System Info Profile

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139	i Scope
140 141 142 143	The DCIM System Info Profile describes the properties and interfaces for executing system management tasks related to the management of the host system. The profile standardizes and aggregates the description for the platform's basic properties into a system view representation and provides static methodology for the clients to query the system views without substantial traversal of the model.
144	
145	2 Normative References
146	Refer to the following documents for more information.
147 148	NOTE: For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.
149	DMTF DSP1033, Profile Registration Profile 1.0.0
150	 DMTF DSP0226, Web Services for Management (WS-Management) Specification 1.1.0
151	 DMTF DSP0227, WS-Management CIM Binding Specification 1.0.0
152	Dell Lifecycle Controller Best Practices Guide 1.0, http://op.community.dell.gov/toolson
153 154	 http://en.community.dell.com/techcenter/extras/m/white_papers/20066173.aspx Dell WSMAN Licenses and Privileges 1.0
155	Dell Tech Center MOF Library:
	,
156	http://www.delltechcenter.com/page/DCIM.Library.MOF
157	Related Managed Object Format (MOF) files:
158	 DCIM_SystemView.mof
159	 DCIM_SystemAttribute.mof
160	o DCIM_SystemEnumeration.mof
161	o DCIM_SystemInteger.mof
162	o DCIM_SystemString.mof
163	o DCIM_SystemManagementService.mof
164	o DCIM_LCElementConformsToProfile.mof
165 166	 DCIM_LCRegisteredProfile.mof
100	

3 Terms and Definitions

- For the purposes of this document, the following terms and definitions apply.
- 169 **3.1**

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- 170 conditional Indicates requirements to be followed strictly in order to conform to the document
- when the specified conditions are met.
- 172 **3.2**
- 173 mandatory Indicates requirements to be followed strictly in order to conform to the document and from
- which no deviation is permitted.
- 175 **3.3**
- 176 may Indicates a course of action permissible within the limits of the document.
- 177 **3.4**
- 178 **optional** Indicates a course of action permissible within the limits of the document.
- 179 **3.5**
- 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.
- 182 **3.6**
- 183 Shall Indicates requirements to be followed strictly in order to conform to the document and from which
- 184 no deviation is permitted.
- 185 **3.7**
- 186 **FQDD** Fully Qualified Device Descriptor is used to identify a particular component in a system.
- 187 **3.8**
- 188 Interop Namespace: root/interop
- 189 Interop Namespace: root/interop is where instrumentation instantiates classes to advertise its capabilities
- 190 for client discovery.
- 191 **3.9**
- 192 Implementation Namespace: root/dcim
- 193 Implementation Namespace: root/dcim is where instrumentation instantiates classes relevant to executing
- 194 core management tasks.
- 195 3.10
- 196 ENUMERATE Refers to WS-MAN ENUMERATE operation as described in Section 8.2 of
- 197 DSP0226_V1.1 and Section 9.1 of DSP0227_V1.0
- 198 **3.11**

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- 199 GET Refers to WS-MAN GET operation as defined in Section 7.3 of DSP00226_V1.1 and Section
- 200 7.1 of DSP0227_V1.0

4 Symbols and Abbreviated Terms 4.1 CIM - Common Information Model

205 **4.2**

206 iDRAC - Integrated Dell Remote Access Controller - management controller for blades and monolithic

207 servers

208 **4.3**

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

4.4

211 WBEM - Web-Based Enterprise Management

212 **4.5**

213 **PFC** - Power Factor Corrector – controls the power drawn from the power supply.

214

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215 **5** Synopsis

216 Profile Name: System Info

217 **Version:** 1.2.0

218 Organization: Dell

219 **CIM Schema Version:** 2.26 Experimental

220 **Dell Schema Version:** 1.0.0

221 Interop Namespace: root/interop: root/interop

222 Implementation Namespace: root/dcim: root/dcim

223 Central Class: DCIM_SystemView

224 **Scoping Class:** DCIM_ComputerSystem

The Dell System Info Profile is a component profile that contains the Dell specific implementation

226 requirements for system view.

227 DCIM SystemView shall be the Central Class.

Table 1 identifies profiles that are related to this profile.

Table 1 – Related Profiles

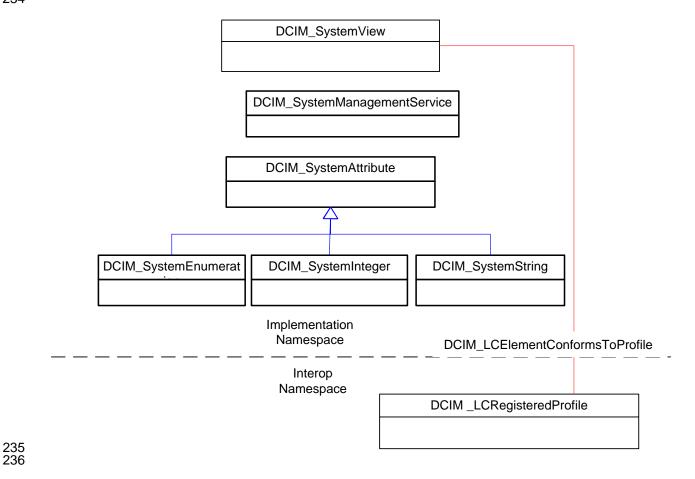
Profile Name	Organization	Version	Relationship
Profile Registration	DCIM	1.0	Reference

6 Description

- The Dell System Info Profile describes platform's basic properties. The host system's information is represented by an instance of DCIM_SystemView class.
- 233 Figure 1 details the class diagram of the Dell System Info Profile.

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237 Figure 1 – Class Diagram

Figure 2 details typical Dell System Info Profile implementation for a platform. In order for client to discover the instrumentation's support of this profile. SystemInfoProfile is instantiated in the Interop Namespace: root/interop. SystemInfoProfile instance describes the information about the implemented profile: most importantly, the name and version of the profile and the organization name that produced the profile.

Systemview1 is the system views representing the platform's basic properties in the Implementation Namespace: root/dcim. It is associated to the Interop namespace's SystemInfoProfile instance.

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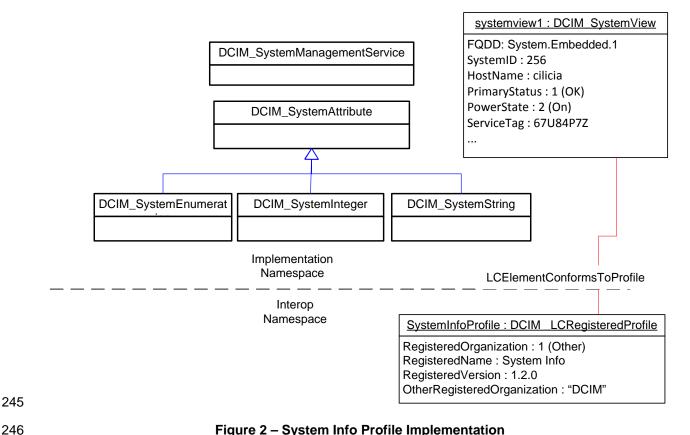


Figure 2 – System Info Profile Implementation

7 Implementation Description

248 This section describes the requirements and guidelines for implementing Dell System Info Profile.

Table 2 – Class Requirements: System Info Profile

Element Name	Requirement	Description					
Classes							
DCIM_SystemView	Mandatory	The class shall be implemented in the Implementation Namespace: root/dcim. See section 7.1.					
DCIM_SystemEnumeration	Mandatory	The class shall be implemented in the Implementation Namespace: root/dcim. See section 0.					
DCIM_SystemString	Mandatory	The class shall be implemented in the Implementation Namespace: root/dcim. See section 7.3.					
DCIM_SystemInteger	Mandatory	The class shall be implemented in the Implementation Namespace: root/dcim. See section 7.4.					
DCIM_SystemManagementService	Mandatory	The class shall be implemented in the Implementation Namespace: root/dcim. See section 7.6.					
DCIM_LCElementConformsToProfile	Mandatory	The class shall be implemented in both the Interop Namespace: root/interop and Implementation Namespace: root/dcims. See sections 7.1 and 7.7					
DCIM_LCRegisteredProfile	Mandatory	The class shall be implemented in the Interop Namespace: root/interop. See section 7.7					
Indications							
None defined in this profile							

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7.1 DCIM_SystemView – System View

- This section describes the implementation for the DCIM_SystemView class.
- 253 This class shall be instantiated in the Implementation Namespace: root/dcim.
- The DCIM_LCElementConformsToProfile association(s) shall reference the DCIM_SystemView
- 255 instance(s).

7.1.1 Resource URIs for WinRM®

- 257 The class Resource URI shall be "http://schemas.dell.com/wbem/wscim/1/cim-
- 258 schema/2/DCIM_SystemView?__cimnamespace=root/dcim"
- 259 The key property shall be the InstanceID.
- 260 The instance Resource URI for DCIM SystemView instance shall be:
- 261 "http://schemas.dell.com/wbem/wscim/1/cim-
- 262 schema/2/DCIM_SystemView?__cimnamespace=root/dcim+InstanceID=System.Embedded.1"

7.1.2 Operations

The following table lists the operations implemented on DCIM_SystemView.

Table 3 - DCIM_SystemView - Operations

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

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7.1.3 Properties

The following table details the implemented properties for DCIM_SystemView instance that represents the host system. The "Requirements" column shall denote whether the property is implemented (for requirement definitions, see section 3). The "Additional Requirements" column shall denote either possible values for the property, or requirements on the value formulation.

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Table 4 - DCIM_SystemView - Properties

Property Name	Requirements	Туре	Requirement and Description
InstanceID	Mandatory	string	The property shall be "System.Embedded.1"
FQDD	Mandatory	string	The property shall be "System.Embedded.1"
AssetTag	Mandatory	string	Asset tag of the system.
BaseBoardChassisSlot	Optional	string	The property represents the modular chassis slot numbers that the server blade occupies in the modular enclosure. This property shall be represented for modular server blades.
			The property shall contain the battery rollup status of all the system components and shall contain one of the following values: • 0(Unknown) • 1(OK) • 2(Degraded) • 3(Error). BatteryRollupStatus provides a high level status value, intended to align with Red-
BatteryRollupStatus	Mandatory	uint32	Yellow-Green type representation of status.
BIOSReleaseDate	Mandatory	string	String number of the BIOS release date. The date string, if supplied, is in mm/dd/yyyy format.
BIOSVersionString	Mandatory	string	System BIOS version.

Property Name Requirements Type Requirement and Description The property shall represent the geometri dimension of the server blade enclosure i modular enclosure described. The proper shall have one of the following values: • 0 - "Single width, single height"	า
• 0 - "Single width, single height"	ıy
• 1 - "Dual width, single height",	
• 2 - "Single width, dual height",	
• 3 - "Dual width, dual height",	
• 4 - "Not Applicable"	
BladeGeometry Optional uint16 This property shall be represented for mo server blades.	
BoardPartNumber Mandatory String part number. The property shall represent the motherboard part number.	
BoardSerialNumber Mandatory string The property shall represent the motherboard serial number.	
The property shall be "Main System Chas for monolithic and "Server Blade" for	sis"
ChassisName Mandatory string modular's server blades. This property represents the service tag for	or
the modular enclosure chassis.	
ChassisServiceTag Optional string This property shall be represented for mo	dular
The property shall be in U of rack space u	nits.
ChassisSystemHeight Mandatory Uint16 The property shall be applicable only for monolithic server.	
This property represents the IP address for	
the modular enclosure chassis managem controller (CMC).	ent
This property shall be represented for mo	dular
CMCIP Optional string server blades. The property shall represent the CPLD	
CPLDVersion Mandatory string version.	
The property shall contain the rollup statu all the CPUs and shall contain one of the	s of
following values:	
• O(Unknown)	
• 1(OK)	
2(Degraded)	
• 3(Error).	
CPURollupStatus provides a high level st	atus
CPURollupStatus Mandatory uint32 value, intended to align with Red-Yellow-Green type representation of status.	
ExpressServiceCode Mandatory string ExpressServiceCode of the system.	

Droporty Name	Doguiron anta	Type	Paguiroment and Description
Property Name	Requirements	Туре	Requirement and Description The property shall contain the fan rollup status
			of all the system components and shall
			contain one of the following values:
			O(Unknown)
			• 1(OK)
			` '
			• 2(Degraded)
			• 3(Error).
			FanRollupStatus provides a high level status
FanRollupStatus	Mandatory	uint32	value, intended to align with Red-Yellow- Green type representation of status.
HostName	Mandatory	string	System name string in ASCII.
HOStiName	Manuatory	Sung	The property shall contain the licensing rollup
			status of all the system components and shall
			contain one of the following values:
			O(Unknown)
			• 1(OK)
			· · ·
			• 2(Degraded)
			• 3(Error).
			LicensingRollupStatus provides a high level
Licensing Delly n Ctatus	Mandatani	uintaa	status value, intended to align with Red-
LicensingRollupStatus	Mandatory	uint32	Yellow-Green type representation of status. The property shall represent the overall
			product release version for the Lifecycle
			Controller (LC). The property format shall be
			M + "." + N + "." + U where: M - the major
			version (in numeric form); N - the minor
			version (in numeric form); and U - the update
			version (in numeric form).
			NOTE: The property does not represent a
l			particular firmware version that LC consists of
LifecycleControllerVersion	Mandatory	string	but rather the overall LC product version.
NA - marks at a man	NA	-4	System Manufacturer string. For example:
Manufacturer	Mandatory	string	Dell Inc.
MaxCPUSockets	Mandatory	uint32	Maximum CPU sockets in the system. The number of slots or sockets available for
MaxDIMMSlots	Mandatory	uint32	
	•		memory devices in the system memory array.
MaxPCleSlots	Mandatory	uint32	Maximum PCIe slots in the system. System memory operation mode. Denotes the
			mode of operation for system memory such
			as mirrored, advanced ECC, or optimized
MemoryOperationMode	Mandatory	string	mode.
	a.i.datory		Model of the system. For example:
Model	Mandatory	string	PowerEdge R610.
	,		System GUID uniquely identifies the system.
			The property is also known as
			BIOS GUID.
			This GUID matces in value with the
		_	representation of the GUID surfaced through
PlatformGUID	Mandatory	string	OS based GUI and SNMP.
PopulatedCPUSockets	Mandatory	uint32	Populated CPU sockets in the system.
PopulatedDIMMSlots	Mandatory	uint32	System memory sockets current capacity.
PopulatedPCIeSlots	Mandatory	uint32	Populated PCIe slots in the system.

Property Name	Requirements	Туре	Requirement and Description
			The current power cap (in Watts) of the
PowerCap	Mandatory	Uint32	associated managed system element.
PowerCapEnabledState	Mandatory	uint16	Whether the cap on the power consumption is enabled.
PowerState	Mandatory	uint16	The current power state of the system.
PrimaryStatus	Mandatory	uint32	The property shall contain current information on the system health state excluding storage sub-systems. PrimaryStatus provides a high level status value, intended to align with Red-Yellow-Green type representation of status.
PSRollupStatus	Mandatory	uint32	The property shall contain the power supply rollup status of all the system components and shall contain one of the following values: • 0(Unknown) • 1(OK) • 2(Degraded) • 3(Error). PSRollupStatus provides a high level status value, intended to align with Red-Yellow-Green type representation of status.
r divoliupotatus	Walidatory	UIIIUZ	The property shall contain the rollup status of all the system components and shall contain one of the following values: • 0(Unknown) • 1(OK) • 2(Degraded) • 3(Error). RollupStatus provides a high level status value, intended to align with Red-Yellow-
RollupStatus	Mandatory	uint32	Green type representation of status.
ServerAllocation	Optional	uint32	The property shall represent the power allocated by Chassis Manager to the blade server in Watt. This property shall be represented for modular server blades.
ServiceTag	Mandatory	string	Service tag of the system.
ambias CLIID	Mondotony	atrin a	System GUID uniquely identifies the system. The property is also know as BIOS GUID. The smbiosGUID value matces exactly the
smbiosGUID	Mandatory	string	SMBIOS representation of the GUID. The property shall contain the storage rollup status of all the system components and shall contain one of the following values: • 0(Unknown) • 1(OK) • 2(Degraded) • 3(Error). StorageRollupStatus provides a high level status value, intended to align with Red-
StorageRollupStatus	Mandatory	uint32	Yellow-Green type representation of status.

Property Name	Requirements	Туре	Requirement and Description
		71	The primary hardware error correction or
			detection method supported by the system's
SysMemErrorMethodology	Mandatory	uint16	memory array.
SysMemFailOverState	Mandatory	string	System memory fail over state.
Ž	j		The physical location of the memory array,
			whether on the system board or an add-in
SysMemLocation	Mandatory	uint16	board.
			SystemMemoryPrimaryStatus provides a high
			level status value, intended to align with Red-
			Yellow-Green type representation of status for
SysMemPrimaryStatus	Mandatory	uint32	the system memory.
			The property shall be in Mbytes. The
			maximum memory capacity in MB available to
SysMemTotalSize	Mandatory	uint32	the platform pre-OS and OS to utilize.
			System ID describes the model of the system
			in integer value. The SystemID property is
Country and ID	Manadatam	:	usually used to identify the compatibility of the
SystemID	Mandatory	uint32	updateable software/firmware.
			System Revision describes whether the
			platform was the first or second revision of the corresponding model. The revisions are
			usually correlated with an upgrade of the CPU
SystemRevision	Mandatory	uint16	model in the same platform model.
- Oysternitevision	iviaridatory	diritio	The property shall represent the generation of
SystemGeneration	Mandatory	string	the platform.
Cystemocration	Wandatory	Julia	The property shall contain the temperature
			rollup status of all the system components
			and shall contain one of the following values:
			O(Unknown)
			• 1(OK)
			` '
			• 2(Degraded)
			• 3(Error).
			TempRollupStatus provides a high level
T D III O			status value, intended to align with Red-
TempRollupStatus	Mandatory	uint32	Yellow-Green type representation of status.
			UUID uniquely identifies the system. The
			property is also known as BIOS GUID. The UUID value matces the WMI®
UUID	Mandatory	string	representation of the UUID/GUID.
OOID	iviariuatory	Sung	The property shall contain the voltage rollup
			status of all the system components and shall
			contain one of the following values:
			O(Unknown)
			• 1(OK)
			` '
			• 2(Degraded)
			• 3(Error).
			VoltRollupStatus provides a high level status
V 11D 11 - 0: :			value, intended to align with Red-Yellow-
VoltRollupStatus	Mandatory	uint32	Green type representation of status.
			This property provides the last time \"System
			\"Inventory Collection On Reboot(CSIOR)\"
LastSystomleysatoryTime	Mandatary	etring	was performed. The value is represented as
LastSystemInventoryTime	Mandatory	string	yyyymmddHHMMSS.

Property Name	Requirements	Туре	Requirement and Description
			This property provides the last time the data
			was updated. The value is represented as
LastUpdateTime	Mandatory	string	yyyymmddHHMMSS

7.2 DCIM_SystemEnumeration – System Enumeration Attributes

- This section describes the implementation for the DCIM_SystemEnumeration class.
- 277 Each DCIM_SystemEnumeration instance is logically associated to a DCIM_SystemView instance, where
- the DCIM_SystemEnumeration.FQDD property is equal to the FQDD property on the DCIM_SystemView
- 279 instance.

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This class shall be instantiated in the Implementation Namespace: root/dcim.

7.2.1 Resource URIs for WinRM®

- The class Resource URI shall be "http://schemas.dell.com/wbem/wscim/1/cim-
- 283 schema/2/DCIM_SystemEnumeration?__cimnamespace=root/dcim"
- The key property shall be the InstanceID.
- The instance Resource URI for DCIM SystemEnumeration instance shall be:
- 286 "http://schemas.dell.com/wbem/wscim/1/cim-
- 287 schema/2/DCIM_SystemEnumeration?__cimnamespace=root/dcim+InstanceID=<InstanceID>"

288 **7.2.2 Operations**

289 The following table lists the operations implemented on DCIM_SystemEnumeration.

Table 5 – DCIM_SystemEnumeration – Operations

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

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7.2.3 Class Properties

- 293 The following table lists the implemented properties for DCIM_SystemEnumeration instance representing
- a system attribute. The "Requirements" column shall denote whether the property is implemented (for
- 295 requirement definitions, see section 3). The "Additional Requirements" column shall denote either
- 296 possible values for the property, or requirements on the value formulation..

Table 6 – Class: DCIM_SystemEnumeration

Properties	Requirements	Туре	Additional Requirements
InstanceID	Mandatory	String	The property value shall be formed as follows: "System.Embedded.1# <groupid>#<attributename>".</attributename></groupid>
AttributeName	Mandatory	String	The property value shall be from the "AttributeName" column in Error! Reference source not found. , and Table 11.
AttributeDisplayName	Mandatory	String	The property value shall be from the "AttributeDisplayName" column in Table 11
GroupID	Mandatory	String	See section 7.5.1 and 0.
GroupDisplayName	Mandatory	String	See section 7.5.1 and 0.
CurrentValue[]	Mandatory	String	The property value shall be one of the values in the "PossibleValues" column at the corresponding row in Error! Reference source not found., and Table 11.
DefaultValue[]	Mandatory	String	The property value shall be one of the values in the "PossibleValues" column at the corresponding row in Error! Reference source not found., and Table 11.
PendingValue[]	Mandatory	String	The property value shall be one of the values in the "PossibleValues" column at the corresponding row in Error! Reference source not found., and Table 11.
IsReadOnly	Mandatory	Boolean	The property value shall be from the "IsReadOnly" column in Error! Reference source not found., and Table 11.
FQDD	Mandatory	String	The property shall be set to "System.Embedded.1".
DisplayOrder	Optional	uint16	The property shall represent the sequence number denoting the preferred placement of the attribute in the list of all system attributes.
Dependency	Optional	String	
PossibleValues[]	Mandatory	String	The property value shall be equalt to the array of the values in "PossibleValues" column at the corresponding row in Error! Reference source not found., and Table 11.

7.3 DCIM_SystemString – System String Attributes

- This section describes the implementation for the DCIM_SystemString class that represents a string type System attribute.
- This class shall be instantiated in the Implementation Namespace: root/dcim.

302 7.3.1 Resource URIs for WinRM®

- 303 The class Resource URI shall be "http://schemas.dell.com/wbem/wscim/1/cim-
- 304 schema/2/DCIM_SystemString?__cimnamespace=root/dcim"
- 305 The key property shall be the InstanceID.
- 306 The instance Resource URI for DCIM_SystemString instance shall be:
- 307 http://schemas.dell.com/wbem/wscim/1/cim-
- 308 schema/2/DCIM_SystemString?__cimnamespace=root/dcim+InstanceID=<InstanceID>

7.3.2 Operations

The following table lists the operations implemented on DCIM_SystemString.

Table 7 - DCIM_SystemString - Operations

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

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7.3.3 Class Properties

314 The following table lists the implemented properties for DCIM_SystemString instance representing a system string attribute. The "Requirements" column shall denote whether the property is implemented (for 315 requirement definitions, see section 3). The "Additional Requirements" column shall denote either 316 possible values for the property, or requirements on the value formulation

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Table 8 - Class: DCIM_SystemString

Properties	Requirements	Туре	Additional Requirements
InstanceID	Mandatory	String	The property value shall be formed as follows: System.Embedded.1# <groupid>#<attributename>".</attributename></groupid>
AttributeName	Mandatory	String	The property value shall be from the "AttributeName" column in Error! Reference source not found. , Table 12, and Table 14.
AttributeDisplayName	Mandatory	String	The property value shall be from the "AttributeDisplayName" column in Error! Reference source not found., Table 12, and Table 14.
GroupID	Mandatory	String	See section 7.5.1 and 0.
GroupDisplayName	Mandatory	String	See section 7.5.1 and 0.
CurrentValue[]	Mandatory	String	The property value shall represent the current value of the attribute.
DefaultValue[]	Mandatory	String	The property value shall represent the default value of the attribute.
PendingValue[]	Mandatory	String	The property value shall represent the pending value of the attribute. If the property value is NULL, then the attribute has no pending value.
IsReadOnly	Mandatory	Boolean	The property value shall be the value in the "IsReadOnly" column at the corresponding row in Error! Reference source not found. , Table 12, and Table 14.
FQDD	Mandatory	String	The property shall be set to "System.Embedded.1".
DisplayOrder	Optional	uint16	The property shall represent the sequence number denoting the preferred placement of the attribute in the list of all system attributes.
Dependency	Optional	String	
MinLength	Mandatory	uint64	The property value shall be the value in the "MinLength" column at the corresponding row in Error! Reference source not found., Table 12, and Table 14.
MaxLength	Mandatory	uint64	The property value shall be the value in the "MaxLength" column at the corresponding row in Error! Reference source not found., Table 12, and Table 14.

7.4 DCIM_SystemInteger – System Integer Attributes

- 320 This section describes the implementation for the DCIM_SystemInteger class.
- 321 Each DCIM_SystemInteger instance is logically associated to a DCIM_SystemView instance, where the
- 322 DCIM_SystemInteger.FQDD property is equal to the FQDD property on the DCIM_SystemView instance.
- 323 This class shall be instantiated in the Implementation Namespace: root/dcim.

7.4.1 Resource URIs for WinRM®

- The class Resource URI shall be "http://schemas.dell.com/wbem/wscim/1/cim-
- 326 schema/2/DCIM_SystemInteger?__cimnamespace=root/dcim"
- 327 The key property shall be the InstanceID.
- 328 The instance Resource URI for DCIM_SystemInteger instance shall be:
- 329 "http://schemas.dell.com/wbem/wscim/1/cim-
- 330 schema/2/DCIM_SystemInteger?__cimnamespace=root/dcim+InstanceID=<InstanceID>"

7.4.2 Operations

The following table lists the operations implemented on DCIM_SystemInteger.

333 Table 9 – DCIM_SystemInteger - Operations

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

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7.4.3 Class Properties

The following table lists the implemented properties for DCIM_SystemInteger instance representing a system attribute. 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

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Table 10 - Class: DCIM_SystemInteger

Properties	Requirement	Туре	Additional Requirements
InstanceID	Mandatory	String	The property value shall be formed as follows: "System.Embedded.1# <groupid>#<attributename>".</attributename></groupid>
AttributeName	Mandatory	String	The property value shall be from the "AttributeName" column in Error! Reference source not found. , Table 13, and Table 15.
AttributeDisplayName	Mandatory	String	The property value shall be from the "AttributeDisplayName" column in Error! Reference source not found., Table 13, and Table 15.
GroupID	Mandatory	String	See section 7.5.1 and 0.
GroupDisplayName	Mandatory	String	See section 7.5.1 and 0.
CurrentValue[]	Mandatory	String	The property value shall represent the current value of the attribute.
DefaultValue[]	Mandatory	String	The property value shall represent the default value of the attribute.
PendingValue[]	Mandatory	String	The property value shall represent the pending value of the attribute. If the property value is NULL, then the attribute has no pending value.
IsReadOnly	Mandatory	Boolean	The property value shall be from the "IsReadOnly" column in Error! Reference source not found. , Table 13, and Table 15.
FQDD	Mandatory	String	The property shall be set to "System.Embedded.1".
DisplayOrder	Optional	uint16	The property shall represent the sequence number denoting the preferred placement of the attribute in the list of all system attributes.
Dependency	Optional	String	
LowerBound	Mandatory	sint64	The property value shall be from the "LowerBound" column in Error! Reference source not found. , Table 13, and Table 15
UpperBound	Mandatory	uint64	The property value shall be from the "UpperBound" column in Error! Reference source not found. , Table 13, and Table 15

7.5 System Attributes

342 This section lists and describes the attributes and their logical grouping.

7.5.1 Server Power Attributes

- This section describes the attributes for managing system's power. The attributes are used to set power cap and thresholds, manage power allocation, and redundancy settings.
- The GroupID property for the DCIM_SystemEnumeration, DCIM_SystemString, and
- 347 DCIM SystemInteger shall be "ServerPwr.1".
- 348 The GroupDisplayName property for the DCIM_SystemEnumeration, DCIM_SystemString, and
- 349 DCIM_SystemInteger shall be "Server Power".
- The following table lists the values for the DCIM_SystemEnumeration of this group. Each of the column
- 351 headings correspond to a property name on the DCIM_SystemEnumeration class. The Description
- 352 column contains the description for each of the attribute. Each row contain the values for the properties

listed in the column headings. The PossibleValues property is an array property represented in the table as comma delimited list.

Table 11 – DCIM_SystemEnumeration Server Power Attributes

AttributeName	AttributeDisplayName	IsReadOnly	PossibleValues	Description
PowerCapSetting	Power Cap Setting	FALSE	"Disabled", "Enabled"	Enable or disable the cap on the system power consumption.
				Enables monitoring of the power supply redundancy.
PSRedPolicy	Power Supply Redundancy Policy	FALSE	"N/A", "Not Redundant", "AC/Input Redundant", "PSU Redundant"	NOTE: Power Supply Profile describes the power supply redundancy status based on this attribute value.
PSPFCEnabled	Power Supply PFC Enable	FALSE	"Disabled", "Enabled"	
PSRapidOn	PSRapidOn	FALSE	"Disabled", "Enabled"	
RapidOnPrimaryPSU	Rapid on Primary PSU	FALSE	"PSU1", "PSU2"," PSU1 and PSU3"," PSU2 and PSU4"	

The following table lists the values for the DCIM_SystemString of this group. Each column heading corresponds to a property name on the DCIM_SystemString class. The Value Expression column contains constraints on string value formulation. Each row contains the values for the properties listed in the column headings.

Table 12 – DCIM_SystemString Server Power Attributes

AttributeName	Attribute Description	IsReadOnly	MinLength	MaxLength	Value Expression
	Active Power Cap				
ActivePolicyName	Policy Name	TRUE	0	128	

The following table lists the values for the DCIM_SystemInteger of this group. Each column heading correspond to a property name on the DCIM_SystemInteger class. Each row contains the values for the properties listed in the column headings.

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Table 13 – DCIM SystemInteger Server Power Attributes

AttributeName	AttributeDisplayName	IsReadOnly	LowerBound	UpperBound
PowerCapValue ¹	Power Cap Value	FALSE		
PowerCapMaxThres ¹	Power Cap Max Threshold	TRUE		
PowerCapMinThres ¹	Power Cap Min Threshold	TRUE		
pciePowerAllocation ¹	PCIe Power Power Allocation	TRUE	0	500
ActivePowerCapVal ¹	Active Power Cap Value	TRUE	0	65535

367 NOTE: 1 – The attributes PendingValue, CurrentValue and DefaultValue are in Watt units.

7.5.2 Server Topology Attributes

- This section describes the attributes for managing system's topology. The attributes are used to manage location and physical configuration settings.
- The GroupID property for the DCIM_SystemEnumeration, DCIM_SystemString, and
- 372 DCIM_SystemInteger shall be "ServerTopology.1".
- The GroupDisplayName property for the DCIM_SystemEnumeration, DCIM_SystemString, and DCIM_SystemInteger shall be "Server Topology".
- The following table lists the values for the DCIM_SystemString of this group. Each column heading corresponds to a property name on the DCIM_SystemString class. The Value Expression column
- contains constraints on string value formulation. Each row contains the values for the properties listed in
- 378 the column headings.

Table 14 – DCIM_SystemString Server Topology Attributes

AttributeName	Attribute Description	IsReadOnly	MinLength	MaxLength	Value Expression
DataCenterName	Data Center Name	FALSE	0	128	
AisleName	Aisle Name	FALSE	0	128	
RackName	Rack Name	FALSE	0	128	
ChassisName	Chassis Name (Modular Only)	TRUE	0	64	
BladeSlotNumInChassis	Blade Slot Num In Chassis (Modular Only)	TRUE			

The following table lists the values for the DCIM_SystemInteger of this group. Each column heading corresponds to a property name on the DCIM_SystemInteger class. Each row contains the values for the properties listed in the column headings.

Table 15 – DCIM_SystemInteger Server Topology Attributes

AttributeName	AttributeDisplayName	IsReadOnly	LowerBound	UpperBound
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AttributeName	AttributeDisplayName	IsReadOnly	LowerBound	UpperBound
RackSlot	Rack Slot	FALSE	1	255
SizeOfManagedSystemInU	Size of Managed System in U	TRUE		

7.5.3 LCD Attributes

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- This section describes the attributes for managing system's power. The attributes are used to set the system LCD settings.
- 387 The GroupID property for the DCIM SystemEnumeration and DCIM SystemString shall be "LCD.1".
- The GroupDisplayName property for the DCIM_SystemEnumeration and DCIM_SystemString shall be "LCD".
- The following table lists the values for the DCIM_SystemEnumeration of this group. Each column heading corresponds to a property name on the DCIM_SystemEnumeration class. The Description column contains the description for each of the attribute. Each row contains the values for the properties listed in the column headings. The PossibleValues property is an array property represented in the table as comma delimited list.

Table 16 – DCIM_SystemEnumeration LCD Attributes

AttributeName	AttributeDisplayName	IsReadOnly	PossibleValues
			""User Defined",
			"Model Name",
			"None",
			"iDRAC IPv4 Address",
			"iDRAC MAC Address",
			"OS System Name",
			"Service Tag",
			"IPv6 Address",
			"Ambient Temperature",
			"System Watts",
			"Asset Tag",
Configuration	LCD Configuration	FALSE	"OEM PM LCD Override"

The following table lists the values for the DCIM_SystemString of this group. Each column heading corresponds to a property name on the DCIM_SystemString class. The Value Expression column contains constraints on string value formulation. Each row contains the values for the properties listed in the column headings.

7.6 DCIM_SystemManagementService – System Management Service

- 401 This section describes the implementation for the DCIM_SystemManagementService class.
- This class shall be instantiated in the Implementation Namespace: root/dcim.

7.6.1 Resource URIs

- The class Resource URI shall be "http://schemas.dell.com/wbem/wscim/1/cim-schema/2/DCIM_SystemManagementService?__cimnamespace=root/dcim"
- The key property shall be the SystemCreationClassName, SystemName, CreationClassName, and Name.

- 408 The instance Resource URI for DCIM_ SystemManagementService instance shall be:
- 409 "http://schemas.dell.com/wbem/wscim/1/cim-
- 410 schema/2/DCIM_SystemManagementService?__cimnamespace=root/dcim+
- 411 SystemCreationClassName=DCIM_ComputerSystem+SystemName=srv:system+CreationClassName=D
- 412 CIM SystemManagementService+Name=DCIM:SystemManagementService"

413 **7.6.2 Operations**

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The following table lists the operations implemented on DCIM_SystemManagementService.

Table 17 – DCIM_SystemManagementService - Operations

Operation Name	Requirements	Required Input
Get	Mandatory	Instance URI
Enumerate	Mandatory	Class URI
Invoke	Mandatory	Instance URI
DCIM_SystemManagementService.SetAttributte()	Mandatory	See section 8.1
DCIM_SystemManagementService.SetAttributes()	Mandatory	See section 8.2
DCIM_SystemManagementService.CreateTargetedConfigJob()	Mandatory	See section 8.3
DCIM_SystemManagementService.DeletePendingConfiguration(
	Mandatory	See section
DCIM_SystemManagementService.ShowErrorsOnLCD()	Mandatory	See section
DCIM_SystemManagementService.IdentifyChassis()	Mandatory	See section

416 **7.6.3 Properties**

- The following table lists the implemented properties for DCIM_ SystemManagementService instance
- representing system management service in a system. The "Requirements" column shall denote whether
- 419 the property is implemented (for requirement definitions, see section 3). The "Additional Requirements"
- column shall denote either possible values for the property, or requirements on the value formulation.

Table 18 – DCIM SystemManagementService- Properties

Property Name	Requirements	Description/Additonal Requirement
SystemCreationClassName	Mandatory	The property value shall be "DCIM_ComputerSystem".
CreationClassName	Mandatory	The property value shall be "DCIM_SystemManagementService".
SystemName	Mandatory	The property value shall be "srv:system".
Name	Mandatory	This property shall have a value of "DCIM:SystemManagementService"
ElementName	Mandatory	The property value shall be "System Management Service".

7.7 System Info Profile Profile Registration

- 423 This section describes the implementation for the DCIM_LCRegisteredProfile class.
- This class shall be instantiated in the Interop Namespace: root/interop.
- The DCIM_LCElementConformsToProfile association(s) shall reference the DCIM_LCRegisteredProfile instance.

427 7.7.1 Resource URIs for WinRM®

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

- The key property shall be the InstanceID property.
- The instance Resource URI shall be: "http://schemas.dell.com/wbem/wscim/1/cim-
- 432 schema/2/DCIM_LCRegisteredProfile?__cimnamespace=root/interop+InstanceID=DCIM:
- 433 SystemInfo:1.0.0"

7.7.2 Operations

The following table lists the operations implemented on for DCIM_LCRegisteredProfile.

Table 19 - DCIM_LCRegisteredProfile - Operations

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

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7.7.3 Properties

The following table lists the implemented properties for DCIM_LCRegisteredProfile instance representing System Info Profile implementation. The "Requirements" column shall denote whether the property is implemented (for requirement definitions, see section 3). The "Additional Requirements" column shall denote either possible values for the property, or requirements on the value formulation

Table 20 - DCIM_LCRegisteredProfile

Property Name	Туре	Requirement	Additional Requirements
InstanceID	String	Mandatory	DCIM:SystemInfo:1.0.0
			This property shall have the value "System
RegisteredName	String	Mandatory	Info".
RegisteredVersion	String	Mandatory	This property shall have the value "1.2.0".
RegisteredOrganization	Uint16	Mandatory	This property shall have the value 1 (Other).
OtherRegisteredOrgani			
zation	String	Mandatory	The property value shall match "DCIM".
AdvertiseTypes[]	Uint16	Mandatory	The property array shall contain: ["1(Other), 1(Other)"]
AdvertiseTypeDescripti			The property array shall contain: "WS-Identify",
ons[]	String	Mandatory	"Interop Namespace"
			This property array shall describe the required licenses for this profile.
ProfileRequireLicense[]	string	Mandatory	If no license is required for the profile, the property shall have value NULL.
			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"
ProfileRequireLicenseSt atus[]	string	Mandatory	If no license is required for the profile, the property shall have value NULL.

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8 Methods

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

8.1 DCIM_SystemManagementService.SetAttribute()

- The SetAttribute() method is used to set or change the value of a system attribute.
- 450 Invocation of the SetAttribute() method shall change the value of the attribute's CurrentValue or
- 451 attribute's PendingValue property to the value specified by the AttributeValue parameter if the attribute's
- 452 IsReadOnly property is FALSE. If this method is invoked when the attribute's IsReadOnly property is
- 453 TRUE, it shall result in no change to the value of the attribute's CurrentValue property. The result of
- changing this value is described with the SetResult parameter.
- Return code values for the SetAttribute() method are specified in Table 21 and parameters are specified
- 456 in Table 22. Invoking the SetAttribute() method multiple times can result in the earlier requests being
- 457 overwritten or lost.

Table 21 - SetAttribute() Method: Return Code Values

Value	Description
0	Completed with no error
2	Failed

Table 22 - SetAttribute() Method: Parameters

Qualifiers	Name	Туре	Description/Values
IN, REQ	Target	String	Shall be set to "System.Embedded.1"
IN, REQ	AttributeName	String	Shall be the GroupID property value followed by "#" character and then followed by the AttributeName property value for the attribute to be modified. Example: "ServerPwr.1#PowerCapSetting"
IN, REQ	AttributeValue[]	String	Shall contain the desired attribute value. If the value is valid, the CurrentValue or PendingValue property of the specified attribute will be modified.
OUT	SetResult	String	Returns: "Set CurrentValue property" when the attributes current value is set. "Set PendingValue property" when the attributes pending value is set.
OUT	RebootRequired	String	Returns: "Yes" if reboot is required, "No" if reboot is not required.
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
OUT	MessageArguments[]	String	Error MessageArguments

Table 23 - SetAttribute() Method: Standard Messages

MessageID (OUT parameter)	Message	MessageArguments[]
SYS001	The command was succesful	
SYS002	The command failed	
SYS003	Missing parameter(s) <parameter></parameter>	AttributeName/AttributeValue
SYS004	Invalid parameter value for <pre><pre><pre><pre><pre><pre><pre><pre></pre></pre></pre></pre></pre></pre></pre></pre>	AttributeName/AttributeValue
SYS005	AttributeName and AttributeValue count mismatch	
SYS006	Cannot set ReadOnly AttributeName <pre><pre><pre><pre><pre><pre><pre><pre></pre></pre></pre></pre></pre></pre></pre></pre>	AttributeName
SYS007	Input out of range for <parameter></parameter>	AttributeName
SYS008	Invalid boolean in AttributeValue for AttributeName <parameter></parameter>	AttributeName
SYS009	String exceeds maximum length for AttributeName <parameter></parameter>	AttributeName
SYS010	Invalid character in AttributeValue for AttributeName <parameter></parameter>	AttributeName
SYS011	Configuration is already committed, cannot set the configuration	
SYS012	User is not authorized to perform this operation	
SYS013	Invalid AttributeName <parameter></parameter>	AttributeName
SYS014	Invalid AttributeValue for AttributeName <parameter></parameter>	AttributeName
SYS015	Job created	
SYS016	Job completed with errors	
SYS017	Job failed	
SYS018	Job completed	
SYS019	Required dependancy input not found	
SYS020	Invalid Required Attribute value	
SYS023	No pending configurations	
SYS024	Attribute dependency failed	

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8.2 DCIM_SystemManagementService.SetAttributes()

- The SetAttributes() method is used to set or change the values of a group of attributes.
- Invocation of the SetAttributes() method shall change the values of the attribute's CurrentValue or
- PendingValue properties that correspond to the names specified by the AttributeName parameter and the
- 466 values specified by the AttributeValue parameter if the respective attribute's IsReadOnly property is
- 467 FALSE. . If this method is invoked when the attribute's IsReadOnly property is TRUE, it shall result in no
- change to the value of the attribute's CurrentValue property.
- 469 Return code values for the SetAttributes() method are specified in Table 24, and parameters are
- 470 specified in Table 25.

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

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Table 24 – SetAttributes() Method: Return Code Values

Value	Description
0	Completed with no error
2	Failed

Table 25 – SetAttributes() Method: Parameters

Qualifiers	Name	Туре	Description/Values	
IN, REQ	Target	String	Shall be set to "System.Embedded.1"	
IN, REQ	AttributeName[]	String	Shall contain array of attributes where each element shall be the GroupID property value followed by "#" character and then followed by the AttributeName property value for the attribute to be modified. Example: "ServerPwr.1#PowerCapSetting"	
IN, REQ	AttributeValue[]	String	Shall contain the desired attribute values. If the value is valid, the CurrentValue or PendingValue property of the specified attribute will be modified. Note: Attributes with multi-element array values shall not be set using this method.	
OUT	SetResult[]	String	Returns: "Set CurrentValue property" when the attributes current value is set. "Set PendingValue property" when the attributes pending value is set.	
OUT	RebootRequired[]	String	Returns:	
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	
OUT	MessageArguments[]	String	Error MessageArguments	

Table 26 – SetAttributes() Method: Standard Messages

MessageID (OUT parameter)	Message	MessageArguments[]
SYS001	The Command was succesful	
SYS002	The command failed	
SYS003	Missing parameter(s) <parameter></parameter>	AttributeName/AttributeValue
SYS004	Invalid parameter value for <parameter></parameter>	AttributeName/AttributeValue
SYS005	AttributeName and AttributeValue count mismatch	
SYS006	Cannot set ReadOnly AttributeName <parameter></parameter>	AttributeName

MessageID (OUT parameter)	Message	MessageArguments[]
SYS007	Input out of range for <parameter></parameter>	AttributeName
SYS008	Invalid boolean in AttributeValue for AttributeName <pre><pre><pre><pre>for AttributeName</pre></pre></pre></pre>	AttributeName
SYS009	String exceeds maximum length for AttributeName <parameter></parameter>	AttributeName
SYS010	Invalid character in AttributeValue for AttributeName <pre><pre><pre><pre>for AttributeName</pre></pre></pre></pre>	AttributeName
SYS011	Configuration already committed, cannot set configuration	
SYS012	User is not Authorized to perform this operation	
SYS013	Invalid AttributeName <parameter></parameter>	AttributeName
SYS014	Invalid AttributeValue for AttributeName <parameter></parameter>	AttributeName
SYS015	Job created	
SYS016	Job completed with errors	
SYS017	Job failed	
SYS018	Job completed	
SYS019	Required Dependancy input not found	
SYS020	Invalid Required Attribute value	
SYS023	No pending configurations	
SYS024	Attribute dependency failed	

8.3 DCIM_SystemManagementService.CreateTargetedConfigJob()

The CreateTargetedConfigJob() method is used to apply the pending values created by the SetAttribute,
SetAttributes, ChangeBootSourceState, and ChangeBootOrderByInstanceID methods. The successful
execution of this method creates a job to apply the pending values.

- 480 The CreateTargetedConfigJob() method supports the following optional input parameters:
 - RebootJobType: When provided in the input parameters, it creates a specific reboot job to "PowerCycle", "Graceful Reboot without forced shutdown", or "Graceful Reboot with forced shutdown". This parameter only creates the RebootJob and does not schedule it.
 - NOTE: Many attributes in the profile do not require a reboot job. Thus, it may not be necessary to specify this parameter.
 - ScheduledStartTime: When provided in the input parameters, 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.
 - UntilTime: This parameter has a dependency on "ScheduledStartTime", together "ScheduledStartTime" and
 "UntilTime" define a time window for scheduling the job(s). Once scheduled, jobs will be executed within the
 time window.

If CreateTargetedConfigJob method is executed without the three optional parameters discussed above, then configuration job is created but not scheduled. However, this configuration job can be scheduled later using the DCIM_JobService.SetupJobQueue () method from the "Job Control Profile". DCIM_JobService.SetupJobQueue () can be executed to schedule several configuration jobs including the reboot job. Refer to "Job Control Profile" for more details.

Return code values for the CreateTargetedConfigJob() method are specified in Table 24, and parameters are specified in Table 25.

Subsequent calls to CreateTargetedConfigJob after the first CreateTargetedConfigJob will result in error until the first job is completed."

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Table 27 - CreateTargetedConfigJob() Method: Return Code Values

Value	Description
2	Failed
4096	Job Created

Table 28 - CreateTargetedConfigJob() Method: Parameters

Qualifiers	Name	Туре	Description/Values
IN, REQ	Target	String	Shall be set to "System.Embedded.1"
IN	RebootJobType	Uint16	Shall contain the requested reboot type: 1 - PowerCycle 2 - Graceful Reboot without forced shutdown 3 - Graceful Reboot with forced shutdown.
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.
OUT	Job	CIM_ConcreteJ ob REF	Reference to the newly created pending value application job.
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
OUT	MessageArguments[]	String	Error MessageArguments

Table 29 - CreateTargetedConfigJob() Method: Standard Messages

MessageID (OUT parameter)	Message	MessageArguments[]
SYS001	The command was succesful	
SYS002	The command failed	
SYS003	Missing parameter(s) <parameter></parameter>	AttributeName/AttributeValue
SYS004	Invalid parameter value for <parameter></parameter>	AttributeName/AttributeValue
SYS005	AttributeName and AttributeValue count mismatch	
SYS006	Cannot set ReadOnly AttributeName <parameter></parameter>	AttributeName

MessageID (OUT parameter)	Message	MessageArguments[]
SYS007	Input out of range for <parameter></parameter>	AttributeName
SYS008	Invalid boolean in AttributeValue for AttributeName <pre><pre><pre><pre>for AttributeName</pre></pre></pre></pre>	AttributeName
SYS009	String exceeds maximum length for AttributeName <pre><pre><pre><pre>AttributeName</pre></pre></pre></pre>	AttributeName
SYS010	Invalid character in AttributeValue for AttributeName <pre><pre><pre><pre>for AttributeName</pre></pre></pre></pre>	AttributeName
SYS011	Configuration already committed, cannot set configuration	
SYS012	User is not Authorized to perform this operation	
SYS013	Invalid AttributeName <parameter></parameter>	AttributeName
SYS014	Invalid AttributeValue for AttributeName <pre><pre>AttributeName</pre></pre>	AttributeName
SYS015	Job created	
SYS016	Job completed with errors	
SYS017	Job failed	
SYS018	Job completed	
SYS019	Required dependancy input not found	
SYS020	Invalid Required Attribute value	
SYS023	No pending configurations	
SYS024	Attribute dependency failed	

8.4 DCIM_SystemManagementService.DeletePendingConfiguration()

The DeletePendingConfiguration() method is used to cancel the pending values created by the SetAttribute and SetAttributes methods. The DeletePendingConfiguration() method cancels the pending configuration changes made before the configuration job is created with CreateTargetedConfigJob(). This method only operates on the pending changes prior to CreateTargetedConfigJob() being called. After the configuration job is created, the pending changes can only be canceled by calling DeleteJobQueue() method in the Job Control profile.

Return code values for the DeletePendingConfiguration() method are specified in Table 30, and parameters are specified in Table 31.

Table 30 – DeletePendingConfiguration() Method: Return Code Values

Value	Description
0	Completed with no error
2	Failed

Table 31 - DeletePendingConfiguration() Method: Parameters

Qualifiers	Name	Туре	Description/Values
IN, REQ	Target	String	Shall be equal to "System.Embedded.1"

Qualifiers	Name	Туре	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
OUT	MessageArguments[]	String	Error MessageArguments

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Table 32 – DeletePendingConfiguration() Method: Standard Messages

MessageID (OUT parameter)	Message	MessageArguments[]
SYS001	The command was succesful	0 0 11
SYS002	The command failed	
SYS003	Missing parameter(s) <parameter></parameter>	AttributeName/AttributeValue
SYS004	Invalid parameter value for <parameter></parameter>	AttributeName/AttributeValue
SYS005	AttributeName and AttributeValue count mismatch	
SYS006	Cannot set ReadOnly AttributeName <parameter></parameter>	AttributeName
SYS007	Input out of range for <parameter></parameter>	AttributeName
SYS008	Invalid boolean in AttributeValue for AttributeName <pre><pre>cparameter></pre></pre>	AttributeName
SYS009	String exceeds maximum length for AttributeName <parameter></parameter>	AttributeName
SYS010	Invalid character in AttributeValue for AttributeName <pre><pre>cparameter></pre></pre>	AttributeName
SYS011	Configuration already committed, cannot set configuration	
SYS012	User is not authorized to perform this operation	
SYS013	Invalid AttributeName <parameter></parameter>	AttributeName
SYS014	Invalid AttributeValue for AttributeName <parameter></parameter>	AttributeName
SYS015	Job created	
SYS016	Job completed with errors	
SYS017	Job failed	
SYS018	Job completed	
SYS019	Required dependancy input not found	
SYS020	Invalid Required Attribute value	
SYS023	No pending configurations	
SYS024	Attribute dependency failed	

8.5 DCIM_SystemManagementService.ShowErrorsOnLCD()

The ShowErrorsOnLCD() method is used to show/hide errors on the platform LCD.

Return code values for the DeletePendingConfiguration() method are specified in Table 33, and parameters are specified in Table 34.

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Table 33 - ShowErrorsOnLCD() Method: Return Code Values

Value	Description
0	Completed with no error
2	Failed

Table 34 - ShowErrorsOnLCD() Method: Parameters

Qualifiers	Name	Туре	Description/Values
IN, REQ	Show	Boolean	The parameter shall have TRUE value to show the errors on the platform LCD, or FALSE to hide errors on the platform LCD.
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
OUT	MessageArguments[]	String	Error MessageArguments

Table 35 – ShowErrorsOnLCD() Method: Standard Messages

MessageID (OUT parameter)	Message	MessageArguments[]
SYS001	The command was succesful	
SYS002	The command failed	
SYS003	Missing parameter(s) <parameter></parameter>	Show
SYS004	Invalid parameter value for <pre><pre><pre><pre><pre><pre><pre><pre></pre></pre></pre></pre></pre></pre></pre></pre>	Show
SYS011	Configuration already committed, cannot set configuration	
SYS012	User is not authorized to perform this operation	
SYS019	Required dependancy input not found	

8.6 DCIM_SystemManagementService.IdentifyChassis()

- The IdentifyChassis () method is used to enable identifying signals on the platform such as LED.
- If the IdentifyState has a value of 2 (Time Limited Enable), the DurationLimit parameter shall be non-NULL, non-blank value.
- Return code values for the DeletePendingConfiguration() method are specified in Table 36, and parameters are specified in Table 37.

Table 36 - IdentifyChassis() Method: Return Code Values

Value	Description		
0	Completed with no error		
2	Failed		

Table 37 - IdentifyChassis() Method: Parameters

Qualifiers	Name	Туре	Description/Values		
IN, REQ	IdentifyState	Uint8	The parameter shall represent the desired state of the LED on the platform to identify it: • 0 - "Disabled" (LED is off) • 1 - "Enabled" (LED is on) • 2 - "Time Limited Enabled" (LED is on for a limited time)		
IN	DurationLimit	Uint8	The parameter shall be specified in the seconds. The parameter shall be specified if the IdentityState has a value 2 (Time Limited Enabled)		
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		
OUT	MessageArguments[]	String	Error MessageArguments		

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537 Table 38 – IdentifyChassis() Method: Standard Messages

MessageID (OUT parameter)	Message	MessageArguments[]	
SYS001	The command was succesful		
SYS002	The command failed		
SYS003	Missing parameter(s) <parameter></parameter>	Show	
SYS004	Invalid parameter value for <parameter></parameter>	Show	
SYS011	Configuration already committed, cannot set configuration		
SYS012	User is not authorized to perform this operation		
SYS019	Required dependancy input not found		

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9 Use Cases

540 See Lifecycle Controller (LC) Integration Best Practices Guide.

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10 CIM Elements

No additional details specified.

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11 Privilege and License Requirement

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

Table 39 - Privilege and License Requirements

Class and Method	Instance (GroupID.Attribut eName)	Operation	User Privilege Required	License Required
DCIM_SystemView		ENUMERATE, GET	Login	None.
DCIM_SystemInteger		ENUMERATE, GET	Login	None.
DCIM_SystemEnumeration		ENUMERATE, GET	Login	None.
DCIM_SystemString		ENUMERATE, GET	Login	None.
DCIM_System Management Service		ENUMERATE, GET	Login	None.
DCIM_SystemManagement Service. SetAttribute() DCIM_SystemManagement Service. SetAttributes()	ServerPwr.PowerC apSetting	INVOKE	Login, Configure, System Control	LM_POWER_BUDGETI NG & LM_REMOTE_CONFIG URATION
DCIM_SystemManagement Service. SetAttribute() DCIM_SystemManagement Service. SetAttributes()	ServerPwr.PSRedP olicy	INVOKE	Login, Configure	LM_REMOTE_CONFIG URATION
DCIM_SystemManagement Service. SetAttribute() DCIM_SystemManagement Service. SetAttributes()	ServerPwr.PSPFCE nabled	INVOKE	Login, Configure	LM_REMOTE_CONFIG URATION
DCIM_SystemManagement Service. SetAttribute() DCIM_SystemManagement Service. SetAttributes()	ServerPwr.PSRapid On	INVOKE	Login, Configure	LM_REMOTE_CONFIG URATION
DCIM_SystemManagement Service. SetAttribute() DCIM_SystemManagement Service. SetAttributes()	ServerPwr.RapidOn PrimaryPSU	INVOKE	Login, Configure	LM_REMOTE_CONFIG URATION
DCIM_SystemManagement Service. SetAttribute() DCIM_SystemManagement Service. SetAttributes()	ServerPwr.PowerC apValue	INVOKE	Login, Configure, System Control	LM_POWER_BUDGETI NG & LM_REMOTE_CONFIG URATION
DCIM_SystemManagement Service. SetAttribute() DCIM_SystemManagement Service. SetAttributes()	ServerTopology.Da taCenterName	INVOKE	Login, Configure	LM_REMOTE_CONFIG URATION

Class and Method	Instance (GroupID.Attribut eName)	Operation	User Privilege Required	License Required
DCIM_SystemManagement Service. SetAttribute()	,			LM_REMOTE_CONFIG URATION
DCIM_SystemManagement Service. SetAttributes()	ServerTopology.Ais leName	INVOKE	Login, Configure	
DCIM_SystemManagement Service. SetAttribute() DCIM_SystemManagement Service. SetAttributes()	ServerTopology.Ra	INVOKE	Login, Configure	LM_REMOTE_CONFIG URATION
DCIM_SystemManagement Service. SetAttribute() DCIM_SystemManagement Service. SetAttributes()	ServerTopology.Ra	INVOKE	Login, Configure	LM_REMOTE_CONFIG URATION
DCIM_SystemManagement Service. SetAttribute() DCIM_SystemManagement Service. SetAttributes()	LCD.Configuration	INVOKE	Login, Configure	LM_REMOTE_CONFIG URATION
DCIM_SystemManagement Service. CreateTargetedConfigJob()		INVOKE	Login, Configure	LM_REMOTE_CONFIG URATION
DCIM_SystemManagement Service. DeletePendingConfiguration()		INVOKE	Login, Configure	LM_REMOTE_CONFIG URATION
DCIM_SystemManagement Service. ShowErrorsOnLCD()		INVOKE	Login, Test Alerts	LM_REMOTE_CONFIG URATION
DCIM_SystemManagement Service. IdentifyChassis()		INVOKE	Login, Test Alerts	LM_REMOTE_CONFIG URATION
DCIM_LCRegisteredProfile		ENUMERATE, GET	Login	None.
DCIM_LCElementConforms ToProfile		ENUMERATE, GET	Login	None.