

# Record Log Profile

**Document Number:** DCIM1006  
**Document Type:** Specification  
**Document Status:** Published  
**Document Language:** E  
**Date:** 2012-03-08

**Version:** 1.0.0



THIS PROFILE IS FOR INFORMATIONAL PURPOSES ONLY, AND MAY CONTAIN TYPOGRAPHICAL ERRORS AND TECHNICAL INACCURACIES. THE CONTENT IS PROVIDED AS IS, WITHOUT EXPRESS OR IMPLIED WARRANTIES OF ANY KIND. ABSENT A SEPARATE AGREEMENT BETWEEN YOU AND DELL™ WITH REGARD TO FEEDBACK TO DELL ON THIS PROFILE SPECIFICATION, YOU AGREE ANY FEEDBACK YOU PROVIDE TO DELL REGARDING THIS PROFILE SPECIFICATION WILL BE OWNED AND CAN BE FREELY USED BY DELL.

© 2008 – 2012 Dell Inc. All rights reserved. Reproduction in any manner whatsoever without the express written permission of Dell, Inc. is strictly forbidden. For more information, contact Dell.

*Dell* and the *DELL* logo are trademarks of Dell Inc. Other trademarks and trade names may be used in this document to refer to either the entities claiming the marks and names or their products. Dell disclaims proprietary interest in the marks and names of others.

# CONTENTS

1	Scope .....	5
2	Normative References.....	5
3	Terms and Definitions .....	5
4	Symbols and Abbreviated Terms .....	7
5	Synopsis.....	7
6	Description .....	8
7	Implementation Description.....	11
7.1	DCIM_LCRecordLog – Lifecycle Log .....	12
7.2	DCIM_LCRecordLogCapabilities – LC Record Log Capabilities.....	13
7.3	DCIM_LCLogEntry – LC Log Entry.....	14
7.4	DCIM_SELRecordLog – SEL Record Log.....	16
7.5	DCIM_SELRecordLogCapabilities – SEL Record Log Capabilities .....	17
7.6	DCIM_SELLogEntry – SEL Log Entry .....	18
7.7	DCIM_RegisteredProfile - DMTF Record Log Profile 1.0 Registration .....	19
7.8	DCIM_RegisteredProfile - DMTF Record Log Profile 2.0 Registration .....	20
7.9	DCIM_LCRegisteredProfile - DCIM Record Log Profile Profile Registration .....	21
8	Methods.....	22
8.1	DCIM_SELRecordLog.ClearLog() .....	22
8.2	DCIM_LCRecordLog.GetConfigResults().....	23
9	Use Cases.....	23
10	CIM Elements.....	23
11	Privilege and License Requirement .....	23

## Figures

Figure 1 – Record Log Profile Class Diagram .....	8
Figure 2 – Record Log Profile Implementation (Lifecycle Log).....	9
Figure 3 – Record Log Profile Implementation (System Event Log) .....	10

## Tables

Table 1 – Related Profiles .....	7
Table 2 – Class Requirements: Record Log Profile.....	11
Table 3 – DCIM_LCRecordLog - Operations.....	12
Table 4 – DCIM_LCRecordLog - Properties .....	13
Table 5 – DCIM_LCRecordLogCapabilities - Operations .....	13
Table 6 – DCIM_LCRecordLogCapabilities - Properties .....	14
Table 7 – DCIM_LCLogEntry - Operations .....	14
Table 8 – DCIM_LCLogEntry – Properties .....	15
Table 9 – DCIM_SELRecordLog – Operations.....	17
Table 10 – DCIM_SELRecordLog - Properties.....	17
Table 11 – DCIM_SELRecordLogCapabilities - Operations.....	18
Table 12 – DCIM_SELRecordLogCapabilities - Properties.....	18
Table 13 – DCIM_SELLogEntry - Operations.....	19
Table 14 – DCIM_SELLogEntry - Properties.....	19
Table 15 – CIM_RegisteredProfile - Operations.....	20
Table 16 – DCIM_RegisteredProfile .....	20
Table 17 – CIM_RegisteredProfile - Operations .....	21
Table 18 – DCIM_RegisteredProfile .....	21
Table 19 – DCIM_RegisteredProfile - Operations .....	21
Table 20 – DCIM_LCRegisteredProfile.....	22
Table 21 – CIM_RecordLog.ClearLog( ) Method: Return Code Values .....	22
Table 22 – CIM_MetricService.GetConfigResults() Method: Standard Messages.....	22
Table 23 – CIM_MetricService.GetConfigResults() Method: Return Code Values .....	23
Table 24 – CIM_MetricService.GetConfigResults() Method: Parameters .....	23
Table 25 – CIM_MetricService.GetConfigResults() Method: Standard Messages.....	23
Table 26 – Privilege and License Requirements .....	24

# Record Log Profile

## 1 Scope

The DCIM Record Log Profile provides the management capabilities to represent logs of a managed system element. This profile provides information on managing Lifecycle and System Event logs. The log is modeled as referencing the managed system elements that populate the log, and the profile registration for the schema implementation version information.

## 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 2.0.0*
- 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](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:
  - DCIM\_LCLogEntry.mof
  - DCIM\_LCRecordLog.mof
  - DCIM\_LCRecordLogCapabilities.mof
  - DCIM\_LCElementCapabilities.mof
  - DCIM\_LCUseOfLog.mof
  - DCIM\_LCLogManagesRecord.mof
  - DCIM\_SELLogEntry.mof
  - DCIM\_SELRecordLog.mof
  - DCIM\_SELRecordLogCapabilities.mof
  - DCIM\_SELElementCapabilities.mof
  - DCIM\_SELUseOfLog.mof
  - DCIM\_SELLogManagesRecord.mof

## 3 Terms and Definitions

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

34 **3.1**  
35 **Conditional** – Indicates requirements to be followed strictly in order to conform to the document when the  
36 specified conditions are met.

37 **3.2**  
38 **Mandatory** – Indicates requirements to be followed strictly in order to conform to the document and from  
39 which no deviation is permitted.

40 **3.3**  
41 **May** – Indicates a course of action permissible within the limits of the document.

42 **3.4**  
43 **Optional** – Indicates a course of action permissible within the limits of the document.

44 **3.5**  
45 **can** – Used for statements of possibility and capability, whether material, physical, or causal.

46 **3.6**  
47 **cannot** – Used for statements of possibility and capability, whether material, physical, or causal.

48 **3.7**  
49 **need not** – Indicates a course of action permissible within the limits of the document.

50 **3.8**  
51 **referencing profile** – Indicates a profile that owns the definition of this class and can include a reference  
52 to this profile in its “Related Profiles” table.

53 **3.9**  
54 **shall** – Indicates requirements to be followed strictly in order to conform to the document and from which  
55 no deviation is permitted.  
56

## 4 Symbols and Abbreviated Terms

### 4.1

**CIM** – Common Information Model

### 4.2

**iDRAC** - Integrated Dell Remote Access Controller – management controller for blades and monolithic servers

### 4.3

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

### 4.4

**LIFO** – Last In, First Out

### 4.5

**LCL** – Lifecycle Log

### 4.6

**SEL** – System Event Log

## 5 Synopsis

**Profile Name:** 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/dcim

**Central Class:** DCIM\_LCRecordLog, DCIM\_SELRecordLog

**Scoping Class:** DCIM\_ComputerSystem

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

DCIM\_RecordLog shall be the Central Class.

Table 1 identifies profiles that are related to this profile.

**Table 1 – Related Profiles**

Profile Name	Organization	Version	Relationship
Profile Registration	DCIM	1.0	Reference
Record Log	DMTF	2.0	Specialize

## 6 Description

The *Record Log Profile* describes the properties and methods of logs generated by the managed 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.

Figure 1 represents the class diagram for Record Log Profile.

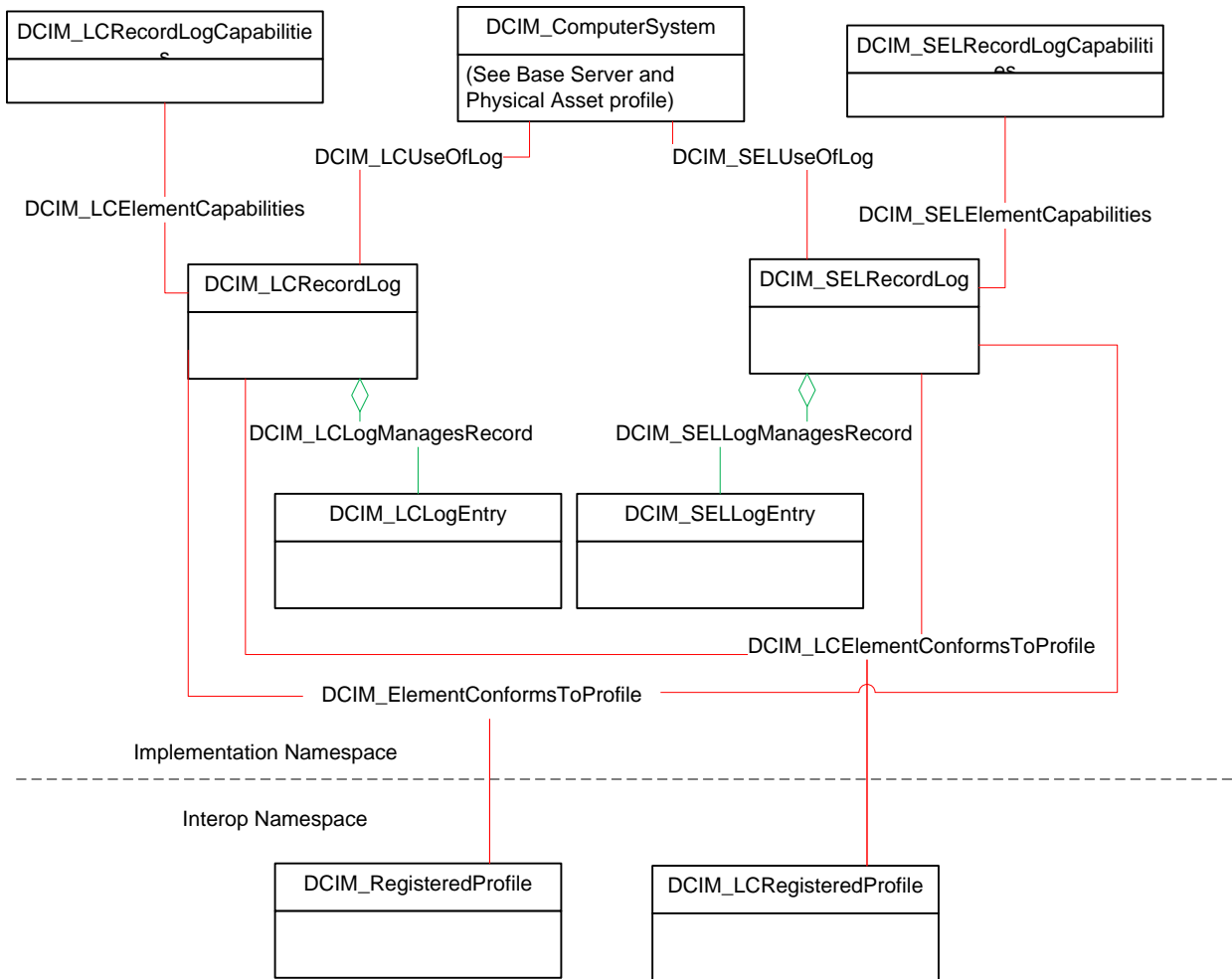


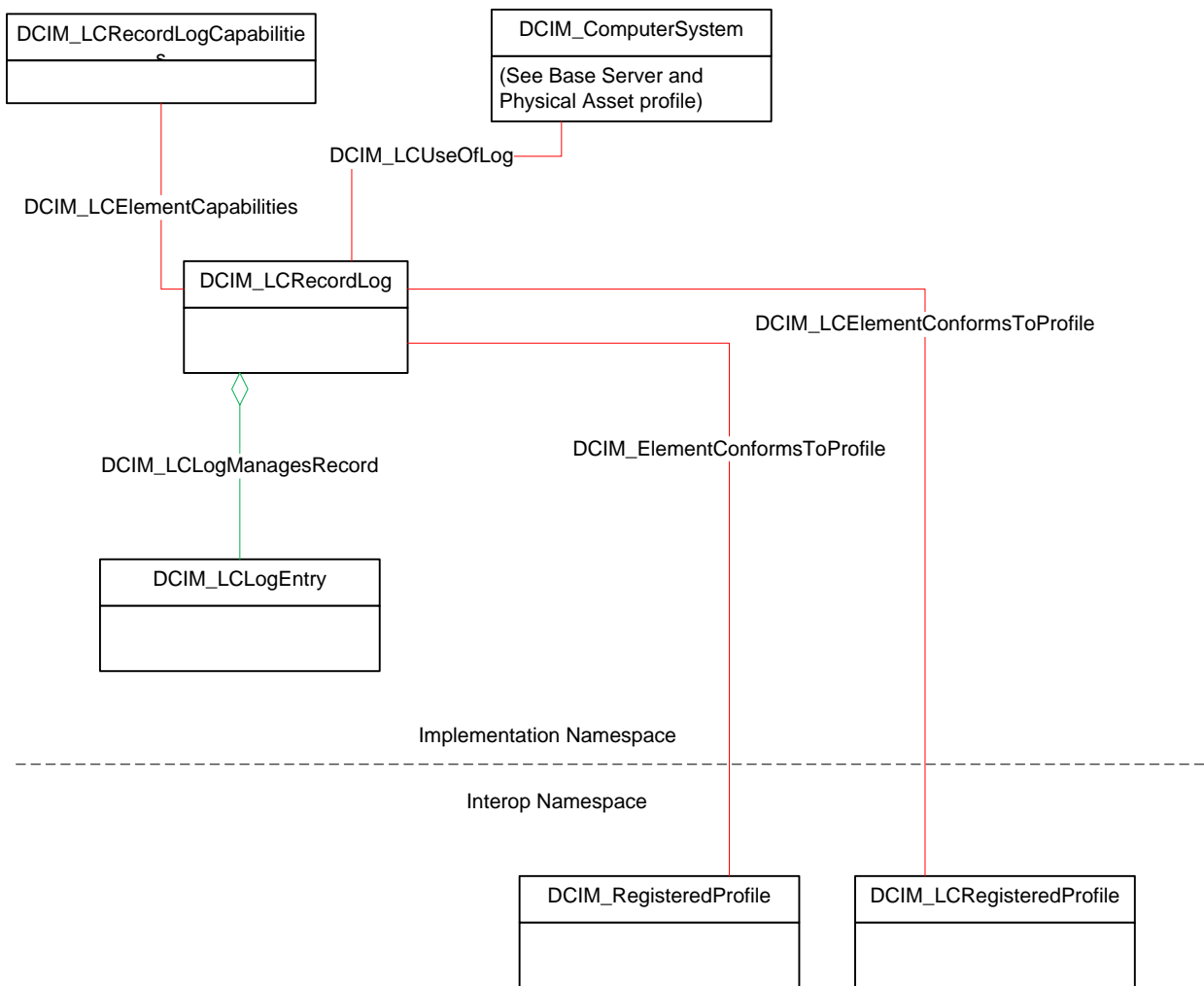
Figure 1 – Record Log Profile Class Diagram



Figure 2 represents the Lifecycle Log (LCL) representation. The DCIM\_LCRecordLog class represents the container for the Lifecycle log entries. The individual log entries, which are represented by the DCIM\_LCLogEntry instances, are aggregated under the DCIM\_LCRecordLog instance through the DCIM\_LCLogManagesRecord association. The managed system element that is associated with the log, uses the log, or populates the log is referenced through the DCIM\_LCUseOfLog association. The LC prefixed class names refer to instances of Lifecycle log.

The DCIM\_LCRecordLogCapabilities represents and specifies the capabilities of the associated LC Record Log.

The DCIM\_LCLogEntry class contains properties describing the Lifecycle Log information about individual records, such as message text and timestamp.

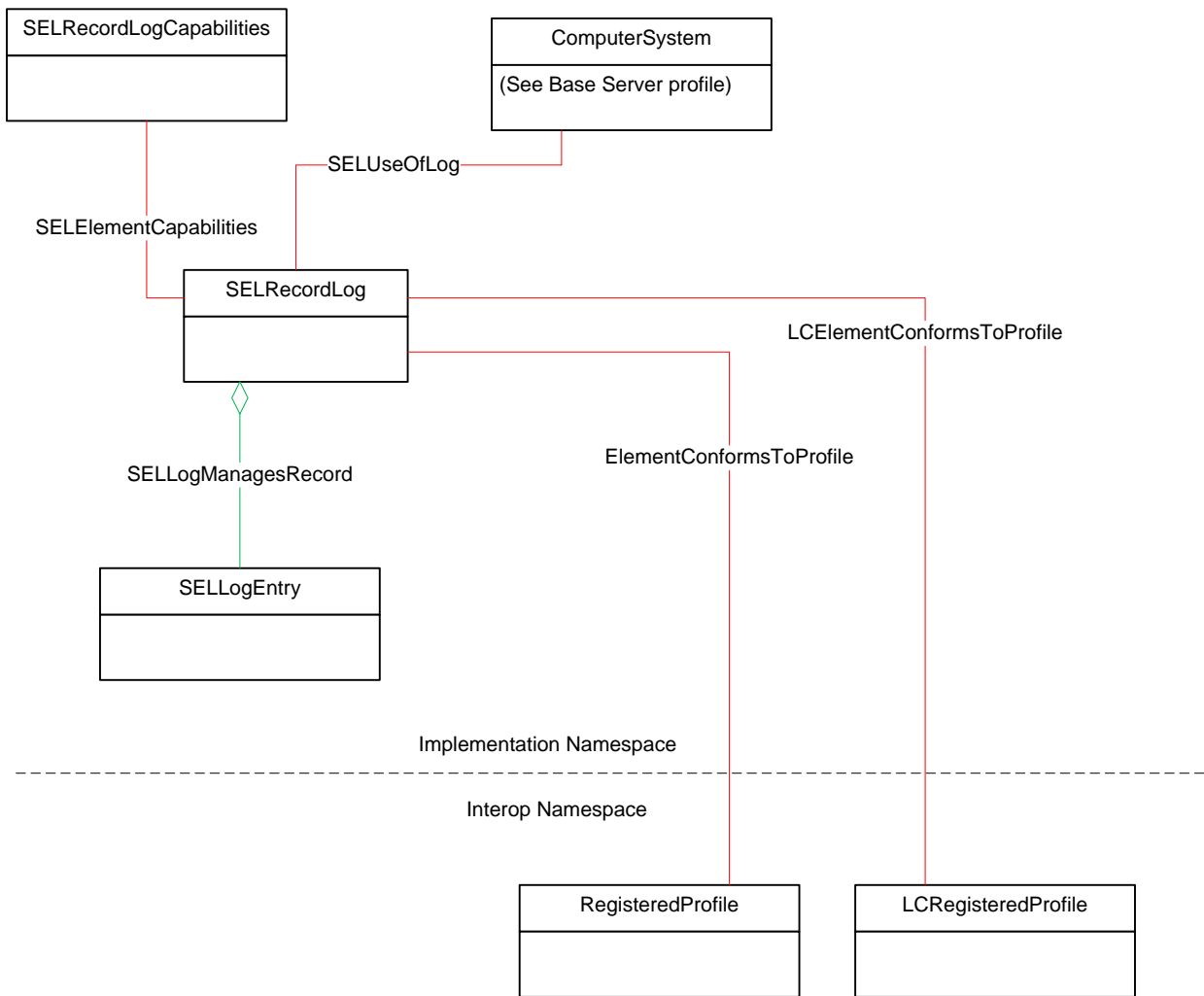


**Figure 2 – Record Log Profile Implementation (Lifecycle Log)**

Figure 3 represents the System Event Log (SEL) representation. The DCIM\_SELRecordLog class represents the container for the System Event log entries. The individual log entries, which are represented by the DCIM\_SELLogEntry instances, are aggregated under the DCIM\_SELRecordLog instance through the DCIM\_SELLogManagesRecord association. The managed system element that is associated with the log, uses the log, or populates the log is referenced through the DCIM\_SELUseOfLog association. The SEL prefixed class names refer to instances of System Event log.

The DCIM\_SELRecordLogCapabilities represents and specifies the capabilities of the associated SEL Record Log.

The DCIM\_SELLogEntry class contains properties describing the System Event Log information about individual records, such as message text and timestamp.



**Figure 3 – Record Log Profile Implementation (System Event Log)**

## 7 Implementation Description

This section describes the requirements and guidelines for implementing Record Log Profile.

**Table 2 – Class Requirements: Record Log Profile**

Element Name	Requirement	Description
<b>Classes</b>		
DCIM_LCRecordLog	Mandatory	The class shall be implemented in the Implementation Namespace. See section 7.1
DCIM_LCRecordLogCapabilities	Mandatory	The class shall be implemented in the Implementation Namespace. See section 7.2
DCIM_LCLogEntry	Mandatory	The class shall be implemented in the Implementation Namespace. See section 7.3
DCIM_LCElementCapabilities	Mandatory	The class shall be implemented in the Implementation Namespace. See section 7.1 and 7.2
DCIM_LCUseOfLog	Mandatory	The class shall be implemented in the Implementation Namespace. See section 7.1
DCIM_LCLogManagesRecord	Mandatory	The class shall be implemented in the Implementation Namespace. See section 7.1 and 7.3
DCIM_SELRecordLog	Mandatory	The class shall be implemented in the Implementation Namespace. See section 7.4
DCIM_SELRecordLogCapabilities	Mandatory	The class shall be implemented in the Implementation Namespace. See section 7.5
DCIM_SELLogEntry	Mandatory	The class shall be implemented in the Implementation Namespace. See section 7.6
DCIM_SELElementCapabilities	Mandatory	The class shall be implemented in the Implementation Namespace. See section 7.4 and 7.6
DCIM_SELUseOfLog	Mandatory	The class shall be implemented in the Implementation Namespace. See section 7.4
DCIM_SELLogManagesRecord	Mandatory	The class shall be implemented in the Implementation Namespace. See section 7.4 and 7.6
DCIM_ElementConformsToProfile	Mandatory	The class shall be implemented in both the Interop and <i>Implementation Namespaces</i> . See section
DCIM_RegisteredProfile	Mandatory	The class shall be implemented in the <i>Interop Namespace</i> . See section

Element Name	Requirement	Description
DCIM_LCElementConformsToProfile	Mandatory	The class shall be implemented in both the Interop and <i>Implementation Namespaces</i> . See section
DCIM_LCRegisteredProfile	Mandatory	The class shall be implemented in the Interop Namespace. See section
<b>Indications</b>		
None defined in this profile		

## 7.1 DCIM\_LCRecordLog – Lifecycle Log

This section describes the implementation for the DCIM\_LCRecordLog class that represents the Lifecycle log. The Lifecycle Log never overwrites its entries when it approaches the full capacity, the log is archived into a partition on Lifecycle Controller.

DCIM\_LCUseOfLog shall reference the DCIM\_LCRecordLog class and the DCIM\_ComputerSystem class.

DCIM\_LCElementCapabilities shall reference the DCIM\_LCRecordLog class and the DCIM\_LCRecordLogCapabilities class.

DCIM\_LCLogManagesRecord shall reference the DCIM\_LCRecordLog class and the DCIM\_LCLogEntry.

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\_LCRecordLog?\_\_cimnamespace=root/dcim”

The key property shall be the InstanceID.

The instance Resource URI for DCIM\_LCRecordLog instance shall be:  
“http://schemas.dell.com/wbem/wscim/1/cim-schema/2/DCIM\_LCRecordLog?\_\_cimnamespace=root/dcim+InstanceID=DCIM:LifeCycleLog”

### 7.1.2 Operations

The following table lists the implemented operations on DCIM\_LCRecordLog.

**Table 3 – DCIM\_LCRecordLog - Operations**

Operation Name	Requirements	Required Input
Get	Mandatory	Instance URI
Enumerate	Mandatory	Class URI
Invoke	Mandatory	Instance URI (see section 8.2)

### 7.1.3 Class Properties

The following table lists the implemented properties for DCIM\_LCRecordLog 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 4 – DCIM\_LCRecordLog - Properties**

Property Name	Type	Requirements	Additional Requirements
InstanceID	String	Mandatory	The property value shall be "DCIM:LifeCycleLog".
MaxNumberOfRecords	UInt64	Mandatory	The property shall have the value 0 meaning there is no restriction on the maximum number of records.
LogState	UInt16	Mandatory	The property shall have the value 2 (Normal). The successful instantiation of this class denotes that the logging is fully functional.
OverwritePolicy	UInt16	Mandatory	The property shall have the value 8 (Archives), and the log shall archive the old entries when close to its full capacity.
RequestedState	UInt16	Mandatory	The property shall have the value 12 (Not Applicable).
EnabledState	UInt16	Mandatory	The property shall have the value 2 (Enabled). The logging is always enabled.
OperationalStatus[]	UInt16	Mandatory	The property shall have the value 2 (OK). The successful instantiation of this class denotes that the logging is fully functional.
HealthState	UInt16	Mandatory	The property shall have the value 5 (OK). The successful instantiation of this class denotes that the logging is fully functional.
ElementName	String	Mandatory	The property shall have the value "LifeCycle Log".
CurrentNumberOfRecords	UInt64	Mandatory	The property value shall be the number of non-archived section of the LifeCycle Log.

## 152 **7.2 DCIM\_LCRecordLogCapabilities – LC Record Log Capabilities**

153 This section describes the implementation for the DCIM\_LCRecordLogCapabilities class.

154 DCIM\_LCElementCapabilities shall reference the DCIM\_LCRecordLog class and the DCIM\_  
155 LCRecordLogCapabilities class.

156 This class shall be instantiated in the Implementation Namespace.

### 157 **7.2.1 Resource URIs**

158 The class Resource URI shall be "http://schemas.dell.com/wbem/wscim/1/cim-  
159 schema/2/DCIM\_LCRecordLogCapabilities?\_\_cimnamespace=root/dcim"

160 The key property shall be the InstanceID.

161 The instance Resource URI for DCIM\_LCRecordLog instance shall be:  
162 "http://schemas.dell.com/wbem/wscim/1/cim-schema/2/DCIM\_  
163 LCRecordLogCapabilities?\_\_cimnamespace=root/dcim+InstanceID=DCIM:LifeCycleLogCapabilities"

### 164 **7.2.2 Operations**

165 The following table lists the operations implemented on DCIM\_LCRecordLogCapabilities.

166 **Table 5 – DCIM\_LCRecordLogCapabilities - Operations**

Operation Name	Requirements	Required Input
Get	Mandatory	Instance URI
Enumerate	Mandatory	Class URI

### 7.2.3 Class Properties

The following table lists the implemented properties for DCIM\_LCRecordLogCapabilities instance representing the capabilities of the LCRecordLog. 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\_LCRecordLogCapabilities - Properties**

Property Name	Type	Requirements	Additional Requirements
InstanceID	String	Mandatory	The property value shall be “DCIM:LifeCycleLogCapabilities”
RequestedStatesSupported[]	Uint16	Mandatory	The property array shall be empty meaning the log state management is not supported
ElementNameEditSupported	Boolean	Mandatory	The property shall have value FALSE.
SupportedRecordTypes[]	Uint16	Mandatory	The property shall have value 3 (Standard Messages).

## 7.3 DCIM\_LCLogEntry – LC Log Entry

This section describes the implementation for the DCIM\_LCLogEntry class.

DCIM\_LCLogManagesRecord shall reference the DCIM\_LCRecordLog class and the DCIM\_LCLogEntry.

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\_LCLogEntry?\_\_cimnamespace=root/dcim”

The key property shall be the InstanceID.

The instance Resource URI for DCIM\_LCLogEntry instance shall be:

“http://schemas.dell.com/wbem/wscim/1/cim-schema/2/DCIM\_LCLogEntry?\_\_cimnamespace=root/dcim+InstanceID=<InstanceID>”

### 7.3.2 Operations

The following table lists the operations implemented on DCIM\_LCLogEntry.

**Table 7 – DCIM\_LCLogEntry - Operations**

Operation Name	Requirements	Required Input
Get	Mandatory	Instance URI
Enumerate	Mandatory	Class URI
Set	Mandatory	Instance URI NOTE: Set operation may modify only the Comment property. NOTE: This operation cannot be used to add a new LCL log entry, such as a worknote, the DCIM_LCService.InsertCommentInLCLog() method in the LC Management Profile shall be invoked.

188

### 189 7.3.3 Class Properties

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

194 **Table 8 – DCIM\_LCLogEntry – Properties**

Property Name	Type	Requirements	Additional Requirements
InstanceID	String	Mandatory	The property value shall have format “DCIM:<sequence number of log entry>”
LogInstanceID	String	Mandatory	The property value shall be “DCIM:LifeCycleLog”.
LogName	String	Mandatory	The property value shall be “LifeCycle Log”.
RecordID	String	Mandatory	The property value shall be sequence number of log entry.
CreationTimeStamp	Datetime	Mandatory	The property value shall represent time stamp of log entry creation.
ElementName	String	Mandatory	The property value shall represent the detailed description of the logged event.
PerceivedSeverity	uint16	Mandatory	The property value shall represent the severity of the logged event and shall have one of the following values: <ul style="list-style-type: none"> <li>• 2 (Information)</li> <li>• 3 (Degraded/Warning)</li> <li>• 4 (Minor)</li> <li>• 5 (Major)</li> <li>• 6 (Critical)</li> <li>• 7 (Fatal/NonRecoverable)</li> </ul>
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.
Category[]	String	Mandatory	The property value shall represent the category of the logged event entry and shall be one of the following values: <ul style="list-style-type: none"> <li>• System</li> <li>• Storage</li> <li>• Audit</li> <li>• Configuration</li> <li>• Updates</li> <li>• Work Notes</li> </ul>

Property Name	Type	Requirements	Additional Requirements
AgentID	String	Mandatory	The property value shall represent the ID of the source agent responsible for creation of the log entry event.
FQDD	String	Mandatory	The property value shall represent the FQDD of the device that the logged event relates to.
Comment	String	Mandatory	<p>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.</p> <p>NOTE: This property shall be set using the Set (Put) operation.</p> <p>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.</p>
ConfigResultsAvailable	Boolean	Mandatory	The property value of TRUE shall represent that the configuration results are available in the XML format.
RawEventData	String	Optional	The property shall contain the raw event data. In the case of IPMI based events, IPMI SEL binary data.

## 7.4 DCIM\_SELRecordLog – SEL Record Log

This section describes the implementation for the DCIM\_SELRecordLog class that represents SEL log.

NOTE: iDRAC can only store 512 SEL logs. If this limit is exceeded, the new SEL logs are rejected.

DCIM\_SELUseOfLog shall reference the DCIM\_SELRecordLog class and the DCIM\_ComputerSystem class.

DCIM\_SELElementCapabilities shall reference the DCIM\_SELRecordLog class and the DCIM\_SELRecordLogCapabilities class.

DCIM\_SELLogManagesRecord shall reference the DCIM\_SELRecordLog class and the DCIM\_SELLogEntry.

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/DCIM\_SELRecordLog?\_\_cimnamespace=root/dcim”

The key property shall be the InstanceID.

The instance Resource URI for DCIM\_SELRecordLog instance shall be:

“http://schemas.dell.com/wbem/wscim/1/cim-schema/2/DCIM\_SELRecordLog?\_\_cimnamespace=root/dcim+InstanceID= DCIM:SEL:1”

### 7.4.2 Operations

The following table lists the operations implemented on DCIM\_SELRecordLog.



214

**Table 9 – DCIM\_SELRecordLog – Operations**

Operation Name	Requirements	Required Input
Get	Mandatory	Instance URI
Enumerate	Mandatory	Class URI
Invoke	Mandatory	Instance URI (see section 8.1)

### 215 7.4.3 Class Properties

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

220

**Table 10 – DCIM\_SELRecordLog - Properties**

Property Name	Type	Requirements	Additional Requirements
InstanceID	String	Mandatory	The property value shall be "DCIM:SEL:1".
MaxNumberOfRecords	Uint64	Mandatory	The property shall have the value 512.
LogState	Uint16	Mandatory	The property shall have the value 2 (Normal). The successful instantiation of this class denotes that the logging is fully functional.
OverwritePolicy	Uint16	Mandatory	The property shall have the value 7 (Never Overwrites), and the log may reject logging new events.
RequestedState	Uint16	Mandatory	The property shall have the value 12 (Not Applicable).
EnabledState	Uint16	Mandatory	The property shall have the value 2 (Enabled). The logging is always enabled.
OperationalStatus[]	Uint16	Mandatory	The property shall have the value 2 (OK). The successful instantiation of this class denotes that the logging is fully functional.
HealthState	Uint16	Mandatory	The property shall have the value 5 (OK). The successful instantiation of this class denotes that the logging is fully functional.
ElementName	String	Mandatory	The property value shall be “System Event Log”.
CurrentNumberOfRecords	Uint64	Mandatory	The property value shall represent the number of records in the System Event Log.

## 221 7.5 DCIM\_SELRecordLogCapabilities – SEL Record Log Capabilities

222 This section describes the implementation for the DCIM\_SELRecordLogCapabilities class.

223 DCIM\_SELElementCapabilities shall reference the DCIM\_SELRecordLog class and the DCIM\_  
 224 SELRecordLogCapabilities class.

225 This class shall be instantiated in the Implementation Namespace.

### 226 7.5.1 Resource URIs

227 The class Resource URI shall be “http://schemas.dell.com/wbem/wscim/1/cim-  
 228 schema/2/DCIM\_SELRecordLogCapabilities?\_\_cimnamespace=root/dcim”

229 The key property shall be the InstanceID.

The instance Resource URI for DCIM\_SELRecordLog instance shall be:  
"http://schemas.dell.com/wbem/wscim/1/cim-schema/2/DCIM\_SELRecordLogCapabilities?\_\_cimnamespace=root/dcim+InstanceID=DCIM:SystemEventLogCapabilities"

## 7.5.2 Operations

The following table lists the operations implemented on DCIM\_SELRecordLogCapabilities.

**Table 11 – DCIM\_SELRecordLogCapabilities - Operations**

Operation Name	Requirements	Required Input
Get	Mandatory	Instance URI
Enumerate	Mandatory	Class URI

## 7.5.3 Class Properties

The following table lists the implemented properties for DCIM\_SELRecordLogCapabilities instance representing the capabilities of the SELRecordLog. 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 12 – DCIM\_SELRecordLogCapabilities - Properties**

Property Name	Type	Requirements	Additional Requirements
InstanceID	String	Mandatory	The property shall have the value "DCIM:SystemEventLogCapabilities".
RequestedStatesSupported[]	Uint16	Mandatory	The property array shall be empty because the log state management is not supported
ElementNameEditSupported	Boolean	Mandatory	The property shall have the value FALSE.
SupportedRecordTypes[]	Uint16	Mandatory	The property shall have the value 2 (Record Data).

## 7.6 DCIM\_SELLogEntry – SEL Log Entry

This section describes the implementation for the DCIM\_SELLogEntry class.

DCIM\_SELLogManagesRecord shall reference the DCIM\_SELRecordLog class and the DCIM\_SELLogEntry.

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/DCIM\_SELLogEntry?\_\_cimnamespace=root/dcim"

The key property shall be the InstanceID.

The instance Resource URI for DCIM\_SELLogEntry instance shall be:  
"http://schemas.dell.com/wbem/wscim/1/cim-schema/2/DCIM\_SELLogEntry?\_\_cimnamespace=root/dcim+InstanceID=<InstanceID>"

## 7.6.2 Operations

The following table details the implemented operations on DCIM\_SELLogEntry.

**Table 13 – DCIM\_SELLogEntry - Operations**

Operation Name	Requirements	Required Input
Get	Mandatory	Instance URI
Enumerate	Mandatory	Class URI
Set	Mandatory	Instance URI

## 7.6.3 Class Properties

The following table lists the implemented properties for DCIM\_SELLogEntry 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 – DCIM\_SELLogEntry - Properties**

Property Name	Type	Requirements	Additional Requirements
InstanceID	String	Mandatory	The property value shall have the prefix "DCIM:SEL:Entry:" followed by the index.
LogInstanceID	String	Mandatory	The property value shall be "DCIM:SEL:1".
LogName	String	Mandatory	The property value shall be "System Event Log".
RecordID	String	Mandatory	The property value shall be the sequence number of the log entry.
CreationTimeStamp	Datetime	Mandatory	The property value shall represent the time stamp of the log entry creation.
ElementName	String	Mandatory	The property value shall be the "System Event Log Entry".
RecordData	String	Mandatory	The property value shall represent the detailed description of the logged event.
RecordFormat	String	Mandatory	The property value shall have "string Description".

## 7.7 DCIM\_RegisteredProfile - DMTF Record Log Profile 1.0 Registration

This section describes the implementation for the DCIM\_RegisteredProfile class

This class shall be instantiated in the Interop Namespace.

The DCIM\_ElementConformsToProfile shall be instantiate in both the Interop Namespace and Implementation Namespace: root/dcim and shall reference the DCIM\_RegisteredProfile instance.

### 7.7.1 Resource URIs for WinRM®

The class Resource URI shall be "http://schemas.dell.comwbem/wscim/1/cim-schema/2/DCIM\_RegisteredProfile?\_\_cimnamespace=root/interop"

The instance Resource URI shall be: "http://schemas.dell.com/wbem/wscim/1/cim-schema/2/DCIM\_LCRegisteredProfile?\_\_cimnamespace=root/interop+InstanceID=DCIM:RecordLogRegisteredProfile:1"

The key property shall be the InstanceID property.

## 7.7.2 Operations

The following table lists the operations implemented on CIM\_RegisteredProfile .

**Table 15 – CIM\_RegisteredProfile - Operations**

Operation Name	Requirements	Required Input
Get	Mandatory	Instance URI
Enumerate	Mandatory	Class URI

## 7.7.3 DCIM\_RegisteredProfile Properties

The following table lists the implemented properties for CIM\_RegisteredProfile instance representing the 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 16 – DCIM\_RegisteredProfile**

Property Name	Requirement	Type	Additional Requirements
InstanceID	Mandatory	string	The property value shall be “DCIM:RecordLogRegisteredProfile:1”.
RegisteredName	Mandatory	string	This property shall have a value of "Record Log".
RegisteredVersion	Mandatory	string	This property shall have a value of "1.0.0".
RegisteredOrganization	Mandatory	uint16	This property shall have a value of 2 (DMTF).

## 7.8 DCIM\_RegisteredProfile - DMTF Record Log Profile 2.0 Registration

This section describes the implementation for the DCIM\_RegisteredProfile class

This class shall be instantiated in the Interop Namespace.

The DCIM\_ElementConformsToProfile shall be instantiate in both the Interop Namespace and Implementation Namespace: root/dcim and shall reference the DCIM\_RegisteredProfile instance.

### 7.8.1 Resource URIs for WinRM®

The class Resource URI shall be "http://schemas.dell.com/wbem/wscim/1/cim-schema/2/DCIM\_RegisteredProfile?\_\_cimnamespace=root/interop"

The instance Resource URI shall be: “http://schemas.dell.com/wbem/wscim/1/cim-schema/2/DCIM\_LCRegisteredProfile?\_\_cimnamespace=root/interop+InstanceID=DMTF:RecordLog:2.0.0”

The key property shall be the InstanceID property.

### 7.8.2 Operations

The following table details the implemented operations on CIM\_RegisteredProfile .

**Table 17 – CIM\_RegisteredProfile - Operations**

Operation Name	Requirements	Required Input
Get	Mandatory	Instance URI
Enumerate	Mandatory	Class URI

### 7.8.3 DCIM\_RegisteredProfile Properties

The following table lists the implemented properties for CIM\_RegisteredProfile instance representing the 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 18 – DCIM\_RegisteredProfile**

Property Name	Requirement	Type	Additional Requirements
InstanceID	Mandatory	string	DMTF:RecordLog:2.0.0
RegisteredName	Mandatory	string	This property shall have a value of "Record Log".
RegisteredVersion	Mandatory	string	This property shall have a value of "2.0.0".
RegisteredOrganization	Mandatory	uint16	This property shall have a value of 2 (DMTF).
AdvertisedTypes[]	Mandatory	uint16	This property array shall contain [1(Other), 1 (Other)].
AdvertiseTypeDescriptions[]	Mandatory	string	This property array shall contain ["WS-Identify", "Interop Namespace"].

## 7.9 DCIM\_LCRegisteredProfile - DCIM Record Log Profile Profile Registration

This section describes the implementation for the DCIM\_RegisteredProfile class

This class shall be instantiated in the Interop Namespace.

The DCIM\_LCElementConformsToProfile shall be instantiate in both the Interop Namespace and Implementation Namespace: root/dcim and shall reference the DCIM\_LCRegisteredProfile 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\_LCRegisteredProfile?\_\_cimnamespace=<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\_LCRegisteredProfile?\_\_cimnamespace=root/interop+InstanceID=DCIM:RecordLog:1.0.0"

### 7.9.2 Operations

The following table details the implemented operations on DCIM\_RegisteredProfile .

**Table 19 – DCIM\_RegisteredProfile - Operations**

Operation Name	Requirements	Required Input
Get	Mandatory	Instance URI

Operation Name	Requirements	Required Input
Enumerate	Mandatory	Class URI

### 7.9.3 Properties

The following table lists the implemented properties for DCIM\_LCRegisteredProfile instance representing the 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 20 – DCIM\_LCRegisteredProfile**

Property Name	Requirement	Type	Additional Requirements
InstanceID	Mandatory	string	The property shall have a value of "DCIM:RecordLog:1.0.0".
RegisteredName	Mandatory	string	This property shall have a value of "Record Log".
RegisteredVersion	Mandatory	string	This property shall have a value of "1.0.0".
RegisteredOrganization	Mandatory	uint16	This property shall have a value of 1 (Other).
OtherRegisteredOrganization	Mandatory	string	The property value shall match “DCIM”.
AdvertisedTypes[]	Mandatory	uint16	This property array shall contain [1(Other), 1 (Other)].
AdvertiseTypeDescriptions[]	Mandatory	string	This property array shall contain ["WS-Identify", "Interop Namespace"].

## 8 Methods

### 8.1 DCIM\_SELRecordLog.ClearLog()

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

CIM\_RecordLog.ClearLog() return code values shall be as specified in Table 21.

No parameters or standard messages are defined for the CIM\_RecordLog.ClearLog() method.

**Table 21 – CIM\_RecordLog.ClearLog() Method: Return Code Values**

Value	Description
0	Request was successfully executed.
1	Method is not supported in the implementation.
2	Error occurred

**Table 22 – CIM\_MetricService.GetConfigResults() Method: Standard Messages**

MessageID (OUT parameter)	Message	MessageArguments[]
LOG004	Resource allocation failure	

## 8.2 DCIM\_LCRecordLog.GetConfigResults()

The GetConfigResults() method provides the ability to get the configuration results that are associated with a particular logged entry.

The GetConfigResults() method's return code values shall be as specified in Table 23 where the method execution behavior matches the return code description. The GetConfigResults() method's parameters are specified in Table 24.

**Table 23 – CIM\_MetricService.GetConfigResults() Method: Return Code Values**

Value	Description
0	Operation completed successfully
2	Failed

**Table 24 – CIM\_MetricService.GetConfigResults() Method: Parameters**

Qualifiers	Name	Type	Description/Values
IN, REQ	InstanceID	uint16	The DCIM_LCLogEntry.InstanceID value for the log entry for which the config results is requested.
OUT	MessageID	String	Error MessageID
OUT	Message	String	Error Message
OUT	MessageArguments[]	String	Error MessageArguments
OUT	ConfigResults	String	Config results in the XML format.

**Table 25 – CIM\_MetricService.GetConfigResults() Method: Standard Messages**

MessageID (OUT parameter)	Message	MessageArguments[]
LOG001	Missing parameter(s) %s	InstanceID
LOG002	Invalid parameter value for %s	InstanceID
LOG003	ConfigResults not available for given InstanceID	

## 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 26 – Privilege and License Requirements**

<b>Class and Method</b>	<b>Operation</b>	<b>User Privilege Required</b>	<b>License Required</b>
DCIM_LCRecordLog	ENUMERATE, GET	Login	None.
DCIM_LCRecordLogCapabilities	ENUMERATE, GET	Login	None.
DCIM_LCLogEntry	ENUMERATE, GET	Login	None.
DCIM_LCLogEntry.	SET	Login, Configure	None.
DCIM_LCElementCapabilities	ENUMERATE, GET	Login	None.
DCIM_LCUseOfLog	ENUMERATE, GET	Login	None.
DCIM_LCLogManagesRecord	ENUMERATE, GET	Login	None.
DCIM_SELRecordLog	ENUMERATE, GET	Login	None.
DCIM_SELRecordLog. ClearLog()	INVOKE	Login, Logs	None.
DCIM_SELRecordLogCapabilities	ENUMERATE, GET	Login	None.
DCIM_SELLogEntry	ENUMERATE, GET	Login	None.
DCIM_SELElementCapabilities	ENUMERATE, GET	Login	None.
DCIM_SELUseOfLog	ENUMERATE, GET	Login	None.
DCIM_SELLogManagesRecord	ENUMERATE, GET	Login	None.
DCIM_ElementConformsToProfile	ENUMERATE, GET	Login	None.
DCIM_RegisteredProfile	ENUMERATE, GET	Login	None.
DCIM_LCRegisteredProfile	ENUMERATE, GET	Login	None.
DCIM_LCElementConformsToProfile	ENUMERATE, GET	Login	None.