

Record Log Profile

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1. Scope

The DCIM RecordLog 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
- 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:
 - o DCIM_LCLogEntry.mof
 - o DCIM_LCRecordLog.mof
 - o DCIM_LCRecordLogCapabilities.mof
 - o DCIM_LCElementCapabilities.mof
 - o DCIM_LCUseOfLog.mof
 - o DCIM_LCLogManagesRecord.mof
 - o DCIM_SELLogEntry.mof
 - o DCIM_SELRecordLog.mof
 - o DCIM_SELRecordLogCapabilities.mof
 - o DCIM_SELElementCapabilities.mof
 - o DCIM_SELUseOfLog.mof
 - o DCIM_SELLogManagesRecord.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. 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 4.0.0

Organization: DCIM

CIM Schema Version: 2.41 Final

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

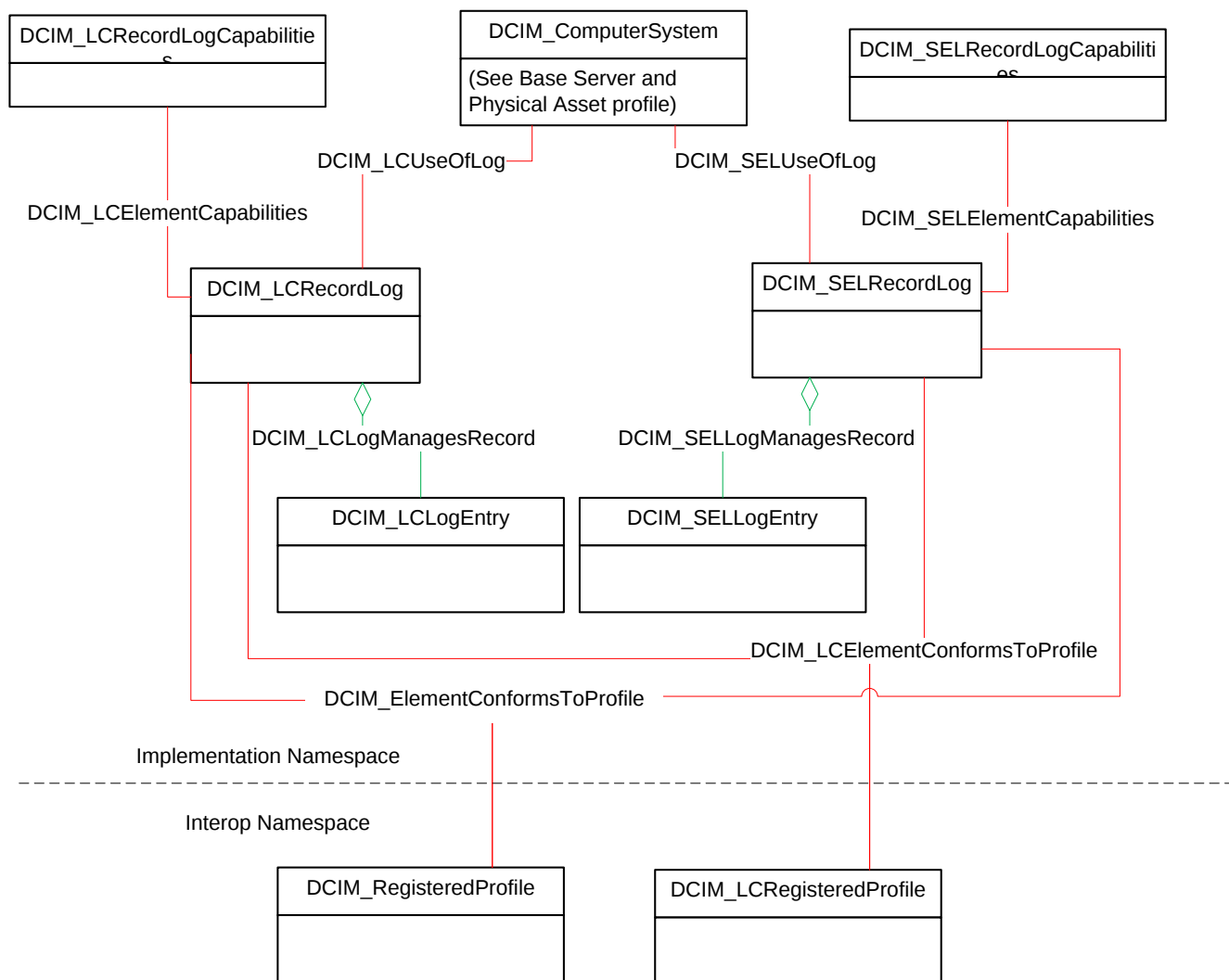


Figure 1. Record Log Profile Class Diagram

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.

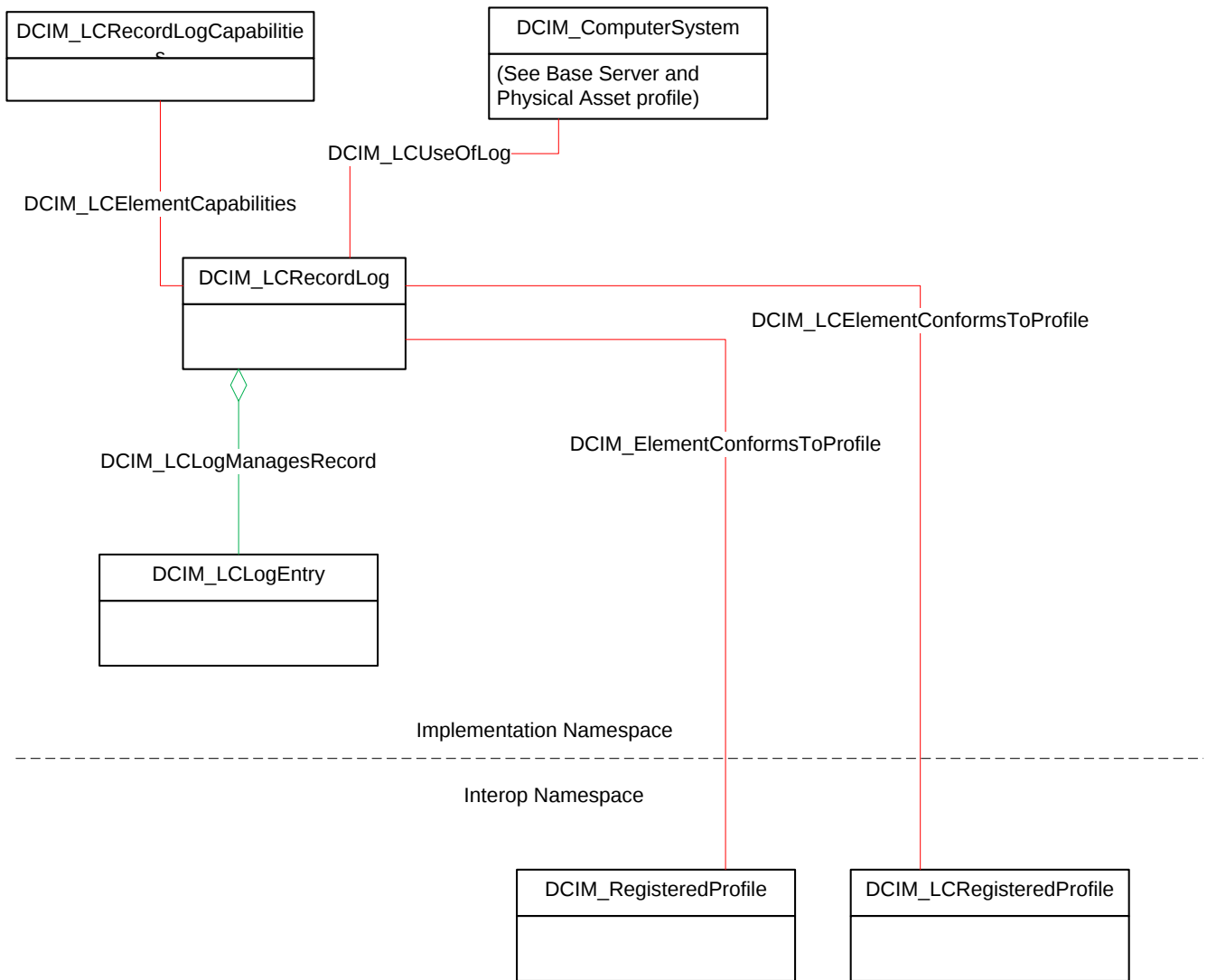


Figure 2. Record Log Profile Implementation (Lifecycle Log)

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.

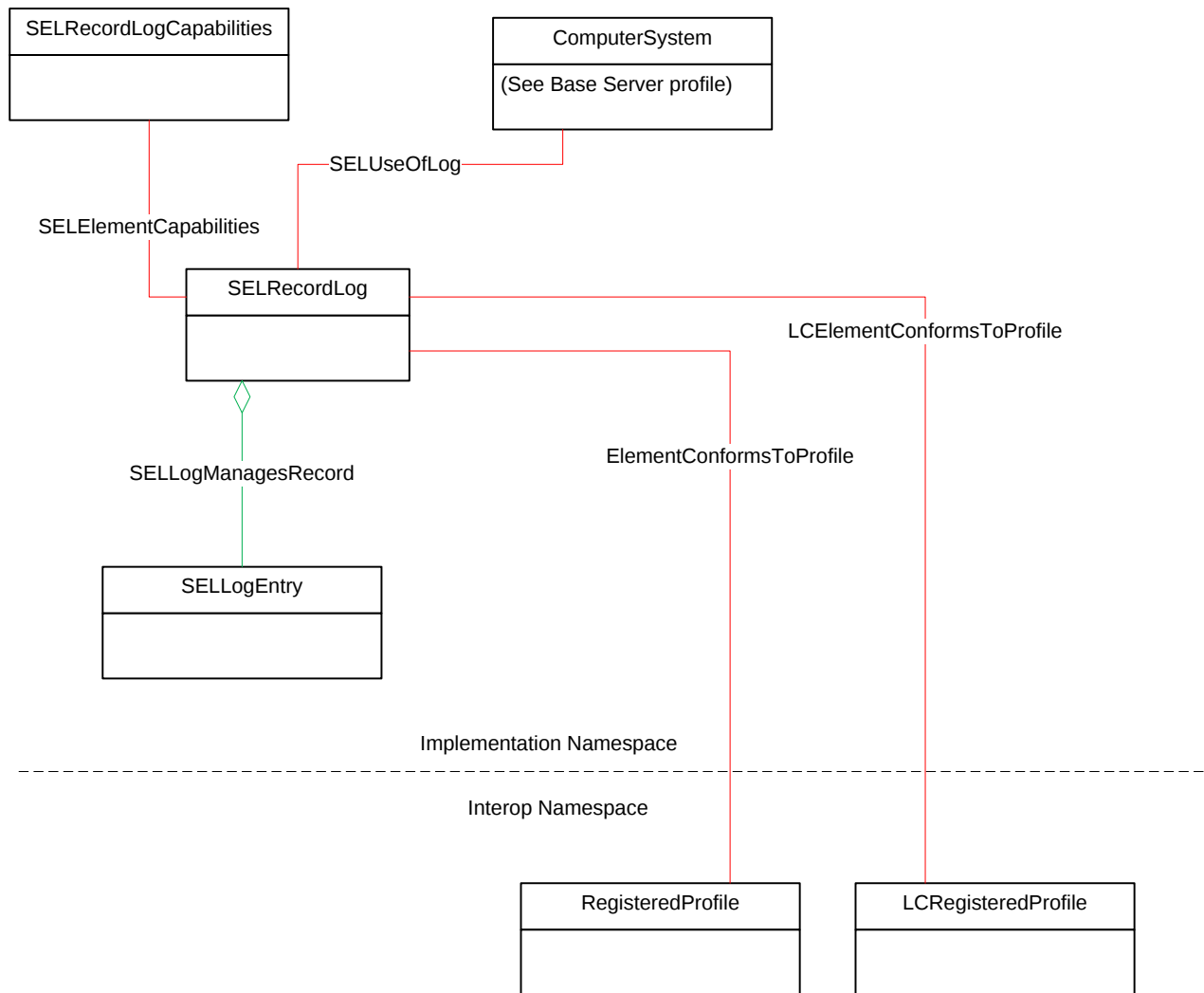


Figure 3. Record Log Profile Implementation (System Event Log)

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
Classes		
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

Element Name	Requirement	Description
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_SELogEntry	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_SELogManagesRecord	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> .
DCIM_RegisteredProfile	Mandatory	The class shall be implemented in the <i>Interop Namespace</i> .
DCIM_LCElementConformsToProfile	Mandatory	The class shall be implemented in both the Interop and <i>Implementation Namespaces</i> .
DCIM_LCRegisteredProfile	Mandatory	The class shall be implemented in the Interop Namespace.
Indications		
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.
CurrentHighestSequenceNumber	UInt64	Mandatory	The CurrentHighestSequenceNumber is a positive integer that indicates the sequence number of the latest log entry in the Lifecycle Logs.

7.2. DCIM_LCRecordLogCapabilities – LC Record Log Capabilities

This section describes the implementation for the DCIM_LCRecordLogCapabilities class.

DCIM_LCElementCapabilities shall reference the DCIM_LCRecordLog class and the DCIM_LCRecordLogCapabilities 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_LCRecordLogCapabilities?__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_LCRecordLogCapabilities?__cimnamespace=root/dcim+InstanceID=DCIM:LifeCycleLogCapabilities”

7.2.2. Operations

The following table lists the operations implemented on DCIM_LCRecordLogCapabilities.

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.

7.3.3. Class Properties

The following table lists the implemented properties for DCIM_LCLogEntry 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_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.
SequenceNumber	uint32	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: • 2 (Information) • 3 (Degraded/Warning) • 4 (Minor) • 5 (Major) • 6 (Critical) • 7 (Fatal/NonRecoverable)
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.

Property Name	Type	Requirements	Additional Requirements
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: • Unknown • System • Storage • Audit • Configuration • Updates • Work Notes
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	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. NOTE: This property shall be set using the Set (Put) operation. NOTE: In order to add a new LCL log entry, such as a worknote, the DCIM_LCService.InsertCommentInLCLog() method in the LC Management Profile shall be invoked.
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.

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)

7.4.3. Class Properties

The following table lists the implemented properties for DCIM_SELRecordLog 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 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.

7.5. DCIM_SELRecordLogCapabilities – SEL Record Log Capabilities

This section describes the implementation for the DCIM_SELRecordLogCapabilities class.

DCIM_SELElementCapabilities shall reference the DCIM_SELRecordLog class and the DCIM_SELRecordLogCapabilities class.

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/DCIM_SELRecordLogCapabilities?__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_SELRecordLogCapabilities?__cimnamespace=root/dcim+InstanceID=DCIM:SELCapabilities”

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:SELCapabilities”.
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

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_FaultList – Fault List

This section describes the implementation for the DCIM_FaultList class that represents the fault list details.

This class shall be instantiated in the Implementation Namespace.

7.7.1. Resource URIs

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

The key property shall be the InstanceID.

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

7.7.2. Operations

The following table details the implemented operations on DCIM_FaultList.

Table 15. DCIM_FaultList - Operations

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

7.7.3. Class Properties

The following table lists the implemented properties for DCIM_FaultList 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. DCIM_FaultList - Properties

Property Name	Type	Requirements	Additional Requirements
SubSystem	String	Mandatory	The property value shall represent Subsystem like,fan,PSU, IOM etc.
FQDD	String	Mandatory	The property value shall represent the FQDD of the device that the logged event relates to.
InstanceID	String	Mandatory	The property value shall represent the Instance of the device that the logged event relates to.
Severity	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)
Timestamp	datetime	Mandatory	The property value shall represent fault time in datetime format. yyyyymmddhhmmss:mmmmmm-360
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.

7.8. DCIM_RollupStatusCollection – Rollup Status Collection

This section describes the implementation for the DCIM_RollupStatusCollection class that represents the fault list details.

This class shall be instantiated in the Implementation Namespace.

7.8.1. Resource URIs

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

The key property shall be the InstanceID.

The instance Resource URI for DCIM_RollupStatusCollection instance shall be:

“http://schemas.dell.com/wbem/wscim/1/cim-schema/2/DCIM_RollupStatusCollection?__cimnamespace=root/dcim+InstanceID=<InstanceID>”

7.8.2. Operations

The following table details the implemented operations on DCIM_RollupStatusCollection.

Table 17. DCIM_RollupStatusCollection - Operations

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

7.8.3. Class Properties

The following table lists the implemented properties for DCIM_RollupStatusCollection 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 18. DCIM_RollupStatusCollection - Properties

Property Name	Type	Requirements	Additional Requirements
CollectionName	String	CollectionName is the unique label given to an instance of CIM_StatusCollection.	This property shall represents the name of sub system. The name is appending “SubSystem” property value with the string “RollupStatus” Example: • PSURollupStatus • FanRollupStatus • TempRollupStatus • CPURollupStatus • MemoryRollupStatus • StorageRollupStatus, etc.
RollupStatus	uint16	RollupStatus is the status of overall status of the sub system. It consists of one of the following values: Unknown, OK, Degraded or Error. It should be used in conjunction with policy rules to provide high level rollup health status of the members of the collection.	The property shall contain the sub system rollup status (e.g FAN, PSU... etc.) and shall contain one of the following values: • 0 (Unknown) • 1 (OK) • 2 (Degraded) • 3 (Error). RollupStatus provides a high level status value, intended to align with Red-Yellow-Green type representation of status.
InstanceID	String	InstanceID opaquely and uniquely identifies an instance of this class	Instance ID of the component.

Property Name	Type	Requirements	Additional Requirements
SubSystem	String	This property shall contain the sub system name.	The property represents the “SubSystem” property value of “DCIM_FaultList” class for mapping between “DCIM_FaultList” and “DCIM_RollupStatusCollection”. Example: PSU, FAN etc. (As per the mCHARs HLD) to be confirmed it would be simply “FAN” or “FAN.Rollup.1”.

7.9. 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.

7.9.1. 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.

7.9.2. Operations

The following table lists the operations implemented on CIM_RegisteredProfile.

Table 19. CIM_RegisteredProfile - Operations

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

7.9.3. 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 20. DCIM_RegisteredProfile

Property Name	Requirement	Type	Additional Requirements
InstanceID	Mandatory	string	The property value shall be “DCIM:RecordLogRegisteredProfile:4.0.0”.
RegisteredName	Mandatory	string	This property shall have a value of "Record Log".
RegisteredVersion	Mandatory	string	This property shall have a value of "4.0.0".
RegisteredOrganization	Mandatory	uint16	This property shall have a value of 2 (DMTF).

7.10. 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.

7.10.1. 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.

7.10.2. Operations

The following table details the implemented operations on CIM_RegisteredProfile.

Table 21. CIM_RegisteredProfile - Operations

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

7.10.3. 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 22. 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"].

7.11. DCIM_LCRegisteredProfile - 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_LCElementConformsToProfile shall be instantiate in both the Interop Namespace and Implementation Namespace: root/dcim and shall reference the DCIM_LCRegisteredProfile instance.

7.11.1. 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"

7.11.2. Operations

The following table details the implemented operations on DCIM_RegisteredProfile.

Table 23. DCIM_RegisteredProfile - Operations

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

7.11.3. Properties

The following table lists the implemented properties for DCIM_LCRegisteredProfile instance representing 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 24. 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 "4.0.0".
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 25.

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

Table 25. CIM_RecordLog.ClearLog() Method: Return Code Values

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

Value	Description
2	Error occurred

Table 26. 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 27 where the method execution behavior matches the return code description. The GetConfigResults() method's parameters are specified in Table 28.

Table 27. DCIM_LCRecordLog.GetConfigResults() Method: Return Code Values

Value	Description
0	Operation completed successfully
2	Failed

Table 28. DCIM_LCRecordLog.GetConfigResults() Method: Parameters

Qualifiers	Name	Type	Description/Values
IN	InstanceID	String	The DCIM_LCLogEntry.InstanceID value for the log entry for which the config results is requested.
	Or JobID		This is the jobid 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.

Note: Either of InstanceID or JobID should be provided as input.

Table 29. DCIM_LCRecordLog.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 30. Privilege and License Requirements

Class and Method	Operation	User Privilege Required	License Required
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.
DCIM_FaultList	ENUMERATE, GET	Login	None.
DCIM_RollupStatusCollection	ENUMERATE, GET	Login	None.

12. Change log

Version	Date	Description
4.0.0	20-Jun-2017	Added new property CurrentHighestSequenceNumber in DCIM_LCRecordLog Class
		Added new class DCIM_FaultList
		Added new class DCIM_RollupStatusCollection