Lifecycle Controller (LC) Management Profile

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1. Scope

The Lifecycle Controller (LC) Management Profile describes the management of the Dell Lifecycle Controller and its configuration attributes. The profile details certificate management and the LC configuration services that are necessary for the LC's proper functionality. The LC configuration attributes are modeled as attribute collections for an individual LC; typically there is one LC per system platform.

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 DSP1033, Profile Registration Profile 1.0
- DMTF DSP1061, BIOS Management Profile 1.0
- Dell Job Control Profile 1.0.0
- DMTF DSP0004, CIM Infrastructure Specification 2.3
- 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
- ISO/IEC Directives, Part 2, *Rules for the structure and drafting of International Standards*, http://isotc.iso.org/livelink/livelink.exe?func=ll&objId=4230456&objAction=browse&sort=subtype
- Unified Modeling Language (UML) from the Open Management Group (OMG), http://www.uml.org
- Dell Tech Center MOF Library: http://www.delltechcenter.com/page/DCIM.Library.MOF
- Related Managed Object Format (MOF) files:
    - DCIM_LCAttribute.mof
    - DCIM_LCElementConformsToProfile.mof
    - DCIM_LCEnumeration.mof
    - DCIM_LCRegisteredProfile.mof
    - DCIM_LCService.mof
    - DCIM_LCString.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.

3.10. Shall not

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

3.11. Should

Indicates that among several possibilities, one is recommended as particularly suitable, without mentioning or excluding others, or that a certain course of action is preferred but not necessarily required.

3.12. Should not

Indicates that a certain possibility or course of action is deprecated but not prohibited

3.13. FQDD

Fully Qualified Device Descriptor is used to identify a particular component in a system.

3.14. Interop Namespace

Interop Namespace is where instrumentation instantiates classes to advertise its capabilities for client discovery.

3.15. Implementation Namespace

Implementation Namespace is where instrumentation instantiates classes relevant to executing core management tasks.

3.16. ENUMERATE

Refers to WS-MAN ENUMERATE operation as described in Section 8.2 of DSP0226_V1.1 and Section 9.1 of DSP0227_V1.0

3.17. GET

Refers to WS-MAN GET operation as defined in Section 7.3 of DSP00226_V1.1 and Section 7.1 of DSP0227_V1.0

4. Symbols and Abbreviated Terms

4.1. CIM

Common Information Model

4.2. LC

Lifecycle Controller

4.3. VD

Virtual Disk

5. Synopsis

Profile Name: LC Management

Version: 4.0.0

Organization: DCIM

CIM Schema Version: 2.41 Final

Central Class: DCIM_LCService

Scoping Class: CIM_ComputerSystem

The LC Management Profile extends the management capability of the referencing profiles by adding the capability to describe lifecycle controller (LC) through its attributes. Each DCIM_LCAttribute derived instance represents an LC configuration-related attribute.

The DCIM_LCService class shall be the Central Class. The DCIM_ComputerSystem class shall be the Scoping Class. The DCIM_LCService instance shall be the Central Instance. The DCIM_ComputerSystem instance shall be the Scoping Instance.

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

6. Description

The LC Management Profile describes the LC attribute configuration service and the attributes instances that the service manages. The profile also describes the relationship of the LC attribute service to the Dell profile version information.

Figure 1 represents the class schema for the Lifecycle Controller (LC) Management. The LC service in a managed system is represented by the instance of the DCIM_LCService class. The LC attributes are represented by the DCIM_LCAttribute class derivation: DCIM_LCEnumeration and DCIM_LCString classes.

The LC Management Profile information is represented with the instance of the DCIM_LCRegisteredProfile.

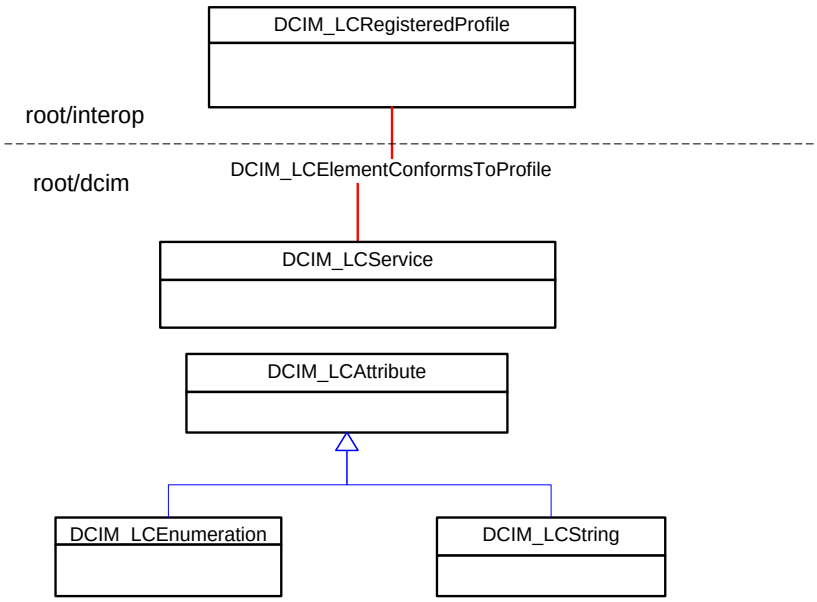


Figure 1. LC Management Profile: Class Diagram

7. Implementation Requirements

This section describes the implementation of Dell LC Management.

Table 2. Class Requirements: Power State Management Profile

Element Name	Requirement	Description
Classes		
DCIM_LCService	Mandatory	The class shall be implemented in the *Implementation Namespace*. See section 7.1.
DCIM_LCEnumeration	Mandatory	The class shall be implemented in the *Implementation Namespace*. See section 7.2.
DCIM_LCString	Mandatory	The class shall be implemented in the *Implementation Namespace*. See section 7.3.
DCIM_LCElementConformsToProfile	Mandatory	The class shall be implemented in both the *Interop* and *Implementation Namespaces*. See section 7.1 and 7.4.
DCIM_LCRegisteredProfile	Mandatory	The class shall be implemented in the *Interop Namespace*. See section 7.4.
Indications		
None defined in this profile		

7.1. DCIM_LCService

This section describes the implementation for the DCIM_LCService class.

This class is instantiated in the Implementation Namespace.

The DCIM_LCElementConformsToProfile association's ManagedElement property shall references the DCIM_LCService instance(s).

7.1.1. Resource URIs for WinRM®

The class Resource URI is:

"http://schemas.dell.com/wbem/wscim/1/cim-schema/2/DCIM_LCService?__cimnamespace=root/dcim"

The key properties are the SystemCreationClassName, CreationClassName, SystemName, Name

The instance Resource URI for DCIM_LCService instance is:

"http://schemas.dell.com/wbem/wscim/1/cim-schema/2/DCIM_LCService?__cimnamespace=root/dcim+SystemCreationClassName=DCIM_ComputerSystem+SystemName=DCIM:ComputerSystem+CreationClassName=DCIM_LCService+Name=DCIM:LCService"

7.1.2. Operations

The following table lists the operations implemented on DCIM_LCService.

Table 3. DCIM_LCService - Operations

Operation Name	Requirements	Required Input
Get	Mandatory	Instance URI
Enumerate	Mandatory	Class URI
Invoke	Mandatory	Instance URI and Method parameters

7.1.3. Class Properties

The following table lists the implemented properties for DCIM_LCService instance in a system. The "Requirements" column shall denote whether the property is implemented (for requirement definitions, see section 3.1, 3.2, and 3.3). The "Additional Requirements" column shall denote either possible values for the property, or requirements on the value formulation.

Table 4. DCIM_LCService - Properties

Property Name	Type	Requirement	Additional Requirement
CreationClassName	String	Mandatory	The property value shall be "DCIM_LCService"
Name	String	Mandatory	The property value shall be "DCIM:LCService"
ElementName	String	Mandatory	The property value shall be "LC Service"
SystemCreationClassName	String	Mandatory	The property value shall be "DCIM_ComputerSystem"
SystemName	String	Mandatory	The property value shall be "DCIM:ComputerSystem"

7.2. DCIM_LCEnumeration

This section describes the implementation for the DCIM_LCEnumeration class.

This class shall be instantiated in the Implementation Namespace.

7.2.1. Resource URIs for WinRM®

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

The key property shall be the InstanceID.

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

7.2.2. Operations

The following table lists the operations implemented on DCIM_LCEnumeration.

Table 5. DCIM_LCEnumeration - Operations

Operation Name	Requirements	Required Input
Get	Mandatory	Instance URI
Enumerate	Mandatory	Class URI
DCIM_LCService.SetAttributte()	Mandatory	See section 8.1
DCIM_LCService.SetAttributes()	Mandatory	See section 8.2

7.2.3. Class Properties

The following table lists the implemented properties for DCIM_LCEnumeration instance representing an LC enumeration attribute. The “Requirements” column shall denote whether the property is implemented (for requirement definitions, see section 3). The “Additional Requirement” column shall denote either possible values for the property, or requirements on the value formulation.

Table 6. Class: DCIM_LCEnumeration

Properties	Type	Requirement	Additional Requirements
InstanceID	string	Mandatory	The property value shall have a unique value.
AttributeName	String	Mandatory	The property value shall be from the “AttributeName” column in Table 7.
CurrentValue[]	string	Mandatory	The property value shall be one of the values in the “PossibleValues” column at the corresponding row in Table 7.
PendingValue[]	string	Mandatory	The property value shall be one of the values in the “PossibleValues” column at the corresponding row in Table 7.
DefaultValue[]	string	Mandatory	The property value shall represent the default value of the attribute and shall be one of the values in the “PossibleValues” column at the corresponding row in Table 7
IsReadOnly	boolean	Mandatory	The property value shall the value in the “IsReadOnly” column at the corresponding row in Table 7.
ElementName	string	Mandatory	The property value shall be the FQDD of the LC.
PossibleValues[]	string	Mandatory	The property value shall be equal to the array of the values in “PossibleValues” column at the corresponding row in Table 7.

The following table describes the requirements for the AttributeName, and PossibleValues properties for the DCIM_LCEnumeration class.

Table 7. DCIM_LCEnumeration Attributes

AttributeName	IsReadOnly	PossibleValues	Description
Licensed	True	• Yes • No	Whether the Part Replacement feature is licensed.

AttributeName	IsReadOnly	PossibleValues	Description
Part Configuration Update	False	• Disabled • Apply always • Apply only if firmware match	Part cofiguration update method.
Part Firmware Update	False	• Disable • Allow version upgrade only • Match firmware of replaced part	• Disable (default) – firmware update is not allowed. • Allow version upgrade only – Allow firmware update only on up-revision. • Match firmware of replaced part – Always update firmware.
Collect System Inventory on Restart	False	• Disabled • Enabled	• Enabled (default) – Enable collecting system inventory on restart • Disabled – Disable collecting inventory on restart
AutoDiscovery	True	• On • Off	Whether Auto Discovery feature is turned on or off.
Discovery Factory Defaults	True	• On • Off	• Off (default) – Do not reset to factory defaults when performing auto discovery • On – Reset to factory defaults when performing auto discovery.
IPChangeNotifyPS	False	• On • Off	• On – Notify provisioning server of an IP change. • Off – Do not notify provisioning server of an IP change.
VirtualAddressManagement	False	• Console • FlexAddress	• Console – Console manages the virtual addresses • FlexAddress – (Blade only) Virtual addresses are managed through the flex addressing. Note: If this attribute is configured through console, see to section “Setting virtual address attributes on CNA” in Simple NIC Profile.
LifecycleControllerState	False	• Enabled • Disabled • Recovery	Enabled (Default) The LC core services shall be enabled to enable the update and inventory collection features.
BIOS Reset To Defaults Requested	False	• True • False	• False (default) – Do not reset the BIOS to defaults • True – Reset the BIOS to defaults. • Note: This action needs the system reboot.
AutoBackup	False	• Enabled • Disabled	Enables or disables the automatic backup scheduler.
AutoUpdate	False	• Enabled • Disabled	Enables or disables the automatic update scheduler.
LCWipe	False	• No • Yes	Specifies if LC Wipe is yes or no.
PartReplacement	False	• Enabled • Disabled	Whether part replacement feature is enabled or disabled.
LCDriveEnable	False	• Enabled • Disabled	Specifies LC drive enabled or disabled.

7.3. DCIM_LCString

This section describes the implementation for the DCIM_LCString class.

This class shall be instantiated in the Implementation Namespace.

7.3.1. Resource URIs for WinRM®

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

The key property shall be the InstanceID.

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

7.3.2. Operations

The following table details the implemented operations on DCIM_LCString.

Table 8. DCIM_LCString - Operations

Operation Name	Requirements	Required Input
Get	Mandatory	Instance URI
Enumerate	Mandatory	Class URI
DCIM_LCService.SetAttributte()	Mandatory	See section 8.1
DCIM_LCService.SetAttributes()	Mandatory	See section 8.2

7.3.3. Class Properties

The following table lists the implemented properties for DCIM_LCString instance representing an LC string attribute. The “Requirements” column shall denote whether the property is implemented (for requirement definitions, see section 3). The “Additional Requirement” column shall denote either possible values for the property, or requirements on the value formulation.

Table 9. Class: DCIM_LCString

Properties	Type	Requirement	Additional Requirements
InstanceID	string	Mandatory	The property value shall have unique value.
AttributeName	string	Mandatory	The property value shall be from the “AttributeName” column in Table 10
CurrentValue[]	string	Mandatory	The property shall represent the current value of the attribute.
PendingValue[]	string	Mandatory	The property value shall represent the pending value of the attribute.
DefaultValue[]	string	Mandatory	The property value shall represent the default value of the attribute.
IsReadOnly	boolean	Mandatory	The property value shall be the value in the “IsReadOnly” column at the corresponding row in Table 10
ElementName	string	Mandatory	The property value shall be the FQDD of the LC.

Properties	Type	Requirement	Additional Requirements
MinLength	uint64	Mandatory	The property value shall be the value in the “MinLength” column at the corresponding row in Table 10 The CurrentValue and PendingValue shall have equal or higher number of characters than the MinLength property value from the corresponding row. The omission or NULL shall denote that no known constraint exists on the CurrentValue and PendingValue properties.
MaxLength	uint64	Mandatory	The property value shall be the value in the “MaxLength” column at the corresponding row in Table 10. The CurrentValue and PendingValue shall have equal or lower number of characters than the MaxLength property value. The omission or NULL shall denote that no known constraint exists on the CurrentValue and PendingValue properties.
StringType	uint32	Mandatory	The property shall describe the type of string in the CurrentValue, PendingValue, and DefaultValue properties and have one of the following values: • 0 - "Unknown", • 2 - "ASCII", • 3 - "hex", • 4 - "unicode", • 5 - "regex"

The following table describes possible DCIM_LCString attributes and the requirements for the AttributeName, MinLength, and MaxLength properties. The column headers represent the properties of the DCIM_ LCString class. Each of the cells represents the values of the properties.

Table 10. DCIM_LCString Attributes

AttributeName	IsReadOnly	MinLength	MaxLength	Description
SYSID	TRUE	N/A	N/A	Dell System ID.
Provisioning Server	FALSE	0	255	Provisioning server address and port. Attribute value examples: • Hostname • hostname.domain.com • 1.1.1.1 • Mypc:8080 • Myps.dell.com(1.2.3.4):8080 • Host1:80,host2:8080, • Hostname[2001:db8:0000:1428:57ab]:443 [2001:db8:0000:1428:57ab]:443
VirtualAddressManagementApplication*	FALSE*	0	32	The console name of the Virtual Address Management Application, if the DCIM_LCEnumeration VirtualAddressManagement attribute is set to CurrentValue equals “Console”.
CMCIP	TRUE	0	64	CMC IP address
UserProxyServer	FALSE	0	64	IP address of the proxy server

AttributeName	IsReadOnly	MinLength	MaxLength	Description
UserProxyPort	FALSE	1	64	Port for the proxy server. Default Value 0.
UserProxyUserName	FALSE	0	64	User name of the proxy server
UserProxyPassword	FALSE	0	64	Password of the proxy server

* - Note that VirtualAddressMangementApplication attribute is settable only if the VirtualAddressManagement DCIM_LCEnumeration instance's CurrentValue is set to "Console".

7.4. Lifecycle Controller (LC) Management Registration – DCIM_LCRegistered Profile

This section describes the implementation for the DCIM_LCRegisteredProfile class.

This class shall be instantiated in the Interop Namespace.

The DCIM_LCElementConformsToProfile association(s)' ConformantStandard property shall reference the DCIM_LCRegisteredProfile instance.

7.4.1. Resource URIs for WinRM®

The class WBEM URI shall be "http://schemas.dmtf.org/wbem/wscim/1/cim-schema/2/CIM_RegisteredProfile?__cimnamespace=root/interop"

The key property shall be the InstanceID property.

The instance WBEM URI shall be: "http://schemas.dell.com/wbem/wscim/1/cim-schema/2/DCIM_LCRegisteredProfile?__cimnamespace=root/interop+InstanceID= DCIM:LCManagement:1.1.0"

7.4.2. Operations

The following table lists the operations implemented on DCIM_LCRegisteredProfile.

Table 11. DCIM_LCRegisteredProfile - Operations

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

7.4.3. Class Properties

The following table details the properties implemented for the DCIM_LCRegisteredProfile instance representing Lifecycle Controller (LC) Management 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 12. Class: DCIM_LCRegisteredProfile

Properties	Type	Requirement	Additional Requirements
InstanceID	String	Mandatory	This property shall have a value of "DCIM:LCManagement:4.0.0"
RegisteredName	String	Mandatory	This property shall have a value of "LC Management".
RegisteredVersion	String	Mandatory	This property shall have a value of "4.0.0".
RegisteredOrganization	uint16	Mandatory	This property shall have a value of 1 (Other).
OtherRegisteredOrganization	String	Mandatory	This property shall match "DCIM"
AdvertiseTypes[]	uint16	Mandatory	This property array shall have values "1(Other)" and "1(Other)"
AdvertiseTypeDescriptions[]	String	Mandatory	This property array shall have values "WS-Identify" and "Interop Namespace"
ProfileRequireLicense[]	String	Mandatory	This property array shall describe the required licenses for this profile. If no license is required for the profile, the property shall have value NULL.
ProfileRequireLicenseStatus[]	string	Mandatory	This property array shall contain the status for the corresponding license in the same element index of the ProfileRequireLicense array property. Each array element shall contain: • "LICENSED" • "NOT_LICENSED" If no license is required for the profile, the property shall have value NULL.

8. Methods

This section details the requirements for supporting intrinsic operations and extrinsic methods for the CIM elements defined by this profile.

8.1. DCIM_LCService.SetAttribute()

The SetAttribute() method is used to set or change the value of an LC attribute.

Invoking the SetAttribute() method shall change the value of the DCIM_LCAttribute.CurrentValue or DCIM_LCAttribute.PendingValue property to the value specified by the AttributeValue parameter if the DCIM_LCAttribute.IsReadOnly property is FALSE. Invoking this method when the DCIM_LCAttribute.IsReadOnly property is TRUE shall result in no change to the value of the DCIM_LCAttribute.CurrentValue property. The results of changing this value is described with the SetResult parameter.

Return code values for the SetAttribute() method are specified in tables below.

Note: Invoking the SetAttribute() method multiple times can result in the earlier requests being overwritten or lost.

Table 13. DCIM_LCService.SetAttribute() Method: Return Code Values

Value	Description
0	Request was successfully executed.
2	Error occurred

Table 14. DCIM_LCService.SetAttribute() Method: Parameters

Qualifiers	Name	Type	Description/Values
IN, REQ	AttributeName	string	DCIM_LCAttribute.AttributeName
IN, REQ	AttributeValue[]	string	Pending or Current value to be set.
OUT	SetResult	string	Invoking the SetAttribute may result in the CurrentValue or PendingValue property being set. A value of: “Set CurrentValue” means CurrentValue property is set. “Set PendingValue” means PendingValue property is set.
OUT	RebootRequired	string	A value of “Yes” means a reboot is required to set this value. “No” means a reboot is not required to set this value.
OUT	MessageID	string	Error Message ID may be used to look-up in the Dell Message registry files. For more information, see Error Message Registry.
OUT	Message	string	Error Message in English corresponding to MessageID is returned if the method fails to execute.
OUT	MessageArguments[]	string	Substitution variables for dynamic error messages.

Table 15. DCIM_LCService.SetAttribute() Method: Standard Messages

MessageID (OUT parameter)	Message	MessageArguments[]
LC002	General failure	NA
LC003	Failed to change the FW Update mode	NA
LC004	PS info not formatted correctly	NA
LC005	Invalid FW update mode	NA
LC007	Invalid parameter	NA
LC008	Unsupported method parameter value	NA
LC012	Lifecycle Controller is being used by another process	NA
LC015	Invalid Part Configuration Update	NA
LC016	Missing required parameter	<parameter>
LC036	System Services is disabled	NA
LC041	Virtual Address Mgmt file error	NA
LC042	Virtual Address Mgmt using FlexAddr	NA
LC048	Invalid value of IPChangeNotifyPS	NA
LC049	Invalid value of VirtualAddressManagement	NA
LC057	Invalid AttributeName.	NA
LC058	Invalid AttributeValue for AttributeName.	<parameter>
LC059	Cannot set ReadOnly AttributeName.	<parameter>
LC062	An instance of Export or Import System Configuration is already running.	

8.2. DCIM_LCService.SetAttributes()

The SetAttributes() method is used to set or change the values of a group of attributes.

Invoking the SetAttributes() method shall change the values of the DCIM_LCAttribute.CurrentValue or PendingValue properties that correspond to the names specified by the AttributeName parameter and the values specified by the AttributeValue parameter if the respective DCIM_LCAttribute.IsReadOnly property is FALSE. Invoking the method when the respective DCIM_LCAttribute.IsReadOnly property is TRUE shall result in no change to the corresponding value of the DCIM_LCAttribute.CurrentValue property.

Return code values for the SetAttributes() method are specified in tables below.

Note: Invoking the SetAttributes() method multiple times can result in the earlier requests being overwritten or lost.

Table 16. DCIM_LCService.SetAttributes() Method: Return Code Values

Value	Description
0	Request was successfully executed.
2	Error occurred

Table 17. DCIM_LCService.SetAttributes() Method: Parameters

Qualifiers	Name	Type	Description/Values
IN, REQ	AttributeName[]	string	The array parameter shall contain the AttributeName property values for the attributes to be modified.
IN, REQ	AttributeValue[]	string	The array parameter shall contain the desired attribute values at the corresponding array element with the attribute name in the AttributeName array parameter. For example, if there are two attributes in the AttributeName array: AttributeName1 and AttributeName2, the array index 1 shall contain the value for AttributeName1 and array index 2 shall contain the value for AttributeName2. Attributes with array values shall not be set using this method, rather the SetAttribute() method shall be used to set the array attributes one at a time.. If the value is valid, the CurrentValue or PendingValue property of the specified attribute shall be modified.
OUT	SetResult[]	string	Invoking the SetAttributes may result in the CurrentValue or PendingValue property of each input element being set. AttributeValue array shall have a corresponding SetResult value in the SetResult array. A return value of: • “Set CurrentValue” means CurrentValue property is set. • “Set PendingValue” means PendingValue property is set.
OUT	RebootRequired[]	string	Each input element‘s AttributeValue array shall have a corresponding RebootRequired value in the RebootRequired array. A value of: • “Yes” means a reboot is required to set this value. • “No” means a reboot is not required to set this value

Qualifiers	Name	Type	Description/Values
OUT	MessageID[]	string	Error Message ID may be used to look-up in the Dell Message registry files. For more information, see Error Message Registry.
OUT	Message[]	string	Error Message in English corresponding to MessageID is returned if the method fails to execute
OUT	MessageArguments[]	string	Substitution variables for dynamic error messages

Table 18. DCIM_LCService.SetAttributes() Method: Standard Messages

MessageID (OUT parameter)	Message	MessageArguments[]
LC002	General failure	NA
LC003	Failed to change the FW Update mode	NA
LC004	PS info not formatted correctly	NA
LC005	Invalid FW update mode	NA
LC007	Invalid parameter	NA
LC008	Unsupported method parameter value	NA
LC012	Lifecycle Controller is being used by another process	NA
LC015	Invalid Part Configuration Update	NA
LC016	Missing required parameter	<parameter>
LC036	System Services is disabled	NA
LC041	Virtual Address Mgmt file error	NA
LC042	Virtual Address Mgmt using FlexAddr	NA
LC048	Invalid value of IPChangeNotifyPS	NA
LC049	Invalid value of VirtualAddressManagement	NA
LC057	Invalid AttributeName.	NA
LC058	Invalid AttributeValue for AttributeName.	<parameter>
LC059	Cannot set ReadOnly AttributeName.	<parameter>
LC062	An instance of Export or Import System Configuration is already running.	

8.3. DCIM_LCService.CreateConfigJob()

The CreateConfigJob() method is used to apply the pending values created by the SetAttribute and SetAttributes methods. The successful execution of this method creates a job for application of pending attribute values.

Return code values for the CreateConfigJob() method are specified in tables below.

Note: Subsequent calls to CreateConfigJob after the first CreateConfigJob will result in error until the first job is completed.

Table 19. DCIM_LCService.CreateConfigJob() Method: Return Code Values

Value	Description
2	Error occurred
4096	Job started: REF returned to started CIM_ConcreteJob

Table 20. DCIM_LCService.CreateConfigJob() Method: Parameters

Qualifiers	Name	Type	Description/Values
OUT	Job	CIM_ConcreteJobREF	Returned to keep track of config job status1
OUT	MessageID	string	Error Message ID may be used to look-up in the Dell Message registry files. For more information, see Error Message Registry.
OUT	Message	string	Error Message in English corresponding to MessageID is returned if the method fails to execute
OUT	MessageArguments[]	string	Substitution variables for dynamic error messages

Table 21. DCIM_LCService.CreateConfigJob() Method: Standard Messages

MessageID (OUT parameter)	Message	MessageArguments[]
LC002	General failure	
LC012	Lifecycle Controller is being used by another process	NA
LC013	There are no pending values to set	NA
LC045	An instance of CreateConfigJob is already running	NA
JCP017	Maximum job limit reached, cannot create new jobs	NA
JCP018	Backup Job is running, cannot create new jobs until the existing Backup job is completed or is cancelled	NA
JCP019	Restore Job is running, cannot create new jobs until the existing Restore job is completed or is cancelled	NA
LC062	An instance of Export or Import System Configuration is already running.	

8.4. DCIM_LCService.ReInitiateDHS()

The ReInitiateDHS() method is used to reinitiate the provisioning server discovery and handshake.

Table 22. DCIM_LCService.ReInitiateDHS() Method: Return Code Values

Value	Description
0	Request was successfully executed.
2	Error occurred

Table 23. DCIM_LCService.ReInitiateDHS() Method: Parameters

Qualifiers	Name	Type	Description/Values
IN	ProvisioningServer	string	An optional parameter to specify provisioning server addresses and ports used for auto discovery. If omitted, the Lifecycle Controller shall get the value from DHCP or DNS.
IN, REQ	ResetToFactoryDefaults	boolean	If set to “true”, all configuration information is replaced with the auto discovery factory defaults. If set to “false”, an error will be returned

Qualifiers	Name	Type	Description/Values
IN, REQ	PerformAutoDiscovery	uint16	A value of "Off = 1" disables auto discovery. A value of "Now = 2" enables and initiates auto discovery immediately. A value of “NextBoot = 3" will delay reconfiguration and auto discovery until next A/C cycle. Note: If NextBoot has value 3, then upon successful execution, the Discovery Factory Defaults attribute shall be set to “On”.
OUT	MessageID	string	Error Message ID may be used to look-up in the Dell Message registry files. For more information, see Error Message Registry.
OUT	Message	string	Error Message in English corresponding to MessageID is returned if the method fails to execute
OUT	MessageArguments[]	string	Substitution variables for dynamic error messages

Table 24. DCIM_LCService.ReInitiateDHS() Method: Standard Messages

MessageID (OUT parameter)	Message	MessageArguments[]
LC002	General failure	NA
LC004	PS info not formatted correctly	NA
LC008	Unsupported method parameter value	NA
LC009	Insufficient method parameters	NA

8.5. DCIM_LCService.ReInitiateAutoDiscovery()

The ReInitiateAutoDiscovery() method is used to reinitiate the discovery and handshake with static IP configuration. If the method successfully executes, the iDRAC shall be in the static IP mode after the auto-discovery is initiated and thus, shall not require DHCP setup. The static IP information for auto-discovery can be set either through the optional input parameters of this method or through the iDRAC attributes in the iDRAC Card Profile.

After the successful auto-discovery initiation, if the IPAddress parameter has non-NULL value, then the iDRAC IPv4 address shall be set to that parameter’s value, otherwise the iDRAC IPv4 Address shall be set to the Address attribute in the IPv4 Information group in the iDRAC Card Profile.

After the successful auto-discovery initiation, if the Mask parameter has non-NULL value, then the iDRAC IPv4 address net mask shall be set to that parameter’s value, otherwise the iDRAC IPv4 address net mask shall be set to the to the Netmask attribute in the IPv4 Information group in the iDRAC Card Profile.

After the successful auto-discovery initiation, if the Gateway parameter has non-NULL value, then the iDRAC IPv4 gateway address shall be set to that parameter’s value, otherwise the iDRAC IPv4 gateway shall be set to the to the Gateway attribute in the IPv4 Information group in the iDRAC Card Profile.

After the successful auto-discovery initiation, if the DNS parameter has non-NULL value, then the iDRAC IPv4 DNS address shall be set to that parameter’s value, otherwise the iDRAC IPv4 DNS address shall be set to the to the DNS1 attribute in the IPv4 Information group in the iDRAC Card Profile.

After the successful auto-discovery initiation, if the Domain parameter has non-NULL value, then the iDRAC domain name shall be set to that parameter’s value, otherwise the iDRAC domain name shall be set to the to the DNSDomainName attribute in the NIC Information group in the iDRAC Card Profile.

Table 25. DCIM_LCService.ReInitiateAutoDiscovery() Method: Return Code Values

Value	Description
0	Request was successfully executed.
2	Error occurred

Table 26. DCIM_LCService.ReInitiateAutoDiscovery() Method: Parameters

Qualifiers	Name	Type	Description/Values
IN	ProvisioningServer	string	An optional parameter to specify provisioning server addresses and ports used for auto discovery. If omitted, the Lifecycle Controller shall get the value from DNS.
IN, REQ	PerformAutoDiscovery	uint16	• A value of "Off = 1" disables auto discovery. • A value of "Now = 2" enables and initiates auto discovery immediately. • A value of “NextBoot = 3" will delay reconfiguration and auto discovery until next A/C cycle. Note: If NextBoot has value 3, then upon successful execution, the Discovery Factory Defaults attribute shall be set to “On”.
IN	IPAddress	string	An optional parameter for specifying the iDRAC static IP configuration after the reset to the factory defaults occurs. The parameter shall be IPv4 address. The iDRAC IPv4 address shall be set to this parameter value after the reset occurs. Note: If this parameter is not specified then iDRAC shall be set to the value of the Address attribute in the IPv4 Information group in the iDRAC Card Profile.
IN	Mask	string	An optional parameter for specifying the iDRAC static IP configuration after the reset to the factory defaults occurs. The iDRAC shall be set to this net mask after the reset of iDRAC configuration. Note: If this parameter is not specified then iDRAC shall be set to the value of the Netmask attribute in the IPv4 Information group in the iDRAC Card Profile.
IN	Gateway	string	An optional parameter for specifying the iDRAC static IP configuration after the reset to the factory defaults occurs. The parameter shall be IPv4 address. The iDRAC shall be set to this gateway IP address after the reset of iDRAC configuration. Note: If this parameter is not specified then iDRAC shall be set to the value of the Gateway attribute in the IPv4 Information group in the iDRAC Card Profile.

Qualifiers	Name	Type	Description/Values
IN	DNS	string	An optional parameter for specifying the iDRAC static IP configuration after the reset to the factory defaults occurs. The parameter shall be IPv4 address. The iDRAC shall be set to this DNS IP address after the reset of iDRAC configuration. Note: If this parameter is not specified then iDRAC shall be set to the value of the DNS1 attribute in the IPv4 Information group in the iDRAC Card Profile.
IN	Domain	string	An optional parameter for specifying the iDRAC static IP configuration after the reset to the factory defaults occurs. The iDRAC shall be set to this domain after the reset of iDRAC configuration. Note: If this parameter is not specified then iDRAC shall be set to the value of the DNSDomainName attribute in the NIC Information group in the iDRAC Card Profile.
OUT	MessageID	string	Error Message ID may be used to look-up in the Dell Message registry files. For more information, see Error Message Registry.
OUT	Message	string	Error Message in English corresponding to MessageID is returned if the method fails to execute
OUT	MessageArguments[]	string	Substitution variables for dynamic error messages

Table 27. DCIM_LCService.ReInitiateAutoDiscovery() Method: Standard Messages

MessageID (OUT parameter)	Message	MessageArguments[]
LC002	General failure	NA
LC004	PS info not formatted correctly	NA
LC008	Unsupported method parameter value	NA
LC009	Insufficient method parameters	NA
LC065	Static IP information is not configured correctly <attribute key>.	attribute key

8.6. DCIM_LCService.ClearProvisioningServer()

The ClearProvisioningServer() method is used to clear the provisioning server values.

Table 28. DCIM_LCService.ClearProvisioningServer() Method: Return Code Values

Value	Description
0	Request was successfully executed.
2	Error occurred

Table 29. DCIM_LCService.ClearProvisioningServer() Method: Parameters

Qualifiers	Name	Type	Description/Values
OUT	MessageID	string	Error MessageID is returned if the method fails to execute
OUT	Message	string	Error Message in English corresponding to MessageID is returned if the method fails to execute

Qualifiers	Name	Type	Description/Values
OUT	MessageArguments[]	string	Substitution variables for dynamic error messages

Table 30. DCIM_LCService.ClearProvisioningServer() Method: Standard Messages

MessageID (OUT parameter)	Message	MessageArguments[]
LC002	General failure	

8.7. DCIM_LCService.DownloadServerPublicKey()

The DownloadServerPublicKey() method is used to set a public certificate in the chain of trust for provisioning server. The successful invocation of this method shall set the certificate inside the KeyContent parameter to the iDRAC trusted Root CA list. The certificate will be used to authenticate the provisioning server access to iDRAC.

Table 31. DCIM_LCService.DownloadServerPublicKey() Method: Return Code Values

Value	Description
2	Error occurred
4096	Job started

Table 32. DCIM_LCService.DownloadServerPublicKey() Method: Parameters

Qualifiers	Name	Type	Description/Values
IN, OctetString, REQ	KeyContent	string	Base64 encoded public CA certificate.
OUT	Job	CIM_ConcreteJobREF	Returned to track the setting of the public key.
OUT	MessageID	string	Error Message ID can be used to index into Dell Message registry files.
OUT	Message	string	Error Message ID may be used to look-up in the Dell Message registry files. For more information, see Error Message Registry.
OUT	MessageArguments[]	string	Substitution variables for dynamic error messages.

Table 33. DCIM_LCService.DownloadServerPublicKey() Method: Standard Messages

MessageID (OUT parameter)	Message	MessageArguments[]
LC002	General failure	NA
LC016	Missing required parameter	<parameter>
LC017	Invalid value of parameter	<parameter>
LC040	Resource Allocation Failure	
LC046	An instance of DownloadServerPublicKey is already running	
JCP017	Maximum job limit reached, cannot create new jobs	
JCP018	Backup Job is running, cannot create new jobs until the existing Backup job is completed or is cancelled	
JCP019	Restore Job is running, cannot create new jobs until the existing Restore job is completed or is cancelled	NA

8.8. DCIM_LCService.DownloadClientCerts()

DCIM_LCService.DownloadClientCerts() is used to copy a CA cert and private key to the iDRAC to sign the iDRAC certificate. When this command is issued the iDRAC will generate a new auto-discovery client certificate and sign it using the CA cert and private key. The CA cert then needs to be added to the provisioning server trusted Root CA list before performing auto-discovery.

Table 34. DCIM_LCService.DownloadClientCerts() Method: Return Code Values

Value	Description
2	Error occurred
4096	Job started

Table 35. DCIM_LCService.DownloadClientCerts() Method: Parameters

Qualifiers	Name	Type	Description/Values
IN, OctetString, REQ	KeyContent	string	Base64 encoded private key content.
IN, REQ	Password	string	Private key password.
IN, OctetString, REQ	CAContent	string	Base64 encoded root certificate content.
OUT	Job	CIM_ConcreteJobREF	Returned to track the setting of the public key.
OUT	MessageID	string	Error Message ID can be used to index into Dell Message registry files.
OUT	Message	string	Error Message ID may be used to look-up in the Dell Message registry files. For more information, see Error Message Registry.
OUT	MessageArguments[]	string	Substitution variables for dynamic error messages.

Table 36. DCIM_LCService.DownloadClientCerts() Method: Standard Messages

MessageID (OUT parameter)	Message	MessageArguments[]
LC002	General failure	NA
LC016	Missing required parameter	<parameter>
LC017	Invalid value of parameter	<parameter>
LC040	Resource Allocation Failure	
LC047	An instance of DownloadClientCerts is already running	
JCP017	Maximum job limit reached, cannot create new jobs	
JCP018	Backup Job is running, cannot create new jobs until the existing Backup job is completed or is cancelled	
JCP019	Restore Job is running, cannot create new jobs until the existing Restore job is completed or is cancelled	NA

8.9. DCIM_LCService.DeleteAutoDiscoveryClientCerts ()

The DeleteAutoDiscoveryClientCerts() method is used to wipe all configurations from the Lifecycle controller before the system is retired.

Table 37. DCIM_LCService.DeleteAutoDiscoveryClientCerts() Method: Return Code Values

Value	Description
0	Request was successfully executed.
2	Error occurred

Table 38. DCIM_LCService.DeleteAutoDiscoveryClientCerts() Method: Parameters

Qualifiers	Name	Type	Description/Values
OUT	MessageID	string	Error Message ID may be used to look-up in the Dell Message registry files. For more information, see Error Message Registry.
OUT	Message	string	Error Message in English corresponding to MessageID is returned if the method fails to execute
OUT	MessageArguments[]	string	Substitution variables for dynamic error messages

Table 39. DCIM_LCService.DeleteAutoDiscoveryClientCerts() Method: Standard Messages

MessageID (OUT parameter)	Message	MessageArguments[]
LC002	General failure	

8.10. DCIM_LCService.SetCertificateAndPrivateKey()

The SetCertificateAndPrivateKey() method is used to set iDRAC owned server certificate and public and private key pairs using the contents of a PKCS#12 file. iDRAC will serve the certificate to identify itself during web server based connections such as for iDRAC's web application and WSMan instrumentation connections. The certificate will also be served for connections with directory services.

Table 40. DCIM_LCService.SetCertificateAndPrivateKey() Method: Return Code Values

Value	Description
0	Request was successfully executed.
2	Error occurred

Table 41. DCIM_LCService.SetCertificateAndPrivateKey() Method: Parameters

Qualifiers	Name	Type	Description/Values
IN, REQ	Type	string	This parameter specifies the certificate use. **Note: The parameter shall have "server" value.**
IN, REQ	PKCS12	string	An input parameter that represents the Base64 encoded contents of PKCS#12 file to set. Note this is the content of the file and not a file name.
IN, REQ	PKCS12pin	string	Password to decode the PKCS12.
OUT	MessageID	String	Error Message ID can be used to index into Dell Message registry files.
OUT	Message	String	Error Message in English corresponding to MessageID is returned if the method fails to execute.
OUT	MessageArguments[]	String	Substitution variables for dynamic error messages.

Table 42. DCIM_LCService.SetCertificateAndPrivateKey() Method: Standard Messages

MessageID (OUT parameter)	Message	MessageArguments[]
LC002	General failure	
LC016	Missing required parameter	"Type", "PKCS12","PKCS12pin"
LC017	Invalid value of parameter	"Type", "PKCS12","PKCS12pin"

8.11. DCIM_LCService.SetPublicCertificate()

The SetPublicCertificate() method is used to set a public certificate in the chain of trust for directory services. The successful invocation of this method shall set the certificate inside the Certificate parameter to the iDRAC trusted Root CA list. The certificate will be used to authenticate the directory service access to iDRAC.

Table 43. DCIM_LCService.SetPublicCertificate() Method: Return Code Values

Value	Description
0	Request was successfully executed.
2	Error occurred

Table 44. DCIM_LCService.SetPublicCertificate() Method: Parameters

Qualifiers	Name	Type	Description/Values
IN, REQ	Type	string	This parameter specifies the service the certificate is for. “directoryCA” = CA certificate for Active Directory or LDAP server
IN, REQ	Certificate	string	An input parameter that represents the certificate to set. The certificate must be in X509 format and Base64 encoded.
OUT	MessageID	string	Error Message ID may be used to look-up in the Dell Message registry files. For more information, see Error Message Registry.
OUT	Message	string	Error Message in English corresponding to MessageID is returned if the method fails to execute
OUT	MessageArguments[]	string	Substitution variables for dynamic error messages

Table 45. DCIM_LCService.SetPublicCertificate() Method: Standard Messages

MessageID (OUT parameter)	Message	MessageArguments[]
LC002	General failure	
LC016	Missing required parameter %s	"Type", "Certificate"
LC017	Invalid value of parameter %s	"Type", "Certificate"

8.12. DCIM_LCService.DeleteAutoDiscoveryServerPublicKey()

The DeleteAutoDiscoveryServerPublicKey() method is used to delete the server public key set previously by the auto discovery method.

Table 46. DCIM_LCService.DeleteAutoDiscoveryServerPublicKey() Method: Return Code Values

Value	Description
0	Request was successfully executed.
2	Error occurred

Table 47. DCIM_LCService.DeleteAutoDiscoveryServerPublicKey() Method: Parameters

Qualifiers	Name	Type	Description/Values
OUT	MessageID	String	Error Message ID may be used to look-up in the Dell Message registry files. For more information, see Error Message Registry.
OUT	Message	String	Error Message in English corresponding to MessageID is returned if the method fails to execute
OUT	MessageArguments[]	string	Substitution variables for dynamic error messages

Table 48. DCIM_LCService.DeleteAutoDiscoveryServerPublicKey() Method: Standard Messages

MessageID (OUT parameter)	Message	MessageArguments[]
LC002	General failure	

8.13. DCIM_LCService.InsertCommentInLCLog()

This method can add worknotes as well as insert comment into an existing LCLog Entry. If a LogSequenceNumber is passed, the Comment will be inserted into the corresponding entry. If not passed, a new worknote will be created in the LCLogs with the Description same as what is given in Comment.

Table 49. DCIM_LCService.InsertCommentInLCLog() Method: Return Code Values

Value	Description
0	Request was successfully executed.
2	Error occurred

Table 50. DCIM_LCService.InsertCommentInLCLog() Method: Parameters

Qualifiers	Name	Type	Description/Values
IN, REQ	Comment	string	This parameter holds the text that shall be inserted into the LC log Comment field in case LogSequenceNumber is provided. Otherwise a new worknote will be created with this text as Message. In case of worknote, it is a required parameter, optional otherwise.
IN	LogSequenceNumber	uint32	SequenceNumber of the LC Log entry into which we want to insert the comment
OUT	MessageID	string	Error Message ID may be used to look-up in the Dell Message registry files. For more information, see Error Message Registry.
OUT	Message	string	Error Message in English corresponding to MessageID is returned if the method fails to execute
OUT	MessageArguments[]	string	Substitution variables for dynamic error messages

Table 51. DCIM_LCService.InsertCommentInLCLog() Method: Standard Messages

MessageID (OUT parameter)	Message	MessageArguments[]
LC002	General failure	
LC008	Unsupported method parameter value	
LC014	Comment length must be between 1 and 255 characters	
LC017	Invalid value for the parameter, <arg>	<parameter>
RAC953	Successfully added the comment.	

MessageID (OUT parameter)	Message	MessageArguments[]
RAC954	The number of characters entered for the comment exceeds the supported limit.	
RAC955	Unable to retrieve the information related to the specified record in the Lifecycle Log.	

8.14. DCIM_LCService.ExportLCLog()

The ExportLCLog() method is used to export the log from the Lifecycle Controller to a remote share.

Table 52. DCIM_LCService.ExportLCLog() Method: Return Code Values

Value	Description
2	Error occurred
4096	Job started: REF returned to started CIM_ConcreteJob

Table 53. DCIM_LCService.ExportLCLog() Method: Parameters

Qualifiers	Name	Type	Description/Values
IN, REQ	IPAddress	string	The IP address of the target export server.
IN	ShareName	string	The directory path to the mount point. This parameter is mandatory only in case of NFS/CIFS. Sharename shall be considered as a path to a sub-folder in case of HTTP/HTTPS.
IN, REQ	FileName	string	The target output file name.
IN, REQ	ShareType	uint16	Type of share: NFS=0, CIFS=2, Local=4, HTTP = 5, HTTPS=6
IN	ProxySupport	uint16	Specifies use of proxy • Off • On -Use user default proxy settings • On –Use passed in parameters for proxy Default is Off
IN	ProxyType	Uint16	Specifies the proxy type of the server • 0-HTTP • 1-SOCKS Default is HTTP
IN	ProxyServer	String	IP of the proxy server
IN	ProxyUname	String	User name for proxy server
IN	ProxyPasswd	String	Password for the proxy server
IN	ProxyPort	String	Port for the proxy server Default is set to 80
No wIN	IgnoreCertWarning	uint16	Specifies to ignore Certificate Warning when HTTPS specified • 1-Off • 2-On Default is ON(certificate will be ignored)

Qualifiers	Name	Type	Description/Values
IN	Username	String	User name for the target export server.
IN	Password	String	Password for the target export server.
IN	Workgroup	String	The applicable workgroup.
OUT	Job	CIM_Concrete JobREF	Returned to keep track of config job status1.
OUT	MessageID	String	Error Message ID- can be used to index into Dell Message registry files.
OUT	Message	String	Error Message in English corresponding to MessageID is returned if the method fails to execute.
OUT	MessageArguments[]	string	Substitution variables for dynamic error messages.

Table 54. DCIM_LCService.ExportLCLog() Method: Standard Messages

MessageID (OUT parameter)	Message	MessageArguments[]
LC016	Missing required parameter <parameter name>	Parameter name, see Table 53
LC017	Invalid value of parameter <parameter name>	Parameter name, see Table 53
LC022	LCL Export was successful	
LC023	Cannot access network share	
LC030	Filepath is a read-only file system	
LC037	An instance of LCExport is already running	
LC040	Resource Allocation Failure	
JCP017	Maximum job limit reached, cannot create new jobs	
JCP018	Backup Job is running, cannot create new jobs until the existing Backup job is completed or is cancelled	
JCP019	Restore Job is running, cannot create new jobs until the existing Restore job is completed or is cancelled	NA

8.15. DCIM_LCService.ExportCompleteLCLog()

The ExportLCLog() method is used to export the log from the Lifecycle Controller to a remote share.

Table 55. DCIM_LCService.ExportCompleteLCLog() Method: Return Code Values

Value	Description
1	Not Supported
2	Error occurred
4096	Job started: REF returned to started CIM_ConcreteJob

Table 56. DCIM_LCService.ExportCompleteLCLog() Method: Parameters

Qualifiers	Name	Type	Description/Values
IN, REQ	IPAddress	string	The IP address of the target export server.

Qualifiers	Name	Type	Description/Values
IN	ShareName	string	The directory path to the mount point. This parameter is mandatory only in case of NFS/CIFS. Sharename shall be considered as a path to a sub-folder in case of HTTP/HTTPS.
IN, REQ	FileName	string	The target output file name.
IN, REQ	ShareType	uint16	Type of share: NFS=0, CIFS=2, Local=4,5-HTTP.6-HTTPS
IN	ProxySupport	uint16	Specifies use of proxy • Off • On -Use user default proxy settings • On –Use passed in parameters for proxy Default is Off
IN	ProxyType	Uint16	Specifies the proxy type of the server • 0-HTTP • 1-SOCKS Default is HTTP
IN	ProxyServer	String	IP of the proxy server
IN	ProxyUname	String	User name for proxy server
IN	ProxyPasswd	String	Password for the proxy server
IN	ProxyPort	String	Port for the proxy server Default is set to 80
IN	IgnoreCertWarning	uint16	Specifies to ignore Certificate Warning when HTTPS specified • 1-Off • 2-On Default is ON(certificate will be ignored)
IN	Username	String	User name for the target export server.
IN	Password	String	Password for the target export server.
IN	Workgroup	String	The applicable workgroup.
OUT	Job	CIM_ConcreteJobREF	Returned to keep track of config job status1.
OUT	MessageID	String	Error Message ID- can be used to index into Dell Message registry files.
OUT	Message	String	Error Message in English corresponding to MessageID is returned if the method fails to execute.
OUT	MessageArguments[]	string	Substitution variables for dynamic error messages.

Table 57. DCIM_LCService.ExportCompleteLCLog() Method: Standard Messages

MessageID (OUT parameter)	Message	MessageArguments[]
LC016	Missing required parameter <parameter name>	Parameter name, see Table 56
LC017	Invalid value of parameter <parameter name>	Parameter name, see Table 56
LC022	LCL Export was successful	

MessageID (OUT parameter)	Message	MessageArguments[]
LC023	Cannot access network share	
LC030	Filepath is a read-only file system	
LC037	An instance of LCExport is already running	
LC040	Resource Allocation Failure	
JCP017	Maximum job limit reached, cannot create new jobs	
JCP018	Backup Job is running, cannot create new jobs until the existing Backup job is completed or is cancelled	
JCP019	Restore Job is running, cannot create new jobs until the existing Restore job is completed or is cancelled	NA

Note: Exporting of log files will be in tar.gz format. Users are at their liberty to change the extension.

8.16. DCIM_LCService.ExportHWInventory()

The ExportHWInventory() method is used to export the hardware inventory from the Lifecycle Controller to a remote share.

Table 58. DCIM_LCService.ExportHWInventory() Method: Return Code Values

Value	Description
2	Error occurred
4096	Job started: REF returned to started CIM_ConcreteJob

Table 59. DCIM_LCService.ExportHWInventory() Method: Parameters

Qualifiers	Name	Type	Description/Values
IN, REQ	IPAddress	string	The IP address of the target export server.
IN	ShareName	string	The directory path to the mount point. Sharename is required only for CIFS/NFS. Sharename shall be considered as a path to a sub-folder in case of HTTP/HTTPS.
IN, REQ	FileName	string	The target output file name.
IN, REQ	ShareType	uint16	Type of share: NFS=0, CIFS=2, Local=4, HTTP=5, HTTPS=6
IN	XMLSchema	uint8	The schema to be used for the Hardware Inventory XML output: 0 (CIM-XML), 1(Simple). If this parameter is not specified, then the output shall be in CIM-XML schema XML.
IN	Username	String	User name for the target export server.
IN	Password	String	Password for the target export server.
IN	Workgroup	String	The applicable workgroup.
IN	ProxySupport	uint16	Specifies use of proxy • Off • On -Use user default proxy settings • On –Use passed in parameters for proxy Default is Off

Qualifiers	Name	Type	Description/Values
IN	ProxyType	Uint16	Specifies the proxy type of the server • 0-HTTP • 1-SOCKS Default is HTTP
IN	ProxyServer	String	IP of the proxy server
IN	ProxyUname	String	User name for proxy server
IN	ProxyPasswd	String	Password for the proxy server
IN	ProxyPort	uint16	Port for the proxy server. Default is set to 80
IN	IgnoreCertWarning	uint16	Specifies to ignore Certificate Warning when HTTPS specified • 1-Off • 2On
OUT	Job	CIM_ConcreteJobREF	Returned to keep track of config job status1
OUT	MessageID	String	Error Message ID may be used to look-up in the Dell Message registry files. For more information, see Error Message Registry.
OUT	Message	String	Error Message in English corresponding to MessageID is returned if the method fails to execute.
OUT	MessageArguments[]	string	Substitution variables for dynamic error messages.

Table 60. DCIM_LCService.ExportHWInventory() Method: Standard Messages

MessageID (OUT parameter)	Message	MessageArguments[]
LC016	Missing required parameter <parameter name>	Parameter name, see table 59
LC017	Invalid value of parameter <parameter name>	Parameter name, see table 59
LC023	Cannot access network share	
LC025	Insufficient space on network share	
LC027	Hardware Inventory Export was successful	
LC029	Filepath is invalid	
LC030	Filepath is a read-only file system	
LC038	An instance of Hardware Inventory is already running	
LC040	Resource Allocation Failure	
JCP017	Maximum job limit reached, cannot create new jobs	
JCP018	Backup Job is running, cannot create new jobs until the existing Backup job is completed or is cancelled	
JCP019	Restore Job is running, cannot create new jobs until the existing Restore job is completed or is cancelled	NA

8.17. DCIM_LCService.ExportFactoryConfiguration()

The ExportFactoryConfiguration() method is used to export the factory configuration from the Lifecycle Controller to a remote share.

Table 61. DCIM_LCService.ExportFactoryConfiguration() Method: Return Code Values

Value	Description
2	Error occurred
4096	Job started: REF returned to started CIM_ConcreteJob

Table 62. DCIM_LCService.ExportFactoryConfiguration() Method: Parameters

Qualifiers	Name	Type	Description/Values
IN, REQ	IPAddress	string	The IP address of the target export server.
IN	ShareName	string	The directory path to the mount point. This parameter is mandatory only in case of NFS/CIFS. Sharename shall be considered as a path to a sub-folder in case of HTTP/HTTPS.
IN, REQ	FileName	string	The target output file name.
IN, REQ	ShareType	uint16	Type of share: NFS=0, CIFS=2, Local=4,HTTP-5,HTTPS-6
IN	Username	String	User name for the target export server.
IN	Password	String	Password for the target export server.
IN	ProxySupport	uint16	Specifies use of proxy • 1-Off • 2-On -Use user default proxy settings • 3- On –Use passed in parameters for proxy Default is Off
IN	ProxyType	Uint16	Specifies the proxy type of the server • 0-HTTP • 1-SOCKS Default is HTTP
IN	ProxyServer	String	IP of the proxy server
IN	ProxyUname	String	User name for proxy server
IN	ProxyPasswd	String	Password for the proxy server
IN	ProxyPort	String	Port for the proxy server Default is set to 80
IN	IgnoreCertWarning	uint16	Specifies to ignore Certificate Warning when HTTPS specified • 1-Off • 2-On Default is ON(certificate will be ignored)
IN	Workgroup	String	The applicable workgroup.
OUT	Job	CIM_ConcreteJobREF	Returned to keep track of config job status.
OUT	MessageID	String	Error Message ID may be used to look-up in the Dell Message registry files. For more information, see Error Message Registry.
OUT	Message	String	Error Message in English corresponding to MessageID is returned if the method fails to execute.

Qualifiers	Name	Type	Description/Values
OUT	MessageArguments[]	string	Substitution variables for dynamic error messages.

Table 63. DCIM_LCService.ExportFactoryConfiguration() Method: Standard Messages

MessageID (OUT parameter)	Message	MessageArguments[]
LC016	Missing required parameter <parameter name>	Parameter name, see table 62
LC017	Invalid value of parameter <parameter name>	Parameter name, see table 62
LC023	Cannot access network share	
LC025	Insufficient space on network share	
LC029	Filepath is invalid	
LC030	Filepath is a read-only file system	
LC033	Factory Configuration Export was successful	
LC034	Factory Configuration was not found on the system	
LC039	An instance of Factory Configuration is already running	
LC040	Resource Allocation Failure	
JCP017	Maximum job limit reached, cannot create new jobs	
JCP018	Backup Job is running, cannot create new jobs until the existing Backup job is completed or is cancelled	
JCP019	Restore Job is running, cannot create new jobs until the existing Restore job is completed or is cancelled	NA

8.18. DCIM_LCService.ExportSystemConfiguration()

This method is used to export the system configuration from the Lifecycle Controller to a file on a remote share.

Table 64. DCIM_LCService.ExportSystemConfiguration() Method: Return Code Values

Value	Description
2	Error occurred
4096	Job started: REF returned to started CIM_ConcreteJob

Table 65. DCIM_LCService.ExportSystemConfiguration() Method: Parameters

Qualifiers	Name	Type	Description/Values
IN, REQ	IPAddress	string	The IP address of the target export server.
IN	ShareName	string	The directory path to the mount point. This parameter is mandatory only in case of NFS/CIFS. Sharename shall be considered as a path to a sub-folder in case of HTTP/HTTPS.
IN, REQ	FileName	string	The target output file name.
IN, REQ	ShareType	uint16	Type of share: NFS=0, CIFS=2, Local=4, HTTP-5, HTTPS-6

Qualifiers	Name	Type	Description/Values
IN	ProxySupport	uint16	Specifies use of proxy • 1-Off • 2-On -Use user default proxy settings • 3- On –Use passed in parameters for proxy Default is Off
IN	ProxyType	Uint16	Specifies the proxy type of the server • 0-HTTP • 1-SOCKS Default is HTTP
IN	ProxyServer	String	IP of the proxy server
IN	ProxyUname	String	User name for proxy server
IN	ProxyPasswd	String	Password for the proxy server
IN	ProxyPort	String	Port for the proxy server Default is set to 80
IN	IgnoreCertWarning	uint16	Specifies to ignore Certificate Warning when HTTPS specified • 1-Off • 2-On Default is ON(certificate will be ignored)
IN	ExportFormat	uint16	ExportFileFormat • 0 - XML • 1 - JSON Default is XML
IN	Username	String	User name for the target export server.
IN	Password	String	Password for the target export server.
IN	Workgroup	String	WorkGroup name if it is needed.
IN	Target	String	To identify the component for Export. It identifies the one or more FQDDs .Selective list of FQDDs should be given in comma separated format . Default = “All” .
IN	ExportUse	uint16	Type of Export intended for use: Default =0, Clone=1 , Replace=2.
IN	IncludeInExport	uint16	Extra information to include in the export: Default=0, Include read only = 1, Include password hash values = 2, Include read only and password hash values=3.
OUT	Job	CIM_ConcreteJobREF	Returned to keep track of config job status.
OUT	MessageID	String	Error Message ID may be used to look-up in the Dell Message registry files. For more information, see Error Message Registry.
OUT	Message	String	Error Message in English corresponding to MessageID is returned if the method fails to execute.

Qualifiers	Name	Type	Description/Values
OUT	MessageArguments[]	string	Substitution variables for dynamic error messages.

Table 66. DCIM_LCService.ExportSystemConfiguration() Method: Standard Messages

MessageID (OUT parameter)	Message	MessageArguments[]
LC016	Missing required parameter <parameter name>	Parameter name, see Table 65
LC017	Invalid value of parameter <parameter name>	Parameter name, see Table 65
LC023	Cannot access network share	
LC040	Resource Allocation Failure	
LC062	An instance of Export or Import System Configuration is already running.	
LC063	Cannot create new jobs until the existing running jobs are completed or deleted.	
LC064	Parameter exceeds maximum length <max parameter length> for <parameter name>	Parameter name, see Table 65
JCP017	Maximum job limit reached, cannot create new jobs	

8.19. DCIM_LCService.ImportSystemConfiguration()

This method is used to import the system configuration from the Lifecycle Controller from a file on a remote share. The successful invocation of this method shall return a job. The job execution results shall be logged in the Lifecycle log as part of configuration results. The Dell Record Log Profile provides the DCIM_LCRecordLog.GetConfigResults() method to retrieve the configuration results from the lifecycle logs based on the returned job's JobID (see Dell Record Log Profile for more details).

Table 67. DCIM_LCService.ImportSystemConfiguration() Method: Return Code Values

Value	Description
2	Error occurred
4096	Job started: REF returned to started CIM_ConcreteJob

Table 68. DCIM_LCService.ImportSystemConfiguration() Method: Parameters

Qualifiers	Name	Type	Description/Values
IN, REQ	IPAddress	string	The IP address of the target import server.
IN	ShareName	string	The directory path to the mount point. This parameter is mandatory only in case of NFS/CIFS. Sharename shall be considered as a path to a sub-folder in case of HTTP/HTTPS.
IN, REQ	FileName	string	The target output file name.
IN, REQ	ShareType	uint16	Type of share: • NFS=0 • CIFS=2 • Local = 4 • HTTP = 5 • HTTPS=6

Qualifiers	Name	Type	Description/Values
IN	Target	String	To identify the component for Import. It identifies the one or more FQDDs .Selective list of FQDDs should be given in comma separated format . Default = “All” .
IN	ShutdownType	uint16	Type of the host shut down before perform the import operation. Type of shut down: Graceful=0, Forced =1,NoReboot=2
IN	TimeToWait	uint16	The time to wait for the host to shut down. Default and minimum value is 300 seconds. Maximum value is 3600 seconds.
IN	EndHostPowerState	uint16	The desired host power state after the import operation is finished. Default value is 1 - On. Type of state: Off=0, On=1
IN	Username	String	User name for the target import server.
IN	Password	String	Password for the target import server.
IN	ProxySupport	uint16	Specifies use of proxy • Off • On -Use user default proxy settings • On –Use passed in parameters for proxy Default is Off
IN	ProxyType	Uint16	Specifies the proxy type of the server • 0-HTTP • 1-SOCKS Default is HTTP
IN	ProxyServer	String	IP of the proxy server
IN	ProxyUname	String	User name for proxy server
IN	ProxyPasswd	String	Password for the proxy server
IN	ProxyPort	String	Port for the proxy server Default is set to 80
IN	IgnoreCertWarning	uint16	Specifies to ignore Certificate Warning when HTTPS specified • 1-Off • 2-On Default is ON(certificate will be ignored)
OUT	Job	CIM_ConcreteJobREF	Returned to keep track of config job status.
OUT	MessageID	String	Error Message ID may be used to look-up in the Dell Message registry files. For more information, see Error Message Registry.
OUT	Message	String	Error Message in English corresponding to MessageID is returned if the method fails to execute.
OUT	MessageArguments[]	string	Substitution variables for dynamic error messages.

Table 69. DCIM_LCService.ImportSystemConfiguration() Method: Standard Messages

MessageID (OUT parameter)	Message	MessageArguments[]
LC016	Missing required parameter <parameter name>	Parameter name, see Table 68
LC017	Invalid value of parameter <parameter name>	Parameter name, see Table 68
LC023	Cannot access network share	
LC040	Resource Allocation Failure	
LC062	An instance of Export or Import System Configuration is already running.	
LC063	Cannot create new jobs until the existing running jobs are completed or deleted.	
LC064	Parameter exceeds maximum length <max parameter length> for <parameter name>	Parameter name, see Table 68
JCP017	Maximum job limit reached, cannot create new jobs	

8.20. DCIM_LCService.LCWipe()

This LCWipe() method is used to delete all configurations from the Lifecycle controller before the system is retired. Host needs to be manually rebooted for the changes to take effect

Table 70. DCIM_LCService.LCWipe() Method: Return Code Values

Value	Description
0	Request was successfully executed.
2	Error occurred

Table 71. DCIM_LCService.LCWipe() Method: Parameters

Qualifiers	Name	Type	Description/Values
OUT	MessageID	String	Error Message ID may be used to look-up in the Dell Message registry files. For more information, see Error Message Registry.
OUT	Message	String	Error Message in English corresponding to MessageID is returned if the method fails to execute
OUT	MessageArguments[]	string	Substitution variables for dynamic error messages

Table 72. DCIM_LCService.LCWipe() Method: Standard Messages

MessageID (OUT parameter)	Message	MessageArguments[]
LC012	Lifecycle Controller is being used by another process	
LC044	An instance of LCWipe is already running	

8.21. DCIM_LCService.TestNetworkShare()

The TestNetworkShare() method is used to test network connection for the Lifecycle Controller.

Table 73. DCIM_LCService.TestNetworkShare() Method: Return Code Values

Value	Description
0	Request was successfully executed.
2	Error occurred

Table 74. DCIM_LCService.TestNetworkShare() Method: Parameters

Qualifiers	Name	Type	Description/Values
IN	IPAddress	String	IP address of the NFS or CIFS share such as 192.168.10.12. The parameter shall be required, if the ShareType parameter has value 0 (NFS), 2 (CIFS), 3-TFTP,5-HTTP, 6- HTTPS or not specified. In case of ftp, ftp.dell.com is the default IP taken
IN	ShareName	String	Share name for the network share such as “imageshare”. The parameter shall be required, if the ShareType parameter has value 0 (NFS), 2 (CIFS), or not specified.
IN	ShareType	Unit16	Type of the share or storage. • 0 – NFS • 2 – CIFS • 1-FTP • 3-TFTP • 5-HTTP • 6-HTTPS If ShareType is blank or null, it shall be considered as NFS type. The parameter shall be required, if the ShareType parameter has value 0 (NFS), 2 (CIFS), or not specified.
IN	Username	String	User name for the remote share
IN	Password	String	Password for the remote share
IN	ProxySupport	Uint16	It specifies if proxy is to be used or not. Default is 1 (Off). • 1 → Off • 2 → On - use default proxy settings • 3 → On - use passed in parameters for proxy
IN	ProxyType	Uint16	It specifies the proxy type of the proxy server. Default is 0 (HTTP). • 0 → HTTP • 1 → SOCKS
IN	ProxyServer	String	This string represents the IP Adrress of the proxy server
IN	ProxyUname	String	This string represents the username for proxy server
IN	ProxyPasswd	String	This string represents the password to login into proxy server
IN	ProxyPort	String	This string represents the proxy port for the proxy server
IN	IgnoreCertWarning	Uint16	Specifies if certificate warning is to be ignored when HTTPS is specified. If IgnoreCertWarning is on: certificate will be ignored. Default is 1 (Off). • 1 → Off • 2 → On
OUT	MessageID	String	Error Message ID may be used to look-up in the Dell Message registry files. For more information, see Error Message Registry.
OUT	Message	String	Error Message in English corresponding to MessageID is returned if the method fails to execute
OUT	MessageArguments[]	string	Substitution variables for dynamic error messages

Table 75. DCIM_LCService.TestNetworkShare() Method: Standard Messages

MessageID (OUT parameter)	Message	MessageArguments[]
LC016	Missing required parameter	<parameter>
LC017	Invalid value of parameter	"ShareType"
LC023	Cannot access network share	NA

8.22. DCIM_LCService.BackupImage()

The BackupImage() method is used to backup firmware and configurations for the Lifecycle Controller.

Table 76. DCIM_LCService.BackupImage() Method: Return Code Values

Value	Description
2	Error occurred
4096[1]	A DCIM_ConcreteJob is returned[1]

Note: 1 – If return code is 4096 (Job Created), the newly created job will not execute if the LC core services are not running (DCIM_LCEnumeration with AttributeName equal to “LifecycleControllerState” has the CurrentValue property equal to “Disabled”).

Table 77. DCIM_LCService.BackupImage() Method: Return Code Values

Qualifiers	Name	Type	Description/Values
IN	IPAddress	String	IP address of the NFS or CIFS share such as 192.168.10.12. The parameter shall be required, if the ShareType parameter has value 0 (NFS), 2 (CIFS), or not specified.
IN	ShareName	String	Share name for the network share such as “imageshare”. The parameter shall be required, if the ShareType parameter has value 0 (NFS), 2 (CIFS), or not specified. Sharename shall be considered as a path to a sub-folder in case of HTTP/HTTPS.
IN	ShareType	Unit16	Type of the share or storage. • 0 – NFS • 2 – CIFS • 4 – VFLASH • 5-HTTP • 6-HTTPS If ShareType is blank or null, it shall be considered as NFS type. The parameter shall be required, if the ShareType parameter has value 0 (NFS), 2 (CIFS), or not specified.
IN	Passphrase	String	The passphrase for the image. The parameter shall be required, if the ShareType parameter has value 0 (NFS), or 2 (CIFS) or not specified.
IN	ImageName	String	The name of the backup file. The parameter shall be required, if the ShareType parameter has value 0 (NFS), 2 (CIFS), or not specified.
IN	UserName	String	User name for the remote share

Qualifiers	Name	Type	Description/Values
IN	Password	String	Password for the remote share
IN	Workgroup	String	Workgroup for the share
IN	ScheduledStartTime	String	Start time for the job execution in format: yyyymmddhhmmss. The string "TIME_NOW" means immediate.
IN	UntilTime	String	End time for the job execution in format: yyyymmddhhmmss. : If this parameter is not NULL, then ScheduledStartTime parameter shall also be specified.
IN	JobName	String	A name for the job. Default is "Backup:Image”
IN	CheckBackupDestinationAvailability	Unit16	Check backup destination availability. Default is 0 • 0 – Check • 2 – Do Not Check
IN	ProxySupport	uint16	Specifies use of proxy Off • On -Use user default proxy settings • On –Use passed in parameters for proxy Default is O
IN	ProxyType	Uint16	Specifies the proxy type of the server • 0-HTTP • 1-SOCKS Default is HTTP
IN	ProxyServer	String	IP of the proxy server
IN	ProxyUname	String	User name for proxy server
IN	ProxyPasswd	String	Password for the proxy server
IN	ProxyPort	String	Port for the proxy server Default is set to 80
IN	IgnoreCertWarning	uint16	Specifies to ignore Certificate Warning when HTTPS specified • 1 – Off • 2 – On Default is ON(certificate will be ignored)
OUT	MessageID	String	Error Message ID may be used to look-up in the Dell Message registry files. For more information, see Error Message Registry.
OUT	Job	DCIM_ConcreteJobREF	The job that represents this operation[1]
OUT	Message	String	Error Message in English corresponding to MessageID is returned if the method fails to execute
OUT	MssageArguments[]	string	Substitution variables for dynamic error messages

Table 78. DCIM_LCService.BackupImage() Method: Standard Messages

MessageID (OUT parameter)	Message	MessageArguments[]
LC002	General failure	
LC017	Invalid value of parameter	"ShareType"
LC023	Cannot access network share	NA
LC051	Cannot create multiple Export jobs.	NA
SUP017	Invalid start time.	
SUP018	Invalid until time.	
JCP017	Maximum job limit reached, cannot create new jobs	
JCP019	Restore Job is running, cannot create new jobs until the existing Restore job is completed or is cancelled	
JCP018	Backup Job is running, cannot create new jobs until the existing Backup job is completed or is cancelled	

8.23. DCIM_LCService.RestoreImage()

This RestoreImage() method is used to restore firmware and configurations.

Table 79. DCIM_LCService.RestoreImage() Method: Return Code Values

Value	Description
2	Error occurred
4096[1]	A DCIM_ConcreteJob is returned[1]

Table 80. DCIM_LCService.RestoreImage() Method: Parameters

Qualifiers	Name	Type	Description/Values
IN	IPAddress	String	IP address of the NFS or CIFS share. The parameter shall be required, if the ShareType parameter has value 0 (NFS), 2 (CIFS), or not specified.
IN.	ShareName	String	Share name for the network share, The parameter shall be required, if the ShareType parameter has value 0 (NFS), 2 (CIFS), or not specified. Sharename shall be considered as a path to a sub-folder in case of HTTP/HTTPS.
IN	ShareType	Uint16	Type of the share or storage. • 0 – NFS • 2 – CIFS • 4 – VFLASH • 5-HTTP • 6-HTTPS If ShareType is blank or null, it shall be considered as NFS type
IN	Passphrase	String	The passphrase for the image. The parameter shall be required, if the ShareType parameter has value 0 (NFS), 2 (CIFS), or not specified.

Qualifiers	Name	Type	Description/Values
IN	ImageName	String	The name of the backup file. The parameter shall be required, if the ShareType parameter has value 0 (NFS), 2 (CIFS), or not specified.
IN	Username	String	User name for the remote share
IN	Password	String	Password for the remote share
IN	Workgroup	String	Workgroup for the share
IN, REQ	PreserveVDConfig	Uint16	Whether to preserve the VD (Virtual Disk) configuration.
IN	ScheduledStartTime	String	Start time for the job execution in format: yyyymmddhhmmss. The string "TIME_NOW" means immediate.
IN	UntilTime	String	End time for the job execution in format: yyyymmddhhmmss. If this parameter is not NULL, then ScheduledStartTime parameter shall also be specified.
IN	ProxySupport	uint16	Specifies use of proxy • Off • On -Use user default proxy settings • On –Use passed in parameters for proxy Default is Off
IN	ProxyType	Uint16	Specifies the proxy type of the server • 0-HTTP • 1-SOCKS Default is HTTP
IN	ProxyServer	String	IP of the proxy server
IN	ProxyUname	String	User name for proxy server
IN	ProxyPasswd	String	Password for the proxy server
IN	ProxyPort	String	Port for the proxy server Default is set to 80
IN	IgnoreCertWarning	uint16	Specifies to ignore Certificate Warning when HTTPS specified • 1Off • 2-On Default is ON(certificate will be ignored)
OUT	Job	DCIM_ConcreteJobREF	The job that represents this operation[1]
OUT	MessageID	String	Error Message ID may be used to look-up in the Dell Message registry files. For more information, see Error Message Registry.
OUT	Message	String	Error Message in English corresponding to MessageID is returned if the method fails to execute
OUT	MessageArguments[]	string	Substitution variables for dynamic error messages

Note: 1 – If return code is 4096 (Job Created), the newly created job will not execute if the LC core services are not running (DCIM_LCEnumeration with AttributeName equal to “LifecycleControllerState” has the CurrentValue property equal to “Disabled”).

Table 81. DCIM_LCService.RestoreImage() Method: Standard Messages

MessageID (OUT parameter)	Message	MessageArguments[]
LC002	General failure	LC002
LC017	Invalid value of parameter	“ShareType”, "PreserveVDConfig"
LC023	Cannot access network share	NA
LC052	Cannot create multiple Import jobs.	NA
SUP017	Invalid start time	
SUP018	Invalid until time	
JCP017	Maximum job limit reached, cannot create new jobs	
JCP018	Backup Job is running, cannot create new jobs until the existing Backup job is completed or is cancelled	
JCP019	Restore Job is running, cannot create new jobs until the existing Restore job is completed or is cancelled	

8.24. DCIM_LCService.GetRSStatus()

The GetRSStatus() method is used to obtain the Data Manager (Remote Services) status.

Note: The GetRemoteServicesAPIStatus() method execution reports more granular and detailed status of the Remote Services API.

Table 82. DCIM_LCService.GetRSStatus() Method: Return Code Values

Value	Description
0	Request was successfully executed.
2	Error occurred

Table 83. DCIM_LCService.GetRSStatus() Method: Parameters

Qualifiers	Name	Type	Description/Values
OUT	Status	string	The status for the Data Manager: • Ready • Not Ready • Reloading
OUT	MessageID	string	Error Message ID may be used to look-up in the Dell Message registry files. For more information, see Error Message Registry.
OUT	Message	string	Error Message in English corresponding to MessageID is returned if the method fails to execute
OUT	MessageArguments[]	string	Substitution variables for dynamic error messages

Table 84. DCIM_LCService.GetRSStatus() Method: Standard Messages

MessageID (OUT parameter)	Message	MessageArguments[]
RSI0001	The remote service is available	
RSI0002	The remote service is currently not available	
RSI0003	The remote service is reloading data	
RSI0004	The remote service is unavailable	

8.25. DCIM_LCService.GetRemoteServicesAPIStatus ()

The GetRemoteServicesAPIStatus() method is used to obtain the overall remote services API status that includes host system status, the remote services (Data Manager) status and Real Time Status. The overall rolled up status shall be reflected in the Status output parameter.

Note: The LCStatus output parameter value includes the status reported by the DMStatus output parameter in the GetRSStatus() method and the Lifecycle Controller status. Thus, GetRSStatus() method invocation is redundant.

Table 85. DCIM_LCService.GetRemoteServicesAPIStatus() Method: Return Code Values

Value	Description
0	Success
1	Not Supported
2	Failed

Table 86. DCIM_LCService.GetRemoteServicesAPIStatus() Method: Parameters

Qualifiers	Name	Type	Description/Values
OUT	ServerStatus	uint8	The host system status: • 0 – Powered Off • 1 – In POST • 2 – Out of POST • 3 – Collecting System Inventory • 4 – Automated Task Execution • 5 – Lifecycle Controller Unified Server Configurator • 6 – Server has halted at F1/F2 error prompt because of a POST error • 7 – Server has halted at F1/F2/F11 prompt because there are no bootable devices available • 8 – Server has entered F2 setup menu • 9 – Server has entered F11 Boot Manager menu
OUT	LCStatus	uint8	The Lifecycle Controller status that includes the Data Manager status: • 0 – Ready • 1 – Not Initialized • 2 – Reloading data • 3 – Disabled • 4 – In Recovery • 5 – In Use
OUT	Status	uint8	The overall status of the Remote Services API: • 0 – Ready • 1 – Not Ready
OUT	RTStatus	Uint8	The RealTime Status : • 0 – Ready • 1 – Not Ready (Also means that NA which RT is not supported on current config)
OUT	MessageID	string	Error Message ID may be used to look-up in the Dell Message registry files. For more information, see Error Message Registry.

Qualifiers	Name	Type	Description/Values
OUT	Message	string	Error Message in English corresponding to MessageID is returned if the method fails to execute
OUT	MessageArguments[]	string	Substitution variables for dynamic error messages

Table 87. DCIM_LCService.GetRemoteServicesAPIStatus() Method: Standard Messages

MessageID (OUT parameter)	Message	MessageArguments[]
LC060	Lifecycle Controller Remote Services is not ready.	NA
LC061	Lifecycle Controller Remote Services is ready.	NA

8.26. DCIM_LCService.ExportCertificate()

The ExportCertificate() method is used to export unique generated SSL Certificates from the Lifecycle Controller to a file in remote share.

Table 88. DCIM_LCService.ExportCertificate() Method: Return Code Values

Value	Description
2	Error occurred
4096	Job started: REF returned to started CIM_ConcreteJob

Table 89. DCIM_LCService.ExportCertificate() Method: Parameters

Qualifiers	Name	Type	Description/Values
IN, REQ	Type	uint16	The type of the certificate • 2 = Custom Signing Certificate
IN, REQ	IPAddress	string	IP address of the machine hosting the Network share.
IN	ShareName	string	Name of the CIFS share or full path to the NFS share. Optional for HTTP/HTTPS share, this may be treated as the path of the directory containing the file.
IN, REQ	ShareType	uint16	Type of network share. NFS=0, CIFS=2, HTTP=5, HTTPS=6
IN	Username	String	Username for Network share authentication
IN	Password	String	Password for Network share authentication
IN	Workgroup	String	Name of the workgroup for CIFS share authentication
IN	ProxySupport	Uint16	It specifies if proxy is to be used or not. Default is 1 (Off). • 1 → Off • 2 → On - use default proxy settings • 3 → On - use passed in parameters for proxy
IN	ProxyType	Uint16	It specifies the proxy type of the proxy server. Default is 0 (HTTP). • 0 → HTTP • 1 → SOCKS
IN	ProxyServer	String	This string represents the IP Adrress of the proxy server
IN	ProxyUname	String	This string represents the username for proxy server
IN	ProxyPasswd	String	This string represents the password to login into proxy server
IN	ProxyPort	String	This string represents the proxy port for the proxy server

Qualifiers	Name	Type	Description/Values
IN	IgnoreCertWarning	Uint16	Specifies if certificate warning is to be ignored when HTTPS is specified. If IgnoreCertWarning is on:certificate will be ignored. Default is 1 (Off). • 1 → Off • 2 → On
OUT	Job	CIM_ConcreteJobREF	Returned to keep track of config job status.
OUT	MessageID	String	Error Message ID may be used to look-up in the Dell Message registry files. For more information, see Error Message Registry.
OUT	Message	String	Error Message in English corresponding to MessageID is returned if the method fails to execute.
OUT	MessageArguments[]	string	Substitution variables for dynamic error messages.

Table 90. DCIM_LCService.ExportCertificate() Method: Standard Messages

MessageID (OUT parameter)	Message	MessageArguments[]
LC016	Missing required parameter <parameter name>	Parameter name, see Table 89
LC017	Invalid value of parameter <parameter name>	Parameter name, see Table 89
LC023	Cannot access network share	
LC025	Insufficient space on network share	
LC029	Filepath is invalid	
LC030	Filepath is a read-only file system	
LC040	Resource Allocation Failure	
LC064	The value exceeds the maximum length of %d characters for %s	
LC065	Static IP information is not configured correctly	
LC066	An instance of Export Certificate is already running	
LC067	Export SSL Certificate success	
LC069	Certificate does not Exist on the System.	
JCP017	Maximum job limit reached, cannot create new jobs	
JCP018	Backup Job is running, cannot create new jobs until the existing Backup job is completed or is cancelled	
JCP019	Restore Job is running, cannot create new jobs until the existing Restore job is completed or is cancelled	NA

8.27. DCIM_LCService.ImportSystemConfigurationPreview()

This method is used to preview the results of the application of the XML template ahead of the actual application with out any reboot. The successful invocation of this method shall return a job. The Dell Record Log Profile provides the DCIM_LCRecordLog.GetConfigResults() method to retrieve the configuration results from the lifecycle logs based on the returned job's JobID (see Dell Record Log Profile for more details). It also gives the information about the failure.

Table 91. DCIM_LCService.ImportSystemConfigurationPreview() Method: Return Code Values

Value	Description
2	Error occurred
4096	Job started: REF returned to started CIM_ConcreteJob

Table 92. DCIM_LCService.ImportSystemConfigurationPreview() Method: Parameters

Qualifiers	Name	Type	Description/Values
IN, REQ	IPAddress	string	The IP address of the target import server.
IN	ShareName	string	The directory path to the mount point. This parameter is mandatory only in case of NFS/CIFS. Sharename shall be considered as a path to a sub-folder in case of HTTP/HTTPS.
IN, REQ	FileName	string	The target output file name.
IN, REQ	ShareType	uint16	Type of share: NFS=0, CIFS=2, Local = 4, HTTP = 5, HTTPS=6
IN	ProxySupport	uint16	Specifies use of proxy • Off • On -Use user default proxy settings • On –Use passed in parameters for proxy Default is Off
IN	ProxyType	Uint16	Specifies the proxy type of the server • 0-HTTP • 1-SOCKS Default is HTTP
IN	ProxyServer	String	IP of the proxy server
IN	ProxyUname	String	User name for proxy server
IN	ProxyPasswd	String	Password for the proxy server
IN	ProxyPort	String	Port for the proxy server Default is set to 80
IN	IgnoreCertWarning	uint16	Specifies to ignore Certificate Warning when HTTPS specified • 1-Off • 2-On Default is ON(certificate will be ignored)
IN	Username	String	User name for the target import server.
IN	Password	String	Password for the target import server.
IN	Workgroup	String	WorkGroup name if it is needed.
IN	Target	String	To identify the component for ImportPreview. Default = “All” . Selective list of FQDD’s is not supported in this release. Target by default takes only All FQDDs.
OUT	Job	CIM_ConcreteJobREF	Returned to keep track of config job status.

Qualifiers	Name	Type	Description/Values
OUT	MessageID	String	Error Message ID may be used to look-up in the Dell Message registry files. For more information, see Error Message Registry.
OUT	Message	String	Error Message in English corresponding to MessageID is returned if the method fails to execute.
OUT	MessageArguments[]	string	Substitution variables for dynamic error messages.

Table 93. DCIM_LCService.ImportSystemConfigurationPreview() Method: Standard Messages

MessageID (OUT parameter)	Message	MessageArguments[]
LC016	Missing required parameter <parameter name>	Parameter name, see Table 92
LC017	Invalid value of parameter <parameter name>	Parameter name, see Table 92
LC023	Cannot access network share	
LC040	Resource Allocation Failure	
LC062	An instance of Export or Import System Configuration is already running.	
LC063	Cannot create new jobs until the existing running jobs are completed or deleted.	
LC064	Parameter exceeds maximum length <max parameter length> for <parameter name>	Parameter name, see Table 92
JCP017	Maximum job limit reached, cannot create new jobs	

8.28. DCIM_LCService. RunePSADiagnostics ()

The method is used to run the diagnostics based on the runmode switch and save the report in the Maser partition (MAS002). The diagnostics can be run in either express or extended mode or as a long run which encompasses all diagnostic tests.

Table 94. DCIM_LCService. RunePSADiagnostics () Method: Return Code Values

Value	Description
2	Error occurred
4096	Job started: REF returned to started CIM_ConcreteJob

Table 95. DCIM_LCService. RunePSADiagnostics () Method: Parameters

Qualifiers	Name	Type	Description/Values
IN	RunMode	Uint32	Type of diagnostic to run. • 0 – is the express tests() • 1 – is extended set of tests() • 2 – run (long)all tests Note: Default value is 0 (express tests)

Qualifiers	Name	Type	Description/Values
IN,REQ	RebootJobType	Uint32	Creates a specific reboot job to power cycle the host system. This parameter only creates the RebootJob and does not schedule it. Shall contain the requested reboot type: • 1 - PowerCycle • 2 - Graceful Reboot without forced shutdown • 3 - Graceful Reboot with forced shutdown. Note: This parameter only creates the RebootJob and does not schedule it.
IN	ScheduledStartTime	String	Schedules the configuration job and the optional reboot job at the specified start time. A special value of “TIME_NOW” schedules the job(s) immediately. Start time for the job execution in format: yyyymmddhhmmss. The string "TIME_NOW" means immediate.
IN	UntilTime	String	Defines a time window for scheduling the job(s). However, this parameter is dependent on “ScheduledStartTime” and “ScheduledStartTime” parameters. Once scheduled, jobs will be executed within the time window. End time for the job execution in format: yyyymmddhhmmss. If this parameter is not NULL, then ScheduledStartTime parameter shall also be specified.
OUT	Job	CIM_ConcreteJobREF	a reference to the ConcreteJob is returned
OUT	MessageID	String	Error MessageID is returned if the method fails to execute
OUT	Message	String	Error Message in English corresponding to the MessageID
OUT	MessageArguments[]	String[]	Any dynamic string substitutions for the Message

Table 96. DCIM_LCService. RunePSADiagnostics () Method: Standard Messages

MessageID (OUT parameter)	Message	MessageArguments[]
SYS083	Export of Diagnostics results failed as no MASER session could be acquired.	Parameter name, see Table 95
SYS084	Export of Diagnostics results failed as the partition containing the results could not be mounted.	
SYS085	Successfully exported diagnostics results.	
SYS095	Unable to unmount a MASER partition.	

8.29. DCIM_LCService. ExportePSADiagnosticsResult ()

This method will export the result file of the last completed diagnostics into the respective remote share path (cifs/nfs).The result file will have time stamps to show when the diagnostics was run.

Table 97. DCIM_LCService. ExportePSADiagnosticsResult() Method: Return Code Values

Value	Description
2	Error occurred
4096	Job started: REF returned to started CIM_ConcreteJob

Table 98. DCIM_LCService. ExportePSADiagnosticsResult() Method: Parameters

Qualifiers	Name	Type	Description/Values
IN, REQ	IPAddress	String	IP address of network share
IN, REQ	ShareName	String	Network sharepoint address
IN, REQ	FileName	String	Diagnostic Result File name
IN, REQ	ShareType	Uint8	Type of network share (NFS=0, CIFS=2, Local=4, HTTP = 5, HTTPS=6)
IN	ProxySupport	uint16	Specifies use of proxy • 1-Off • 2-On -Use user default proxy settings • 3- On –Use passed in parameters for proxy Default is Off
IN	ProxyType	Uint16	Specifies the proxy type of the server • 0-HTTP • 1-SOCKS Default is HTTP
IN	ProxyServer	String	IP of the proxy server
IN	ProxyUname	String	User name for proxy server
IN	ProxyPasswd	String	Password for the proxy server
IN	ProxyPort	String	Port for the proxy server Default is set to 80
IN	IgnoreCertWarning	uint16	Specifies to ignore Certificate Warning when HTTPS specified • 1-Off • 2-On Default is ON(certificate will be ignored)
IN	Username	String	The username to be used to access the network share for the export result
IN	Password	String	The password to be used to access the network share
OUT	Job	CIM_Concrete JobREF	A reference to the ConcreteJob is returned
OUT	MessageID	String	Error MessageID is returned if the method fails to execute
OUT	Message	String	Error Message in English corresponding to the MessageID
OUT	MessageArguments	String[]	Any dynamic string substitutions for the Message
OUT	MessageID	String	Error MessageID is returned if the method fails to execute

Table 99. DCIM_LCService. ExportePSADiagnosticsResult() Method: Standard Messages

MessageID (OUT parameter)	Message	MessageArguments[]
SYS083	Export of Diagnostics results failed as no MASER session could be acquired.	Parameter name, see Table 98
SYS084	Export of Diagnostics results failed as the partition containing the results could not be mounted.	

MessageID (OUT parameter)	Message	MessageArguments[]
SYS085	Successfully exported diagnostics results.	
SYS086	Unable to copy the diagnostics results file to the network share.	
SYS095	Unable to unmount a MASER partition.	

8.30. DCIM_LCService. ExportTechSupportReport ()

This method is used to collects the TSR i.e hardware, OS and App data, then compressed the zip file saves into the respective remote share path (cifs/nfs).

Note: Collecting and exporting of OS App data is not supporting in ES1.4 release.

Table 100. DCIM_LCService. ExportTechSupportReport() Method: Return Code Values

Value	Description
2	Error occurred
4096	Job started: REF returned to started CIM_ConcreteJob

Table 101. DCIM_LCService. ExportTechSupportReport () Method: Parameters

Qualifiers	Name	Type	Description/Values
IN	DataSelectorArrayIn	Uint16[]	DataSelectorArrayIn to select the data", • “0” - For HW Data • “1” – For OSApp Data Without PII • “2” – For OSApp Data • “3” – For TTY Logs Note: Default value is “HW Data”. And MUT data be part of every TSR report.
IN, REQ	IPAddress	String	IP address of network share
IN, REQ	ShareName	String	Network sharepoint address
IN, REQ	ShareType	Uint8	Type of network share (NFS=0 and CIFS=2)
IN	Username	String	The username to be used to access the network share for the export result
IN	Password	String	The password to be used to access the network share
OUT	Job	CIM_ConcreteJobREF	a reference to the ConcreteJob is returned
OUT	MessageID	String	Error MessageID is returned if the method fails to execute
OUT	Message	String	Error Message in English corresponding to the MessageID
OUT	MessageArguments	String[]	Any dynamic string substitutions for the Message
OUT	MessageID	String	Error MessageID is returned if the method fails to execute

Table 102. DCIM_LCService. ExportTechSupportReport () Method: Standard Messages

MessageID (OUT parameter)	Message	MessageArguments[]
SYS094	Another instance of embedded health report job is already running	Parameter name, see Table 101

8.31. DCIM_LCService. UpdateOSAppHealthData ()

This method is used to generate OS and App health data.

Table 103. DCIM_LCService. UpdateOSAppHealthData() Method: Return Code Values

Value	Description
2	Error occurred
4096	Job started: REF returned to started CIM_ConcreteJob

Table 104. DCIM_LCService. UpdateOSAppHealthData () Method: Parameters

Qualifiers	Name	Type	Description/Values
IN	UpdateType	uint16	Agent Lite OSApp plugIn: 0
OUT	Job	CIM_ConcreteJobREF	a reference to the ConcreteJob is returned
OUT	MessageID	String	Error MessageID is returned if the method fails to execute
OUT	Message	String	Error Message in English corresponding to the MessageID
OUT	MessageArguments	String[]	Any dynamic string substitutions for the Message
OUT	MessageID	String	Error MessageID is returned if the method fails to execute

Table 105. DCIM_LCService. UpdateOSAppHealthData () Method: Standard Messages

MessageID (OUT parameter)	Message	MessageArguments[]
SYS094	Another instance of embedded health report job is already running	Parameter name, see Table 104
SRV081	Unable to start the operation because the iDRAC Service Module (iSM) is not installed on the server operating system (OS).	
LC050	Cannot perform the operation due to an unknown error in iDRAC.	

8.32. DCIM_LCService. SystemErase()

This method is to create granular, user selectable, categories to increase flexibility and improve the repurposing aspect of the existing System Wipe feature.

This method will take the component name as input. Multiple options can also be provided. A job ID will be returned to the user upon successful creation of job.

Table 106. DCIM_ LCService : SystemErase() Method: Return code values

Value	Description
2	Failed
4096	Job created to complete the task

Table 107. DCIM_ LCService: SystemErase() Method: Parameters

Qualifiers	Parameter	Type	Description/value
IN,REQ	Component	String[]	Array to select the component to be erased. **System Components:** • BIOS • DIAG • AllApps • DrvPack • LCData • IDRAC **Storage Components:** • PERCNVCache • vFlash • SecureErasePD • OverwritePD
OUT	Job	CIM_ConcreteJobREF	a reference to the ConcreteJob is returned
OUT	MessageID	String	Error MessageID is returned if the method fails to execute
OUT	Message	String	Error Message in English corresponding to the MessageID
OUT	MessageArguments	String[]	Any dynamic string substitutions for the Message

Command:

winrm i SystemErase http://schemas.dmtf.org/wbem/wscim/1/cim-schema/2/root/dcim/DCIM_LCService?SystemCreationClassName=DCIM_ComputerSystem+CreationClassName=DCIM_LCService+SystemName=DCIM:ComputerSystem+Name=DCIM:LCService -u:root -p:password -r:https://192.168.0.18/wsman -SkipCNcheck -SkipCAcheck -encoding:utf-8 -a:basic -file: SystemErase.xml

SystemErase_input.xml:

<p:SystemErase_INPUT xmlns:p="http://schemas.dmtf.org/wbem/wscim/1/cim-schema/2/root/dcim/DCIM_LCService">
<p: Component > BIOS </p: Component >
<p: Component > DIAG</p: Component >
</p: SystemErase _INPUT>

Table 108. DCIM_LCService. SystemErase () Method: Standard Messages

MessageID (OUT parameter)	Message	MessageArguments[]
RAC042	Invalid number of input parameters	NA
LC017	Invalid value for parameter <parameter>	NA
LC016	Missing required parameter, <parameter>.	Include all the parameters required for the command. Check Lifecycle Controller Profile documentation and try again.
LC044	An instance of Lifecycle Controller system configuration wipe is already running	NA
LC063	Cannot create new jobs until the existing running jobs are completed or deleted.	NA

MessageID (OUT parameter)	Message	MessageArguments[]
LC040	Memory resource allocation failure.	Power cycle system and retry the operation. If the problem persists, reapply firmware packages for Lifecycle Controller and iDRAC.

8.33. DCIM_LCService. SetBackupSchedule()

The SetBackupSchedule() method is used to set the periodic backup for firmware and configurations for the Lifecycle Controller. This method will return an error if the AutomaticBackup attribute is Disabled.

This method will return an error if CSIOR or LC are disabled.

Table 109. DCIM_LCService. SetBackupSchedule() Method: Return Code Values

Value	Description
2	Error occurred
4096	Job started

Table 110. DCIM_LCService. SetBackupSchedule() Method: Parameters

Qualifiers	Name	Type	Description/Values
IN	IPAddress	String	IP address of NFS/CIFS share. This parameter is required if ShareType = 0 or 2
IN	ShareName	String	Share name of the NFS/CIFS network share
IN	Passphrase	String	Passphrase for the backup server profile
IN	ShareType	Uint16	Type of network share (NFS=0, CIFS=2, vFlash = 4,HTTP=5,HTTPS=6). Defaults to NFS=0
IN	Username	String	The username to be used to access the network share
IN	Password	String	The password to be used to access the network share
IN	ImageName	String	Name of the backup server profile image. This parameter is not required if ShareType is vFlash=4.
IN	ProxySupport	uint16	Specifies use of proxy • Off • On -Use user default proxy settings • On –Use passed in parameters for proxy Default is Off
IN	ProxyType	Uint16	Specifies the proxy type of the server • 0-HTTP • 1-SOCKS Default is HTTP
IN	ProxyServer	String	IP of the proxy server
IN	ProxyUname	String	User name for proxy server
IN	ProxyPasswd	String	Password for the proxy server
IN	ProxyPort	String	Port for the proxy server Default is set to 80

Qualifiers	Name	Type	Description/Values
IN	IgnoreCertWarning	uint16	Specifies to ignore Certificate Warning when HTTPS specified • 1-Off • 2-On
IN	Domain	String	Domain name for the network share
IN, REQ	Time	String	Hh:mm (hour and minute of day to run)
IN	DayOfMonth	String	*, 1-28, L Default *
IN	WeekOfMonth	String	*, 1-4, L Only one of the characters above. Default *
IN	DayOfWeek	String	*, Mon, Tue, Wed, Thu, Fri, Sat, Sun Comma delimited
IN	Repeat	UINT16	1-366
IN	MaxNumberOfBackupArchives	UINT16	1-50
OUT	MessageID	String	Error MessageID is returned if the method fails to execute
OUT	Message	String	Error Message in English corresponding to the MessageID
OUT	MessageArguments	String[]	Any dynamic string substitutions for the Message

Table 111. DCIM_LCService. SetBackupSchedule() Method: Standard Messages

MessageID (OUT parameter)	Message	MessageArguments[]
RED055	Set Automatic Backup Schedule failed	None
RED060	Automatic Backup Schedule already exists	None
RED058	Invalid value of parameter <param>	Invalid parameter

8.34. DCIM_LCService. GetBackupSchedule()

The GetBackupSchedule() method is used to retrieve the periodic backup settings for firmware and configurations for the Lifecycle Controller.

Table 112. DCIM_LCService.GetBackupSchedule() Method: Return Code Values

Value	Description
2	Error occurred
4096	Job started

Table 113. DCIM_LCService.GetBackupSchedule() Method: Parameters

Qualifiers	Name	Type	Description/Values
OUT	IPAddress	String	IP address of the NFS or CIFS share such as 192.168.10.12. The parameter shall be required, if the ShareType parameter has value 0 (NFS), 2 (CIFS), or not specified.
OUT	ShareName	String	Share name for the network share such as “imageshare”. The parameter shall be required, if the ShareType parameter has value 0 (NFS), 2 (CIFS), or not specified.

Qualifiers	Name	Type	Description/Values
OUT	ShareType	Unit16	Type of the share or storage. • 0 – NFS • 2 – CIFS • 4 – VFLASH If ShareType is blank or null, it shall be considered as NFS type. The parameter shall be required, if the ShareType parameter has value 0 (NFS), 2 (CIFS), or not specified.
OUT	ImageName	String	The name of the backup file. The parameter shall be required, if the ShareType parameter has value 0 (NFS), 2 (CIFS), or not specified.
OUT	Username	String	User name for the remote share
OUT	Domain	String	Domain for the share
OUT	Time	String	hh:mm Represents hour and minute of day to run.
OUT	DayofMonth	String	*,1-28,L
OUT	WeekofMonth	String	*,1-4, L Only one of the above characters
OUT	DayofWeek	String	*,Mon,Tue,Wed,Thu,Fri,Sat,Sun Comma delimited.
OUT	Repeat	Unint16	1-366
OUT	MaxNumberOfBackup Archives	Unint16	1-50
OUT	MessageID	String	Error Message ID may be used to look-up in the Dell Message registry files. For more information, see Error Message Registry.
OUT	Message	String	Error Message in English corresponding to MessageID is returned if the method fails to execute
OUT	MessageArguments[]	string	Substitution variables for dynamic error messages

Table 114. DCIM_LCService. GetBackupSchedule() Method: Standard Messages

MessageID (OUT parameter)	Message	MessageArguments[]
RED056	Get Automatic Backup Schedule failed	

8.35. DCIM_LCService. ClearBackupSchedule()

The ClearBackupSchedule() method is used to clear all the periodic backup settings for firmware and configurations for the Lifecycle Controller. This method also sets attribute AutomaticBackup to Disabled.

Table 115. DCIM_LCService. ClearBackupSchedule() Method: Return Code Values

Value	Description
2	Error occurred
4096	Job started

Table 116. DCIM_LCService. ClearBackupSchedule() Method: Parameters

Qualifiers	Name	Type	Description/Values
OUT	MessageID	String	Error Message ID may be used to look-up in the Dell Message registry files. For more information, see Error Message Registry.
OUT	Message	String	Error Message in English corresponding to MessageID is returned if the method fails to execute.
OUT	MessageArguments[]	string	Substitution variables for dynamic error messages

Table 117. DCIM_LCService. ClearBackupSchedule() Method: Standard Messages

MessageID (OUT parameter)	Message	MessageArguments[]
RED057	Clear Automatic Backup Schedule failed	

8.36. DCIM_LCService. MapMessageIdsToDetails()

This Method is used to map the Detailed Description and the Recommended Action by mapping the messageIDs.

Table 118. DCIM_LCService.MapMessageIdsToDetails() Method: Parameters

Qualifiers	Name	Type	Description/Values
IN, REQ	EEMIMsgID[]	string	MessageID array of multiple Log Entries
IN	Language	UInt16	0 (Default English)*
OUT	DetailedDescription[]	String	Indexed array of Detailed Description string for the EEMI Message
OUT	RecommendedAction[]	String	Indexed array of Recommended Action string for the EEMI Message
OUT	MessageID	String	Error Message ID- can be used to index into Dell Message registry files.
OUT	Message	String	Error Message in English corresponding to MessageID is returned if the method fails to execute.
OUT	MessageArguments[]	string	Substitution variables for dynamic error messages.

Table 119. DCIM_LCService.MapMessageIdsToDetails() Method: Return Code Values

Value	Description
0	Request was successfully executed.
2	Error occurred

Table 120. DCIM_LCService. MapMessageIdsToDetails() Method : Standard Messages

MessageID (OUT parameter)	Message	MessageArguments[]
LC017	Invalid value for Parameter	EEMIMsgID

8.37. DCIM_LCService. ExportErrorMsgRegistry()

This Method is used to export the EEMI Database XML file to the specified Network Share.

Table 121. DCIM_LCService.ExportErrorMsgRegistry() Method: Parameters

Qualifiers	Name	Type	Description/Values
IN, REQ	IPAddress	string	The IP address of the target export server.
IN, REQ	ShareName	string	The directory path to the mount point.

Qualifiers	Name	Type	Description/Values
IN, REQ	FileName	string	The target output file name.
IN, REQ	ShareType	uint16	Type of share: NFS=0, CIFS=2
IN	Username	String	User name for the target export server.
IN	Password	String	Password for the target export server.
IN	Workgroup	String	The applicable workgroup.
IN	Language	UInt16	0 (Default English)*
OUT	Job	CIM_ConcreteJobREF	Returned to keep track of config job status[1].
OUT	MessageID	String	Error Message ID- can be used to index into Dell Message registry files.
OUT	Message	String	Error Message in English corresponding to MessageID is returned if the method fails to execute.

Table 122. DCIM_LCService.ExportErrorMsgRegistry() Method: Return Code Values

Value	Description
2	Error occurred
4096	Job started: REF returned to started CIM_ConcreteJob

Table 123. DCIM_LCService.ExportErrorMsgRegistry() Method : Standard Messages

MessageID (OUT parameter)	Message	MessageArguments[]
LC016	Missing required parameter <parameter name>	Parameter name, see Table 121
LC017	Invalid value of parameter <parameter name>	Parameter name, see Table 121
LC078	The Export Message Registry operation was successfully completed.	
LC079	Unable to start the export operation because Lifecycle Controller is currently running an instance of Export Message Registry operation	
LC023	Cannot access network share	
LC030	Filepath is a read-only file system	
LC040	Resource Allocation Failure	
JCP017	Maximum job limit reached, cannot create new jobs	
JCP018	Backup Job is running, cannot create new jobs until the existing Backup job is completed or is cancelled	
JCP019	Restore Job is running, cannot create new jobs until the existing Restore job is completed or is cancelled	NA
LC017	Invalid Value for parameter	

8.38. DCIM_LCService.ExportServerScreenShot()

The ExportServerScreenShot() method is used to export refresh preview page of server or server screen shot file from the iDRAC to management application local store in encoded base64 format.

Table 124. DCIM_LCService.ExportServerScreenShot() Method: Parameters

Qualifiers	Name	Type	Description/Values
IN, REQ	FileType	Uint16	• Server screen shot • Last crash screen shot • Preview screen shot
OUT	ServerScreenShotFile	string	Exported server screen shot file in encoded in base64 format.
OUT	MessageArguments[]	string	Substitution variables for dynamic error messages.
OUT	MessageID	String	Error Message ID- can be used to index into Dell Message registry files.
OUT	Message	String	Error Message in English corresponding to MessageID is returned if the method fails to execute.

Table 125. DCIM_LCService.ExportServerScreenShot() Method: Return Code Values

Value	Description
0	Request was successfully executed.
2	Error occurred

Table 126. DCIM_LCService. ExportServerScreenShot() Method : Standard Messages

MessageID (OUT parameter)	Message	MessageArguments[]
LC016	Missing required parameter <parameter name>	Parameter name. See Table 124.
LC017	Invalid value of parameter <parameter name>	Parameter name. See Table 124.
LC080	The Export Server Screen Shot operation successfully exported the server screen shot file	
LC081	Unable to complete the Server Screen Shot export operation because of internal firmware issues.	
LC088	Unable to export server screen shot because there is no file in source folder.	

8.39. DCIM_LCService. ExportVideoLog()

The ExportVideoLog() method is used to export the bootcapture or crashcapture from the iDRAC to a local folder.

Table 127. DCIM_LCService. ExportVideoLog() Method: Return Code Values

Value	Description
2	Error occurred
0	Request was successfully executed.

Table 128. DCIM_LCService. ExportVideoLog() Method: Parameters

Qualifiers	Name	Type	Description/Values
REQ,IN	ShareType	uint16	4 - Local
REQ,IN	FileType	uint16	• 1 – BootCapture • 2 – CrashCapture
OUT	MessageID	String	Error Message ID may be used to look-up in the Dell Message registry files. For more information, see Error Message Registry.

Qualifiers	Name	Type	Description/Values
OUT	Message	String	Error Message in English corresponding to MessageID is returned if the method fails to execute
OUT	MessageArguments[]	String	Substitution variables for dynamic error messages

Table 129. DCIM_LCService. ClearBackupSchedule() Method: Standard Messages

MessageID (OUT parameter)	Message	MessageArguments[]
LC007	Invalid Parameter	
LC012	Lifecycle Controller is being used by another process	
LC016	Missing Required Parameter	
LC084	Unable to export the video log because there are no files in the source folder that can be compressed and exported.	
LC085	The Export Video Log operation is successfully completed and the files are exported to iDRAC Local folder.	
LC086	Unable to complete the Export Video Log operation because of internal issues.	

8.40. DCIM_LCService:SupportAssistCollection()

This method is used to trigger a SupportAssist collection and optionally send the collection to Dell or network share.

Table 130. DCIM_LCService. SupportAssistCollection () Method: Return Code Values

Value	Description
2	Error occurred
4096	Job started: REF returned to started CIM_ConcreteJob

Note: SupportAssistCollection() needs EULA to be accepted, before initiating any collection.

Table 131. DCIM_LCService.SupportAssistCollection() Method: Parameters

Qualifiers	Name	Type	Description/Values
IN	DataSelectorArrayIn	Uint16[]	DataSelectorArrayIn to select the data", • “0” - For HW Data • “1” – For OSApp Data • “2” – For TTY Logs • “3” – For Debug Logs Note: Default value is “HW Data”. And MUT data be part of every collection.
IN	IPAddress	string	The IP address of network share. This parameter is mandatory when ShareType is NFS / CIFS
IN	ShareName	string	Network share name. This parameter is mandatory when ShareType is NFS / CIFS
IN	ShareType	uint16	Type of share: NFS=0, CIFS=2, Local=4

Qualifiers	Name	Type	Description/Values
IN	Filter	uint16	Filter the collection for PII: No=0, Yes=1 This operation requires the pre-requisites to be complete(Refer to the note in section 8.42) Default behavior is no filter when this parameter is not specified
IN	Username	String	User name for the server containing registration info xml file. This parameter is mandatory if ShareType is CIFS
IN	Password	String	Password for the server containing registration info xml file. This parameter is mandatory if ShareType is CIFS
IN	Workgroup	String	Domain name for CIFS share
IN	Transmit	Uint16	Transmit the collection to Dell: No=0, Yes=1 Default behavior is no transmission to Dell when this parameter is not specified
OUT	Job	CIM_ConcreteJobREF	Returned to keep track of job status.
OUT	MessageID	String	Error Message ID may be used to look-up in the Dell Message registry files. For more information, see Error Message Registry.
OUT	Message	String	Error Message in English corresponding to MessageID is returned if the method fails to execute.
OUT	MessageArguments[]	string	Substitution variables for dynamic error messages.

Table 132. DCIM_LCService. SupportAssistCollection () Method: Standard Messages

MessageID (OUT parameter)	Message	MessageArguments[]
LC002	General Failure	
LC016	Missing required parameter <parameter name>	Parameter name, see Table 131
LC017	Invalid value of parameter <parameter name>	Parameter name, see Table 131
SRV046	Unable to start the operation because the server is turned off.	
SRV045	Unable to start the operation because the server is in POST and has not finished startup.	
SRV081	Unable to start the operation because the iDRAC Service Module (iSM) is not installed on the server operating system (OS).	
SRV121	Unable to complete the operation because the Operating System-Baseboard Management Controller Pass Through (OS-BMC PT) required for communication with iDRAC Service Module (iSM) is not enabled.	
SRV082	Unable to start the operation because the iDRAC Service Module (iSM) service is not running on the server operating system (OS).	

MessageID (OUT parameter)	Message	MessageArguments[]
SRV083	Unable to start the operation because the iDRAC Service Module (iSM) service running on the server operating system (OS) is not compatible with iDRAC firmware version installed on the server.	
SRV085	Unable to start the operation because the SupportAssist End User License Agreement (EULA) is not accepted.	
SRV003	A SupportAssist job is already running on the server.	
SRV125	Unable to start the SupportAssist operation because the Lifecycle Controller is in use.	
SRV118	Unable to start the SupportAssist operation because the Lifecycle Controller is not ready.	
SRV119	Unable to start the SupportAssist operation because the Lifecycle Controller is in recovery mode.	

8.41. DCIM_LCService: SupportAssistExportLastCollection ()

This method is implemented to export the last SupportAssist collection(stored in iDRAC) to the specified network share. If no parameters are passed in, the default share parameters will be used if present. The default Share parameters may be stored by setting the appropriate attributes in the iDRAC.

Table 133. DCIM_LCService. SupportAssistExportLastCollection () Method: Return Code Values

Value	Description
2	Error occurred
4096	Job started: REF returned to started CIM_ConcreteJob

Table 134. DCIM_LCService. SupportAssistExportLastCollection () Method: Parameters

Qualifiers	Name	Type	Description/Values
IN	IPAddress	string	The IP address of network share for the export. This parameter is mandatory when ShareType is passed
IN	ShareName	string	Network share name. This parameter is mandatory when ShareType is passed
IN	ShareType	uint16	Type of share: NFS=0, CIFS=2
IN	Password	String	This field mentions the password for the share mentioned. This field is mandatory in case of CIFS share.
IN	UserName	String	This field mentions the username for the share mentioned. This field is mandatory in case of CIFS share.
OUT	Job	CIM_ConcreteJobREF	Returned to keep track of job status.
OUT	MessageID	String	Error Message ID may be used to look-up in the Dell Message registry files. For more information, see Error Message Registry.
OUT	Message	String	Error Message in English corresponding to MessageID is returned if the method fails to execute.

Qualifiers	Name	Type	Description/Values
OUT	MessageArguments[]	string	Substitution variables for dynamic error messages.

Table 135. DCIM_LCService. SupportAssistExportLastCollection () Method: Standard Messages

MessageID (OUT parameter)	Message	MessageArguments[]
LC002	General Failure	
LC016	Missing required parameter <parameter name>	Parameter name. See Table 134.
LC017	Invalid value of parameter <parameter name>	Parameter name. See Table 134.
SRV046	Unable to start the operation because the server is turned off.	
SRV045	Unable to start the operation because the server is in POST and has not finished startup.	
SRV081	Unable to start the operation because the iDRAC Service Module (iSM) is not installed on the server operating system (OS).	
SRV121	Unable to complete the operation because the Operating System-Baseboard Management Controller Pass Through (OS-BMC PT) required for communication with iDRAC Service Module (iSM) is not enabled.	
SRV082	Unable to start the operation because the iDRAC Service Module (iSM) service is not running on the server operating system (OS).	
SRV083	Unable to start the operation because the iDRAC Service Module (iSM) service running on the server operating system (OS) is not compatible with iDRAC firmware version installed on the server.	
SRV085	Unable to start the operation because the SupportAssist End User License Agreement (EULA) is not accepted.	
SRV003	A SupportAssist job is already running on the server.	
SRV125	Unable to start the SupportAssist operation because the Lifecycle Controller is in use.	
SRV118	Unable to start the SupportAssist operation because the Lifecycle Controller is not ready.	
SRV119	Unable to start the SupportAssist operation because the Lifecycle Controller is in recovery mode.	

8.42. DCIM_LCService: SupportAssistUploadLastCollection ()

This method is implemented to export the last SupportAssist collection to Dell's SupportAssist backend server.

Table 136. DCIM_LCService. SupportAssistUploadLastCollection () Method: Return Code Values

Value	Description
2	Error occurred
4096	Job started: REF returned to started CIM_ConcreteJob

Table 137. DCIM_LCService. SupportAssistUploadLastCollection () Method: Parameters

Qualifiers	Name	Type	Description/Values
OUT	Job	CIM_ConcreteJobREF	Returned to keep track of job status.
OUT	MessageID	String	Error Message ID may be used to look-up in the Dell Message registry files. For more information, see Error Message Registry.
OUT	Message	String	Error Message in English corresponding to MessageID is returned if the method fails to execute.
OUT	MessageArguments[]	string	Substitution variables for dynamic error messages.

Table 138. – DCIM_LCService. SupportAssistUploadLastCollection () Method: Standard Messages

MessageID (OUT parameter)	Message	MessageArguments[]
LC002	General Failure	
SRV084	Unable to start the operation because iDRAC is not registered for the SupportAssist features.	
SRV086	Unable to start the operation because the SupportAssist feature is disabled on iDRAC.	
SRV046	Unable to start the operation because the server is turned off.	
SRV045	Unable to start the operation because the server is in POST and has not finished startup.	
SRV081	Unable to start the operation because the iDRAC Service Module (iSM) is not installed on the server operating system (OS).	
SRV121	Unable to complete the operation because the Operating System-Baseboard Management Controller Pass Through (OS-BMC PT) required for communication with iDRAC Service Module (iSM) is not enabled.	
SRV082	Unable to start the operation because the iDRAC Service Module (iSM) service is not running on the server operating system (OS).	
SRV083	Unable to start the operation because the iDRAC Service Module (iSM) service running on the server operating system (OS) is not compatible with iDRAC firmware version installed on the server.	
SRV085	Unable to start the operation because the SupportAssist End User License Agreement (EULA) is not accepted.	
SRV105	Unable to detect the host network connection because the network connection in the host operating system is not available.	
SRV003	A SupportAssist job is already running on the server.	
SRV125	Unable to start the SupportAssist operation because the Lifecycle Controller is in use.	
SRV119	Unable to start the SupportAssist operation because the Lifecycle Controller is in recovery mode.	

MessageID (OUT parameter)	Message	MessageArguments[]
SRV118	Unable to start the SupportAssist operation because the Lifecycle Controller is not ready.	
SRV113	Unable to start the export or upload operation because the SupportAssist Collection is not available on the iDRAC.	

Note: For export to Dell, there are a few prerequisites listed below:

- iSM should be installed and running on host.
- SupportAssist registration should be completed.
- SupportAssistEnableState should be Enabled under iDRACCardEnumeration.

8.43. DCIM_LCService: SupportAssistRegister ()

This method is implemented to register for SupportAssist

Table 139. DCIM_LCService. SupportAssistRegister () Method: Return Code Values

Value	Description
0	Operation executed successfully
2	Error occurred
4096	Job started: REF returned to started CIM_ConcreteJob

Table 140. DCIM_LCService. SupportAssistRegister () Method: Parameters

Qualifiers	Name	Type	Description/Values
IN, REQ	PrimaryFirstName	string	Contains primary first name
IN, REQ	PrimaryLastName	string	Contains primary last name
IN, REQ	PrimaryPhoneNumber	string	Contains primary phone number
IN, REQ	PrimaryEmail	string	Contains primary email address
IN, REQ	CompanyName	string	Contains company name
IN, REQ	Street1	String	Contains Street Address
IN, REQ	State	string	Contains State address
IN, REQ	City	string	Contains city name
IN, REQ	Zip	string	Contains Zip code
IN, REQ	Country	string	Contains Country address
IN	PrimaryAlternateNumber	string	Contains primary alternate number
IN	Street2	string	Contains Street2 address
IN	SecondaryFirstName	string	Contains secondary first name
IN	SecondaryLastName	string	Contains secondary last name
IN	SecondaryPhoneNumber	string	Contains secondary phone number
IN	SecondaryAlternateNumber	string	Contains secondary alternate phone number
IN	SecondaryEmail	string	Contains secondary email address
IN	ProxyHostName	string	Contains proxy hostname

Qualifiers	Name	Type	Description/Values
IN	ProxyUserName	string	Contains proxy username
IN	ProxyPort	Uint16	Contains proxy port
IN	ProxyPassword	string	Contains proxy password
OUT	Job	CIM_ConcreteJobREF	Returned to keep track of job status.
OUT	MessageID	String	Error Message ID may be used to look-up in the Dell Message registry files. For more information, see Error Message Registry.
OUT	Message	String	Error Message in English corresponding to MessageID is returned if the method fails to execute.
OUT	MessageArguments[]	string	Substitution variables for dynamic error messages.

Table 141. – DCIM_LCService. SupportAssistRegister () Method: Standard Messages

MessageID (OUT parameter)	Message	MessageArguments[]
LC002	General Failure	
LC016	Missing required parameter <parameter name>	Parameter name. See Table 140.
LC017	Invalid value of parameter <parameter name>	Parameter name. See Table 140.
SRV111	The iDRAC is already registered with SupportAssist.	
SRV046	Unable to start the operation because the server is turned off.	
SRV045	Unable to start the operation because the server is in POST and has not finished startup.	
SRV081	Unable to start the operation because the iDRAC Service Module (iSM) is not installed on the server operating system (OS).	
SRV121	Unable to complete the operation because the Operating System-Baseboard Management Controller Pass Through (OS-BMC PT) required for communication with iDRAC Service Module (iSM) is not enabled.	
SRV082	Unable to start the operation because the iDRAC Service Module (iSM) service is not running on the server operating system (OS).	
SRV083	Unable to start the operation because the iDRAC Service Module (iSM) service running on the server operating system (OS) is not compatible with iDRAC firmware version installed on the server.	
SRV085	Unable to start the operation because the SupportAssist End User License Agreement (EULA) is not accepted.	
SRV003	A SupportAssist job is already running on the server.	
SRV125	Unable to start the SupportAssist operation because the Lifecycle Controller is in use.	

MessageID (OUT parameter)	Message	MessageArguments[]
SRV119	Unable to start the SupportAssist operation because the Lifecycle Controller is in recovery mode.	
SRV118	Unable to start the SupportAssist operation because the Lifecycle Controller is not ready.	
SRV105	Unable to detect the host network connection because the network connection in the host operating system is not available.	

8.44. DCIM_LCService: SupportAssistAcceptEULA ()

This method is implemented to accept the EULA terms and conditions required for support assist registration

Table 142. DCIM_LCService. SupportAssistAcceptEULA () Method: Return Code Values

Value	Description
0	Successfully executed operation
2	Error occurred

Table 143. DCIM_LCService. SupportAssistAcceptEULA () Method: Parameters

Qualifiers	Name	Type	Description/Values
OUT	MessageID	String	Error Message ID may be used to look-up in the Dell Message registry files. For more information, see Error Message Registry.
OUT	Message	String	Error Message in English corresponding to MessageID is returned if the method fails to execute.
OUT	MessageArguments[]	string	Substitution variables for dynamic error messages.

Table 144. DCIM_LCService. SupportAssistAcceptEULA () Method: Standard Messages

MessageID (OUT parameter)	Message	MessageArguments[]
SRV095	The SupportAssist End User License Agreement (EULA) is already accepted by iDRAC user <username> via iDRAC interface <interface name>	
SRV074	The SupportAssist End User License Agreement (EULA) is accepted by iDRAC user <username> via iDRAC interface <interfacename>	

8.45. DCIM_LCService: SupportAssistGetEULAStatus ()

This method is implemented to accept the EULA terms and conditions required for support assist registration

Table 145. DCIM_LCService. SupportAssistGetEULAStatus () Method: Return Code Values

Value	Description
0	Successfully executed operation
2	Error occurred

Table 146. DCIM_LCService. SupportAssistGetEULAStatus () Method: Parameters

Qualifiers	Name	Type	Description/Values
OUT	IsRegistered	Uint8	Tells if SupportAssist is registered or not • 0 – registered • 1 – not registered
OUT	User	String	The iDRAC username who accepted the EULA
OUT	Interface	Uint8	• Interface used to accept EULA • 0 – iDRAC GUI • 1 – WSMan • 2 – racadm • 3 – LC UI • 4 - SCP
OUT	Time	String	Date Time when EULA was accepted in CIM standard format
OUT	MessageID	String	Message ID may be used to look-up in the Dell Message registry files. For more information, see Error Message Registry.
OUT	Message	String	Message in English corresponding to MessageID is returned
OUT	MessageArguments[]	String	Substitution variables for dynamic error messages.

Table 147. DCIM_LCService. SupportAssistGetEULAStatus () Method: Standard Messages

MessageID (OUT parameter)	Message	MessageArguments[]
SRV074	The SupportAssist End User License Agreement (EULA) is accepted by iDRAC user <usernme> via iDRAC interface <interface name>	
SRV104	The SupportAssist End User License Agreement (EULA) is not accepted.	

8.46. DCIM_LCService: ExposeiSMInstallerToHostOS ()

This method shall be implemented to initiate the iSM install in host OS by exposing the iSM installer to the host OS in a virtual usb device labelled INSTSM. The iSM DUP needs to be copied to /mmc2/mas028 path on iDrac

Table 148. DCIM_LCService. ExposeiSMInstallerToHostOS () Method: Return Code Values

Value	Description
2	Error occurred
4096	Job started: REF returned to started CIM_ConcreteJob

Table 149. DCIM_LCService. ExposeiSMInstallerToHostOS () Method: Parameters

Qualifiers	Name	Type	Description/Values
OUT	MessageID	String	Error Message ID may be used to look-up in the Dell Message registry files. For more information, see Error Message Registry.
OUT	Message	String	Error Message in English corresponding to MessageID is returned if the method fails to execute.
OUT	MessageArguments[]	String	Substitution variables for dynamic error messages.

Table 150. DCIM_LCService. ExposeiSMInstallerToHostOS () Method: Standard Messages

MessageID (OUT parameter)	Message	MessageArguments[]
SRV003	A SupportAssist job is already running on the server.	
SRV102	Unable to present the iDRAC Service Module (iSM) installer to the host operating system because the Lifecycle Controller iSM update package is not installed.	
SRV102	Not presenting the iDRAC Service Module (iSM) installer to Host because the iSM installer version on iDRAC is same as iSM service version running in Host OS.	

8.47. DCIM_LCService.SupportAssistSetAutoCollectSchedule()

This method shall be used to set the periodic collections for SupportAssist.

If user chooses recurrence as monthly or quarterly then user can specify either of following parameters which becomes mandatory for this recurrence.

- DayOfMonth OR
- WeekOfMonth followed by DayOfWeek

If user chooses recurrence as weekly then user needs to specify DayOfWeek parameter

Table 151. DCIM_LCService.SupportAssistSetAutoCollectSchedule() Method: Parameters

Qualifiers	Name	Type	Description/Values
IN, REQ	Time	String	Hh:mm AM/PM (hour and minute of day to run)
IN	DayOfMonth	String	1-28 : Day of Month L: Last day of the month – 28,29,30 or 31 depending on the month
IN	WeekOfMonth	String	*: Means any value and this is the default value. Only one of the characters above. Default * (The default will be first week of the month and if that is already past while applying then first week of next month will be the first time the job will be scheduled) 1 – 4 : Week Number L : Means the last week of the month A none '*' value is mutually exclusive with "DayOfMonth". If this value is none '*', then DayOfWeek is required
IN	DayOfWeek	String	Valid values : single day of week Mapping for day of week: Mon = 1, Tue = 2, Wed = 3, Thu = 4, Fri = 5, Sat = 6, Sun = 0 or 7(The default will be first Sunday of the current month and if that is already past while applying then first Sunday of next month will be the first time the job will be scheduled) *: Means any value and this is the default value
IN, REQ	Recurrence	Uint16	• 3 – weekly • 2 – monthly • 1 – quarterly
OUT	MessageID	String	Message ID- can be used to index into Dell Message registry files.

Qualifiers	Name	Type	Description/Values
OUT	Message	String	Message in English corresponding to MessageID is returned if the method fails to execute.
OUT	MessageArguments[]	String	Substitution variables for dynamic error messages.

Table 152. DCIM_LCService.SupportAssistSetAutoCollectSchedule() Method: Standard Messages

MessageID (OUT parameter)	Message	MessageArguments[]
LC001	Command successful.	
SRV084	Unable to start the operation because iDRAC is not registered for SupportAssist features.	
RED073	The input value entered for the parameter <param name> is invalid.	See Table 151 for parameter names.

8.48. DCIM_LCService.SupportAssistGetAutoCollectSchedule()

This method shall be used to retrieve the periodic collections for SupportAssist.

Table 153. DCIM_LCService.SupportAssistGetAutoCollectSchedule() Method: Parameters

Qualifiers	Name	Type	Description/Values
OUT	Time	String	Hh:mm AM/ PM (hour and minute of day to run)
OUT	DayOfMonth	String	1-28 : Day of Month L: Last day of the month – 28,29,30 or 31 depending on the month * : This means any value and this is the default value
OUT	WeekOfMonth	String	*: Means any value and this is the default value. Only one of the characters above. Default * (The default will be first week of the month and if that is already past while applying then first week of next month will be the first time the job will be scheduled) 1 – 4 : Week Number L : Means the last week of the month A non '*' value is mutually exclusive with "DayOfMonth". If this value is non '*' then DayOfWeek is required
OUT	DayOfWeek	String	Valid values: single day of week. Mapping for day of week: Mon = 1, Tue = 2, Wed = 3, Thu = 4, Fri = 5, Sat = 6, Sun = 0 or 7(The default will be first Sunday of the current month and if that is already past while applying then first Sunday of next month will be the first time the job will be scheduled) *: Means any value and this is the default value
OUT	Recurrence	Uint16	• 3 – weekly • 2 – monthly • 1 – quarterly
OUT	MessageID	String	Message ID- can be used to index into Dell Message registry files.

Qualifiers	Name	Type	Description/Values
OUT	Message	String	Message in English corresponding to MessageID is returned if the method fails to execute.
OUT	MessageArguments[]	String	Substitution variables for dynamic error messages.

Table 154. DCIM_LCService.SupportAssistGetAutoCollectSchedule() Method: Standard Messages

MessageID (OUT parameter)	Message	MessageArguments[]
LC001	Command successful.	
SRV112	There is no auto collection schedule set for SupportAssist.	

8.49. DCIM_LCService.SupportAssistClearAutoCollectSchedule()

This method shall be used to clear all the periodic collections settings for SupportAssist.

Table 155. DCIM_LCService.SupportAssistClearAutoCollectSchedule() Method: Parameters

Qualifiers	Name	Type	Description/Values
OUT	MessageID	String	Message ID- can be used to index into Dell Message registry files.
OUT	Message	String	Message in English corresponding to MessageID is returned if the method fails to execute.
OUT	MessageArguments[]	String	Substitution variables for dynamic error messages.

Table 156. DCIM_LCService.SupportAssistClearAutoCollectSchedule() Method: Standard Messages

MessageID (OUT parameter)	Message	MessageArguments[]
LC001	Command successful.	
SRV112	There is no auto collection schedule set for SupportAssist.	

9. Use Cases

See Lifecycle Controller (LC) Integration Best Practices Guide

10. CIM Elements

No additional requirements have been defined.

11. Privilege and License Requirement

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

Table 157. Privilege and License Requirements

Class and Method	Instance (GroupID.AttributeName)	Operation	User Privilege Required	License Required
DCIM_LCString	SYSID	ENUMERATE, GET	Login	NONE

Class and Method	Instance (GroupID.AttributeName)	Operation	User Privilege Required	License Required
DCIM_LCString	CMCIP	ENUMERATE, GET, SET	Login	NONE
DCIM_LCString	Provisioning Server	ENUMERATE, GET	Login	LM_AUTO_DISCOVERY
DCIM_LCString	VirtualAddressManagementApplication	ENUMERATE, GET	Login	LM_REMOTE_CONFIGURATION
DCIM_LCString	IPAddress	ENUMERATE, GET	Login	NONE
DCIM_LCString	Volume Label	ENUMERATE, GET	Login	NONE
DCIM_LCString	Default Proxy Server setting	ENUMERATE, GET	Login	NONE
DCIM_LCString	Default Proxy Port setting	ENUMERATE, GET	Login	NONE
DCIM_LCString	Default Proxy User name	ENUMERATE, GET	Login	NONE
DCIM_LCString	Default Proxy Port setting	ENUMERATE, GET	Login	NONE
DCIM_LCString	Default Proxy Port setting	ENUMERATE, GET	Login	NONE
DCIM_LCEnumeration	Collect System Inventory on Restart	ENUMERATE, GET	Login	LM_REMOTE_CONFIGURATION
DCIM_LCEnumeration	Part Configuration Update	ENUMERATE, GET	Login	LM_PART_REPLACEMENT
DCIM_LCEnumeration	Part Firmware Update	ENUMERATE, GET	Login	LM_PART_REPLACEMENT
DCIM_LCEnumeration	Lifecycle Controller State	ENUMERATE, GET	Login	LM_REMOTE_CONFIGURATION
DCIM_LCEnumeration	Licensed	ENUMERATE, GET	Login	NONE
DCIM_LCEnumeration	Auto Discovery	ENUMERATE, GET	Login	LM_AUTO_DISCOVERY
DCIM_LCEnumeration	Discovery Factory Defaults	ENUMERATE, GET	Login	LM_AUTO_DISCOVERY
DCIM_LCEnumeration	IPChangeNotifyPS	ENUMERATE, GET	Login	NONE
DCIM_LCEnumeration	VirtualAddressManagement	ENUMERATE, GET	Login	LM_REMOTE_CONFIGURATION

Class and Method	Instance (GroupID.AttributeName)	Operation	User Privilege Required	License Required
DCIM_LCEnumeration	BIOS Reset To Defaults Requested	ENUMERATE, GET	Login	NONE
DCIM_LCEnumeration	Automatic Update Feature	ENUMERATE, GET	Login	LM_AUTO_UPDATE
DCIM_LCEnumeration	Automatic Backup Feature	ENUMERATE, GET	Login	LM_BACKUP_RESTORE
DCIM_LCEnumeration	Launch SSM	ENUMERATE, GET	Login	NONE
DCIM_LCEnumeration	Boot To Maser	ENUMERATE, GET	Login	NONE
DCIM_LCEnumeration	CSIOR Launched	ENUMERATE, GET	Login	NONE
DCIM_LCEnumeration	Default Proxy type	ENUMERATE, GET	Login	NONE
DCIM_LCEnumeration	Default Ignore Certificate warning	ENUMERATE, GET	Login	LM_REMOTE_CONFIGURATION
DCIM_LCEnumeration	Collect System Inventory on Restart	ENUMERATE, GET	Login	LM_PART_REPLACEMENT
DCIM_LCEnumeration	Part Configuration Update	ENUMERATE, GET	Login	LM_PART_REPLACEMENT
DCIM_LCEnumeration	Part Firmware Update	ENUMERATE, GET	Login	LM_REMOTE_CONFIGURATION
DCIM_LCEnumeration	Lifecycle Controller State	ENUMERATE, GET	Login	NONE
DCIM_LCEnumeration	Licensed	ENUMERATE, GET	Login	LM_AUTO_DISCOVERY
DCIM_LCEnumeration	Auto Discovery	ENUMERATE, GET	Login	LM_AUTO_DISCOVERY
DCIM_LCEnumeration	Discovery Factory Defaults	ENUMERATE, GET	Login	NONE
DCIM_LCEnumeration	IPChangeNotifyPS	ENUMERATE, GET	Login	LM_REMOTE_CONFIGURATION
DCIM_LCEnumeration	VirtualAddressManagement	ENUMERATE, GET	Login	NONE
DCIM_LCEnumeration	BIOS Reset To Defaults Requested	ENUMERATE, GET	Login	LM_AUTO_UPDATE
DCIM_LCEnumeration	Automatic Update Feature	ENUMERATE, GET	Login	LM_BACKUP_RESTORE

Class and Method	Instance (GroupID.AttributeName)	Operation	User Privilege Required	License Required
DCIM_LCEnumeration	Automatic Backup Feature	ENUMERATE, GET	Login	NONE
DCIM_LCEnumeration	Automatic Restore Feature	ENUMERATE, GET	Login	NONE
DCIM_LCService.SetAttribute DCIM_LCService.SetAttributes	Collect System Inventory on Restart	INVOKE	Login, Configure	LM_REMOTE_CONFIGURATION
DCIM_LCService.SetAttribute DCIM_LCService.SetAttributes	Part Configuration Update	INVOKE	Login, Configure	LM_PART_REPLACEMENT
DCIM_LCService.SetAttribute DCIM_LCService.SetAttributes	Part Firmware Update	INVOKE	Login, Configure	LM_PART_REPLACEMENT
DCIM_LCService.SetAttribute DCIM_LCService.SetAttributes	Lifecycle Controller State	INVOKE	Login, Configure	LM_REMOTE_CONFIGURATION
DCIM_LCService.SetAttribute DCIM_LCService.SetAttributes	IPChangeNotifyPS	INVOKE	Login, Configure	NONE
DCIM_LCService.SetAttribute DCIM_LCService.SetAttributes	VirtualAddressManagement	INVOKE	Login, Configure	LM_REMOTE_CONFIGURATION
DCIM_LCService.SetAttribute DCIM_LCService.SetAttributes	VirtualAddressManagementApplication	INVOKE	Login, Configure	LM_REMOTE_CONFIGURATION
DCIM_LCService.SetAttribute DCIM_LCService.SetAttributes	Provisioning Server	INVOKE	Login, Configure	LM_AUTO_DISCOVERY
DCIM_LCService.SetAttribute DCIM_LCService.SetAttributes	BIOS Reset To Defaults Requested	INVOKE	Login, System control	NONE
DCIM_LCService.SetAttribute DCIM_LCService.SetAttributes	Automatic Update Feature	INVOKE	Login, System control	LM_AUTO_UPDATE
DCIM_LCService.SetAttribute DCIM_LCService.SetAttributes	Automatic Backup Feature	INVOKE	Login, System control	LM_BACKUP_RESTORE
DCIM_LCService.SetAttribute DCIM_LCService.SetAttributes	Automatic Restore Feature	INVOKE	Login, System control	NONE
DCIM_LCService.SetAttribute DCIM_LCService.SetAttributes	Diags Job Scheduled	INVOKE	Login, System control	NONE
DCIM_LCService.SetAttribute DCIM_LCService.SetAttributes	IPAddress	INVOKE	Login, Configure	NONE
DCIM_LCService.SetAttribute DCIM_LCService.SetAttributes	Launch SSM	INVOKE	Login, Configure	NONE
DCIM_LCService.SetAttribute DCIM_LCService.SetAttributes	Boot To Maser	INVOKE	Login, Configure	NONE

Class and Method	Instance (GroupID.AttributeName)	Operation	User Privilege Required	License Required
DCIM_LCService.SetAttribute DCIM_LCService.SetAttributes	Volume Label	INVOKE	Login, Configure	NONE
DCIM_LCService.SetAttribute DCIM_LCService.SetAttributes	CSIOR Launched	INVOKE	Login, Configure	NONE
DCIM_LCService.SetAttribute DCIM_LCService.SetAttributes	Default Proxy Server setting	INVOKE	Login, Configure	NONE
DCIM_LCService.SetAttribute DCIM_LCService.SetAttributes	Default Proxy Port setting	INVOKE	Login, Configure	NONE
DCIM_LCService.SetAttribute DCIM_LCService.SetAttributes	Default Proxy User name	INVOKE	Login, Configure	NONE
DCIM_LCService.SetAttribute DCIM_LCService.SetAttributes	Default Proxy Password	INVOKE	Login, Configure	NONE
DCIM_LCService.SetAttribute DCIM_LCService.SetAttributes	Default Proxy type	INVOKE	Login, Configure	NONE
DCIM_LCService.SetAttribute DCIM_LCService.SetAttributes	SSM Unoptimized	INVOKE	Login, Configure	NONE
DCIM_LCService.SetAttribute DCIM_LCService.SetAttributes	UEFI State Flag	INVOKE	Login, Configure	NONE
DCIM_LCService.SetAttribute DCIM_LCService.SetAttributes	Default Ignore Certificate warning	INVOKE	Login, Configure	LM_REMOTE_CONFIGURATION
DCIM_LCService		ENUMERATE, GET	Login	NONE
DCIM_LCService. SetAttribute()		INVOKE	Attribute dependent	LM_REMOTE_CONFIGURATION
DCIM_LCService. SetAttributes()		INVOKE	Attribute dependent	LM_REMOTE_CONFIGURATION
DCIM_LCService. CreateConfigJob()		INVOKE	Login, System Control	LM_REMOTE_CONFIGURATION
DCIM_LCService. ReInitiateDHS()		INVOKE	Login, System Control	LM_AUTO_DISCOVERY
DCIM_LCService. ReInitiateAutoDiscovery()		INVOKE	Login, System Control	LM_AUTO_DISCOVERY
DCIM_LCService. ClearProvisioningServer()		INVOKE	Login, System Control	LM_AUTO_DISCOVERY
DCIM_LCService. DownloadServerPublicKey()		INVOKE	Login, System Control	LM_REMOTE_CONFIGURATION
DCIM_LCService. DownloadClientCerts()		INVOKE	Login, System Control	LM_REMOTE_CONFIGURATION

Class and Method	Instance (GroupID.AttributeName)	Operation	User Privilege Required	License Required
DCIM_LCService. DeleteAutoDiscoveryClientCerts()		INVOKE	Login, System Control	LM_AUTO_DISCOVERY
DCIM_LCService. SetCertificateAndPrivateKey()		INVOKE	Login, System Control	LM_REMOTE_CONFIGURATION
DCIM_LCService. SetPublicCertificate()		INVOKE	Login, System Control	LM_REMOTE_CONFIGURATION
DCIM_LCService. DeleteAutoDiscoveryServerPublicKey()		INVOKE	Login, System Control	LM_AUTO_DISCOVERY
DCIM_LCService.LCWipe()		INVOKE	Login, System Control	NONE
DCIM_LCService.LCWipe().ExportFactoryConfiguration()		INVOKE	Login	LM_BASIC_REMOTE_INVENTORY_EXPORT
DCIM_LCService. ExportHWInventory()		INVOKE	Login	LM_BASIC_REMOTE_INVENTORY_EXPORT
DCIM_LCService. ExportLCLog()		INVOKE	Login	NONE
DCIM_LCService. ExportCompleteLCLog()		INVOKE	Login	NONE
DCIM_LCService.. InsertCommentInLCLog()		INVOKE	Login, System Operations	LM_REMOTE_CONFIGURATION
DCIM_LCService. GetRSStatus()		INVOKE	Login	NONE
DCIM_LCService. GetRemoteServicesAPIStatus ()		INVOKE	Login	NONE
DCIM_LCService.TestNetworkShare()		INVOKE	Login	LM_REMOTE_CONFIGURATION
DCIM_LCService.BackupImage()		INVOKE	Login, System Control	LM_BACKUP_RESTORE
DCIM_LCService.RestoreImage()		INVOKE	Login, System Control	LM _RESTORE
DCIM_LCService.ExportCertificate()		INVOKE	Login	LM_REMOTE_CONFIGURATION
DCIM_LCService.ExportSystemConfiguration()		INVOKE	Administrator	LM_REMOTE_CONFIGURATION
DCIM_LCService.ImportSystemConfiguration()		INVOKE	Administrator	LM_REMOTE_CONFIGURATION
DCIM_LCService.ImportSystemConfigurationPreview()		INVOKE	Administrator	LM_REMOTE_CONFIGURATION
DCIM_LCRegisteredProfile		ENUMERATE, GET	Login	None.

Class and Method	Instance (GroupID.AttributeName)	Operation	User Privilege Required	License Required
DCIM_LCElementConformsToProfile		ENUMERATE, GET	Login	None.
DCIM_LCService. RunePSADiagnostics ()		INVOKE	Login, System Control	LM_REMOTE_CONFIGURATION
DCIM_LCService. ExportePSADiagnosticsResult ()		INVOKE	Login, System Control	LM_REMOTE_CONFIGURATION
DCIM_LCService. ExportTechSupportReport ()		INVOKE	Login, System Control	None
DCIM_LCService. UpdateOSAppHealthData()		INVOKE	Login, System Control	None
DCIM_LCService.SystemErase()		INVOKE	Login,Sytem Control	None
DCIM_LCService.SetBackupSchedule()		INVOKE	Login, System Control	LM_BACKUP_RESTORE
DCIM_LCService.GetBackupSchedule()		INVOKE	Login	None
DCIM_LCService.ClearBackupSchedule		INVOKE	Login, Server Control	LM_BACKUP_RESTORE
DCIM_LCService.ExportErrorMsgRegistry		INVOKE	Login	None
DCIM_LCService.MapMessageIdsToDetails		INVOKE	Login	None
DCIM_LCService.ExportServerScreenShot		INVOKE	virtual console access control	If FileType: 1(Server Refresh Preview Screen Shot) = LM_VCONSOLE FileType 2 (Server Crash Screen shot) = LM_LAST_CRASH_SCREEN_CAPTURE
DCIM_LCService. ExportVideoLog()		INVOKE	Login, virtual console access control.	FileType: 1 – BootCapture -> LM_BOOT_CAPTURE. FileType 2 – CrashCapture -> LM_LAST_CRASH_VIDEO_CAPTURE.
DCIM_LCService.SupportAssistCollection		INVOKE	Login,Sytem Control	None
DCIM_LCService. SupportAssistUploadCollection		INVOKE	Login,Sytem Control	None

Class and Method	Instance (GroupID.AttributeName)	Operation	User Privilege Required	License Required
DCIM_LCService. SupportAssistExportLastCollection		INVOKE	Login,Sytem Control	None
DCIM_LCService. ExposeiSMInstallerToHostOS		INVOKE	Login,Sytem Control	None
DCIM_LCService. SupportAssistRegister		INVOKE	Login,Sytem Control	None
DCIM_LCService. SupportAssistAcceptEULA		INVOKE	Login,Sytem Control	None
DCIM_LCService. SupportAssistGetEULAStatus		INVOKE	Login,Sytem Control	None
DCIM_LCService. SupportAssistSetAutoCollectSchedule		INVOKE	Login,Sytem Control	None
DCIM_LCService. SupportAssistGetAutoCollectSchedule		INVOKE	Login,Sytem Control	None
DCIM_LCService. SupportAssistClearAutoCollectSchedule		INVOKE	Login,Sytem Control	None

12. Change log

Version	Date	Description
4.0.0	20-Jun-2017	Added New method to the DCIM.LCService. 1)ExportVideoLog
		Added HTTP support for ExportHWInventory,ImportSystemConfiguaration,SetBackUpSchedule
		Added new method SupportAssistCollection() under DCIM_LCService
		Added HTTP support for BackupImage() and RestoreImage()
		Added SupportAssistExportLastCollection() and SupportAssistUploadCollection() under DCIM_LCService class
		Added HTTP support for ImportSystemConfigurationPreview,ExportLCLog,ExportCompleteLCLog,ExportFactoryConfiguartion,ExportSystemConfiguaration
		Added JSON support for ExportSystemConfiguration
		Added HTTP support for ExportFactoryConfiguration and ExportSystemConfiguration.
		Updated SupportAssistRegister interface table
		System Erase invoke methods component list updated.
		Added HTTP Support Input Parameters to ExportCertificate.

Version	Date	Description
		Updated SupportAssistRegister interface table
		Updated SupportAssistExportLastCollection input parameters
		Removed “Manual update” option from UpdateOSAppHealthData
		Added HTTPS and proxy parameters in TestNetworkShare() API
		File Name parameter removed from export video log method
		Update default value for filter and Transmit params in SupportAssistCollection method Fix type error “Stree1” in SupportAssistRegister
		ExportServerScreenShot License details updated.
		Updated ShareType and other parameter details in SupportAssistCollection and SupportAssistExportLastCollection methods
		Updated certificate type = 1 in input parameter Type in ExportCertificate method
		Removed reference to manual update type from UpdateOSAppHealthData
		Exportcertificate Type 1 default siging certificate support removed
		Removed ‘*’ as default value in AutoCollectSchedule methods
		Removed default sharetype for SupportAssist[ExportLast]Collection
		Updated HTTP and HTTPS share details in ExportePSADiagnosticsResults method.
		Updated FileType params for ExportServerScreenShot method
		Added more description for AutoCollectSchedule method params
		Revamped DCIM_LCService.InsertCommentInLCLog() to take in additional input parameter LogSequenceNumber. Also updated the contents table.
		Reviewed Table numbers and updated missing EEMI messages for SupportAssist methods