Base Server and Physical Asset Profile

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Base Server and Physical Asset Profile

1 Scope

The *Base Server Profile* is the autonomous profile that defines the classes used to describe basic server hardware and its related software. The scope of this profile is limited to simple servers that are directly realized in physical components. The profiles referenced by the *Base Server Profile* extend the management capabilities by adding the capability to represent server configuration, boot control, provisioning, and hardware.

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 1.0.0*
- DMTF DSP1004, *Base Server Profile 1.0.0*
- DMTF DSP1011, *Physical Asset Profile 1.0.0*
- *Dell Lifecycle Controller Best Practices Guide 1.0,* http://en.community.dell.com/techcenter/extras/m/white_papers/20066173.aspx
- *Dell WSMAN Licenses and Privileges 1.0*
- DMTF DSP0226, *Web Services for Management (WS-Management) Specification 1.1.0*
- DMTF DSP0227, *WS-Management CIM Binding Specification 1.0.0*
- *Dell SMBIOS Implementation Specification 2.0*
- *Dell Lifecycle Controller Best Practices Guide v1.0*, <link TBD>
- Dell Tech Center MOF Library: http://www.delltechcenter.com/page/DCIM.Library.MOF
- Related Managed Object Format (MOF) files:
    - o DCIM_ComputerSystem.mof
    - o DCIM_ComputerSystemPackage.mof
    - o DCIM_Chassis.mof
    - o DCIM_SystemComponent.mof
    - o DCIM_CSEnabledLogicalElementCapabilities.mof
    - o DCIM_CSElementCapabilities.mof
    - o DCIM_RegisteredProfile.mof
    - o DCIM_ElementConformsToProfile.mof
    - o DCIM_LCRegisteredProfile.mof
    - o DCIM_LCElementConformsToProfile.mof

3   Terms and Definitions

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
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.

3.6
Shall – Indicates requirements to be followed strictly in order to conform to the document and from which no deviation is permitted.

3.7
FQDD – Fully Qualified Device Descriptor is used to identify a particular component in a system.

3.8
Interop Namespace – Interop Namespace is where instrumentation instantiates classes to advertise its capabilities for client discovery.

3.9
Implementation Namespace – Implementation Namespace is where instrumentation instantiates classes relevant to executing core management tasks.

3.10
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

3.11
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

159 4 Symbols and Abbreviated Terms

160 **4.1**

161 **CIM –** Common Information Model

162 **4.2**

163 **iDRAC –** Integrated Dell Remote Access Controller to perform out-of-band operations on Blades and
164 Rack and Towers.

165 **4.3**

166 **CMC** – Chassis Manager Controller to perform out-of-band operations on Blade systems.

167 **4.4**

168 **FQDD –** Fully Qualified Device Description – a user-friendly name for the object

169 5 Synopsis

170 **Profile Name:** Base Server and Physical Asset Profile

171 **Version:** 1.0.0

172 **Organization:** Dell

173 **CIM Schema Version:** 2.26 Experimental

174 **Dell Schema Version:** 1.0.0

175 **Interop Namespace:** root/interop

176 **Implementation Namespace:** root/dcim

177 **Central Class:** DCIM_ComputerSystem

178 **Scoping Class:** DCIM_ComputerSystem

179 The Dell Base Server and Physical Asset Profile is a component profile that contains the Dell specific
180 implementation requirements for computer system.

181 DCIM_ComputerSystem is the Central Class.

182 Table 1 lists profiles that are related to this profile.

183 **Table 1 – Related Profiles**

Profile Name	Organization	Version	Relationship
Base Server Profile	DMTF	1.0	Specializes
Physical Asset Profile	DMTF	1.0	Specializes

184 6 Description

185 The *Base Server Profile* is an autonomous profile that defines the minimum top-level object model
186 needed to model simple server hardware and related software. Other profiles add additional management
187 objects to this basic server model to provide system configuration, boot control, and other provisioning
188 capabilities.DCIM_ComputerSystem represents the server system

189   Figure 1 presents the class schema for the BaseServer Profile.
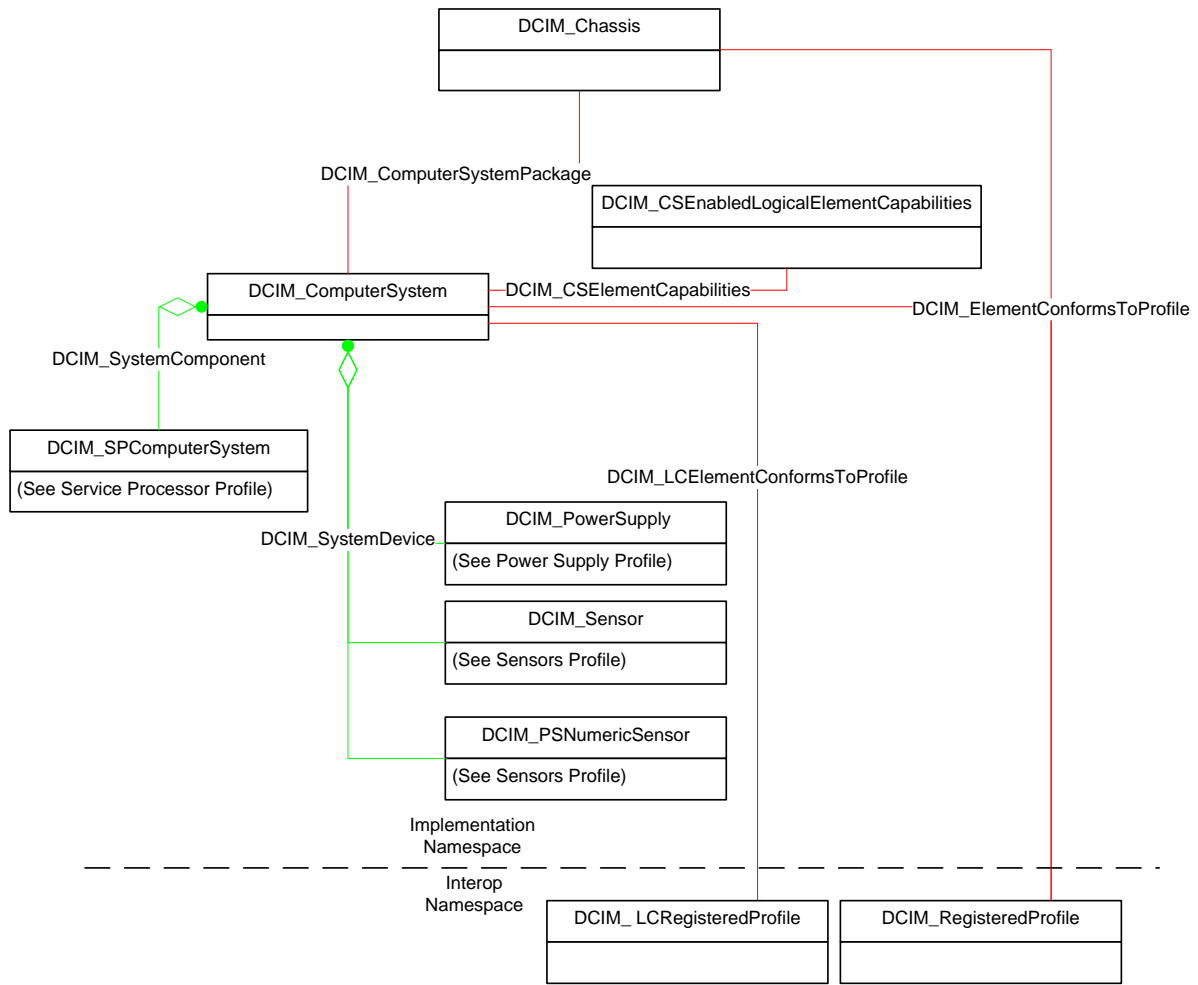
190

191   **Figure 1 – Base Server and Physical Asset Profile ImplementationImplementation Description**

192 **7   Implementation Description**

193 This section describes the requirements and guidelines for implementing BaseServer Profile.

194   **Table 2 – Class Requirements: Base Server and Physical Asset Profile**

Element Name	Requirement	Description
Classes		
DCIM_ComputerSystem	Mandatory	The class is implemented in the Implementation Namespace. See section 7.1.
DCIM_ComputerSystemPackage	Mandatory	The class is implemented in the Implementation Namespace. See section 7.2.
DCIM_CSEnabledLogicalElementCapabilities	Mandatory	The class is implemented in the Implementation Namespace. See section 7.3.
DCIM_SystemComponent	Mandatory	The class is implemented in the Implementation Namespace. See section 7.1.
DCIM_CSElementCapabilities	Mandatory	The class is implemented in the Implementation Namespace. See section 7.1 and 7.3.
DCIM_Chassis	Mandatory	The class is implemented in the Implementation Namespace. See section 7.4.
DCIM_LCRegisteredProfile	Mandatory	The class is implemented in the Interop Namespace. See section 7.7.
DCIM_LCElementConformsToProfile	Mandatory	The class is implemented in both the Interop and implementation Namespaces. See section 7.7.
DCIM_RegisteredProfile	Mandatory	The class is implemented in the Interop Namespace. See section 7.6.
DCIM_ElementConformsToProfile	Mandatory	The class is implemented in both the Interop and implementation Namespaces. See section 7.6.

195 **7.1   DCIM_ComputerSystem – Host Computer System**

196 This section describes the implementation for the DCIM_ComputerSystem class. This class is instantiated
197 in the Implementation Namespace. The DCIM_ElementConformsToProfile association(s) references the
198 DCIM_ComputerSystem instance(s).

199 **7.1.1   Resource URIs for WinRM®**

200 The class Resource URI is:

201 *"http://schemas.dell.com/wbem/wscim/1/cim-schema/2 /DCIM_*
202 *ComputerSystem?__cimnamespace=root/dcim"*

203 The key properties are CreationClassName, Name.

204   The instance Resource URI for DCIM_ComputerSystem instance is:

205   *"http://schemas.dell.com/wbem/wscim/1/cim-*
206   *schema/2/DCIM_ComputerSystem?__cimnamespace=root/dcimName=srv:system+CreationClassN*
207   *ame=DCIM_ComputerSystem"*

208   ### 7.1.2   Operations

209   The following table lists the implemented operations on DCIM_ComputerSystem.

210   **Table 3 – DCIM_ComputerSystem - Operations**

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

211   ### 7.1.3   Class Properties

212   The table details the implemented properties for DCIM_ComputerSystem instance in a system. The
213   "Requirements" column shall denote whether the property is implemented (for requirement definitions,
214   see section 3). The "Additional Requirement" column shall denote either possible values for the property,
215   or requirements on the value formulation

216   **Table 4 – DCIM_ComputerSystem - Properties**

Property Name	Type	Requirement	Additional Requirement
CreationClassName	string	Mandatory	The property value shall be "DCIM_ComputerSystem"
Name	string	Mandatory	The property value shall be "srv:system"
EnabledState	uint16	Mandatory	This property value shall be one of the following: • 2 (Enabled) – Host system is powered on • 3 (Disabled) – Host system is powered off
RequestedState	uint16	Mandatory	This property shall be 0 (Unknown).
OperationalStatus[]	uint16	Mandatory	OperationalStatus shall indicate the current health of the computer system and its sub-components excluding storage sub-systems. Only the first element of the array shall be populated. The first element value shall be one of the following: • 0(Unknown) • 2(OK) • 3(Degraded) • 6(Error).

Property Name	Type	Requirement	Additional Requirement
HealthState	uint16	Mandatory	HealthState shall indicate the current health of the computer system and its sub-components excluding storage sub-systems. The property value shall be one of the following: • 0(Unknown) • 5 (OK) • 10 (Degraded/Warning) • 25(Error)
PrimaryStatus	uint16	Mandatory	The property shall contain up-to-date information on health state of the system excluding storage sub-systems. PrimaryStatus provides a high level status value, intended to align with Red-Yellow-Green type representation of status. The property value shall be one of the following: • 0(Unknown) • 1(OK) • 2 (Degraded) • 3 (Error)
IdentifyingDescriptions[]	String	Mandatory	The property shall be an array of strings providing explanations and details behind the entries in the OtherIdentifyingInfo array. Each element of this array shall be related to the entry in OtherIdentifyingInfo that is located at the same index. The array property value shall be ["CIM:GUID", "CIM:Tag", "DCIM:ServiceTag"]
OtherIdentifyingInfo[]	String	Mandatory	This array property shall contain [<the platform GUID>, "mainsystemchassis", <the platform service tag>].
ElementName	String	Mandatory	ElementName property value shall be the host name of the system.
Dedicated	Uint16	Mandatory	This property value shall be 0 (Not Dedicated).

217   7.2   DCIM_ComputerSystemPackage - Computer System Package

218 This section describes the implementation for the DCIM_ComputerSystemPackage class. This class is
219 instantiated in the Implementation Namespace.

220   7.2.1 Resource URIs for WinRM®

221 The class Resource URI is:

222 *"http://schemas.dell.com/wbem/wscim/1/cim-schema/2/DCIM_*
223 *ComputerSystemPackage?__cimnamespace=root/dcim"*

224 The key properties are Antecedent and Dependent.

225 The instance Resource URI for DCIM_ComputerSystemPackage instance is:

226 *"http://schemas.dell.com/wbem/wscim/1/cim-schema/2/DCIM_*
227 *ComputerSystemPackage?__cimnamespace=root/dcim+Antecedent=<Reference to*
228 *DCIM_ComputerSystem>+Dependent=<Reference to DCIM_Chassis>"*

229

7.2.2 Operations

230

231 The following table lists the implemented operations on DCIM_ComputerSystemPackage.

232 **Table 5 – DCIM_ComputerSystemPackage - Operations**

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

7.2.3 Class Properties

233

234 The following table lists the implemented properties for DCIM_ComputerSystemPackage instance in a
235 system. The "Type" column shall denote the corresponding property type. The "Requirements" column
236 shall denote whether the property is implemented (for requirement definitions, see section 3). The
237 "Additional Requirement" column shall denote either possible values for the property, or requirements on
238 the value formulation.

239 **Table 6 – DCIM_ComputerSystemPackage – Properties**

Properties Name	Type	Requirement	Additional Requirements
Antecedent	Reference	Mandatory	The property value shall reference the DCIM_ComputerSystem instance.
Dependent	Reference	Mandatory	The property value shall reference DCIM_Chassis instance.
PlatformGUID	string	Mandatory	The property value shall represent the platform GUID of the sytem.

7.3 DCIM_CSEnabledLogicalElementCapabilities - Enabled Logical Element Capabilities

240
241

242 This section describes the implementation for the DCIM_CSEnabledLogicalElementCapabilities class.
243 This class is instantiated in the Implementation Namespace.

7.3.1 Resource URIs for WinRM®

244

245 The class Resource URI is

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

248 The key property is the InstanceID.

249 The instance Resource URI for DCIM_CSEnabledLogicalElementCapabilities instance is:

250 *"http://schemas.dell.com/wbem/wscim/1/cim-schema/2/DCIM_*
251 *CSEnabledLogicalElementCapabilities?__cimnamespace=root/dcim+InstanceID=*
252 *DCIM:ComputerCap:1"*

253

254 ### 7.3.2 Operations

255 The table lists the implemented operations on DCIM_CSEnabledLogicalElementCapabilities.

256 **Table 7 – DCIM_CSEnabledLogicalElementCapabilities - Operations**

Operation Name	Requirements	Required Input
Get	Mandatory	Instance Resource URI
Enumerate	Mandatory	Class Resource URI
Associators	Mandatory	Instance Resource URI
References	Mandatory	Instance Resource URI

257 ### 7.3.3 Class Properties

258 The table lists the implemented properties for DCIM_CSEnabledLogicalElementCapabilities instance in a
259 system. The "Type" column shall denote the corresponding property type. The "Requirements" column
260 shall denote whether the property is implemented (for requirement definitions, section 3). The "Additional
261 Requirement" column shall denote either possible values for the property, or requirements on the value
262 formulation.

263 **Table 8 – DCIM_CSEnabledLogicalElementCapabilities - Properties**

Property Name	Type	Requirement	Additional Requirement
InstanceID	string	Mandatory	The property value shall be "DCIM:ComputerCap:1"
RequestedStatesSupported[]	uint16	Mandatory	This array property value shall be [2(Enabled), 3(Disabled), 11(Reset)]
ElementName	string	Mandatory	The property value is "Computer System Capabilities"
ElementNameEditSupported	boolean	Mandatory	This property value shall be FALSE.

264 ## 7.4 DCIM_Chassis - Chassis

265 This section describes the implementation for the DCIM_Chassis class. This class is instantiated in the
266 Implementation Namespace.

267 ### 7.4.1 Resource URIs for WinRM®

268 The class Resource URI is

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

270 The key property is the CreationClassName and Tag.

271 The instance Resource URI for DCIM_Chassis instance is:

272 *"http://schemas.dell.com/wbem/wscim/1/cim-schema/2/DCIM_*
273 *Chassis?__cimnamespace=root/dcim+CreationClassName=DCIM_Chassis+Tag=mainsystemchassi*
274 *s"*

7.4.2 Operations

The following table details the implemented operations on DCIM_Chassis.

Table 9 – DCIM_Chassis - Operations

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

7.4.3 Properties

The table lists the implemented properties for DCIM_Chassis instance in a system. The "Type" column shall denote the corresponding property type. 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 10 – DCIM_Chassis - Properties

Property Name	Type	Requirement	Additional Requirement
CreationClassName	string	Mandatory	This property value shall be "DCIM_Chassis"
Tag	string	Mandatory	This property value shall be "mainsystemchassis"
Manufacturer	string	Mandatory	The property shall identify the manufacturer of the platform.
Model	stirng	Mandatory	The property shall identify the platform model.
PartNumber	string	Mandatory	This property shall be set to NULL.
SerialNumber	string	Mandatory	This propety value shall be the platform's service tag.
SKU	string	Mandatory	This property value shall be the platform's ePPID that uniquely identifies the platform. For more information see Dell SMBIOS Specification.
ChassisPackageType	uint16	Mandatory	This property value shall be 17(Main System Chassis).
ElementName	String	Mandatory	This property value shall have the format "DCIM <Model> Chassis"
PackageType	uint16	Mandatory	This property value shall be 3(Chassis/Frame) for monolithic platforms, or 16 (Blade) for blade platform.
CanBeFRUed	boolean	Mandatory	This property value shall be TRUE.
SystemID	uint16	Mandatory	This property value shall be the 3 digit Dell System ID for the platform.

285 7.5 DCIM_RegisteredProfile - DMTF Base Server Profile Registration

286 This section describes the implementation for the DCIM_RegisteredProfile class. This class shall be
287 instantiated in the Interop Namespace. The DCIM_ElementConformsToProfile association(s) shall
288 reference the DCIM_RegisteredProfile instances.

289 7.5.1 Resource URIs

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

292 The key property shall be the InstanceID property.

293 The instance Resource URI shall be: "http://schemas.dell.com/wbem/wscim/1/cim-
294 schema/2/DCIM_RegisteredProfile?__cimnamespace=root/interop+InstanceID=
295 DCIM:CSRegisteredProfile:1"

296 7.5.2 Operations

297 The following table details the implemented operations on for DCIM_RegisteredProfile.

298 **Table 11 – DCIM_RegisteredProfile - Operations**

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

299 7.5.3 Class Properties

300 The table lists the implemented properties for DCIM_RegisteredProfile instance representing Base Server
301 and Physical Asset Profile implementation. The "Requirements" column shall denote whether the property
302 is implemented (for requirement definitions, see section 3.1, 3.2, and 3.4). The "Additional Requirement"
303 column shall denote either possible values for the property, or requirements on the value formulation.

304 **Table 12 – DCIM_RegisteredProfile Properties**

Property Name	Type	Requirement	Additional Requirements
InstanceID	string	Mandatory	This property value shall be "DCIM:CSRegisteredProfile:1".
RegisteredName	string	Mandatory	This property value shall be "Base Server".
RegisteredVersion	string	Mandatory	This property value shall be "1.0.0".
RegisteredOrganization	uint16	Mandatory	This property value shall be 2 (DMTF).
AdvertiseTypes[]	uint16	Mandatory	This property value shall be [1,1].
AdvertiseTypeDescriptions[]	string	Mandatory	This property value shall be ["WS-Identify", "Interop Namespace"].

305 7.6 DCIM_RegisteredProfile - DMTF Physical Asset Profile Registration

306 This section describes the implementation for the DCIM_RegisteredProfile class. This class shall be
307 instantiated in the Interop Namespace. The DCIM_ElementConformsToProfile association(s) shall
308 reference the DCIM_RegisteredProfile instances.

309 7.6.1 Resource URIs

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

312 The key property shall be the InstanceID property.

313 The instance Resource URI shall be: "http://schemas.dell.com/wbem/wscim/1/cim-
314 schema/2/DCIM_RegisteredProfile?__cimnamespace=root/interop+InstanceID=
315 DCIM:PhysicalAssetRegisteredProfile:1""

316 **7.6.2 Operations**

317 The following table details the implemented operations on for DCIM_RegisteredProfile.

318 **Table 13 – DCIM_RegisteredProfile - Operations**

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

319 **7.6.3 Class Properties**

320 The following table details the implemented properties for DCIM_RegisteredProfile instance representing
321 Base Server and Physical Asset Profile implementation. The "Requirements" column shall denote
322 whether the property is implemented (for requirement definitions, section 3). The "Additional
323 Requirement" column shall denote either possible values for the property, or requirements on the value
324 formulation

325 **Table 14 – DCIM_RegisteredProfile**

Property Name	Type	Requirement	Additional Requirements
InstanceID	string	Mandatory	This property value shall be "DCIM:PhysicalAsset:1.0.0".
RegisteredName	string	Mandatory	This property value shall be "Physical Asset".
RegisteredVersion	string	Mandatory	This property value shall be "1.0.0".
RegisteredOrganization	uint16	Mandatory	This property value shall be 2 (DMTF).
AdvertiseTypes[]	uint16	Mandatory	This property value shall be [1 (Other) ,1 (Other)].
AdvertiseTypeDescriptions[]	string	Mandatory	This property value shall be ["WS-Identify", "Interop Namespace"].

326 **7.7   DCIM_LCRegisteredProfile**

327 This section describes the implementation for the DCIM_LCRegisteredProfile class. This class shall be
328 instantiated in the Interop Namespace. The DCIM_ElementConformsToProfile association(s) shall
329 reference the DCIM_LCRegisteredProfile instance.

330 **7.7.1 Resource URIs for WinRM®**

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

333 The key property shall be the InstanceID property.

334 The instance Resource URI shall be: "http://schemas.dell.com/wbem/wscim/1/cim-
335 schema/2/DCIM_LCRegisteredProfile?__cimnamespace=root/interop+InstanceID=
336 DCIM:BaseServerAndPhysicalAsset:1.0.0"

337 **7.7.2 Operations**

338 The following table details the implemented operations on for DCIM_LCRegisteredProfile.

Table 15 – DCIM_LCRegisteredProfile - Operations

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

340 7.7.3 Class Properties

341 The following table details the implemented properties for DCIM_LCRegisteredProfile instance
342 representing Base Server and Physical Asset Profile implementation. The "Requirements" column shall
343 denote whether the property is implemented (for requirement definitions, section 3). The "Additional
344 Requirement" column shall denote either possible values for the property, or requirements on the value
345 formulation

346   **Table 16 – DCIM_LCRegisteredProfile**

Property Name	Type	Requirement	Additional Requirements
InstanceID	string	Mandatory	This property value shall be "DCIM:BaseServerAndPhysicalAsset:1.0.0".
RegisteredName	string	Mandatory	This property value shall be "Base Server and Physical Asset".
RegisteredVersion	string	Mandatory	This property value shall be "1.0.0".
RegisteredOrganiza tion	uint16	Mandatory	This property value shall be 1 (Other).
OtherRegisteredOrg anization	string	Mandatory	This property value shall be "DCIM".
AdvertiseTypes[]	uint16	Mandatory	This property value shall be [1,1].
AdvertiseTypeDescr iptions[]	string	Mandatory	This property value shall be ["WS-Identify", "Interop Namespace"].

347 8   Methods

348 This section details the requirements for supporting extrinsic methods for the DCIM_ComputerSystem
349 class.

350 8.1   DCIM_ComputerSystem.RequestStateChange()

351 Invoking the DCIM_ComputerSystem.RequestStateChange() method changes the element's state to the
352 value specified in the RequestedState parameter.

353 • A value of 2 (Enabled) shall correspond to a request to power on the system.

354 • A value of 3 (Disabled) shall correspond to a request to power off the system.

355 • A value of 11 (Reset) shall correspond to a request to power cycle the system.

356 The method shall be successful, if upon the completion of the method the system has been requested to
357 transition to the desired state indicated by the RequestedState parameter. An actual change in the state
358 may not occur, even if the the method was executed sucessfully. The EnabledState property shall
359 indicate the current state of the system.

360 Detailed requirements of the RequestStateChange() method are specified in Table 17 and Table 18.

361 Invoking the DCIM_ComputerSystem.RequestStateChange() method multiple times could result in earlier
362 requests being overwritten or lost.

363 **Table 17 – DCIM_ComputerSystem.RequestStateChange( ) Method: Return Code Values**

Value	Description
0	Request was successfully executed.
2	Error occurred

364 **Table 18 – DCIM_ComputerSystem.RequestStateChange( ) Method: Parameters**

Qualifiers	Name	Type	Description/Values
IN, REQ	RequestedState	uint16	Valid state values : 2 (Enabled) 3 (Disabled) 11 (Reset)
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

365 **Table 19 – DCIM_ComputerSystem.RequestStateChange( ) Method: Standard Messages**

MessageID (OUT parameter)	Message	MessageArguments[]
SYS002	The command failed	
SYS003	Missing parameter(s) %s	RequestedState
SYS004	Invalid parameter value for %s	RequestedState
SYS021	The command failed to set %s	RequestedState

366 8.1.1 DCIM_ComputerSystem.RequestStateChange( ) Conditional Support

367 When the DCIM_CSEnabledLogicalElementCapabilities.RequestedStatesSupported property contains at
368 least one value, the DCIM_ComputerSystem.RequestStateChange() method shall be implemented and
369 supported. The DCIM_ComputerSystem.RequestStateChange() method shall not return a value of 1 (Not
370 Supported).

371 9 Use Cases

372 See *Lifecycle Controller (LC) Integration Best Practices Guide.*

373 10 CIM Elements

374 No additional details specified.

375 11 Privilege and License Requirement

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

379 **Table 20 – Privilege and License Requirements**

Class and Method	Operation	User Privilege Required	License Required
DCIM_ComputerSystem	ENUMERATE, GET	Login	None.
DCIM_ComputerSystem. RequestStateChange()	INVOKE	Login, System Control	None.
DCIM_ComputerSystemPackage	ENUMERATE, GET	Login	None.
DCIM_CSEnabledLogicalElementCapabilities	ENUMERATE, GET	Login	None.
DCIM_SystemComponent	ENUMERATE, GET	Login	None.
DCIM_CSElementCapabilities	ENUMERATE, GET	Login	None.
DCIM_Chassis	ENUMERATE, GET	Login	None.
DCIM_RegisteredProfile	ENUMERATE, GET	Login	None.
DCIM_ElementConformsToProfile	ENUMERATE, GET	Login	None.
DCIM_LCRegisteredProfile	ENUMERATE, GET	Login	None.
DCIM_LCElementConformsToProfile	ENUMERATE, GET	Login	None.

380