td>Mandatory</td>
<td>The property value shall represent the detailed description of the logged event.</td>
</tr>
</tbody>
</table>
| PerceivedSeverity   | uint16     | Mandatory    | The property value shall represent the severity of the logged event and shall have one of the following values:  
  • 2 (Information)  
  • 3 (Degraded/Warning)  
  • 4(Minor)  
  • 5(Major)  
  • 6(Critical)  
  • 7(Fatal/NonRecoverable) |
<p>| OwningEntity        | String     | Mandatory    | The property value shall be “DCIM”. |
| MessageID           | String     | Mandatory    | The property value shall represent the message ID corresponding to the logged event. |
| Message             | String     | Mandatory    | The property value shall represent the detailed description of the logged event. |
| MessageArguments[]  | String     | Mandatory    | The property value shall be an array containing the dynamic content of the message. |</p>
<table>
<thead>
<tr>
<th>Property Name</th>
<th>Type</th>
<th>Requirements</th>
<th>Additional Requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>Category[]</td>
<td>String</td>
<td>Mandatory</td>
<td>The property value shall represent the category of the logged event entry and shall be one of the following values:</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>• System</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>• Storage</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>• Audit</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>• Configuration</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>• Updates</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>• Work Notes</td>
</tr>
<tr>
<td>AgentID</td>
<td>String</td>
<td>Mandatory</td>
<td>The property value shall represent the ID of the source agent responsible for creation of the log entry event.</td>
</tr>
<tr>
<td>FQDD</td>
<td>String</td>
<td>Mandatory</td>
<td>The property value shall represent the FQDD of the device that the logged event relates to.</td>
</tr>
<tr>
<td>Comment</td>
<td>String</td>
<td>Mandatory</td>
<td>The property value shall represent the user specified comment for the logged event. This property represents only a comment field to an existing log entry.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>NOTE: This property shall be set using the Set (Put) operation.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>NOTE: In order to add a new LCL log entry, such as a worknote, the DCIM_LCService.InsertCommentInLCLLog() method in the LC Management Profile shall be invoked.</td>
</tr>
<tr>
<td>ConfigResultsAvailable</td>
<td>Boolean</td>
<td>Mandatory</td>
<td>The property value of TRUE shall represent that the configuration results are available in the XML format.</td>
</tr>
<tr>
<td>RawEventData</td>
<td>String</td>
<td>Optional</td>
<td>The property shall contain the raw event data. In the case of IPMI based events, IPMI SEL binary data.</td>
</tr>
</tbody>
</table>

### 7.4 Dell_HWLog – Chassis Event Log (CEL)

This section describes the implementation for the Dell_HWLog class that represents the chassis event log (CEL). The CEL log never overwrites itself when it reaches the full capacity (the maximum number of entries in the log is represented by the MaxNumberOfRecords property).

Dell_ModularUseOfLog shall reference the Dell_HWLog class and the Dell_Modular class.

Dell_HWLogManagesRecord shall reference the Dell_HWLog class and the Dell_HWLogEntry.

This class shall be instantiated in the Implementation Namespace.

#### 7.4.1 Resource URIs

The class Resource URI shall be “http://schemas.dell.com/wbem/wscim/1/cim-schema/2/Dell_HWLog?__cimnamespace=root/dell/cmc”

The key property shall be the InstanceID.
The instance Resource URI for Dell_HWLog instance shall be:

```
"http://schemas.dell.com/wbem/wscim/1/cim-schema/2/
Dell_HWLog?__cimnamespace=root/dell/cmc+InstanceID=Dell:HardwareLog"
```

### 7.4.2 Operations

The following table lists the implemented operations on Dell_HWLog.

<table>
<thead>
<tr>
<th>Operation Name</th>
<th>Requirements</th>
<th>Required Input</th>
</tr>
</thead>
<tbody>
<tr>
<td>Get</td>
<td>Mandatory</td>
<td>Instance URI</td>
</tr>
<tr>
<td>Enumerate</td>
<td>Mandatory</td>
<td>Class URI</td>
</tr>
<tr>
<td>Invoke</td>
<td>Mandatory</td>
<td>Instance URI (see section 8.2)</td>
</tr>
</tbody>
</table>

### 7.4.3 Class Properties

The following table lists the implemented properties for Dell_HWLog instance representing a system in a system. The “Requirements” column shall denote whether the property is implemented (for requirement definitions, see section 3). The “Additional Requirements” column shall denote either possible values for the property, or requirements on the value formulation.

<table>
<thead>
<tr>
<th>Property Name</th>
<th>Type</th>
<th>Requirements</th>
<th>Additional Requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>InstanceID</td>
<td>String</td>
<td>Mandatory</td>
<td>The property value shall be “Dell:HardwareLog”.</td>
</tr>
<tr>
<td>MaxNumberOfRecords</td>
<td>Uint64</td>
<td>Mandatory</td>
<td>The property shall have represent the maximum number of records. The property may have value 512.</td>
</tr>
<tr>
<td>LogState</td>
<td>Uint16</td>
<td>Mandatory</td>
<td>The property shall have the value 2 (Normal). The successful instantiation of this class denotes that the logging is fully functional.</td>
</tr>
<tr>
<td>OverwritePolicy</td>
<td>Uint16</td>
<td>Mandatory</td>
<td>The property shall have the value 7 (Never Overwrites), and the log shall archive the old entries when close to its full capacity.</td>
</tr>
<tr>
<td>RequestedState</td>
<td>Uint16</td>
<td>Mandatory</td>
<td>The property shall have the value 5 (No Change).</td>
</tr>
<tr>
<td>EnabledState</td>
<td>Uint16</td>
<td>Mandatory</td>
<td>The property shall have the value 2 (Enabled). The logging is always enabled.</td>
</tr>
<tr>
<td>OperationalStatus</td>
<td>Uint16</td>
<td>Mandatory</td>
<td>The property shall have the value 2 (OK). The successful instantiation of this class denotes that the logging is fully functional.</td>
</tr>
<tr>
<td>HealthState</td>
<td>Uint16</td>
<td>Mandatory</td>
<td>The property shall have the value 5 (OK). The successful instantiation of this class denotes that the logging is fully functional.</td>
</tr>
<tr>
<td>ElementName</td>
<td>String</td>
<td>Mandatory</td>
<td>The property shall have the value “CMC Hardware (CEL) Log”.</td>
</tr>
<tr>
<td>CurrentNumberOfRecords</td>
<td>Uint64</td>
<td>Mandatory</td>
<td>The property value shall be the number of non-archived section of the CEL log.</td>
</tr>
</tbody>
</table>

### 7.5 Dell_HWLogEntry – CEL Log Entry

This section describes the implementation for the Dell_HWLogEntry class. Dell_HWLogManagesRecord shall reference the Dell_HWLog class and the Dell_HWLogEntry. This class shall be instantiated in the Implementation Namespace.
7.5.1 Resource URIs

The class Resource URI shall be “http://schemas.dell.com/wbem/wscim/1/cim-schema/2/Dell_HWLogEntry?__cimnamespace=root/dell/cmc”

The key property shall be the InstanceID.

The instance Resource URI for Dell_HWLogEntry instance shall be:


7.5.2 Operations

The following table lists the operations implemented on Dell_HWLogEntry.

<table>
<thead>
<tr>
<th>Operation Name</th>
<th>Requirements</th>
<th>Required Input</th>
</tr>
</thead>
<tbody>
<tr>
<td>Get</td>
<td>Mandatory</td>
<td>Instance URI</td>
</tr>
<tr>
<td>Enumerate</td>
<td>Mandatory</td>
<td>Class URI</td>
</tr>
</tbody>
</table>

7.5.3 Class Properties

The following table lists the implemented properties for Dell_HWLogEntry instance representing a system in a system. The “Requirements” column shall denote whether the property is implemented (for requirement definitions, see section 3). The “Additional Requirements” column shall denote either possible values for the property, or requirements on the value formulation.

<table>
<thead>
<tr>
<th>Property Name</th>
<th>Type</th>
<th>Requirements</th>
<th>Additional Requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>InstanceID</td>
<td>String</td>
<td>Mandatory</td>
<td>The property value shall have format “Dell:hwlentry:&lt;sequence number of log entry&gt;”</td>
</tr>
<tr>
<td>LogInstanceId</td>
<td>String</td>
<td>Mandatory</td>
<td>The property value shall be “Dell:HardwareLog”.</td>
</tr>
<tr>
<td>LogName</td>
<td>String</td>
<td>Mandatory</td>
<td>The property value shall be “CMC Hardware (CEL) Log”.</td>
</tr>
<tr>
<td>RecordID</td>
<td>String</td>
<td>Mandatory</td>
<td>The property value shall be sequence number of log entry.</td>
</tr>
<tr>
<td>RecordData</td>
<td>String</td>
<td>Mandatory</td>
<td>The property value shall be the log entry data describing the logged event.</td>
</tr>
<tr>
<td>RecordDataFormat</td>
<td>String</td>
<td>Mandatory</td>
<td>The property value shall be “string”.</td>
</tr>
<tr>
<td>CreationTimeStamp</td>
<td>Datetime</td>
<td>Mandatory</td>
<td>The property value shall represent time stamp of log entry creation.</td>
</tr>
<tr>
<td>ElementName</td>
<td>String</td>
<td>Mandatory</td>
<td>The property value shall be “CMC Hardware (CEL) Log Entry”.</td>
</tr>
</tbody>
</table>

7.6 Dell_SWLog – CMC Software Log

This section describes the implementation for the Dell_SWLog class that represents the CMC software log that is part of the Chassis Log.
Dell_ChassisUseOfLog shall reference the Dell_SWLog class and the Dell_ChassisMgr class.  

DCIM_ChassisElementCapabilities shall reference the Dell_SWLog class and the Dell_SWLogCapabilities class.  

Dell_SWLogManagesRecord shall reference the Dell_SWLog class and the Dell_SWLogEntry.  

This class shall be instantiated in the Implementation Namespace.  

7.6.1 Resource URIs  
The class Resource URI shall be “http://schemas.dell.com/wbem/wscim/1/cim-schema/2/Dell_SWLog?__cimnamespace=root/dell/cmc”  
The key property shall be the InstanceID.  

7.6.2 Operations  
The following table lists the implemented operations on Dell_SWLog.  

Table 13 – Dell_SWLog - Operations  

<table>
<thead>
<tr>
<th>Operation Name</th>
<th>Requirements</th>
<th>Required Input</th>
</tr>
</thead>
<tbody>
<tr>
<td>Get</td>
<td>Mandatory</td>
<td>Instance URI</td>
</tr>
<tr>
<td>Enumerate</td>
<td>Mandatory</td>
<td>Class URI</td>
</tr>
</tbody>
</table>

7.6.3 Class Properties  
The following table lists the implemented properties for Dell_SWLog instance representing a system in a system. The “Requirements” column shall denote whether the property is implemented (for requirement definitions, see section 3). The “Additional Requirements” column shall denote either possible values for the property, or requirements on the value formulation.  

Table 14 – Dell_SWLog - Properties  

<table>
<thead>
<tr>
<th>Property Name</th>
<th>Type</th>
<th>Requirements</th>
<th>Additional Requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>InstanceID</td>
<td>String</td>
<td>Mandatory</td>
<td>The property value shall be “Dell:SoftwareLog”.</td>
</tr>
<tr>
<td>MaxNumberOfRecords</td>
<td>Uint64</td>
<td>Mandatory</td>
<td>The property shall have the value 0 meaning there is no restriction on the maximum number of records. However, old records are archived as part of the chassis log.</td>
</tr>
<tr>
<td>LogState</td>
<td>Uint16</td>
<td>Mandatory</td>
<td>The property shall have the value 2 (Normal). The successful instantiation of this class denotes that the logging is fully functional.</td>
</tr>
<tr>
<td>OverwritePolicy</td>
<td>Uint16</td>
<td>Mandatory</td>
<td>The property shall have the value 2 (Wraps When Full). The displaced logs will actually be available as part of the archived chassis log.</td>
</tr>
<tr>
<td>RequestedState</td>
<td>Uint16</td>
<td>Mandatory</td>
<td>The property shall have the value 5 (No Change).</td>
</tr>
<tr>
<td>EnabledState</td>
<td>Uint16</td>
<td>Mandatory</td>
<td>The property shall have the value 2 (Enabled). The logging is always enabled.</td>
</tr>
<tr>
<td>OperationalStatus[]</td>
<td>Uint16</td>
<td>Mandatory</td>
<td>The property shall have the value 2 (OK). The successful instantiation of this class denotes that the logging is fully functional.</td>
</tr>
</tbody>
</table>
The property shall have the value 5 (OK). The successful instantiation of this class denotes that the logging is fully functional.

<table>
<thead>
<tr>
<th>Property Name</th>
<th>Type</th>
<th>Requirements</th>
<th>Additional Requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>HealthState</td>
<td>Uint16</td>
<td>Mandatory</td>
<td>The property shall have the value “CMC Software Log”.</td>
</tr>
<tr>
<td>ElementName</td>
<td>String</td>
<td>Mandatory</td>
<td>The property value shall be the number of non-archived section of the chassis log and NOT the cmc software log. The CMC software log number of records is less than or equal to the value of this property.</td>
</tr>
<tr>
<td>CurrentNumberOfRecords</td>
<td>Uint64</td>
<td>Mandatory</td>
<td></td>
</tr>
</tbody>
</table>

7.7 Dell_SWLogEntry – CMC Software Log Entry

This section describes the implementation for the Dell_SWLogEntry class.

Dell_SWLogManagesRecord shall reference the Dell_SWLog class and the Dell_SWLogEntry.

This class shall be instantiated in the Implementation Namespace.

7.7.1 Resource URIs


The key property shall be the InstanceID.


7.7.2 Operations

The following table lists the operations implemented on Dell_SWLogEntry.

Table 15 – Dell_SWLogEntry - Operations

<table>
<thead>
<tr>
<th>Operation Name</th>
<th>Requirements</th>
<th>Required Input</th>
</tr>
</thead>
<tbody>
<tr>
<td>Get</td>
<td>Mandatory</td>
<td>Instance URI</td>
</tr>
<tr>
<td>Enumerate</td>
<td>Mandatory</td>
<td>Class URI</td>
</tr>
</tbody>
</table>

7.7.3 Class Properties

The following table lists the implemented properties for Dell_SWLogEntry instance representing a system in a system. The “Requirements” column shall denote whether the property is implemented (for requirement definitions, see section 3). The “Additional Requirements” column shall denote either possible values for the property, or requirements on the value formulation.

Table 16 – Dell_SWLogEntry – Properties

<table>
<thead>
<tr>
<th>Property Name</th>
<th>Type</th>
<th>Requirements</th>
<th>Additional Requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>InstanceID</td>
<td>String</td>
<td>Mandatory</td>
<td>The property value shall have format “DCIM:swlentry&lt;sequence number of log entry&gt;”</td>
</tr>
<tr>
<td>LogInstanceID</td>
<td>String</td>
<td>Mandatory</td>
<td>The property value shall be “Dell:SoftwareLog”.</td>
</tr>
<tr>
<td>Property Name</td>
<td>Type</td>
<td>Requirements</td>
<td>Additional Requirements</td>
</tr>
<tr>
<td>---------------</td>
<td>---------</td>
<td>--------------</td>
<td>--------------------------------------------</td>
</tr>
<tr>
<td>LogName</td>
<td>String</td>
<td>Mandatory</td>
<td>The property value shall be “CMC Software Log”.</td>
</tr>
<tr>
<td>RecordID</td>
<td>String</td>
<td>Mandatory</td>
<td>The property value shall be sequence number of log entry.</td>
</tr>
<tr>
<td>RecordData</td>
<td>String</td>
<td>Mandatory</td>
<td>The property value shall be the log entry data describing the logged event.</td>
</tr>
<tr>
<td>RecordFormat</td>
<td>String</td>
<td>Mandatory</td>
<td>The property value shall be “string”.</td>
</tr>
<tr>
<td>CreationTimeStamp</td>
<td>Datetime</td>
<td>Mandatory</td>
<td>The property value shall represent time stamp of log entry creation.</td>
</tr>
<tr>
<td>ElementName</td>
<td>String</td>
<td>Mandatory</td>
<td>The property value shall be “CMC Software Log Entry”.</td>
</tr>
</tbody>
</table>

### 7.8 Dell_RecordLogProfile - DMTF Chassis Record Log Profile 1.0 Registration

This section describes the implementation for the Dell_RecordLogProfile class.

This class shall be instantiated in the Interop Namespace.

The Dell_ElementConformsToRecLogProfile shall be instantiate in both the Interop Namespace and Implementation Namespace: root/dcim and shall reference the Dell_RecordLogProfile instance.

#### 7.8.1 Resource URIs for WinRM®

The class Resource URI shall be "http://schemas.dell.com/wbem/wscim/1/cim-schema/2/Dell_RecordLogProfile?__cimnamespace=root/interop"


The key property shall be the InstanceID property.

#### 7.8.2 Operations

The following table lists the operations implemented on CIM_RegisteredProfile.

<table>
<thead>
<tr>
<th>Operation Name</th>
<th>Requirements</th>
<th>Required Input</th>
</tr>
</thead>
<tbody>
<tr>
<td>Get</td>
<td>Mandatory</td>
<td>Instance URI</td>
</tr>
<tr>
<td>Enumerate</td>
<td>Mandatory</td>
<td>Class URI</td>
</tr>
</tbody>
</table>

#### 7.8.3 Dell_RecordLogProfile Properties

The following table lists the implemented properties for CIM_RegisteredProfile instance representing the Chassis Record Log Profile implementation. The “Requirements” column shall denote whether the property is implemented (for requirement definitions, see section 3). The “Additional Requirements” column shall denote either possible values for the property, or requirements on the value formulation.

<table>
<thead>
<tr>
<th>Property Name</th>
<th>Requirement</th>
<th>Type</th>
<th>Additional Requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>InstanceID</td>
<td>Mandatory</td>
<td>string</td>
<td>The property value shall be “Dell:reg2”.</td>
</tr>
</tbody>
</table>
### DCIM_RecordLogRegisteredProfile - DCIM Chassis Record Log Profile

#### Profile Registration

This section describes the implementation for the Dell_RecordLogProfile class.

This class shall be instantiated in the Interop Namespace.

The DCIM_ElementConformsToRecordLogProfile shall be instantiate in both the Interop Namespace and Implementation Namespace: root/dcim and shall reference the DCIM_RecordLogRegisteredProfile instance.

#### 7.9.1 Resource URIs for WinRM®

The class Resource URI shall be "http://schemas.dell.com/wbem/wscim/1/cim-schema/2/DCIM_RecordLogRegisteredProfile?__cimspace=<Interop Namespace"

The key property shall be the InstanceID property.

The instance Resource URI shall be: "http://schemas.dell.com/wbem/wscim/1/cim-schema/2/DCIM_RecordLogRegisteredProfile?__cimspace=root/interop+InstanceID=DCIM:RecordLog:1.0.0"

#### 7.9.2 Operations

The following table details the implemented operations on Dell_RecordLogProfile.

<table>
<thead>
<tr>
<th>Operation Name</th>
<th>Requirements</th>
<th>Required Input</th>
</tr>
</thead>
<tbody>
<tr>
<td>Get</td>
<td>Mandatory</td>
<td>Instance URI</td>
</tr>
<tr>
<td>Enumerate</td>
<td>Mandatory</td>
<td>Class URI</td>
</tr>
</tbody>
</table>

#### 7.9.3 Properties

The following table lists the implemented properties for DCIM_RecordLogRegisteredProfile instance representing the Chassis Record Log Profile implementation. The “Requirements” column shall denote whether the property is implemented (for requirement definitions, see section 3). The “Additional Requirements” column shall denote either possible values for the property, or requirements on the value formulation.

<table>
<thead>
<tr>
<th>Property Name</th>
<th>Requirement</th>
<th>Type</th>
<th>Additional Requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>InstanceID</td>
<td>Mandatory</td>
<td>string</td>
<td>The property shall have a value of &quot;DCIM:RecordLog:1.0.0&quot;.</td>
</tr>
<tr>
<td>RegisteredName</td>
<td>Mandatory</td>
<td>string</td>
<td>This property shall have a value of &quot;Chassis Record Log&quot;.</td>
</tr>
</tbody>
</table>
8 Methods

8.1 DCIM_ChassisRecordLog.ClearChassisLog()

The ClearChassisLog() method is used to delete all the entries in the Chassis log. A return code value of zero shall indicate that the log entries deletion was successfully initiated.

DCIM_ChassisRecordLog.ClearChassisLog() return code values shall be as specified in Table 21.

Parameters and standard messages are defined for the CIM_RecordLog.ClearLog() method in Table 22 and Table 23.

<table>
<thead>
<tr>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>Request was successfully executed.</td>
</tr>
<tr>
<td>1</td>
<td>Method is not supported in the implementation.</td>
</tr>
<tr>
<td>2</td>
<td>Error occurred</td>
</tr>
</tbody>
</table>

Table 22 – DCIM_ChassisRecordLog.ClearChassisLog() Parameters

<table>
<thead>
<tr>
<th>Qualifiers</th>
<th>Name</th>
<th>Type</th>
<th>Description and Additional Requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>OUT</td>
<td>MessageID</td>
<td>string</td>
<td>On error, the error message ID which can be used to index into the Message Registry when provided.</td>
</tr>
<tr>
<td>OUT</td>
<td>Message</td>
<td>string</td>
<td>On error, the error message text in English corresponding to the message ID.</td>
</tr>
<tr>
<td>OUT</td>
<td>MessageArguments</td>
<td>string</td>
<td>On error, the error message substitution variables that may be used with message ID and Message Registry to allow internationalization of the error message.</td>
</tr>
</tbody>
</table>

Table 23 – DCIM_ChassisRecordLog.ClearChassisLog() Method: Standard Messages

<table>
<thead>
<tr>
<th>MessageID (OUT parameter)</th>
<th>Message</th>
<th>MessageArguments[]</th>
</tr>
</thead>
<tbody>
<tr>
<td>LOG004</td>
<td>Resource allocation failure</td>
<td></td>
</tr>
<tr>
<td>LOG005</td>
<td>Cannot perform the operation due to an unknown error in iDRAC.</td>
<td></td>
</tr>
</tbody>
</table>
8.2 Dell_HWLog.ClearLog()

The ClearLog() method is used to delete all the entries in the chassis event log (CEL). A return code value of zero shall indicate that the log entries deletion was successfully initiated.

Dell_HWLog.ClearLog() return code values shall be as specified in Table 24.

No parameters or standard messages are defined for the Dell_HWLog.ClearLog() method.

Table 24 – Dell_HWLog.ClearLog() Method: Return Code Values

<table>
<thead>
<tr>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>Request was successfully executed.</td>
</tr>
<tr>
<td>1</td>
<td>Method is not supported in the implementation.</td>
</tr>
<tr>
<td>2</td>
<td>Error occurred</td>
</tr>
</tbody>
</table>

9 Use Cases

See Lifecycle Controller (LC) Integration Best Practices Guide.

10 CIM Elements

No additional details specified.

11 Privilege and License Requirement

The following table describes the privilege and license requirements for the listed operations. For the detailed explanation of the privileges and licenses, refer to the Dell WSMAN Licenses and Privileges specification.

Table 25 – Privilege and License Requirements

<table>
<thead>
<tr>
<th>Class and Method</th>
<th>Operation</th>
<th>User Privilege Required</th>
<th>License Required</th>
</tr>
</thead>
<tbody>
<tr>
<td>Class and Method</td>
<td>Operation</td>
<td>User Privilege Required</td>
<td>License Required</td>
</tr>
<tr>
<td>-----------------</td>
<td>-----------</td>
<td>-------------------------</td>
<td>------------------</td>
</tr>
<tr>
<td>DCIM_ChassisRecordLog</td>
<td>ENUMERATE, GET</td>
<td>Login to CMC</td>
<td>None</td>
</tr>
<tr>
<td>DCIM_ChassisRecordLog.ClearChassisLog()</td>
<td>INVOKE</td>
<td>Login to CMC, Log Clear Admin</td>
<td>None</td>
</tr>
<tr>
<td>DCIM_ChassisRecordLogCapabilities</td>
<td>ENUMERATE, GET</td>
<td>Login to CMC</td>
<td>None</td>
</tr>
<tr>
<td>DCIM_ChassisLogEntry</td>
<td>ENUMERATE, GET</td>
<td>Login to CMC</td>
<td>None</td>
</tr>
<tr>
<td>DCIM_ChassisLogEntry</td>
<td>SET</td>
<td>Login to CMC, Chassis Configure Admin</td>
<td>None</td>
</tr>
<tr>
<td>DCIM_ChassisElementCapabilities</td>
<td>ENUMERATE, GET</td>
<td>Login to CMC</td>
<td>None</td>
</tr>
<tr>
<td>Dell_ChassisUseOfLog</td>
<td>ENUMERATE, GET</td>
<td>Login to CMC</td>
<td>None</td>
</tr>
<tr>
<td>DCIM_ChassisLogManagesRecord</td>
<td>ENUMERATE, GET</td>
<td>Login to CMC</td>
<td>None</td>
</tr>
<tr>
<td>Dell_HWLog</td>
<td>ENUMERATE, GET</td>
<td>Login to CMC</td>
<td>None</td>
</tr>
<tr>
<td>Dell_HWLog.ClearLog()</td>
<td>INVOKE</td>
<td>Login to CMC, Log Clear Admin</td>
<td>None</td>
</tr>
<tr>
<td>Dell_HWLogEntry</td>
<td>ENUMERATE, GET</td>
<td>Login to CMC</td>
<td>None</td>
</tr>
<tr>
<td>Dell_HWLogManagesRecord</td>
<td>ENUMERATE, GET</td>
<td>Login to CMC</td>
<td>None</td>
</tr>
<tr>
<td>Dell_ModularUseOfLog</td>
<td>ENUMERATE, GET</td>
<td>Login to CMC</td>
<td>None</td>
</tr>
<tr>
<td>Dell_SWLog</td>
<td>ENUMERATE, GET</td>
<td>Login to CMC</td>
<td>None</td>
</tr>
<tr>
<td>Dell_SWLogEntry</td>
<td>ENUMERATE, GET</td>
<td>Login to CMC</td>
<td>None</td>
</tr>
<tr>
<td>DCIM_ElementConformsToRecordLogProfile</td>
<td>ENUMERATE, GET</td>
<td>Login to CMC</td>
<td>None</td>
</tr>
<tr>
<td>DCIM_RecordLogRegisteredProfile</td>
<td>ENUMERATE, GET</td>
<td>Login to CMC</td>
<td>None</td>
</tr>
<tr>
<td>Dell_ElementConformsToRecLogProfile</td>
<td>ENUMERATE, GET</td>
<td>Login to CMC</td>
<td>None</td>
</tr>
<tr>
<td>Dell_RecordLogProfile</td>
<td>ENUMERATE, GET</td>
<td>Login to CMC</td>
<td>None</td>
</tr>
</tbody>
</table>
ANNEX A
(informative)

Change Log

<table>
<thead>
<tr>
<th>Version</th>
<th>Date</th>
<th>Description</th>
</tr>
</thead>
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<tr>
<td>1.0.0</td>
<td>05/30/2013</td>
<td>Initial version of the profile.</td>
</tr>
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