

iDRAC Card Profile

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CONTENTS

67			
68	1	Scope	7
69	2	Normative References.....	7
70	3	Terms and Definitions	8
71	4	Symbols and Abbreviated Terms	9
72	5	Synopsis.....	10
73	6	Description	11
74	7	Implementation Description.....	12
75	7.1	DCIM_iDRACCardView - iDrac View.....	12
76	7.2	DCIM_iDRACCardEnumeration	13
77	7.3	DCIM_iDRACCardString.....	16
78	7.4	DCIM_iDRACCardInteger.....	17
79	7.5	iDRAC Attributes.....	19
80	7.6	DCIM_iDRACCardService – iDRAC CardService.....	49
81	7.7	iDRAC Card Profile Profile Registration	50
82	8	Methods.....	51
83	8.1	DCIM_iDRACCardService.SetAttribute()	51
84	8.2	DCIM_iDRACCardService.SetAttributes()	54
85	8.3	DCIM_iDRACCardService.CreateTargetedConfigJob()	58
86	8.4	DCIM_iDRACCardService.DeletePendingConfiguration().....	61
87	8.5	DCIM_iDRACCardService.ApplyAttributes()	66
88	8.6	DCIM_iDRACCardService.SendTestEmailAlert()	68
89	8.7	DCIM_iDRACCardService.SendTestSNMPTrap()	70
90	9	Use Cases	73
91	10	CIM Elements.....	73
92	11	Privilege and License Requirement	73
93		ANNEX A (Informative) Privilege Information	80
94			

95 **Figures**

96 Figure 1 – iDRAC Card Profile Implementation 11
97

98 **Tables**

99 Table 1 – Related Profiles 10
100 Table 2 – Class Requirements: iDRAC Card Profile 12
101 Table 3 – DCIM_iDRACCardView - Operations 13
102 Table 4 – DCIM_iDRACCardView - Properties 13
103 Table 5 – DCIM_iDRACCardEnumeration - Operations 14
104 Table 6 – Class: DCIM_iDRACCardEnumeration 15
105 Table 7 – DCIM_iDRACCardString - Operations 16
106 Table 8 – Class: DCIM_iDRACCardString 17
107 Table 9 – DCIM_iDRACCardInteger - Operations 18
108 Table 10 – Class: DCIM_iDRACCardInteger 19
109 Table 11 – DCIM_iDRACCardEnumeration Active Directory 20
110 Table 12 – DCIM_iDRACCardString Active Directory 20
111 Table 13 – DCIM_iDRACCardInteger Active Directory 21
112 Table 14 – DCIM_iDRACCardString AD Group Configuration 21
113 Table 15 – DCIM_iDRACCardInteger AD Group Configuration 22
114 Table 16 – DCIM_iDRACCardEnumeration RAC Email Alert 22
115 Table 17 – DCIM_iDRACCardString RAC Email Alert 22
116 Table 18 – DCIM_iDRACCardString RAC Information 23
117 Table 19 – DCIM_iDRACCardEnumeration RAC Information 23
118 Table 20 – DCIM_iDRACCardEnumeration IP Blocking 24
119 Table 21 – DCIM_iDRACCardString IP Blocking 24
120 Table 22 – DCIM_iDRACCardInteger IP Blocking 24
121 Table 23 – DCIM_iDRACCardEnumeration IPMI Lan 25
122 Table 24 – DCIM_iDRACCardString IPMI Lan 25
123 Table 25 – DCIM_iDRACCardEnumeration IPMI Serial 25
124 Table 26 – DCIM_iDRACCardEnumeration IPMI Serial-over-LAN 26
125 Table 27 – DCIM_iDRACCardInteger IPMI Serial-over-LAN 26
126 Table 28 – DCIM_iDRACCardEnumeration IPv4 Information 27
127 Table 29 – DCIM_iDRACCardString IPv4 Information 27
128 Table 30 – DCIM_iDRACCardEnumeration IPv6 Information 28
129 Table 31 – DCIM_iDRACCardString IPv6 Information 28
130 Table 32 – DCIM_iDRACCardInteger IPv6 Information 29
131 Table 33 – DCIM_iDRACCardEnumeration LDAP 30
132 Table 34 – DCIM_iDRACCardString LDAP 30
133 Table 35 – DCIM_iDRACCardInteger LDAP 31
134 Table 36 – DCIM_iDRACCardString LDAP Group 31
135 Table 37 – DCIM_iDRACCardInteger LDAP Group 32
136 Table 38 – DCIM_iDRACCardEnumeration Local Security 32
137 Table 39 – DCIM_iDRACCardEnumeration NIC Information 33
138 Table 40 – DCIM_iDRACCardString NIC Information 33
139 Table 41 – DCIM_iDRACCardInteger NIC Information 34
140 Table 42 – DCIM_iDRACCardEnumeration OS-BMC Passthru Configuration 34

141	Table 43 – DCIM_iDRACCardEnumeration Remote Racadm Configuration.....	34
142	Table 44 – DCIM_iDRACCardInteger Remote Racadm Configuration	35
143	Table 45 – DCIM_iDRACCardString RAC Remote Hosts	35
144	Table 46 – DCIM_iDRACCardEnumeration RAC Certificate.....	35
145	Table 47 – DCIM_iDRACCardString RAC Certificate.....	36
146	Table 48 – DCIM_iDRACCardEnumeration Serial Configuration.....	36
147	Table 49 – DCIM_iDRACCardString Serial Configuration	37
148	Table 50 – DCIM_iDRACCardInteger Serial Configuration	37
149	Table 51 – DCIM_iDRACCardEnumeration RAC Serial Redirection	37
150	Table 52 – DCIM_iDRACCardString RAC Serial Redirection	38
151	Table 53 – DCIM_iDRACCardEnumeration Smart Card Configuration	38
152	Table 54 – DCIM_iDRACCardEnumeration SNMP Configuration.....	39
153	Table 55 – DCIM_iDRACCardString SNMP Configuration.....	39
154	Table 56 – DCIM_iDRACCardEnumeration SNMP Trap IPv4	39
155	Table 57 – DCIM_iDRACCardString SNMP Trap IPv4	39
156	Table 58 – DCIM_iDRACCardInteger SNMP Trap IPv4.....	40
157	Table 59 – DCIM_iDRACCardEnumeration SNMP Trap IPv6	41
158	Table 60 – DCIM_iDRACCardString SNMP Trap Ipv6.....	41
159	Table 61 – DCIM_iDRACCardInteger SNMP Trap Ipv6.....	41
160	Table 62 – DCIM_iDRACCardEnumeration RAC SSH	42
161	Table 63 – DCIM_iDRACCardInteger RAC SSH.....	42
162	Table 64 – DCIM_iDRACCardEnumeration Telnet Configuration	42
163	Table 65 – DCIM_iDRACCardInteger Telnet Configuration	43
164	Table 66 – DCIM_iDRACCardEnumeration Sys Log	43
165	Table 67 – DCIM_iDRACCardString Sys Log.....	43
166	Table 68 – DCIM_iDRACCardInteger Sys Log.....	44
167	Table 69 – DCIM_iDRACCardEnumeration Update.....	44
168	Table 70 – DCIM_iDRACCardString Update	44
169	Table 71 – DCIM_iDRACCardString User Domain.....	45
170	Table 72 – DCIM_iDRACCardEnumeration Users	45
171	Table 73 – DCIM_iDRACCardString iDRAC Users	46
172	Table 74 – DCIM_iDRACCardInteger iDRAC Users	46
173	Table 75 – DCIM_iDRACCardEnumeration Virtual Console Configuration	46
174	Table 76 – DCIM_iDRACCardInteger Virtual Console Configuration.....	47
175	Table 77 – DCIM_iDRACCardEnumeration Virtual Media Configuration.....	47
176	Table 78 – DCIM_iDRACCardEnumeration Web Server	48
177	Table 79 – DCIM_iDRACCardInteger Web Server.....	48
178	Table 80 – DCIM_iDRACCardInteger Time Zone Configuration Information.....	48
179	Table 81 – DCIM_iDRACCardEnumeration Remote File Share	49
180	Table 10 – DCIM_IDRACCardService - Operations.....	49
181	Table 11 – DCIM_IDRACCardService - Properties	50
182	Table 18 – DCIM_LCRegisteredProfile - Operations.....	50
183	Table 19 – DCIM_LCRegisteredProfile - Properties.....	51
184	Table 82 – SetAttribute() Method: Return Code Values.....	52
185	Table 83 – SetAttribute() Method: Parameters.....	52
186	Table 84 – SetAttribute() Method: Standard Messages	52
187	Table 85 – SetAttributes() Method: Return Code Values.....	55
188	Table 86 – SetAttributes() Method: Parameters.....	55
189	Table 87 – SetAttributes() Method: Standard Messages	56

190	Table 88 – CreateTargetedConfigJob() Method: Return Code Values	58
191	Table 89 – CreateTargetedConfigJob() Method: Parameters	58
192	Table 90 – CreateTargetedConfigJob() Method: Standard Messages	59
193	Table 91 – DeletePendingConfiguration() Method: Return Code Values	61
194	Table 92 – DeletePendingConfiguration() Method: Parameters	63
195	Table 93 – DeletePendingConfiguration() Method: Standard Messages.....	63
196	Table 94 – ApplyAttributes() Method: Return Code Values.....	66
197	Table 95 – ApplyAttributes() Method: Parameters.....	66
198	Table 97 – ApplyAttributes() Method: Standard Messages.....	66
199	Table 98 – SendTestEmailAlert() Method: Return Code Values.....	68
200	Table 99 – SendTestEmailAlert () Method: Parameters	68
201	Table 100 – SendTestEmailAlert () Method: Standard Messages	68
202	Table 101 – SendTestSNMPTrap() Method: Return Code Values	70
203	Table 102 – SendTestSNMPTrap() Method: Parameters	71
204	Table 103 – SendTestSNMPTrap() Method: Standard Messages.....	71
205	Table 104 – Privilege and License Requirements	73
206	Table 105 – Privilege Bit Mask	80
207		

209 **1 Scope**

210 The DCIM iDRAC Card Profile describes the properties and interfaces for executing system management
211 tasks related to the management of basic properties of iDRAC card. The profile standardizes and
212 aggregates the description for the remote access card properties into a iDRAC view and iDRAC attribute
213 representation, and provides static methodology for the clients to query the iDRAC views and set the
214 iDRAC attributes without substantial traversal of the model.

215

216 **2 Normative References**

217 Refer to the following documents for more information.

218 **NOTE:** For dated references, only the edition cited applies. For undated references, the latest edition of
219 the referenced document (including any amendments) applies.

- 220 • DMTF DSP1033, *Profile Registration Profile 1.0.0*
- 221 • DMTF DSP0226, *Web Services for Management (WS-Management) Specification 1.1.0*
- 222 • DMTF DSP0227, *WS-Management CIM Binding Specification 1.0.0*
- 223 • *Dell Lifecycle Controller Best Practices Guide 1.0,*
224 http://en.community.dell.com/techcenter/extras/m/white_papers/20066173.aspx
- 225 • *Dell WSMAN Licenses and Privileges 1.0*
- 226 • *Intelligent Platform Management Interface Specification v2.0,*
227 http://download.intel.com/design/servers/ipmi/IPMIv2_0rev1_0.pdf
- 228 • Dell Tech Center MOF Library:
 - 229 ○ <http://www.delltechcenter.com/page/DCIM.Library.MOF>
- 230 • Related Managed Object Format (MOF) files:
 - 231 ○ DCIM_iDRACCardView.mof
 - 232 ○ DCIM_iDRACCardAttribute.mof
 - 233 ○ DCIM_iDRACCardInteger.mof
 - 234 ○ DCIM_iDRACCardService.mof
 - 235 ○ DCIM_iDRACCardEnumeration.mof
 - 236 ○ DCIM_iDRACCardString.mof
 - 237 ○ DCIM_LCEnumeration.mof
 - 238 ○ DCIM_LCRegisteredProfile.mof

239

240 **3 Terms and Definitions**

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

242 **3.1**

243 **can** - Used for statements of possibility and capability, whether material, physical, or causal.

244 **3.2**

245 **cannot** - Used for statements of possibility and capability, whether material, physical, or causal.

246 **3.3**

247 **conditional** - Indicates requirements to be followed strictly in order to conform to the document when the
248 specified conditions are met.

249 **3.4**

250 **mandatory** - Indicates requirements to be followed strictly in order to conform to the document and from
251 which no deviation is permitted.

252 **3.5**

253 **may** - Indicates a course of action permissible within the limits of the document.

254 **3.6**

255 **need not** - Indicates a course of action permissible within the limits of the document.

256 **3.7**

257 **optional** - Indicates a course of action permissible within the limits of the document.

258 **3.8**

259 **referencing profile** - Indicates a profile that owns the definition of this class and can include a reference
260 to this profile in its "Related Profiles" table.

261 **3.9**

262 **shall** - Indicates requirements to be followed strictly in order to conform to the document and from which
263 no deviation is permitted

264 **3.10**

265 **shall not** – Indicates requirements to be followed strictly in order to conform to the document and from
266 which no deviation is permitted.

267 **3.11**

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

270 **3.12**

271 **should not** – Indicates that a certain possibility or course of action is deprecated but not prohibited.

272 **3.13**
273 **Interop Namespace: root/interop**
274 Interop Namespace: root/interop is where instrumentation instantiates classes to advertise its capabilities
275 for client discovery.

276 **3.14**
277 **Implementation Namespace: root/dcim**
278 Implementation Namespace: root/dcim is where instrumentation instantiates classes relevant to executing
279 core management tasks.

280 **3.15**
281 **ENUMERATE** – Refers to WS-MAN **ENUMERATE** operation as described in Section 8.2 of
282 DSP0226_V1.1 and Section 9.1 of DSP0227_V1.0

283 **3.16**
284 **GET** – Refers to WS-MAN **GET** operation as defined in Section 7.3 of DSP00226_V1.1 and Section
285 7.1 of DSP0227_V1.0

286 **4 Symbols and Abbreviated Terms**

287 **4.1**
288 **CIM** - Common Information Model

289 **4.2**
290 **iDRAC** - Integrated Dell Remote Access Controller – management controller for blades and monolithic
291 servers

292 **4.3**
293 **CMC** - Chassis Manager Controller – management controller for the modular chassis

294 **4.4**
295 **WBEM** - Web-Based Enterprise Management

296 **4.5**
297 **SSO** - Single Sign On

298 **4.6**
299 **CSR** - Certificate Signing Request

300
301
302

303 **5 Synopsis**

304 **Profile Name:** iDRAC Card

305 **Version:** 1.2.0

306 **Organization:** Dell

307 **CIM Schema Version:** 2.26 Experimental

308 **Dell Schema Version:** 1.0.0

309 **Interop Namespace:** root/interop

310 **Implementation Namespace:** root/dcim

311 **Central Class:** DCIM_iDRACCardView

312 **Scoping Class:** DCIM_ComputerSystem

313 The Dell iDRAC Card Profile is a component profile that contains the Dell specific implementation
314 requirements for remote access card view.

315 DCIM_iDRACCardView shall be the Central Class.

316 Table 1 identifies profiles that are related to this profile.

317

Table 1 – Related Profiles

Profile Name	Organization	Version	Relationship
Profile Registration Profile	DCIM	1.0	Mandatory
Dell Job Control	DCIM	1.0	Mandatory

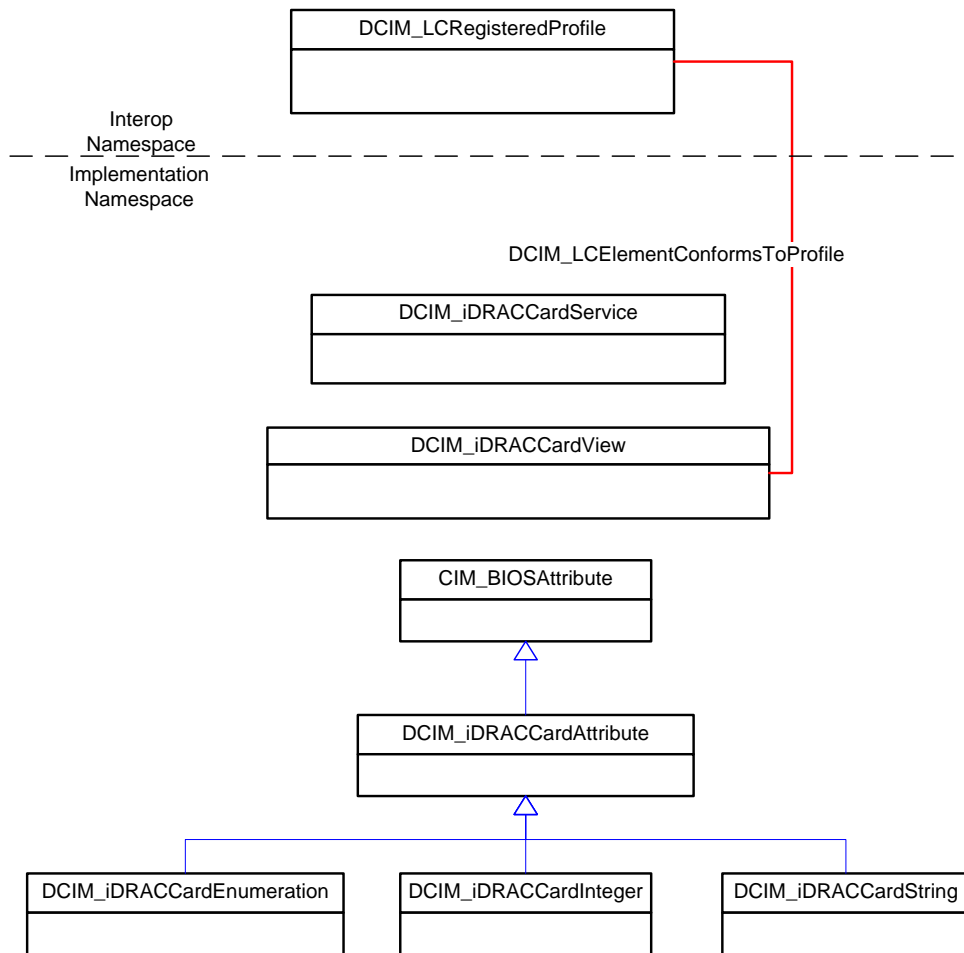
318 **6 Description**

319 The Dell iDRAC Card Profile describes the platform's iDRAC remote access
 320 card's information is represented by an instance of DCIM_iDRACCardView class.

321 Figure 1 details typical Dell iDRAC Card Profile implementation for a platform with iDRAC remote access
 322 card. For the client to discover the instrumentation's support of this profile, iDracProfile is instantiated in
 323 the Interop Namespace:root/dcim.

324 The DCIM_LCRegisteredProfile instance describes the information about the implemented profile-most
 325 importantly, the name and version of the profile and the organization name that produced the profile.

326



327

328

Figure 1 – iDRAC Card Profile Implementation

329 7 Implementation Description

330 This section describes the requirements and guidelines for implementing Dell iDRAC Card Profile.

331 **Table 2 – Class Requirements: iDRAC Card Profile**

Element Name	Requirement	Description
Classes		
DCIM_iDRACCardView	Mandatory	The class shall be implemented in the <i>Implementation Namespace: root/dcim</i> . [1] See section 7.1.
DCIM_iDRACCardEnumeration	Mandatory	The class shall be implemented in the <i>Implementation Namespace: root/dcim</i> . [2] See section 7.2.
DCIM_iDRACCardString	Mandatory	The class shall be implemented in the <i>Implementation Namespace: root/dcim</i> . [3] See section Error! Reference source not found..
DCIM_iDRACCardInteger	Mandatory	The class shall be implemented in the <i>Implementation Namespace: root/dcim</i> . [4] See section Error! Reference source not found..
DCIM_iDRACCardService	Mandatory	The class shall be implemented in the <i>Implementation Namespace: root/dcim</i> . [5] See section 7.6.
DCIM_LCElementConformsToProfile	Mandatory	The class shall be implemented in the <i>Implementation Namespace: root/dcim</i> .
DCIM_LCElementConformsToProfile	Mandatory	The class shall be implemented in the <i>Interop Namespace: root/interop</i> .
DCIM_LCRegisteredProfile	Mandatory	The class shall be implemented in the <i>Interop Namespace: root/interop</i> . [6] See section 7.7.
Indications		
None defined in this profile		

332

333 7.1 DCIM_iDRACCardView - iDrac View

334 This section describes the implementation for the DCIM_iDRACCardView class.

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

336 The DCIM_LCElementConformsToProfile association(s) shall reference the DCIM_iDRACCardView
337 instance(s).

338 7.1.1 Resource URIs for WinRM®

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

341 The key property shall be the InstanceID.

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

345 7.1.2 Operations

346 The following table lists the implemented operations on DCIM_iDRACCardView.

347 **Table 3 – DCIM_iDRACCardView - Operations**

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

348

349 7.1.3 Class Properties

350 The following table details the implemented properties for DCIM_iDRACCardView instance representing
 351 a remote access card in a system. The "Requirements" column shall denote whether the property is
 352 implemented (for requirement definitions, see section 3). The "Additional Requirements" column shall
 353 denote either possible values for the property, or requirements on the value formulation.

354 **Table 4 – DCIM_iDRACCardView - Properties**

Property Name	Requirements	Type	Requirement and description
InstanceID	Mandatory	string	The property value shall be unique key value.
FQDD	Mandatory	string	A string containing the Fully Qualified Device Description, a user-friendly name for the object.
IPMIVersion	Mandatory	string	A string containing the IPMI Version.
GUID	Mandatory	string	A string containing the GUID for iDRAC.
LANEnabledState	Mandatory	uint16	LAN enabled state.
SOLEnabledState	Mandatory	uint16	SOL enabled state
PermanentMACAddress	Mandatory	string	A string containing the permanent MAC address.
FirmwareVersion	Mandatory	string	A string containing the iDRAC firmware Version.
Model	Mandatory	string	A string containing the iDRAC model.
ProductDescription	Mandatory	string	A string containing the iDRAC's purpose and short description.
URLString	Mandatory	string	A string containing the URL for the iDRAC Web GUI.
LastSystemInventoryTime	Mandatory	string	This property provides the last time "System \Inventory Collection On Reboot(CSIOR)" was performed. The value is represented as yyyyymmddHHMMSS.
LastUpdateTime	Mandatory	string	This property provides the last time the data was updated. The value is represented as yyyyymmddHHMMSS

355 7.2 DCIM_iDRACCardEnumeration

356 This section describes the implementation for the DCIM_iDRACCardEnumeration class.

357 Each DCIM_iDRACCardEnumeration instance is logically associated to a DCIM_iDRACCardView
 358 instance, where the DCIM_iDRACCardEnumeration.FQDD property is equal to the FQDD property on
 359 the DCIM_iDRACCardView instance.

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

361 **7.2.1 Resource URIs for WinRM®**

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

364 The key property shall be the InstanceID.

365 The instance Resource URI for DCIM_iDRACCardEnumeration instance shall be:
 366 “http://schemas.dell.com/wbem/wscim/1/cim-
 367 schema/2/DCIM_iDRACCardEnumeration?__cimnamespace=root/dcim+InstanceID=
 368 <FQDD>#<GroupID>#<AttributeName>”

369 **7.2.2 Operations**

370 The following table lists the implemented operations on DCIM_iDRACCardEnumeration.

371 **Table 5 – DCIM_iDRACCardEnumeration - Operations**

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

372 **7.2.3 Class Properties**

373 The following table details the implemented properties for DCIM_iDRACCardEnumeration instance
 374 representing a iDRAC Card enumeration attribute. The “Requirements” column shall denote whether the
 375 property is implemented (for requirement definitions, see section 3). The “Additional Requirements”
 376 column shall denote either possible values for the property, or requirements on the value formulation.

Table 6 – Class: DCIM_iDRACCardEnumeration

Properties	Type	Notes	Additional Requirements
InstanceID	String	Mandatory	The property value shall be formed as follows: “<FQDD property value>#<GroupID>#<AttributeName property value>”.
AttributeName	String	Mandatory	The property value shall be from the “AttributeName” column in Tables in section 7.5.
AttributeDisplayName	String	Mandatory	The property value shall be from the “AttributeDisplayName” column in Tables in section 7.5.
GroupID	String	Mandatory	See section 7.5.
GroupDisplayName	String	Mandatory	See section 7.5.
CurrentValue[]	String	Mandatory	The property value shall be one of the values in the “PossibleValues” column at the corresponding row in Tables in section 7.5.
PendingValue[]	String	Mandatory	The property value shall be one of the values in the “PossibleValues” column at the corresponding row in Tables in section 7.5.
DefaultValue[]	String	Mandatory	The property value shall represent the default value of the attribute.
IsReadOnly	Boolean	Mandatory	The property value shall be from the “IsReadOnly” column in Tables in section 7.5.
FQDD	String	Mandatory	FQDD of the iDRAC that the attribute belongs to.
DisplayOrder	uint16	Mandatory	The property shall represent the sequence number denoting the preferred placement of the attribute in the list of all iDRAC attributes.
Dependency	String	Optional	The property shall be formatted as XML describing the attributes dependence on other attribute(s).
PossibleValues[]	String	Mandatory	The property value shall be equal to the array of the values in “PossibleValues” column at the corresponding row in in Tables in section 7.5.

380 **7.3 DCIM_iDRACCardString**

381 This section describes the implementation for the DCIM_iDRACCardString class.

382 Each DCIM_iDRACCardString instance is logically associated to a DCIM_iDRACCardView instance,
383 where the DCIM_iDRACCardString.FQDD property is equal to the FQDD property on the
384 DCIM_iDRACCardView instance.

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

386 **7.3.1 Resource URIs for WinRM®**

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

389 The key property shall be the InstanceID.

390 The instance Resource URI for DCIM_iDRACCardString instance shall be:

391 “http://schemas.dell.com/wbem/wscim/1/cim-
392 schema/2/DCIM_iDRACCardString?__cimnamespace=root/dcim+InstanceID=<FQDD>#<GroupID>#<Attr
393 tributeName>”

394 **7.3.2 Operations**

395 The following table lists the implemented operations on DCIM_iDRACCardString.

396 **Table 7 – DCIM_iDRACCardString - Operations**

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

397 **7.3.3 Class Properties**

398 The following table details the implemented properties for DCIM_iDRACCardString instance representing
399 a iDRAC string attribute. The “Requirements” column shall denote whether the property is implemented
400 (for requirement definitions, see section 3). The “Additional Requirements” column shall denote either
401 possible values for the property, or requirements on the value formulation.

Table 8 – Class: DCIM_iDRACCardString

Properties	Type	Notes	Additional Requirements
InstanceID	String	Mandatory	The property value shall be formed as follows: “<FQDD property value>#<GroupID>#<AttributeName property value>”.
AttributeName	String	Mandatory	The property value shall be from the “AttributeName” column in Tables in section 7.5.
AttributeDisplayName	String	Mandatory	The property value shall be from the “AttributeDisplayName” column in in Tables in section 7.5.
GroupID	String	Mandatory	See section 7.5.
GroupDisplayName	String	Mandatory	See section 7.5.
CurrentValue[]	String	Mandatory	The property value shall represent the current value of the attribute.
PendingValue[]	String	Mandatory	The property value shall represent the current 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 from the “IsReadOnly” column in Tables in section 7.5.
FQDD	String	Mandatory	FQDD of the iDRAC that the attribute belongs to.
DisplayOrder	uint16	Mandatory	The property shall represent the sequence number denoting the preferred placement of the attribute in the list of all iDRAC attributes.
Dependency	String	Optional	The property shall be formatted as XML describing the attributes dependence on other attribute(s).
MinLength	uint64	Mandatory	The property value shall be the value in the “MinLength” column at the corresponding row in in Tables in section 7.5. 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 in Tables in section 7.5 The omission or NULL shall denote that no known constraint exists on the CurrentValue and PendingValue properties.

403 7.4 DCIM_iDRACCardInteger

404 This section describes the implementation for the DCIM_iDRACCardInteger class.

405 Each DCIM_iDRACCardInteger instance is logically associated to a DCIM_iDRACCardView instance,
406 where the DCIM_iDRACCardInteger.FQDD property is equal to the FQDD property on the
407 DCIM_iDRACCardView instance.

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

409 7.4.1 Resource URIs for WinRM®

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

412 The key property shall be the InstanceID.

413 The instance Resource URI for DCIM_iDRACCardInteger instance shall be:

414 "http://schemas.dell.com/wbem/wscim/1/cim-

415 schema/2/DCIM_iDRACCardInteger?__cimnamespace=root/dcim+InstanceID=<FQDD>#<GroupID>#<At-
416 tributeName>"

417 7.4.2 Operations

418 The following table lists the implemented operations on DCIM_iDRACCardInteger.

419 **Table 9 – DCIM_iDRACCardInteger - Operations**

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

420

421 7.4.3 Class Properties

422 The following table details the implemented properties for DCIM_iDRACCardInteger instance

423 representing a iDRAC integer attribute. The "Requirements" column shall denote whether the property is

424 implemented (for requirement definitions, see section 3). The "Additional Requirements" column shall

425 denote either possible values for the property, or requirements on the value formulation.

Table 10 – Class: DCIM_iDRACCardInteger

Properties	Type	Requirement	Additional Requirements
InstanceID	String	Mandatory	The property value shall be formed as follows: “<FQDD property value>#<GroupID>#<AttributeName property value>”.
AttributeName	String	Mandatory	The property value shall be from the “AttributeName” column in Tables in section 7.5.
AttributeDisplayName	String	Mandatory	The property value shall be from the “AttributeDisplayName” column in Tables in section 7.5.
GroupID	String	Mandatory	See section 7.5.
GroupDisplayName	String	Mandatory	See section 7.5.
CurrentValue[]	String	Mandatory	The property value shall be one of the values in the “PossibleValues” column at the corresponding row in Tables in section 7.5.
PendingValue[]	String	Mandatory	The property value shall be one of the values in the “PossibleValues” column at the corresponding row in Tables in section 7.5.
DefaultValue[]	String	Mandatory	The property value shall represent the default value of the attribute.
IsReadOnly	Boolean	Mandatory	The property value shall be from the “IsReadOnly” column in Tables in section 7.5.
FQDD	String	Mandatory	FQDD of the iDRAC that the attribute belongs to.
DisplayOrder	uint16	Mandatory	The property shall represent the sequence number denoting the preferred placement of the attribute in the list of all iDRAC attributes.
Dependency	String	Optional	The property shall be formatted as XML describing the attributes dependence on other attribute(s).
LowerBound	uint64	Mandatory	The property value shall be the value in the “LowerBound” column at the corresponding row in Tables in section 7.5. The omission or NULL shall denote that no known constraint exists on the CurrentValue and PendingValue properties.
UpperBound	uint64	Mandatory	The property value shall be the value in the “UpperBound” column at the corresponding row in Tables in section 7.5. The omission or NULL shall denote that no known constraint exists on the CurrentValue and PendingValue properties.

428 **7.5 iDRAC Attributes**

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

430 **7.5.1 Active Directory**

431 This section describes the attributes for iDRAC’s Active Directory Configuration.

432 The GroupID property for the DCIM_iDRACCardEnumeration, DCIM_iDRACCardString, and
 433 DCIM_iDRACCardInteger shall be "ActiveDirectory.1".

434 The GroupDisplayName property for the DCIM_iDRACCardEnumeration, DCIM_iDRACCardString, and
 435 DCIM_iDRACCardInteger shall be "Active Directory".

436 The following table describes the values for the DCIM_iDRACCardEnumeration of this group. Each
 437 column heading corresponds to a property name on the DCIM_iDRACCardEnumeration class. The
 438 Description column contains the description for each of the attribute. Each row contains the values for the
 439 properties listed in the column headings. The PossibleValues property is an array property represented in
 440 the table as comma delimited list.

441 **Table 11 – DCIM_iDRACCardEnumeration Active Directory**

AttributeName	AttributeDisplayName	IsReadOnly	Display Order	PossibleValues
Enable	Active Directory Enable	FALSE	771	"Disabled", "Enabled"
Schema	Active Directory Schema Type	FALSE	775	"Extended Schema", "Standard Schema"
CertValidationEnable	Certificate Validation Enable	FALSE	782	"Disabled", "Enabled"
SSOEnable	SSO Enable	FALSE	1063	"Disabled", "Enabled"
DCLookupEnable	Domain Controller Lookup Enable	FALSE	785	"Disabled", "Enabled"
DCLookupByUserDomain	Domain Controller Lookup By User Domain	FALSE	788	"Disabled", "Enabled"
GCLookupEnable	Global Catalog Server Lookup Enable	FALSE	784	"Disabled", "Enabled"

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

446 **Table 12 – DCIM_iDRACCardString Active Directory**

AttributeName	Attribute Description	IsReadOnly	Display Order	MinLength	MaxLength
RacName	Active Directory RAC Name	FALSE	772	0	254
RacDomain	Active Directory RAC Domain	FALSE	773	0	254
DomainController1	Domain Controller 1	FALSE	776	0	254
DomainController2	Domain Controller 2	FALSE	777	0	254
DomainController3	Domain Controller 3	FALSE	778	0	254
GlobalCatalog1	Global Catalog 1	FALSE	779	0	254
GlobalCatalog2	Global Catalog 2	FALSE	780	0	254
GlobalCatalog3	Global Catalog 3	FALSE	781	0	254

AttributeName	Attribute Description	IsReadOnly	Display Order	MinLength	MaxLength
DCLookupDomainName	Active Directory Lookup Domain Name	FALSE	787	0	254
GCRootDomain	Active Directory Root Domain	FALSE	786	0	254

447 The following table describes the values for the DCIM_iDRACCardInteger of this group. Each column
 448 heading corresponds to a property name on the DCIM_iDRACCardInteger class. Each row contains the
 449 values for the properties listed in the column headings.

450 **Table 13 – DCIM_iDRACCardInteger Active Directory**

AttributeName	AttributeDisplayName	IsReadOnly	Display Order	LowerBound	UpperBound
AuthTimeout	Active Directory Authentication Timeout	FALSE	774	15	300

451 7.5.2 Active Directory Group Configuration

452 This section describes the attributes for iDRAC's Active Directory Group Configuration.

453 The GroupID property for the DCIM_iDRACCardEnumeration, DCIM_iDRACCardString, and
 454 DCIM_iDRACCardInteger shall be "ADGroup.<#>" where "<#>" is a number 1 through 5.

455 The GroupDisplayName property for the DCIM_iDRACCardEnumeration, DCIM_iDRACCardString, and
 456 DCIM_iDRACCardInteger shall be "AD Group Configuration".

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

461 **Table 14 – DCIM_iDRACCardString AD Group Configuration**

AttributeName	Attribute Description	IsReadOnly	Display Order	MinLength	MaxLength
Name	AD Role Group Name	FALSE	801, 811, 821, 831, 841	0	254
Domain	AD Group Domain	FALSE	802, 812, 822, 832, 842	0	254

462 The following table describes the values for the DCIM_iDRACCardInteger of this group. Each column
 463 heading corresponds to a property name on the DCIM_iDRACCardInteger class. Each row contains the
 464 values for the properties listed in the column headings.

465

Table 15 – DCIM_iDRACCardInteger AD Group Configuration

AttributeName	AttributeDisplayName	IsReadOnly	Display Order	LowerBound	UpperBound
Privilege	AD Group Privilege	FALSE	803, 813, 823, 833, 843,	0	511

466 **7.5.3 Email Alert**

467 This section describes the attributes for iDRAC’s Email Alert Configuration.

468 The GroupID property for the DCIM_iDRACCardEnumeration, DCIM_iDRACCardString, and
469 DCIM_iDRACCardInteger shall be “EmailAlert.<#>” where <#> is a number 1 through 4.

470 The GroupDisplayName property for the DCIM_iDRACCardEnumeration, DCIM_iDRACCardString, and
471 DCIM_iDRACCardInteger shall be “RAC Email Alert”.

472 The following table describes the values for the DCIM_iDRACCardEnumeration of this group. Each
473 column heading corresponds to a property name on the DCIM_iDRACCardEnumeration class. The
474 Description column contains the description for each of the attribute. Each row contains the values for the
475 properties listed in the column headings. The PossibleValues property is an array property represented in
476 the table as comma delimited list.

477 **Table 16 – DCIM_iDRACCardEnumeration RAC Email Alert**

AttributeName	AttributeDisplayName	IsReadOnly	Display Order	PossibleValues
Enable	Enable Email Alerts	FALSE	471, 491, 511, 521	“Disabled”, “Enabled”

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

482 **Table 17 – DCIM_iDRACCardString RAC Email Alert**

AttributeName	Attribute Description	IsReadOnly	Display Order	MinLength	MaxLength
Address	Email Alert Address	FALSE	472, 492, 512, 522	0	64
CustomMsg	Email Alert Custom Message	FALSE	473, 493, 513, 523	0	32

483 **7.5.4 iDRAC Information**

484 This section describes the attributes for iDRAC’s Active Directory Configuration.

485 The GroupID property for the DCIM_iDRACCardEnumeration, DCIM_iDRACCardString, and
 486 DCIM_iDRACCardInteger shall be “Info.1”.

487 The GroupDisplayName property for the DCIM_iDRACCardEnumeration, DCIM_iDRACCardString, and
 488 DCIM_iDRACCardInteger shall be “RAC Information”.

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

493 **Table 18 – DCIM_iDRACCardString RAC Information**

AttributeName	Attribute Description	IsReadOnly	Display Order	MinLength	MaxLength
Product	iDRAC Product Information	TRUE	1	0	63
Description	iDRAC Description Information	TRUE	2	0	255
Version	iDRAC Version Information	TRUE	3	0	63
Build	iDRAC Build Information	TRUE	4	0	16
Name	iDRAC Name	TRUE	5	0	15

494 The following table describes the values for the DCIM_iDRACCardEnumeration of this group. Each
 495 column heading corresponds to a property name on the DCIM_iDRACCardEnumeration class. The
 496 Description column contains the description for each of the attribute. Each row contains the values for the
 497 properties listed in the column headings. The PossibleValues property is an array property represented in
 498 the table as comma delimited list.

499 **Table 19 – DCIM_iDRACCardEnumeration RAC Information**

AttributeName	AttributeDisplayName	IsReadOnly	Display Order	PossibleValues
Type	iDRAC Type	TRUE	6	“12G Monolithic”, “12G Modular”

500 **7.5.5 IP Blocking**

501 This section describes the attributes for iDRAC’s IP Blocking Configuration.

502 The GroupID property for the DCIM_iDRACCardEnumeration, DCIM_iDRACCardString, and
 503 DCIM_iDRACCardInteger shall be “IPBlocking.1”.

504 The GroupDisplayName property for the DCIM_iDRACCardEnumeration, DCIM_iDRACCardString, and
 505 DCIM_iDRACCardInteger shall be “IP Blocking”.

506 The following table describes the values for the DCIM_iDRACCardEnumeration of this group. Each
 507 column heading corresponds to a property name on the DCIM_iDRACCardEnumeration class. The
 508 Description column contains the description for each of the attribute. Each row contains the values for the
 509 properties listed in the column headings. The PossibleValues property is an array property represented in
 510 the table as comma delimited list.

511

Table 20 – DCIM_iDRACCardEnumeration IP Blocking

AttributeName	AttributeDisplayName	IsReadOnly	Display Order	PossibleValues
RangeEnable	Tune IP Range Enable	FALSE	721	“Disabled”, “Enabled”
BlockEnable	Tune IP Range Enable	FALSE	724	“Disabled”, “Enabled”

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

516

Table 21 – DCIM_iDRACCardString IP Blocking

AttributeName	AttributeDisplayName	IsReadOnly	Display Order	MinLength	MaxLength
RangeAddr	Tune IP Range Address	FALSE	722	0	16
RangeMask	Tune IP Range Mask	FALSE	723	0	16

517 The following table describes the values for the DCIM_iDRACCardInteger of this group. Each column
 518 heading corresponds to a property name on the DCIM_iDRACCardInteger class. Each row contains the
 519 values for the properties listed in the column headings.

520

Table 22 – DCIM_iDRACCardInteger IP Blocking

AttributeName	AttributeDisplayName	IsReadOnly	Display Order	LowerBound	UpperBound
FailCount	Tune IP Block Fail Count	FALSE	731	2	16
FailWindow ¹	Tune IP Block Fail Window	FALSE	732	10	65535
PenaltyTime	Tune IP Block Penalty Time	FALSE	733	2	65535

521 NOTE: 1 – Defines the time span (in seconds) that the failed attempts are counted. When failure attempts age
 522 beyond this limit, they are dropped from the count.

523 7.5.6 IPMI LAN

524 This section describes the attributes for iDRAC’s IPMI LAN Configuration.

525 The GroupID property for the DCIM_iDRACCardEnumeration, DCIM_iDRACCardString, and
 526 DCIM_iDRACCardInteger shall be “IPMILan.1”.

527 The GroupDisplayName property for the DCIM_iDRACCardEnumeration, DCIM_iDRACCardString, and
 528 DCIM_iDRACCardInteger shall be “IPMI LAN Information”.

529 The following table describes the values for the DCIM_iDRACCardEnumeration of this group. Each
 530 column heading corresponds to a property name on the DCIM_iDRACCardEnumeration class. The
 531 Description column contains the description for each of the attribute. Each row contains the values for the
 532 properties listed in the column headings. The PossibleValues property is an array property represented in
 533 the table as comma delimited list.

534

Table 23 – DCIM_iDRACCardEnumeration IPMI Lan

AttributeName	AttributeDisplayName	IsReadOnly	Display Order	PossibleValues
Enable	Enable or Disable IPMI over LAN	FALSE	201	“Disabled”, “Enabled”
PrivLimit	Privilege Limit	FALSE	202	“Administrator”, “User”, “Operator”
AlertEnable	Enable or Disable Alerts over LAN	FALSE	205	“Disabled”, “Enabled”

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

539

Table 24 – DCIM_iDRACCardString IPMI Lan

AttributeName	AttributeDisplayName	IsReadOnly	Display Order	MinLength	MaxLength
EncryptionKey	Encryption Key	FALSE	203	0	20
CommunityName	Community Name	FALSE	204	0	18

540 **7.5.7 IPMI Serial**

541 This section describes the attributes for iDRAC’s IPMI Serial Configuration.

542 The GroupID property for the DCIM_iDRACCardEnumeration, DCIM_iDRACCardString, and
 543 DCIM_iDRACCardInteger shall be “IPMISerial.1”.

544 The GroupDisplayName property for the DCIM_iDRACCardEnumeration, DCIM_iDRACCardString, and
 545 DCIM_iDRACCardInteger shall be “RAC IPMI Serial”.

546 The following table describes the values for the DCIM_iDRACCardEnumeration of this group. Each
 547 column heading corresponds to a property name on the DCIM_iDRACCardEnumeration class. The
 548 Description column contains the description for each of the attribute. Each row contains the values for the
 549 properties listed in the column headings. The PossibleValues property is an array property represented in
 550 the table as comma delimited list.

551

Table 25 – DCIM_iDRACCardEnumeration IPMI Serial

AttributeName	AttributeDisplayName	IsReadOnly	Display Order	PossibleValues
ConnectionMode	IPMI Serial Connection Mode	FALSE	621	“Basic”, “Terminal”
BaudRate	IPMI Serial Baud Rate	FALSE	622	9600, 19200, 57600, 115200
FlowControl	IPMI Serial Flow Control	FALSE	623	“None”, “CTS/RTS”
ChanPrivLimit	IPMI Serial Channel Privilege Limit	FALSE	624	“Administrator”, “User”, “Operator”
LineEdit	IPMI Serial Line Edit	FALSE	625	“Disabled”, “Enabled”
DeleteControl ¹	IPMI Serial Delete Control	FALSE	626	“Disabled”, “Enabled”

AttributeName	AttributeDisplayName	IsReadOnly	Display Order	PossibleValues
EchoControl ²	IPMI Serial Echo Control	FALSE	627	“Disabled”, “Enabled”
HandshakeControl	IPMI Serial Handshake Control	FALSE	628	“Disabled”, “Enabled”
NewLineSeq	IPMI Serial New Line Sequence	FALSE	629	None, CR-LF, NULL, CR, LF-CR, LF
InputNewLineSeq	IPMI Serial Input New Line Sequence	FALSE	630	Enter, Null

552 NOTE: 1 – Enables or disables delete control on the IPMI serial interface. See *Intelligent Platform Management*
553 *Interface Specification* for more details.

554 NOTE: 2 – Enables or disables echo control on the IPMI serial interface. See *Intelligent Platform Management*
555 *Interface Specification* for more details.

556 7.5.8 IPMI Serial-over-LAN

557 This section describes the attributes for iDRAC’s IPMI SOL Configuration.

558 The GroupID property for the DCIM_iDRACCardEnumeration, DCIM_iDRACCardString, and
559 DCIM_iDRACCardInteger shall be “IPMISOL.1”.

560 The GroupDisplayName property for the DCIM_iDRACCardEnumeration, DCIM_iDRACCardString, and
561 DCIM_iDRACCardInteger shall be “IPMI SOL”.

562 The following table describes the values for the DCIM_iDRACCardEnumeration of this group. Each
563 column heading corresponds to a property name on the DCIM_iDRACCardEnumeration class. The
564 Description column contains the description for each of the attribute. Each row contains the values for the
565 properties listed in the column headings. The PossibleValues property is an array property represented in
566 the table as comma delimited list.

567 **Table 26 – DCIM_iDRACCardEnumeration IPMI Serial-over-LAN**

AttributeName	AttributeDisplayName	IsReadOnly	Display Order	PossibleValues
Enable	IPMI SOL Enable	FALSE	641	“Disabled”, “Enabled”
BaudRate	IPMI SOL Baud Rate	FALSE	642	9600, 19200, 57600, 115200
MinPrivilege	IPMI SOL Min Privilege	FALSE	633	“Administrator”, “User”, “Operator”

568 The following table describes the values for the DCIM_iDRACCardInteger of this group. Each column
569 heading corresponds to a property name on the DCIM_iDRACCardInteger class. Each row contains the
570 values for the properties listed in the column headings.

571 **Table 27 – DCIM_iDRACCardInteger IPMI Serial-over-LAN**

AttributeName	AttributeDisplayName	IsReadOnly	Display Order	LowerBound	UpperBound
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AccumulateInterval ¹	IPMI SOL Accumulate Interval	FALSE	644	1	255
SendThreshold	IPMI SOL Send Threshold	FALSE	645	1	255

572 NOTE: 1 – The typical amount of time in 5 ms increments that the BMC will wait before transmitting a partial SOL
573 character data packet. See *Intelligent Platform Management Interface Specification* for more details.

574 7.5.9 IPv4 Information

575 This section describes the attributes for iDRAC's Active Directory Configuration.

576 The GroupID property for the DCIM_iDRACCardEnumeration, DCIM_iDRACCardString, and
577 DCIM_iDRACCardInteger shall be "IPv4.1".

578 The GroupDisplayName property for the DCIM_iDRACCardEnumeration, DCIM_iDRACCardString, and
579 DCIM_iDRACCardInteger shall be "IPv4 Information".

580 The following table describes the values for the DCIM_iDRACCardEnumeration of this group. Each
581 column heading corresponds to a property name on the DCIM_iDRACCardEnumeration class. The
582 Description column contains the description for each of the attribute. Each row contains the values for the
583 properties listed in the column headings. The PossibleValues property is an array property represented in
584 the table as comma delimited list.

585 **Table 28 – DCIM_iDRACCardEnumeration IPv4 Information**

AttributeName	AttributeDisplayName	IsReadOnly	Display Order	PossibleValues
Enable	IPv4 Enable	FALSE	101	"Disabled", "Enabled"
DHCPEnable	IPv4 DHCP Enable	FALSE	102	"Disabled", "Enabled"
DNSFromDHCP	DNS Servers From DHCP	FALSE	106	"Disabled", "Enabled"

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

590 **Table 29 – DCIM_iDRACCardString IPv4 Information**

AttributeName	AttributeDisplayName	IsReadOnly	Display Order	MinLength	MaxLength
Address	IPv4 Address	FALSE	103	0	16
Netmask	Net Mask	FALSE	104	0	16
Gateway	Gateway	FALSE	105	0	16
DNS1	DNS Server 1	FALSE	107	0	16
DNS2	DNS Server 2	FALSE	108	0	16

591 7.5.10 IPv6 Information

592 This section describes the attributes for iDRAC's IPv6 Information Configuration.

593 The GroupID property for the DCIM_iDRACCardEnumeration, DCIM_iDRACCardString, and
 594 DCIM_iDRACCardInteger shall be "IPv6.1".

595 The GroupDisplayName property for the DCIM_iDRACCardEnumeration, DCIM_iDRACCardString, and
 596 DCIM_iDRACCardInteger shall be "IPv6 Information".

597 The following table describes the values for the DCIM_iDRACCardEnumeration of this group. Each
 598 column heading corresponds to a property name on the DCIM_iDRACCardEnumeration class. The
 599 Description column contains the description for each of the attribute. Each row contains the values for the
 600 properties listed in the column headings. The PossibleValues property is an array property represented in
 601 the table as comma delimited list.

602

603 **Table 30 – DCIM_iDRACCardEnumeration IPv6 Information**

AttributeName	AttributeDisplayName	IsReadOnly	Display Order	PossibleValues
Enable	IPv6 Enable	FALSE	151	"Disabled", "Enabled"
AutoConfig ¹	IPv6 Auto Config	FALSE	152	"Disabled", "Enabled"
DNSFromDHCP6	DNS Server From DHCP6	FALSE	153	"Disabled", "Enabled"

604 NOTE: 1 – Enabling or Disabling stateless IPv6 address autoconfiguration.

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

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612 **Table 31 – DCIM_iDRACCardString IPv6 Information**

AttributeName	AttributeDisplayName	IsReadOnly	Display Order	MinLength	MaxLength
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AttributeName	AttributeDisplayName	IsReadOnly	Display Order	MinLength	MaxLength
Gateway	IPv6 Gateway	FALSE	155	0	63
LinkLocalAddress	IPv6 Link Local Address	FALSE	156	0	63
DNS1	IPv6 DNS Server1	FALSE	158	0	63
DNS2	IPv6 DNS Server2	FALSE	159	0	63
Address1	IPv6 Address 1	TRUE	154	0	63
Address2	IPv6 Address 2	TRUE	161	0	63
Address3	IPv6 Address 3	TRUE	162	0	63
Address4	IPv6 Address 4	TRUE	163	0	63
Address5	IPv6 Address 5	TRUE	164	0	63
Address6	IPv6 Address 6	TRUE	165	0	63
Address7	IPv6 Address 7	TRUE	166	0	63
Address8	IPv6 Address 8	TRUE	167	0	63
Address9	IPv6 Address 9	TRUE	168	0	63
Address10	IPv6 Address 10	TRUE	169	0	63
Address11	IPv6 Address 11	TRUE	170	0	63
Address12	IPv6 Address 12	TRUE	171	0	63
Address13	IPv6 Address 13	TRUE	172	0	63
Address14	IPv6 Address 14	TRUE	173	0	63
Address15	IPv6 Address 15	TRUE	174	0	63

613 The following table describes the values for the DCIM_iDRACCardInteger of this group. Each column
614 heading corresponds to a property name on the DCIM_iDRACCardInteger class. Each row contains the
615 values for the properties listed in the column headings.

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Table 32 – DCIM_iDRACCardInteger IPv6 Information

AttributeName	AttributeDisplayName	IsReadOnly	Display Order	LowerBound	UpperBound
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AttributeName	AttributeDisplayName	IsReadOnly	Display Order	LowerBound	UpperBound
PrefixLength	IPV6 Link Local Prefix Length	FALSE	157	1	128
IPV6NumOfExtAddress	Total Number of Extended IP	FALSE	160	0	255

621

622 7.5.11 LDAP

623 This section describes the attributes for iDRAC's LDAP Configuration.

624 The GroupID property for the DCIM_iDRACCardEnumeration, DCIM_iDRACCardString, and
625 DCIM_iDRACCardInteger shall be "LDAP.1".

626 The GroupDisplayName property for the DCIM_iDRACCardEnumeration, DCIM_iDRACCardString, and
627 DCIM_iDRACCardInteger shall be "LDAP".

628 The following table describes the values for the DCIM_iDRACCardEnumeration of this group. Each
629 column heading corresponds to a property name on the DCIM_iDRACCardEnumeration class. The
630 Description column contains the description for each of the attribute. Each row contains the values for the
631 properties listed in the column headings. The PossibleValues property is an array property represented in
632 the table as comma delimited list.

633 **Table 33 – DCIM_iDRACCardEnumeration LDAP**

AttributeName	AttributeDisplayName	IsReadOnly	Display Order	PossibleValues
Enable	LDAP Enable	FALSE	1081	"Disabled", "Enabled"
GroupAttributesDN	LDAP Group Attribute Is Domain Name	FALSE	1087	"Disabled", "Enabled"
CertValidationEnable	Enable LDAP Certificate Validation	FALSE	1091	"Disabled", "Enabled"

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

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Table 34 – DCIM_iDRACCardString LDAP

AttributeName	AttributeDisplayName	IsReadOnly	Display Order	MinLength	MaxLength
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AttributeName	AttributeDisplayName	IsReadOnly	Display Order	MinLength	MaxLength
Server	LDAP Server	FALSE	1082	0	1024
BaseDN ¹	LDAP Base Domain Name	FALSE	1084	0	254
UserAttribute	LDAP User Attribute	FALSE	1085	0	254
GroupAttribute	LDAP Group Attribute	FALSE	1086	0	254
BindDN ²	LDAP Bind Distinguished Name	FALSE	1088	0	254
BindPassword	LDAP Bind Password	FALSE* (this attribute is for setting only)	1089	0	255
SearchFilter	LDAP Search Filter	FALSE	1090	0	1024

645 NOTE: 1 - Domain Name of the branch of the directory where all searches should start from.

646 NOTE: 2 - The distinguished name (DN) of a user used to bind to the server when searching for the login user's DN.
647 If not provided an anonymous bind will be used.

648 The following table describes the values for the DCIM_iDRACCardInteger of this group. Each column
649 heading corresponds to a property name on the DCIM_iDRACCardInteger class. Each row contains the
650 values for the properties listed in the column headings.

651 **Table 35 – DCIM_iDRACCardInteger LDAP**

AttributeName	AttributeDisplayName	IsReadOnly	Display Order	LowerBound	UpperBound
Port	LDAP Port	FALSE	1083	1	65535

652 7.5.12 LDAP Group

653 This section describes the attributes for iDRAC's LDAP Group Configuration.

654 The GroupID property for the DCIM_iDRACCardEnumeration, DCIM_iDRACCardString, and
655 DCIM_iDRACCardInteger shall be "LDAPRoleGroup.<#>" where <#> is a number 1 through 5.

656 The GroupDisplayName property for the DCIM_iDRACCardEnumeration, DCIM_iDRACCardString, and
657 DCIM_iDRACCardInteger shall be "LDAP Group".

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

662 **Table 36 – DCIM_iDRACCardString LDAP Group**

AttributeName	AttributeDisplayName	IsReadOnly	Display Order	MinLength	MaxLength
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AttributeName	AttributeDisplayName	IsReadOnly	Display Order	MinLength	MaxLength
DN	LDAP Role Group Domain Name	FALSE	1101, 1111, 1121, 1131, 1141	0	1024

663 The following table describes the values for the DCIM_iDRACCardInteger of this group. Each column
664 heading corresponds to a property name on the DCIM_iDRACCardInteger class. Each row contains the
665 values for the properties listed in the column headings.

666 **Table 37 – DCIM_iDRACCardInteger LDAP Group**

AttributeName	AttributeDisplayName	IsReadOnly	Display Order	LowerBound	UpperBound
Privilege ¹	LDAP Group Privilege	FALSE	1102, 1112, 1122, 1132, 1142	0	511

667 NOTE: 1 – See ANNEX A for information on mapping into iDRAC privileges.

668 7.5.13 Local Security

669 This section describes the attributes for iDRAC’s Active Directory Configuration.

670 The GroupID property for the DCIM_iDRACCardEnumeration, DCIM_iDRACCardString, and
671 DCIM_iDRACCardInteger shall be “LocalSecurity.1”.

672 The GroupDisplayName property for the DCIM_iDRACCardEnumeration, DCIM_iDRACCardString, and
673 DCIM_iDRACCardInteger shall be “Local Security”.

674 The following table describes the values for the DCIM_iDRACCardEnumeration of this group. Each
675 column heading corresponds to a property name on the DCIM_iDRACCardEnumeration class. The
676 Description column contains the description for each of the attribute. Each row contains the values for the
677 properties listed in the column headings. The PossibleValues property is an array property represented in
678 the table as comma delimited list.

679 **Table 38 – DCIM_iDRACCardEnumeration Local Security**

AttributeName	AttributeDisplayName	IsReadOnly	Display Order	PossibleValues
PrebootConfig	Preboot Config	FALSE	741	“Disabled”, “Enabled”
LocalConfig	Local Config	FALSE	742	“Disabled”, “Enabled”

680 7.5.14 NIC Information

681 This section describes the attributes for iDRAC’s NIC Configuration.

682 The GroupID property for the DCIM_iDRACCardEnumeration, DCIM_iDRACCardString, and
683 DCIM_iDRACCardInteger shall be “NIC.1”.

684 The GroupDisplayName property for the DCIM_iDRACCardEnumeration, DCIM_iDRACCardString, and
 685 DCIM_iDRACCardInteger shall be "NIC Information".

686 The following table describes the values for the DCIM_iDRACCardEnumeration of this group. Each
 687 column heading corresponds to a property name on the DCIM_iDRACCardEnumeration class. The
 688 Description column contains the description for each of the attribute. Each row contains the values for the
 689 properties listed in the column headings. The PossibleValues property is an array property represented in
 690 the table as comma delimited list.

691

692

693 **Table 39 – DCIM_iDRACCardEnumeration NIC Information**

AttributeName	AttributeDisplayName	IsReadOnly	Display Order	PossibleValues
Enable	NIC Enable	FALSE	51	"Disabled", "Enabled"
Selection	NIC Selection	FALSE	53	"Dedicated", "LOM1", "LOM2", "LOM3", "LOM4"
Failover	NIC Failover	FALSE	54	"None", "LOM1", "LOM2", "LOM3", "LOM4", "All"
Speed	NIC Speed	FALSE	56	"10", "100", "1000"
Autoneg	NIC Auto Negotiation	FALSE	55	"Disabled", "Enabled"
Duplex	NIC Duplex	FALSE	57	"Half", "Full"
DNSRegister	DNS Register RAC	FALSE	10	"Disabled", "Enabled"
DNSDomainFromDHCP	DNS Domain Name from DHCP	FALSE	180	"Disabled", "Enabled"
VLANenable	Enable VLAN	FALSE	63	"Disabled", "Enabled"

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

698 **Table 40 – DCIM_iDRACCardString NIC Information**

AttributeName	AttributeDisplayName	IsReadOnly	Display Order	MinLength	MaxLength
MACAddress	MAC Address	TRUE	52	0	17
DNSRacName	DNS RAC Name	FALSE	59	0	63
DNSDomainName	DNS Domain Name	FALSE	181	0	254

699 The following table describes the values for the DCIM_iDRACCardInteger of this group. Each column
 700 heading corresponds to a property name on the DCIM_iDRACCardInteger class. Each row contains the
 701 values for the properties listed in the column headings.

702

Table 41 – DCIM_iDRACCardInteger NIC Information

AttributeName	AttributeDisplayName	IsReadOnly	Display Order	LowerBound	UpperBound
MTU	NIC MTU	FALSE	58	576	1500
VlanID	VLAN ID	FALSE	65	0	4094
VlanPriority	VLAN Priority	FALSE	64	0	7

703

7.5.15 OS-BMC Passthru Configuration

704 This section describes the attributes for iDRAC's OS-BMC Passthru Configuration..

705 The GroupID property for the DCIM_iDRACCardEnumeration, DCIM_iDRACCardString, and
706 DCIM_iDRACCardInteger shall be "OS-BMC.1".

707 The GroupDisplayName property for the DCIM_iDRACCardEnumeration, DCIM_iDRACCardString, and
708 DCIM_iDRACCardInteger shall be "OS-BMC Passthru Configuration".

709 The following table describes the values for the DCIM_iDRACCardEnumeration of this group. Each
710 column heading corresponds to a property name on the DCIM_iDRACCardEnumeration class. The
711 Description column contains the description for each of the attribute. Each row contains the values for the
712 properties listed in the column headings. The PossibleValues property is an array property represented in
713 the table as comma delimited list.
714

Table 42 – DCIM_iDRACCardEnumeration OS-BMC Passthru Configuration

AttributeName	AttributeDisplayName	IsReadOnly	Display Order	PossibleValues
AdminState	LC and Host Private Channel State	FALSE	1241	"Disabled", "Enabled"

7.5.16 Remote Racadm Configuration

715 This section describes the attributes for iDRAC's Remote Racadm Configuration.

716 The GroupID property for the DCIM_iDRACCardEnumeration, DCIM_iDRACCardString, and
717 DCIM_iDRACCardInteger shall be "Racadm.1".

718 The GroupDisplayName property for the DCIM_iDRACCardEnumeration, DCIM_iDRACCardString, and
719 DCIM_iDRACCardInteger shall be "Remote Racadm Configuration".

720 The following table describes the values for the DCIM_iDRACCardEnumeration of this group. Each
721 column heading corresponds to a property name on the DCIM_iDRACCardEnumeration class. The
722 Description column contains the description for each of the attribute. Each row contains the values for the
723 properties listed in the column headings. The PossibleValues property is an array property represented in
724 the table as comma delimited list.
725
726

Table 43 – DCIM_iDRACCardEnumeration Remote Racadm Configuration

AttributeName	AttributeDisplayName	IsReadOnly	Display Order	PossibleValues
Enable	Remote Enable	FALSE	591	"Disabled", "Enabled"

728 The following table describes the values for the DCIM_iDRACCardInteger of this group. Each column
 729 heading corresponds to a property name on the DCIM_iDRACCardInteger class. Each row contains the
 730 values for the properties listed in the column headings.

731 **Table 44 – DCIM_iDRACCardInteger Remote Racadm Configuration**

AttributeName	AttributeDisplayName	IsReadOnly	Display Order	LowerBound	UpperBound
Timeout	Remote Timeout	FALSE	592	10	1920

732 NOTE: Defines the idle timeout (in seconds) for the Remote RACADM interface. If a remote RACADM session
 733 remains inactive for more than the specified sessions, the session is closed.

734 **7.5.17 RAC Remote Hosts**

735 This section describes the attributes for iDRAC's RAC Remote Hosts Configuration.

736 The GroupID property for the DCIM_iDRACCardEnumeration, DCIM_iDRACCardString, and
 737 DCIM_iDRACCardInteger shall be "RemoteHosts.1".

738 The GroupDisplayName property for the DCIM_iDRACCardEnumeration, DCIM_iDRACCardString, and
 739 DCIM_iDRACCardInteger shall be "RAC Remote Hosts".

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

744 **Table 45 – DCIM_iDRACCardString RAC Remote Hosts**

AttributeName	AttributeDisplayName	IsReadOnly	Display Order	MinLength	MaxLength
SMTPServerIPAddress	SMTP Server IP Address	FALSE	541	0	255

745

746 **7.5.18 RAC Certificate**

747 This section describes the attributes for iDRAC's RAC Certificate Configuration.

748 The GroupID property for the DCIM_iDRACCardEnumeration, DCIM_iDRACCardString, and
 749 DCIM_iDRACCardInteger shall be "Security.1".

750 The GroupDisplayName property for the DCIM_iDRACCardEnumeration, DCIM_iDRACCardString, and
 751 DCIM_iDRACCardInteger shall be "RAC Certificate".

752 The following table describes the values for the DCIM_iDRACCardEnumeration of this group. Each
 753 column heading corresponds to a property name on the DCIM_iDRACCardEnumeration class. The
 754 Description column contains the description for each of the attribute. Each row contains the values for the
 755 properties listed in the column headings. The PossibleValues property is an array property represented in
 756 the table as comma delimited list.

757

758 **Table 46 – DCIM_iDRACCardEnumeration RAC Certificate**

AttributeName	AttributeDisplayName	IsReadOnly	Display Order	PossibleValues
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AttributeName	AttributeDisplayName	IsReadOnly	Display Order	PossibleValues
CsrKeySize	CSR Key Size	FALSE	768	1024, 2048

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

763

764

765

Table 47 – DCIM_iDRACCardString RAC Certificate

AttributeName	AttributeDisplayName	IsReadOnly	Display Order	MinLength	MaxLength
CsrCommonName	CSR Common Name	FALSE	761	0	254
CsrOrganizationName	CSR Organization Name	FALSE	762	0	254
CsrOrganizationUnit	CSR Organization Unit	FALSE	763	0	254
CsrLocalityName	CSR Locality Name	FALSE	764	0	254
CsrStateName	CSR State Name	FALSE	765	0	254
CsrCountryCode	CSR Country Code	FALSE	766	0	2
CsrEmailAddr	CSR Email Address	FALSE	767	0	254

766 7.5.19 Serial Configuration

767 This section describes the attributes for iDRAC's Serial Configuration.

768 The GroupID property for the DCIM_iDRACCardEnumeration, DCIM_iDRACCardString, and
769 DCIM_iDRACCardInteger shall be "Serial.1".

770 The GroupDisplayName property for the DCIM_iDRACCardEnumeration, DCIM_iDRACCardString, and
771 DCIM_iDRACCardInteger shall be "Serial Configuration".

772 The following table describes the values for the DCIM_iDRACCardEnumeration of this group. Each
773 column heading corresponds to a property name on the DCIM_iDRACCardEnumeration class. The
774 Description column contains the description for each of the attribute. Each row contains the values for the
775 properties listed in the column headings. The PossibleValues property is an array property represented in
776 the table as comma delimited list.

777

Table 48 – DCIM_iDRACCardEnumeration Serial Configuration

AttributeName	AttributeDisplayName	IsReadOnly	Display Order	PossibleValues
Enable	Serial Console Enable	FALSE	601	"Disabled", "Enabled"
BaudRate	Serial Baud Rate	FALSE	602	9600, 19200, 38400, 57600, 115200

AttributeName	AttributeDisplayName	IsReadOnly	Display Order	PossibleValues
NoAuth	Serial Console No Authentication	FALSE	604	“Disabled”, “Enabled”

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

782

783

784 **Table 49 – DCIM_iDRACCardString Serial Configuration**

AttributeName	AttributeDisplayName	IsReadOnly	Display Order	MinLength	MaxLength
Command ¹	Serial Console Command	FALSE	606	0	128

785 NOTE: 1 – Specifies a serial command that is executed after a user logs into the serial console interface.

786 The following table describes the values for the DCIM_iDRACCardInteger of this group. Each column
787 heading corresponds to a property name on the DCIM_iDRACCardInteger class. Each row contains the
788 values for the properties listed in the column headings.

789 **Table 50 – DCIM_iDRACCardInteger Serial Configuration**

AttributeName	AttributeDisplayName	IsReadOnly	Display Order	LowerBound	UpperBound
IdleTimeout	Serial Console Idle Timeout	FALSE	603	60	1920
HistorySize	Serial History Size	FALSE	605	0	8192

790

791 **7.5.20 RAC Serial Redirection**

792 This section describes the attributes for iDRAC’s RAC Serial Redirection Configuration.

793 The GroupID property for the DCIM_iDRACCardEnumeration, DCIM_iDRACCardString, and
794 DCIM_iDRACCardInteger shall be “SerialRedirection.1”.

795 The GroupDisplayName property for the DCIM_iDRACCardEnumeration, DCIM_iDRACCardString, and
796 DCIM_iDRACCardInteger shall be “RAC Serial Redirection”.

797 The following table describes the values for the DCIM_iDRACCardEnumeration of this group. Each
798 column heading corresponds to a property name on the DCIM_iDRACCardEnumeration class. The
799 Description column contains the description for each of the attribute. Each row contains the values for the
800 properties listed in the column headings. The PossibleValues property is an array property represented in
801 the table as comma delimited list.

802 **Table 51 – DCIM_iDRACCardEnumeration RAC Serial Redirection**

AttributeName	AttributeDisplayName	IsReadOnly	Display Order	PossibleValues
---------------	----------------------	------------	---------------	----------------

AttributeName	AttributeDisplayName	IsReadOnly	Display Order	PossibleValues
Enable	Serial Communication Redirection Enable	FALSE	611	“Disabled”, “Enabled”

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

807 **Table 52 – DCIM_iDRACCardString RAC Serial Redirection**

AttributeName	AttributeDisplayName	IsReadOnly	Display Order	MinLength	MaxLength
QuitKey	Serial Console Quit Key	FALSE	612	0	2

808 7.5.21 Smart Card Configuration

809 This section describes the attributes for iDRAC’s Smart Card Configuration.

810 The GroupID property for the DCIM_iDRACCardEnumeration, DCIM_iDRACCardString, and
811 DCIM_iDRACCardInteger shall be “SmartCard.1”.

812 The GroupDisplayName property for the DCIM_iDRACCardEnumeration, DCIM_iDRACCardString, and
813 DCIM_iDRACCardInteger shall be “Smart Card Configuration”.

814 The following table describes the values for the DCIM_iDRACCardEnumeration of this group. Each
815 column heading corresponds to a property name on the DCIM_iDRACCardEnumeration class. The
816 Description column contains the description for each of the attribute. Each row contains the values for the
817 properties listed in the column headings. The PossibleValues property is an array property represented in
818 the table as comma delimited list.

819 **Table 53 – DCIM_iDRACCardEnumeration Smart Card Configuration**

AttributeName	AttributeDisplayName	IsReadOnly	Display Order	PossibleValues
SmartCardLogonEnable	Smart Card Logon Enable	FALSE	1061	“Disabled”, “Enabled”
SmartCardCRLEnable	Smart Card CRL Enable	FALSE	1062	“Disabled”, “Enabled”

820 7.5.22 SNMP Configuration

821 This section describes the attributes for iDRAC’s SNMP Configuration.

822 The GroupID property for the DCIM_iDRACCardEnumeration, DCIM_iDRACCardString, and
823 DCIM_iDRACCardInteger shall be “SNMP.1”.

824 The GroupDisplayName property for the DCIM_iDRACCardEnumeration, DCIM_iDRACCardString, and
825 DCIM_iDRACCardInteger shall be “SNMP Configuration”.

826 The following table describes the values for the DCIM_iDRACCardEnumeration of this group. Each
827 column heading corresponds to a property name on the DCIM_iDRACCardEnumeration class. The
828 Description column contains the description for each of the attribute. Each row contains the values for the
829 properties listed in the column headings. The PossibleValues property is an array property represented in
830 the table as comma delimited list.

831

Table 54 – DCIM_iDRACCardEnumeration SNMP Configuration

AttributeName	AttributeDisplayName	IsReadOnly	Display Order	PossibleValues
AgentEnable	SNMP Agent Enable	FALSE	701	“Disabled”, “Enabled”

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

836

Table 55 – DCIM_iDRACCardString SNMP Configuration

AttributeName	AttributeDisplayName	IsReadOnly	Display Order	MinLength	MaxLength
AgentCommunity	SNMP Agent Community	FALSE	702	0	31

837 **7.5.23 SNMP Trap IPv4**

838 This section describes the attributes for iDRAC’s SNMP Trap IPv4 Configuration.

839 The GroupID property for the DCIM_iDRACCardEnumeration, DCIM_iDRACCardString, and
 840 DCIM_iDRACCardInteger shall be “SNMPTrapIPv4.<#>” where <#> is a number from 1 to 4.

841 The GroupDisplayName property for the DCIM_iDRACCardEnumeration, DCIM_iDRACCardString, and
 842 DCIM_iDRACCardInteger shall be “SNMP Trap IPv4”.

843 The following table describes the values for the DCIM_iDRACCardEnumeration of this group. Each
 844 column heading corresponds to a property name on the DCIM_iDRACCardEnumeration class. The
 845 Description column contains the description for each of the attribute. Each row contains the values for the
 846 properties listed in the column headings. The PossibleValues property is an array property represented in
 847 the table as comma delimited list.

848

849

Table 56 – DCIM_iDRACCardEnumeration SNMP Trap IPv4

AttributeName	AttributeDisplayName	IsReadOnly	Display Order	PossibleValues
State	State	FALSE	1192, 1202, 1212, 1222	“Disabled”, “Enabled”

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

854

Table 57 – DCIM_iDRACCardString SNMP Trap IPv4

AttributeName	Attribute Description	IsReadOnly	Display Order	MinLength	MaxLength
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AttributeName	Attribute Description	IsReadOnly	Display Order	MinLength	MaxLength
DestIPv4Addr	Destination IPv4 Address	FALSE	1193, 1203, 1213, 1223	0	15

855 The following table describes the values for the DCIM_iDRACCardInteger of this group. Each column
856 heading corresponds to a property name on the DCIM_iDRACCardInteger class. Each row contains the
857 values for the properties listed in the column headings.

858 **Table 58 – DCIM_iDRACCardInteger SNMP Trap IPv4**

AttributeName	AttributeDisplayName	IsReadOnly	Display Order	LowerBound	UpperBound
DestinationNum	Destination Number	TRUE	1191, 1201, 1211, 1221	1	4

859

860 **7.5.24 SNMP Trap IPv6**

861 This section describes the attributes for iDRAC’s SNMP Trap IPv6 Configuration.

862 The GroupID property for the DCIM_iDRACCardEnumeration, DCIM_iDRACCardString, and
863 DCIM_iDRACCardInteger shall be “SNMPTrapIPv6.<#>” where <#> is a number from 1 to 4.

864 The GroupDisplayName property for the DCIM_iDRACCardEnumeration, DCIM_iDRACCardString, and
865 DCIM_iDRACCardInteger shall be “SNMP Trap IPv6”.

866 The following table describes the values for the DCIM_iDRACCardEnumeration of this group. Each
867 column heading corresponds to a property name on the DCIM_iDRACCardEnumeration class. The
868 Description column contains the description for each of the attribute. Each row contains the values for the
869 properties listed in the column headings. The PossibleValues property is an array property represented in
870 the table as comma delimited list.

871 **Table 59 – DCIM_iDRACCardEnumeration SNMP Trap IPv6**

AttributeName	AttributeDisplayName	IsReadOnly	Display Order	PossibleValues
State	State	FALSE	1152, 1162, 1172, 1182	“Disabled”, “Enabled”

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

876 **Table 60 – DCIM_iDRACCardString SNMP Trap Ipv6**

AttributeName	Attribute Description	IsReadOnly	Display Order	MinLength	MaxLength
DestIPv6Addr	Destination IPv6 Address	FALSE	1153, 1163, 1173, 1183	0	39

877 The following table describes the values for the DCIM_iDRACCardInteger of this group. Each column
878 heading corresponds to a property name on the DCIM_iDRACCardInteger class. Each row contains the
879 values for the properties listed in the column headings.

880 **Table 61 – DCIM_iDRACCardInteger SNMP Trap Ipv6**

AttributeName	AttributeDisplayName	IsReadOnly	Display Order	LowerBound	UpperBound
DestinationNum	Destination Number	TRUE	1151, 1161, 1171, 1181	1	4

881

882 **7.5.25 RAC SSH**

883 This section describes the attributes for iDRAC’s SSH Configuration.

884 The GroupID property for the DCIM_iDRACCardEnumeration, DCIM_iDRACCardString, and
 885 DCIM_iDRACCardInteger shall be “SSH.1”.

886 The GroupDisplayName property for the DCIM_iDRACCardEnumeration, DCIM_iDRACCardString, and
 887 DCIM_iDRACCardInteger shall be “RAC SSH”.

888 The following table describes the values for the DCIM_iDRACCardEnumeration of this group. Each
 889 column heading corresponds to a property name on the DCIM_iDRACCardEnumeration class. The
 890 Description column contains the description for each of the attribute. Each row contains the values for the
 891 properties listed in the column headings. The PossibleValues property is an array property represented in
 892 the table as comma delimited list.

893 **Table 62 – DCIM_iDRACCardEnumeration RAC SSH**

AttributeName	AttributeDisplayName	IsReadOnly	Display Order	PossibleValues
Enable	Enable	FALSE	561	“Disabled”, “Enabled”

894 The following table describes the values for the DCIM_iDRACCardInteger of this group. Each column
 895 heading corresponds to a property name on the DCIM_iDRACCardInteger class. Each row contains the
 896 values for the properties listed in the column headings.

897 **Table 63 – DCIM_iDRACCardInteger RAC SSH**

AttributeName	AttributeDisplayName	IsReadOnly	Display Order	LowerBound	UpperBound
Port	SSH Port	FALSE	562	10	65535
Timeout ¹	SSH Idle Timeout	FALSE	563	60	10800

898 NOTE: 1 - Specifies the number of seconds after which an idle Telnet session is automatically terminated.

899 **7.5.26 RAC Telnet**

900 This section describes the attributes for iDRAC’s Telnet Configuration.

901 The GroupID property for the DCIM_iDRACCardEnumeration, DCIM_iDRACCardString, and
 902 DCIM_iDRACCardInteger shall be “Telnet.1”.

903 The GroupDisplayName property for the DCIM_iDRACCardEnumeration, DCIM_iDRACCardString, and
 904 DCIM_iDRACCardInteger shall be “Telnet Configuration”.

905 The following table describes the values for the DCIM_iDRACCardEnumeration of this group. Each
 906 column heading corresponds to a property name on the DCIM_iDRACCardEnumeration class. The
 907 Description column contains the description for each of the attribute. Each row contains the values for the
 908 properties listed in the column headings. The PossibleValues property is an array property represented in
 909 the table as comma delimited list.

910 **Table 64 – DCIM_iDRACCardEnumeration Telnet Configuration**

AttributeName	AttributeDisplayName	IsReadOnly	Display Order	PossibleValues
Enable	Enable	FALSE	551	“Disabled”, “Enabled”

911 The following table describes the values for the DCIM_iDRACCardInteger of this group. Each column
 912 heading corresponds to a property name on the DCIM_iDRACCardInteger class. Each row contains the
 913 values for the properties listed in the column headings.

914

915

Table 65 – DCIM_iDRACCardInteger Telnet Configuration

AttributeName	AttributeDisplayName	IsReadOnly	Display Order	LowerBound	UpperBound
Port	Telnet Port	FALSE	552	10	65535
Timeout ¹	Timeout	FALSE	553	60	10800

916 NOTE: 1 - Specifies the number of seconds after which an idle Telnet session is automatically terminated.

917 7.5.27 Sys Log

918 This section describes the attributes for iDRAC’s Sys Log Configuration.

919 The GroupID property for the DCIM_iDRACCardEnumeration, DCIM_iDRACCardString, and
920 DCIM_iDRACCardInteger shall be “SysLog.1”.

921 The GroupDisplayName property for the DCIM_iDRACCardEnumeration, DCIM_iDRACCardString, and
922 DCIM_iDRACCardInteger shall be “Sys Log”.

923 The following table describes the values for the DCIM_iDRACCardEnumeration of this group. Each
924 column heading corresponds to a property name on the DCIM_iDRACCardEnumeration class. The
925 Description column contains the description for each of the attribute. Each row contains the values for the
926 properties listed in the column headings. The PossibleValues property is an array property represented in
927 the table as comma delimited list.

928 **Table 66 – DCIM_iDRACCardEnumeration Sys Log**

AttributeName	AttributeDisplayName	IsReadOnly	Display Order	PossibleValues
SysLogEnable	Sys Log Enable	FALSE	1071	“Disabled”, “Enabled”

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

933 **Table 67 – DCIM_iDRACCardString Sys Log**

AttributeName	AttributeDisplayName	IsReadOnly	Display Order	MinLength	MaxLength
Server1	Sys Log Server 1	FALSE	1073	0	63
Server2	Sys Log Server 2	FALSE	1074	0	63

934 The following table describes the values for the DCIM_iDRACCardInteger of this group. Each column
935 heading corresponds to a property name on the DCIM_iDRACCardInteger class. Each row contains the
936 values for the properties listed in the column headings.

937

938

Table 68 – DCIM_iDRACCardInteger Sys Log

AttributeName	AttributeDisplayName	IsReadOnly	Display Order	LowerBound	UpperBound
Port	Sys Log Port	FALSE	1072	1	65535

939

940 **7.5.28 iDRAC Firmware Update**

941 This section describes the attributes for iDRAC’s Update Configuration.

942 The GroupID property for the DCIM_iDRACCardEnumeration and DCIM_iDRACCardString shall be
943 “Update.1”.

944 The GroupDisplayName property for the DCIM_iDRACCardEnumeration and DCIM_iDRACCardString
945 shall be “Firmware Update”.

946 The following table describes the values for the DCIM_iDRACCardEnumeration of this group. Each
947 column heading corresponds to a property name on the DCIM_iDRACCardEnumeration class. The
948 Description column contains the description for each of the attribute. Each row contains the values for the
949 properties listed in the column headings. The PossibleValues property is an array property represented in
950 the table as comma delimited list.

951 **Table 69 – DCIM_iDRACCardEnumeration Update**

AttributeName	AttributeDisplayName	IsReadOnly	Display Order	PossibleValues
FwUpdateTFTPEnable	Enable or Disable TFTP for Firmware Update	FALSE	451	“Disabled”, “Enabled”

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

956 **Table 70 – DCIM_iDRACCardString Update**

AttributeName	AttributeDisplayName	IsReadOnly	Display Order	MinLength	MaxLength
FwUpdateIPAddr	Firmware Update IP Address	FALSE	452	0	
FwUpdatePath	Firmware Update File Path	FALSE	453	0	255

957

958 **7.5.29 User Domain**

959 This section describes the attributes for iDRAC’s User Domain Configuration.

960 The GroupID property for the DCIM_iDRACCardEnumeration, DCIM_iDRACCardString, and
961 DCIM_iDRACCardInteger shall be “UserDomain.<#>” where “<#>” is a number 1 through 40.

962 The GroupDisplayName property for the DCIM_iDRACCardEnumeration, DCIM_iDRACCardString, and
963 DCIM_iDRACCardInteger shall be “User Domain”.

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

968 **Table 71 – DCIM_iDRACCardString User Domain**

AttributeName	AttributeDisplayName	IsReadOnly	Display Order	MinLength	MaxLength
Name	User Domain Name	FALSE	851, 855, ... , 1046	0	255

969

970 **7.5.30 iDRAC Users**

971 This section describes the attributes for iDRAC’s Users Configuration.

972 The GroupID property for the DCIM_iDRACCardEnumeration, DCIM_iDRACCardString, and
 973 DCIM_iDRACCardInteger shall be “Users.<#>” where <#> is a number from 1 to 16.

974 The GroupDisplayName property for the DCIM_iDRACCardEnumeration, DCIM_iDRACCardString, and
 975 DCIM_iDRACCardInteger shall be “iDRAC Users”.

976 The following table describes the values for the DCIM_iDRACCardEnumeration of this group. Each
 977 column heading corresponds to a property name on the DCIM_iDRACCardEnumeration class. The
 978 Description column contains the description for each of the attribute. Each row contains the values for the
 979 properties listed in the column headings. The PossibleValues property is an array property represented in
 980 the table as comma delimited list.

981

982

983 **Table 72 – DCIM_iDRACCardEnumeration Users**

AttributeName	AttributeDisplayName	IsReadOnly	Display Order	PossibleValues
IpmiLanPrivilege	User Admin IPMI LAN Privilege	FALSE ¹	254, 264, ... , 404	User, Operator, Administrator, No Access
IpmiSerialPrivilege	User Admin IPMI Serial Privilege	FALSE ¹	255, 265, ... , 405	User, Operator, Administrator, No Access
Enable	User Admin Enable	FALSE ¹	256, 266, ... , 406	“Disabled”, “Enabled”
SolEnable	User Admin SOL Enable	FALSE ¹	257, 267, ... , 407	“Disabled”, “Enabled”

984 NOTE: 1 – IpmiLanPrivilege, IpmiSerialPrivilege, Enable, and SolEnable attribute for Users.1 GroupID is Read-
 985 Only, but for the GroupID Users.2 to Users.16, the attribute is settable.

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

990

Table 73 – DCIM_iDRACCardString iDRAC Users

AttributeName	AttributeDisplayName	IsReadOnly	Display Order	MinLength	MaxLength
UserName	User Admin User Name	FALSE ¹	251, 261, ... , 401	0	16
Password ²	User Admin Password	FALSE	252, 262, ... , 402	0	20

991 NOTE: 1 – UserName attribute for Users.1 GroupID is Read-Only, but for the GroupID Users.2 to Users.16, the
992 attribute is settable.

993 NOTE: 2 – Password attribute is write-only, and thus its value is never returned in the CurrentValue, PendingValue,
994 and DefaultValue properties.

995 The following table describes the values for the DCIM_iDRACCardInteger of this group. Each column
996 heading corresponds to a property name on the DCIM_iDRACCardInteger class. Each row contains the
997 values for the properties listed in the column headings.

998

999

Table 74 – DCIM_iDRACCardInteger iDRAC Users

AttributeName	AttributeDisplayName	IsReadOnly	Display Order	LowerBound	UpperBound
Privilege ³	User Admin Privilege	FALSE ¹	253, 263, ... , 403	0	511

1000 NOTE: 1 – Privilege attribute for Users.1 GroupID is Read-Only, but for the GroupID Users.2 to Users.16, the
1001 attribute is settable.

1002 NOTE: 3 – See ANNEX A for information on mapping into iDRAC privileges.

1003 7.5.31 Virtual Console Configuration

1004 This section describes the attributes for iDRAC’s Virtual Console Configuration.

1005 The GroupID property for the DCIM_iDRACCardEnumeration, DCIM_iDRACCardString, and
1006 DCIM_iDRACCardInteger shall be “VirtualConsole.1”.

1007 The GroupDisplayName property for the DCIM_iDRACCardEnumeration, DCIM_iDRACCardString, and
1008 DCIM_iDRACCardInteger shall be “Virtual Console Configuration”.

1009 The following table describes the values for the DCIM_iDRACCardEnumeration of this group. Each
1010 column heading corresponds to a property name on the DCIM_iDRACCardEnumeration class. The
1011 Description column contains the description for each of the attribute. Each row contains the values for the
1012 properties listed in the column headings. The PossibleValues property is an array property represented in
1013 the table as comma delimited list.

1014

Table 75 – DCIM_iDRACCardEnumeration Virtual Console Configuration

AttributeName	AttributeDisplayName	IsReadOnly	Display Order	PossibleValues
Enable	Enable	FALSE	581	“Disabled”, “Enabled”

AttributeName	AttributeDisplayName	IsReadOnly	Display Order	PossibleValues
LocalVideo	Local Video	FALSE	583	"Disabled", "Enabled"
PluginType	Plugin Type	FALSE	584	"Active X", "Java"
EncryptEnable	Encrypt Enable	FALSE	582	"None", "AES"

1015 The following table describes the values for the DCIM_iDRACCardInteger of this group. Each column
 1016 heading corresponds to a property name on the DCIM_iDRACCardInteger class. Each row contains the
 1017 values for the properties listed in the column headings.

1018 **Table 76 – DCIM_iDRACCardInteger Virtual Console Configuration**

AttributeName	AttributeDisplayName	IsReadOnly	Display Order	LowerBound	UpperBound
Timeout ¹	Timeout	FALSE	587	60	10800
MaxSessions	Max Sessions	FALSE	585	1	4
Port	vKVM Port	FALSE	586	1	65535

1019 NOTE: 1 – Timeout in seconds.

1020 7.5.32 Virtual Media Configuration

1021 This section describes the attributes for iDRAC's Virtual Media Configuration.

1022 The GroupID property for the DCIM_iDRACCardEnumeration, DCIM_iDRACCardString, and
 1023 DCIM_iDRACCardInteger shall be "VirtualMedia.1".

1024 The GroupDisplayName property for the DCIM_iDRACCardEnumeration, DCIM_iDRACCardString, and
 1025 DCIM_iDRACCardInteger shall be "Virtual Media".

1026 The following table describes the values for the DCIM_iDRACCardEnumeration of this group. Each
 1027 column heading corresponds to a property name on the DCIM_iDRACCardEnumeration class. The
 1028 Description column contains the description for each of the attribute. Each row contains the values for the
 1029 properties listed in the column headings. The PossibleValues property is an array property represented in
 1030 the table as comma delimited list.

1031 **Table 77 – DCIM_iDRACCardEnumeration Virtual Media Configuration**

AttributeName	AttributeDisplayName	IsReadOnly	Display Order	PossibleValues
Attached	RAC Virtual Media Attached	FALSE	711	"Detached", "Attached", "AutoAttach"
BootOnce	Virtual Media Boot Once	FALSE	712	"Disabled", "Enabled"
KeyEnable	Virtual Media Key Enable	FALSE	713	"Disabled", "Enabled"
FloppyEmulation	Virtual Media Floppy Emulation	FALSE	714	"Disabled", "Enabled"

1032 **7.5.33 RAC Web Server**

1033 This section describes the attributes for iDRAC’s Web Server Configuration.

1034 The GroupID property for the DCIM_iDRACCardEnumeration, DCIM_iDRACCardString, and
 1035 DCIM_iDRACCardInteger shall be “WebServer.1”.

1036 The GroupDisplayName property for the DCIM_iDRACCardEnumeration, DCIM_iDRACCardString, and
 1037 DCIM_iDRACCardInteger shall be “RAC Web Server”.

1038 The following table describes the values for the DCIM_iDRACCardEnumeration of this group. Each
 1039 column heading corresponds to a property name on the DCIM_iDRACCardEnumeration class. The
 1040 Description column contains the description for each of the attribute. Each row contains the values for the
 1041 properties listed in the column headings. The PossibleValues property is an array property represented in
 1042 the table as comma delimited list.

1043 **Table 78 – DCIM_iDRACCardEnumeration Web Server**

AttributeName	AttributeDisplayName	IsReadOnly	Display Order	PossibleValues
Enable	Enable	FALSE	571	“Disabled”, “Enabled”
LowerEncryptionBitLength	Lower Encryption Bit Length	FALSE	575	“Disabled”, “Enable”

1044 The following table describes the values for the DCIM_iDRACCardInteger of this group. Each column
 1045 heading corresponds to a property name on the DCIM_iDRACCardInteger class. Each row contains the
 1046 values for the properties listed in the column headings.

1047 **Table 79 – DCIM_iDRACCardInteger Web Server**

AttributeName	AttributeDisplayName	IsReadOnly	Display Order	LowerBound	UpperBound
HttpPort	Http Port	FALSE	572	10	65535
HttpsPort	Https Port	FALSE	573	1	65535
Timeout	Timeout	FALSE	574	60	10800

1048 **7.5.34 Time Zone Configuration**

1049 This section describes the attributes for iDRAC’s Web Server Configuration.

1050 The GroupID property for the DCIM_iDRACCardEnumeration, DCIM_iDRACCardString, and
 1051 DCIM_iDRACCardInteger shall be “Time.1”.

1052 The GroupDisplayName property for the DCIM_iDRACCardEnumeration, DCIM_iDRACCardString, and
 1053 DCIM_iDRACCardInteger shall be “Time Zone Configuration Information”.

1054 The following table describes the values for the DCIM_iDRACCardInteger of this group. Each column
 1055 heading corresponds to a property name on the DCIM_iDRACCardInteger class. Each row contains the
 1056 values for the properties listed in the column headings.

1057 **Table 80 – DCIM_iDRACCardInteger Time Zone Configuration Information**

AttributeName	AttributeDisplayName	IsReadOnly	Display Order	LowerBound	UpperBound
TimeZoneOffset	Tune Time Zone Offset	FALSE	751	0	46800

AttributeName	AttributeDisplayName	IsReadOnly	Display Order	LowerBound	UpperBound
DaylightOffset	Tune Day Light Offset	FALSE	752	0	60

1058 **7.5.35 Remote File Share Configuration**

1059 This section describes the attributes for iDRAC's Remote File Share Configuration.

1060 The GroupID property for the DCIM_iDRACCardEnumeration, DCIM_iDRACCardString, and
1061 DCIM_iDRACCardInteger shall be "RFS.1".

1062 The GroupDisplayName property for the DCIM_iDRACCardEnumeration, DCIM_iDRACCardString, and
1063 DCIM_iDRACCardInteger shall be "Remote File Share".

1064 The following table describes the values for the DCIM_iDRACCardEnumeration of this group. Each
1065 column heading corresponds to a property name on the DCIM_iDRACCardEnumeration class. The
1066 Description column contains the description for each of the attribute. Each row contains the values for the
1067 properties listed in the column headings. The PossibleValues property is an array property represented in
1068 the table as comma delimited list.

1069 **Table 81 – DCIM_iDRACCardEnumeration Remote File Share**

AttributeName	AttributeDisplayName	IsReadOnly	Display Order	PossibleValues
MediaAttachState	Media Attach State	TRUE	1231	Attached / Detached
AttachMode	Media Attach Mode	FALSE	1232	Attach / Auto Attach

1070

1071 **7.6 DCIM_iDRACCardService – iDRAC CardService**

1072 This section describes the implementation for the DCIM_iDRACCardService class. It is used to host the
1073 ApplyAttributes method which is used to change the values of the iDRAC Card attribute values.

1074 **7.6.1 Resource URIs for WinRM®**

1075 The class Resource URI shall be "http://schemas.dell.com/wbem/wscim/1/cim-
1076 schema/2/DCIM_iDRACCardService?__cimnamespace=root/dcim"

1077 The key properties shall be SystemCreationClassName, CreationClassName, SystemName and Name.

1078 The instance Resource URI for DCIM_iDRACCardService instance shall be:

1079 "http://schemas.dell.com/wbem/wscim/1/cim-
1080 schema/2/DCIM_iDRACCardService?__cimnamespace=root/dcim+ SystemCreationClassName=
1081 DCIM_ComputerSystem +CreationClassName= DCIM_iDRACCardService + SystemName= DCIM:ComputerSystem
1082 +Name= DCIM:iDRACCardService"

1083 The following table lists the implemented operations on DCIM_iDRACCardService.

1084 **Table 10 – DCIM_iDRACCardService - Operations**

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

1085

1086 7.6.2 Class Properties

1087 The following table details the implemented properties for DCIM_iDRACCardService instance
1088 representing the integer type attributes of a remote access card in a system. The "Requirements" column
1089 shall denote whether the property is implemented (for requirement definitions, see section 3). The
1090 "Additional Requirements" column shall denote either possible values for the property, or requirements on
1091 the value formulation.

1092

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Table 11 – DCIM_IDRACCardService - Properties

Properties and Methods	Requirements	Type	Requirement and description
SystemCreationClassName	Mandatory	string	Key(This property value shall be "DCIM_ComputerSystem")
CreationClassName	Mandatory	string	Key (This property value shall be "DCIM_iDRACService")
SystemName	Mandatory	string	Key (This property value shall be "DCIM:ComputerSystem")
Name	Mandatory	string	This property shall have value of "DCIM:iDRACCardService".

1097 7.7 iDRAC Card Profile Profile Registration

1098 This section describes the implementation for the DCIM_LCRegisteredProfile class.

1099 This class shall be instantiated in the Interop Namespace: root/interop.

1100 7.7.1 Resource URIs for WinRM®

1101 The class Resource URI shall be "http://schemas.dmtf.org/wbem/wscim/1/cim-
1102 schema/2/CIM_RegisteredProfile?__cimnamespace=root/interop"

1103 The key property shall be the InstanceID property.

1104 The instance Resource URI shall be: "http://schemas.dell.com/wbem/wscim/1/cim-
1105 schema/2/DCIM_LCRegisteredProfile?__cimnamespace=root/interop+InstanceID=
1106 DCIM:iDRACCard:1.0.0"

1107 7.7.2 Operations

1108 The following table lists the implemented operations on DCIM_LCRegisteredProfile.

1109

Table 18 – DCIM_LCRegisteredProfile - Operations

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

1110 **7.7.3 Class Properties**

1111 The following table details the implemented properties for DCIM_LCRegisteredProfile instance
 1112 representing iDRAC Card Profile implementation. The “Requirements” column shall denote whether the
 1113 property is implemented (for requirement definitions, see section 3). The “Additional Requirements”
 1114 column shall denote either possible values for the property, or requirements on the value formulation.

1115 **Table 19 – DCIM_LCRegisteredProfile - Properties**

Property Name	Requirement	Type	Additional Requirements
InstanceID	Mandatory	String	DCIM:iDRACCard:1.0.0
RegisteredName	Mandatory	String	This property shall have a value of "iDRAC Card".
RegisteredVersion	Mandatory	String	This property shall have a value of "1.2.0".
RegisteredOrganization	Mandatory	Uint16	This property shall have a value of 1 (Other).
OtherRegisteredOrganization	Mandatory	String	The property value shall match “DCIM”.
AdvertisedTypes[]	Mandatory	Uint16	This property array shall contain [1(Other), 1 (Other)].
AdvertiseTypeDescriptions[]	Mandatory	String	This property array shall contain ["WS-Identify", "Interop Namespace"].
ProfileRequireLicense[]	Mandatory	String	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[]	Mandatory	String	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: <ul style="list-style-type: none"> • “LICENSED” • “NOT_LICENSED” If no license is required for the profile, the property shall have value NULL.

1116 **8 Methods**

1117 This section details the requirements for supporting extrinsic methods for the CIM elements defined by
 1118 this profile.

1119 **8.1 DCIM_iDRACCardService.SetAttribute()**

1120 The SetAttribute() method is used to set or change the value of a iDRAC Card attribute.

1121 Invocation of the SetAttribute() method shall change the value of the
 1122 DCIM_IDRACCardAttribute.CurrentValue or DCIM_IDRACCardAttribute.PendingValue property to the
 1123 value specified by the AttributeValue parameter if the DCIM_IDRACCardAttribute.IsReadOnly property is
 1124 FALSE.

1125 Invocation of this method when the DCIM_IDRACCardAttribute.IsReadOnly property is TRUE shall result
 1126 in no change to the value of the DCIM_IDRACCardAttribute.CurrentValue property. The results of
 1127 changing this value is described with the SetResult parameter.

1128 Return code values for the SetAttribute() method are specified in Table 82 and parameters are specified
 1129 in Table 83 –. Invoking the SetAttribute() method multiple times can result in the earlier requests being
 1130 overwritten or lost.

1131

1132

Table 82 – SetAttribute() Method: Return Code Values

Value	Description
0	Completed with no error
2	Failed

1133

Table 83 – SetAttribute() Method: Parameters

Qualifiers	Name	Type	Description/Values
IN, REQ	Target	String	FQDD of the iDRAC Card
IN, REQ	AttributeName	String	Shall be formatted in the following way: <GroupID property value>#<AttributeName property value>. Example: "MyGroup#MyAttribute"
IN, REQ	AttributeValue[]	String	Shall contain the required attribute value. For non-array attributes, only the first element shall be populated. If the value is valid, the CurrentValue or PendingValue property of the specified attribute will be modified.
OUT	SetResult	String	Returns: <ul style="list-style-type: none"> • "Set CurrentValue" when the attributes current value is set. • "Set PendingValue" when the attributes pending value is set.
OUT	RebootRequired	String	Returns: <ul style="list-style-type: none"> • "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 in English corresponding to MessageID is returned if the method fails to execute
OUT	MessageArguments[]	String	Substitution variables for dynamic error messages

1134

Table 84 – SetAttribute() Method: Standard Messages

MessageID (OUT parameter)	Message	MessageArguments[]
RAC001	The command was successful	
RAC002	General failure	
RAC003	Missing required parameter <parameter>	AttributeName, AttributeValue, Target
RAC004	Invalid parameter value for <parameter>	AttributeName, AttributeValue, Target
RAC005	Mismatch in AttributeName and AttributeValue count	
RAC006	AttributeValue cannot be changed for ReadOnly Attribute Name	
RAC007	Input out of range	
RAC008	Invalid boolean Value	
RAC009	String exceeds maximum length	

MessageID (OUT parameter)	Message	MessageArguments[]
RAC010	Invalid character value	
RAC011	Job already exists Cannot process more Sets	
RAC012	User is not Authorized to perform this operation	
RAC013	Invalid FQDD	
RAC014	Invalid Attribute was Entered	
RAC015	Not one of the Possible Values for AttributeName	AttributeName
RAC016	Invalid AttributeName	
RAC017	Job created to apply the attribute value	
RAC018	Completed with Errors	
RAC019	Job did not complete successfully.	
RAC020	Completed	
RAC021	DHCP is Enabled so cannot set static values for IPAddress Net mask or Gateway	
RAC022	The User Name is not configured so cannot Enable the User or set values for User Password IPMILan IPMISerial or User Admin Privilege	
RAC023	The User Password is not configured so cannot Enable the User or set values for IPMILan IPMISerial or User Admin Privilege	
RAC024	VLAN is Disabled so cannot set VLAN Priority	
RAC025	DNS from DHCP is Enabled so cannot set values for DNS1 or DNS2	
RAC026	Domain Name from DHCP Enabled so cannot set DNS Domain Name	
RAC027	Auto negotiation is Enabled so cannot set values for Speed or Duplex	
RAC028	DHCP is Disabled so cannot Enable DNS Domain Name From DHCP or DNS From DHCP	
RAC029	Required Dependency not found in input	
RAC030	Required Attribute that this Attribute is dependent on has incorrect value	
RAC031	Invalid Value specified for the User name	
RAC032	Invalid Value specified for the DNS RAC name	
RAC033	IPv4 is Disabled so cannot enable attribute	
RAC034	Job Control Failed to Create a Job	

MessageID (OUT parameter)	Message	MessageArguments[]
RAC035	No Pending Configurations	
RAC037	No pending configurations to delete.	
RAC038	Unable to perform the operation due to an unknown error in iDRAC.	
RAC039	Invalid parameter value for <parameter>.	AttributeName, AttributeValue, Target
RAC040	Missing parameters <parameters>.	AttributeName, AttributeValue, Target
RAC041	The set operation on the event filters failed.	
RAC042	Invalid number of input parameters.	
RAC043	Unable to update some event filter settings.	
RAC044	Unable to update some event filter settings.	
RAC045	Event filter does not exist for input parameter combination.	
RAC046	Unsupported event notification for the event filter specified.	
RAC047	Unsupported event action for the specified event filter.	
RAC048	The operation was successful.	
RAC049	Resource allocation failure.	
RAC050	Invalid country code	
RAC051	Unsupported parameter name <parameter name>	
JCP017	Job creation request unsuccessful. Maximum number of jobs reached.	
JCP018	Cannot create new jobs until the existing Export job is completed or the job is cancelled.	
JCP019	Cannot create new jobs until the existing Import System Profile job is completed or cancelled.	
FM002	Feature(s) not available.	
FM003	A required license is missing or expired. The following features are not enabled: <features>	

1135

1136 **8.2 DCIM_iDRACCardService.SetAttributes()**

1137 The SetAttributes() method is used to set or change the values of a group of attributes.

1138 Invocation of the SetAttributes() method shall change the values of the

1139 DCIM_iDRACCardAttribute.CurrentValue or PendingValue properties that correspond to the names

1140 specified by the AttributeName parameter and the values specified by the AttributeValue parameter if the
 1141 respective DCIM_IDRACCardAttribute.IsReadOnly property is FALSE. Invocation of this method when
 1142 the respective DCIM_IDRACCardAttribute.IsReadOnly property is TRUE shall result in no change to the
 1143 corresponding value of the DCIM_IDRACCardAttribute.CurrentValue property.

1144 NOTE: If setting numerous attributes at the same time, please make sure that WSMAN client has a timeout of at
 1145 least 120 seconds.

1146 Return code values for the SetAttributes() method are specified in Table 85, and parameters are
 1147 specified in Table 86.

1148 Invoking the SetAttributes() method multiple times can result in the earlier requests being overwritten or
 1149 lost.

1150 **Table 85 – SetAttributes() Method: Return Code Values**

Value	Description
0	Completed with no error
2	Failed

1151 **Table 86 – SetAttributes() Method: Parameters**

Qualifiers	Name	Type	Description/Values
IN, REQ	Target	String	FQDD of the iDRAC Card
IN, REQ	AttributeName[]	String	An array of values where each value shall be formatted in the following way: <GroupID property value>#<AttributeName property value>. Example: "MyGroup#MyAttribute"
IN, REQ	AttributeValue[]	String	Shall contain the desired attribute values. Array attributes shall not be set using this method. If the value is valid, the CurrentValue or PendingValue property of the specified attribute will be modified.
OUT	SetResult[]	String	Returns: <ul style="list-style-type: none"> • " Set CurrentValue" when the attributes current value is set. • "Set PendingValue" when the attributes pending value is set.
OUT	RebootRequired[]	String	Returns: <ul style="list-style-type: none"> • "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 in English corresponding to MessageID is returned if the method fails to execute
OUT	MessageArguments[]	String	Substitution variables for dynamic error messages

1152

1153

Table 87 – SetAttributes() Method: Standard Messages

MessageID (OUT parameter)	Message	MessageArguments[]
RAC001	The command was successful	
RAC002	General failure	
RAC003	Missing required parameter <parameter>	AttributeName, AttributeValue, Target
RAC004	Invalid parameter value for <parameter>	AttributeName, AttributeValue, Target
RAC005	Mismatch in AttributeName and AttributeValue count	
RAC006	AttributeValue cannot be changed for ReadOnly Attribute Name	
RAC007	Input out of range	
RAC008	Invalid boolean Value	
RAC009	String exceeds maximum length	
RAC010	Invalid character value	
RAC011	Job already exists Cannot process more Sets	
RAC012	User is not Authorized to perform this operation	
RAC013	Invalid FQDD	
RAC014	Invalid Attribute was Entered	
RAC015	Not one of the Possible Values for AttributeName	AttributeName
RAC016	Invalid AttributeName	
RAC017	Job created to apply the attribute value	
RAC018	Completed with Errors	
RAC019	Job did not complete successfully.	
RAC020	Completed	
RAC021	DHCP is Enabled so cannot set static values for IPAddress Net mask or Gateway	
RAC022	The User Name is not configured so cannot Enable the User or set values for User Password IPMILan IPMISerial or User Admin Privilege	
RAC023	The User Password is not configured so cannot Enable the User or set values for IPMILan IPMISerial or User Admin Privilege	
RAC024	VLAN is Disabled so cannot set VLAN Priority	
RAC025	DNS from DHCP is Enabled so cannot set values for DNS1 or DNS2	
RAC026	Domain Name from DHCP Enabled so cannot set DNS Domain Name	

MessageID (OUT parameter)	Message	MessageArguments[]
RAC027	Auto negotiation is Enabled so cannot set values for Speed or Duplex	
RAC028	DHCP is Disabled so cannot Enable DNS Domain Name From DHCP or DNS From DHCP	
RAC029	Required Dependency not found in input	
RAC030	Required Attribute that this Attribute is dependent on has incorrect value	
RAC031	Invalid Value specified for the User name	
RAC032	Invalid Value specified for the DNS RAC name	
RAC033	IPv4 is Disabled so cannot enable attribute	
RAC034	Job Control Failed to Create a Job	
RAC035	No Pending Configurations	
RAC037	No pending configurations to delete.	
RAC038	Unable to perform the operation due to an unknown error in iDRAC.	
RAC039	Invalid parameter value for <parameter>.	AttributeName, AttributeValue, Target
RAC040	Missing parameters <parameters>.	AttributeName, AttributeValue, Target
RAC041	The set operation on the event filters failed.	
RAC042	Invalid number of input parameters.	
RAC043	Unable to update some event filter settings.	
RAC044	Unable to update some event filter settings.	
RAC045	Event filter does not exist for input parameter combination.	
RAC046	Unsupported event notification for the event filter specified.	
RAC047	Unsupported event action for the specified event filter.	
RAC048	The operation was successful.	
RAC049	Resource allocation failure.	
RAC050	Invalid country code	
RAC051	Unsupported parameter name <parameter name>	
JCP017	Job creation request unsuccessful. Maximum number of jobs reached.	
JCP018	Cannot create new jobs until the	

MessageID (OUT parameter)	Message	MessageArguments[]
	existing Export job is completed or the job is cancelled.	
JCP019	Cannot create new jobs until the existing Import System Profile job is completed or cancelled.	
FM002	Feature(s) not available.	
FM003	A required license is missing or expired. The following features are not enabled: <features>	

1154

1155 **8.3 DCIM_iDRACCardService.CreateTargetedConfigJob()**

1156 The CreateTargetedConfigJob() method is used to apply the pending values created by the SetAttribute
 1157 and SetAttributes methods. The successful execution of this method creates a job to apply the pending
 1158 attribute values.

1159 The CreateTargetedConfigJob() method supports the following optional input parameters:

- 1160 1. RebootJobType: When provided in the input parameters, creates a specific reboot job to
 1161 "PowerCycle", "Graceful Reboot without forced shutdown", or "Graceful Reboot with forced
 1162 shutdown". This parameter only creates the RebootJob and does not schedule it.
- 1163 2. ScheduledStartTime: When provided in the input parameters, schedules the "configuration job"
 1164 and the optional "reboot job" at the specified start time. A special value of "TIME_NOW"
 1165 schedules the job(s) immediately.
- 1166 3. UntilTime: This parameter has a dependency on "ScheduledStartTime". The
 1167 "ScheduledStartTime" and "UntilTime" define a time window for scheduling the job(s). Once
 1168 scheduled, jobs are executed within the time window.

1169 If CreateTargetedConfigJob() method is executed without the three optional parameters discussed above,
 1170 then the configuration job is created but not scheduled. However, this configuration job can be scheduled
 1171 later using the DCIM_JobService.SetupJobQueue() method from the "Job Control Profile".
 1172 DCIM_JobService.SetupJobQueue () can be executed to schedule several configuration jobs including
 1173 the reboot job. See the "Job Control Profile" for more details.

1174 Return code values for the CreateTargetedConfigJob() method are specified in Table 88, and parameters
 1175 are specified in Table 89.

1176 Subsequent calls to CreateTargetedConfigJob after the first CreateTargetedConfigJob results in error
 1177 until the first job is completed.

1178 **Table 88 – CreateTargetedConfigJob() Method: Return Code Values**

Value	Description
2	Failed
4096	Job Created

1179 **Table 89 – CreateTargetedConfigJob() Method: Parameters**

Qualifiers	Name	Type	Description/Values
IN, REQ	Target	String	FQDD of the iDRAC Card

Qualifiers	Name	Type	Description/Values
IN	RebootJobType	Uint16	Shall contain the requested reboot type: <ul style="list-style-type: none"> • 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: yyyyymmddhhmmss. The string "TIME_NOW" means immediate.
IN	UntilTime	String	End time for the job execution in format: yyyyymmddhhmmss. If this parameter is not NULL, then ScheduledStartTime parameter shall also be specified.
OUT	Job	CIM_ConcreteJob 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	Job Completed Error Message in English
OUT	MessageArguments[]	String	Substitution variables for dynamic error message.

1180

Table 90 – CreateTargetedConfigJob() Method: Standard Messages

MessageID (OUT parameter)	Message	MessageArguments[]
RAC001	The command was successful	
RAC002	General failure	
RAC003	Missing required parameter <parameter>	AttributeName, AttributeValue, Target
RAC004	Invalid parameter value for <parameter>	AttributeName, AttributeValue, Target
RAC005	Mismatch in AttributeName and AttributeValue count	
RAC006	AttributeValue cannot be changed for ReadOnly Attribute Name	
RAC007	Input out of range	
RAC008	Invalid boolean Value	
RAC009	String exceeds maximum length	
RAC010	Invalid character value	
RAC011	Job already exists Cannot process more Sets	
RAC012	User is not Authorized to perform this operation	
RAC013	Invalid FQDD	
RAC014	Invalid Attribute was Entered	
RAC015	Not one of the Possible Values for AttributeName	AttributeName
RAC016	Invalid AttributeName	
RAC017	Job created to apply the attribute value	

MessageID (OUT parameter)	Message	MessageArguments[]
RAC018	Completed with Errors	
RAC019	Job did not complete successfully.	
RAC020	Completed	
RAC021	DHCP is Enabled so cannot set static values for IPAddress Net mask or Gateway	
RAC022	The User Name is not configured so cannot Enable the User or set values for User Password IPMILan IPMISerial or User Admin Privilege	
RAC023	The User Password is not configured so cannot Enable the User or set values for IPMILan IPMISerial or User Admin Privilege	
RAC024	VLAN is Disabled so cannot set VLAN Priority	
RAC025	DNS from DHCP is Enabled so cannot set values for DNS1 or DNS2	
RAC026	Domain Name from DHCP Enabled so cannot set DNS Domain Name	
RAC027	Auto negotiation is Enabled so cannot set values for Speed or Duplex	
RAC028	DHCP is Disabled so cannot Enable DNS Domain Name From DHCP or DNS From DHCP	
RAC029	Required Dependency not found in input	
RAC030	Required Attribute that this Attribute is dependent on has incorrect value	
RAC031	Invalid Value specified for the User name	
RAC032	Invalid Value specified for the DNS RAC name	
RAC033	IPv4 is Disabled so cannot enable attribute	
RAC034	Job Control Failed to Create a Job	
RAC035	No Pending Configurations	
RAC037	No pending configurations to delete.	
RAC038	Unable to perform the operation due to an unknown error in iDRAC.	
RAC039	Invalid parameter value for <parameter>.	AttributeName, AttributeValue, Target
RAC040	Missing parameters <parameters>.	AttributeName, AttributeValue, Target
RAC041	The set operation on the event filters failed.	
RAC042	Invalid number of input parameters.	
RAC043	Unable to update some event filter	

MessageID (OUT parameter)	Message	MessageArguments[]
	settings.	
RAC044	Unable to update some event filter settings.	
RAC045	Event filter does not exist for input parameter combination.	
RAC046	Unsupported event notification for the event filter specified.	
RAC047	Unsupported event action for the specified event filter.	
RAC048	The operation was successful.	
RAC049	Resource allocation failure.	
RAC050	Invalid country code	
RAC051	Unsupported parameter name <parameter name>	
JCP017	Job creation request unsuccessful. Maximum number of jobs reached.	
JCP018	Cannot create new jobs until the existing Export job is completed or the job is cancelled.	
JCP019	Cannot create new jobs until the existing Import System Profile job is completed or cancelled.	
FM002	Feature(s) not available.	
FM003	A required license is missing or expired. The following features are not enabled: <features>	

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1183 **8.4 DCIM_iDRACCardService.DeletePendingConfiguration()**

1184 The DeletePendingConfiguration() method is used to cancel the pending values created by the
 1185 SetAttribute and SetAttributes methods. The DeletePendingConfiguration() method cancels the pending
 1186 configuration changes made before the configuration job is created with CreateTargetedConfigJob(). This
 1187 method only operates on the pending changes prior to CreateTargetedConfigJob() being called. After the
 1188 configuration job is created, the pending changes can only be canceled by calling DeleteJobQueue()
 1189 method in the Job Control profile.

1190 Return code values for the DeletePendingConfiguration() method are specified in Table 91 , and
 1191 parameters are specified in Table 92.

1192 **Table 91 – DeletePendingConfiguration() Method: Return Code Values**

Value	Description
0	Success
2	Failed

1193

1194

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Table 92 – DeletePendingConfiguration() Method: Parameters

Qualifiers	Name	Type	Description/Values
IN, REQ	Target	String	FQDD of the iDRAC Card
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

1196

Table 93 – DeletePendingConfiguration() Method: Standard Messages

MessageID (OUT parameter)	Message	MessageArguments[]
RAC001	The command was successful	
RAC002	General failure	
RAC003	Missing required parameter <parameter>	AttributeName, AttributeValue, Target
RAC004	Invalid parameter value for <parameter>	AttributeName, AttributeValue, Target
RAC005	Mismatch in AttributeName and AttributeValue count	
RAC006	AttributeValue cannot be changed for ReadOnly Attribute Name	
RAC007	Input out of range	
RAC008	Invalid boolean Value	
RAC009	String exceeds maximum length	
RAC010	Invalid character value	
RAC011	Job already exists Cannot process more Sets	
RAC012	User is not Authorized to perform this operation	
RAC013	Invalid FQDD	
RAC014	Invalid Attribute was Entered	
RAC015	Not one of the Possible Values for AttributeName	AttributeName
RAC016	Invalid AttributeName	
RAC017	Job created to apply the attribute value	
RAC018	Completed with Errors	
RAC019	Job did not complete successfully.	
RAC020	Completed	
RAC021	DHCP is Enabled so cannot set static values for IPAddress Net mask or Gateway	
RAC022	The User Name is not configured so cannot Enable the User or set values for User Password IPMILan IPMISerial or User Admin Privilege	

MessageID (OUT parameter)	Message	MessageArguments[]
RAC023	The User Password is not configured so cannot Enable the User or set values for IPMLan IPMISerial or User Admin Privilege	
RAC024	VLAN is Disabled so cannot set VLAN Priority	
RAC025	DNS from DHCP is Enabled so cannot set values for DNS1 or DNS2	
RAC026	Domain Name from DHCP Enabled so cannot set DNS Domain Name	
RAC027	Auto negotiation is Enabled so cannot set values for Speed or Duplex	
RAC028	DHCP is Disabled so cannot Enable DNS Domain Name From DHCP or DNS From DHCP	
RAC029	Required Dependency not found in input	
RAC030	Required Attribute that this Attribute is dependent on has incorrect value	
RAC031	Invalid Value specified for the User name	
RAC032	Invalid Value specified for the DNS RAC name	
RAC033	IPv4 is Disabled so cannot enable attribute	
RAC034	Job Control Failed to Create a Job	
RAC035	No Pending Configurations	
RAC037	No pending configurations to delete.	
RAC038	Unable to perform the operation due to an unknown error in iDRAC.	
RAC039	Invalid parameter value for <parameter>.	AttributeName, AttributeValue, Target
RAC040	Missing parameters <parameters>.	AttributeName, AttributeValue, Target
RAC041	The set operation on the event filters failed.	
RAC042	Invalid number of input parameters.	
RAC043	Unable to update some event filter settings.	
RAC044	Unable to update some event filter settings.	
RAC045	Event filter does not exist for input parameter combination.	
RAC046	Unsupported event notification for the event filter specified.	
RAC047	Unsupported event action for the specified event filter.	

MessageID (OUT parameter)	Message	MessageArguments[]
RAC048	The operation was successful.	
RAC049	Resource allocation failure.	
RAC050	Invalid country code	
RAC051	Unsupported parameter name <parameter name>	
JCP017	Job creation request unsuccessful. Maximum number of jobs reached.	
JCP018	Cannot create new jobs until the existing Export job is completed or the job is cancelled.	
JCP019	Cannot create new jobs until the existing Import System Profile job is completed or cancelled.	
FM002	Feature(s) not available.	
FM003	A required license is missing or expired. The following features are not enabled: <features>	

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1200 **8.5 DCIM_iDRACCardService.ApplyAttributes()**

1201 The ApplyAttributes() method is used to set or change the value of a iDRAC Card attribute.

1202 NOTE: If setting numerous attributes at the same time, please make sure that WSMAN client has a timeout of at
 1203 least 120 seconds.

1204 **Table 94 – ApplyAttributes() Method: Return Code Values**

Value	Description
2	Error
4096	Job Created

1205 **Table 95 – ApplyAttributes() Method: Parameters**

Qualifiers	Name	Type	Description/Values
IN, REQ	Target	String	FQDD of the iDRAC Card
IN, REQ	AttributeName[]	String	An array of values, where each value shall be formatted in the following way: <GroupID property value>#<AttributeName property value>. Example: "MyGroup#MyAttribute"
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.
OUT	Job	CIM_ConcreteJob REF	Returned to keep track of concrete job status
OUT	MessageID[]	String	Error message IDs may be used to look-up in the Dell Message registry files. For more information, see Error Message Registry.
OUT	Message[]	String	Error messages in English corresponding to MessageID is returned if an attribute set fails

1206 **Table 96 – ApplyAttributes() Method: Standard Messages**

MessageID (OUT parameter)	Message	MessageArguments[]
RAC001	The command was succesful	
RAC002	General failure	
RAC003	Missing required <parameter>	AttributeName, AttributeValue, Target
RAC004	Invalid parameter value for <parameter>	AttributeName, AttributeValue, Target
RAC005	Mismatch in AttributeName and AttributeValue count	
RAC006	AttributeValue cannot be changed for ReadOnly Attribbute Name	
RAC007	Input out of range	
RAC008	Invalid boolean Value	
RAC009	String Exceeds max length	

MessageID (OUT parameter)	Message	MessageArguments[]
RAC010	Invalid character value	
RAC011	Job already exists, cannot process more sets	
RAC012	User is not authorized to perform this operation	
RAC013	Invalid FQDD	
RAC014	Invalid attribute was entered	
RAC015	Not one of the possible values for AttributeName	AttributeName
RAC016	Invalid AttributeName %s	AttributeName
RAC017	Job created to apply the attribute value	
RAC018	Completed with errors	
RAC019	Failed	
RAC020	Completed	
RAC021	DHCP is enabled. Therefore, cannot set static values for IPAddress Net mask or Gateway.	
RAC022	The User Name is not configured so cannot Enable the User or set values for User Password IPMILan IPMISerial or User Admin Privilege.	
RAC023	The User Password is not configured, cannot Enable the User or set values for IPMILan IPMISerial or User Admin Privilege.	
RAC024	VLAN is disabled, cannot set VLAN Priority	
RAC025	DNS from DHCP is Enabled, cannot set values for DNS1 or DNS2	
RAC026	Domain Name from DHCP Enabled, cannot set DNS Domain Name	
RAC027	Auto negotiation is Enabled, cannot set values for Speed or Duplex	
RAC028	DHCP is Disabled, cannot Enable DNS Domain Name From DHCP or DNS From DHCP	
RAC029	Required Dependency not found in input	
RAC030	Required Attribute that this attribute is dependent on has incorrect value	
RAC031	Invalid value specified for the User name	
RAC032	Invalid value specified for the DNS RAC name	
RAC033	IPv4 is Disabled so cannot enable attribute	
RAC034	Job Control failed to create a job	
RAC035	No pending configurations	

MessageID (OUT parameter)	Message	MessageArguments[]
RAC037	Attribute dependency failed	
RAC038	The command failed	
RAC039	Invalid parameter value for %s	AttributeName, AttributeValue, Target
RAC040	Missing parameter(s) %s	AttributeName, AttributeValue, Target
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.	

1207 8.6 DCIM_iDRACCardService.SendTestEmailAlert()

1208 This method is used to to send a test email alert for a particular attribute.

1209 Return code values for the SendTestEmailAlert() method are specified in Table 97, and parameters are
1210 specified in Table 98.

1211 **Table 97 – SendTestEmailAlert() Method: Return Code Values**

Value	Description
0	Completed with No Error
2	Failed

1212 **Table 98 – SendTestEmailAlert () Method: Parameters**

Qualifiers	Name	Type	Description/Values
IN, REQ	InstanceID	String	The property shall have the value of the InstanceID property of the attribute for which the test email alert is generated.
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
OUT	MessageArguments[]	String	Substitution variables for dynamic error message.

1213 **Table 99 – SendTestEmailAlert () Method: Standard Messages**

MessageID (OUT parameter)	Message	MessageArguments[]
RAC001	The command was successful	
RAC002	General failure	
RAC003	Missing required parameter <parameter>	AttributeName, AttributeValue, Target
RAC004	Invalid parameter value for <parameter>	AttributeName, AttributeValue, Target
RAC005	Mismatch in AttributeName and	

MessageID (OUT parameter)	Message	MessageArguments[]
	AttributeValue count	
RAC006	AttributeValue cannot be changed for ReadOnly Attribute Name	
RAC007	Input out of range	
RAC008	Invalid boolean Value	
RAC009	String exceeds maximum length	
RAC010	Invalid character value	
RAC012	User is not Authorized to perform this operation	
RAC013	Invalid FQDD	
RAC014	Invalid Attribute was Entered	
RAC015	Not one of the Possible Values for AttributeName	AttributeName
RAC016	Invalid AttributeName	
RAC018	Completed with Errors	
RAC020	Completed	
RAC021	DHCP is Enabled so cannot set static values for IPAddress Net mask or Gateway	
RAC022	The User Name is not configured so cannot Enable the User or set values for User Password IPMILan IPMISerial or User Admin Privilege	
RAC023	The User Password is not configured so cannot Enable the User or set values for IPMILan IPMISerial or User Admin Privilege	
RAC024	VLAN is Disabled so cannot set VLAN Priority	
RAC025	DNS from DHCP is Enabled so cannot set values for DNS1 or DNS2	
RAC026	Domain Name from DHCP Enabled so cannot set DNS Domain Name	
RAC027	Auto negotiation is Enabled so cannot set values for Speed or Duplex	
RAC028	DHCP is Disabled so cannot Enable DNS Domain Name From DHCP or DNS From DHCP	
RAC029	Required Dependency not found in input	
RAC030	Required Attribute that this Attribute is dependent on has incorrect value	
RAC031	Invalid Value specified for the User name	
RAC032	Invalid Value specified for the DNS RAC name	
RAC033	IPv4 is Disabled so cannot enable attribute	

MessageID (OUT parameter)	Message	MessageArguments[]
RAC035	No Pending Configurations	
RAC037	No pending configurations to delete.	
RAC038	Unable to perform the operation due to an unknown error in iDRAC.	
RAC039	Invalid parameter value for <parameter>.	AttributeName, AttributeValue, Target
RAC040	Missing parameters <parameters>.	AttributeName, AttributeValue, Target
RAC041	The set operation on the event filters failed.	
RAC042	Invalid number of input parameters.	
RAC043	Unable to update some event filter settings.	
RAC044	Unable to update some event filter settings.	
RAC045	Event filter does not exist for input parameter combination.	
RAC046	Unsupported event notification for the event filter specified.	
RAC047	Unsupported event action for the specified event filter.	
RAC048	The operation was successful.	
RAC049	Resource allocation failure.	
RAC050	Invalid country code	
RAC051	Unsupported parameter name <parameter name>	
FM002	Feature(s) not available.	
FM003	A required license is missing or expired. The following features are not enabled: <features>	

1214

1215 **8.7 DCIM_iDRACCardService.SendTestSNMPTrap()**

1216 This method is used to to send a test snmp alert for a particular attribute.

1217 Return code values for the SendTestSNMPTrap() method are specified in Table 100, and parameters are
1218 specified in Table 101.

1219 **Table 100 – SendTestSNMPTrap() Method: Return Code Values**

Value	Description
0	Completed with No Error
2	Failed

1220

Table 101 – SendTestSNMPTrap() Method: Parameters

Qualifiers	Name	Type	Description/Values
IN, REQ	InstanceID	String	The property shall have the value of the InstanceID property of the attribute for which the test email alert is generated.
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
OUT	MessageArguments[]	String	Substitution variables for dynamic error message.

1221

Table 102 – SendTestSNMPTrap() Method: Standard Messages

MessageID (OUT parameter)	Message	MessageArguments[]
RAC001	The command was successful	
RAC002	General failure	
RAC003	Missing required parameter <parameter>	AttributeName, AttributeValue, Target
RAC004	Invalid parameter value for <parameter>	AttributeName, AttributeValue, Target
RAC005	Mismatch in AttributeName and AttributeValue count	
RAC006	AttributeValue cannot be changed for ReadOnly Attribute Name	
RAC007	Input out of range	
RAC008	Invalid boolean Value	
RAC009	String exceeds maximum length	
RAC010	Invalid character value	
RAC012	User is not Authorized to perform this operation	
RAC013	Invalid FQDD	
RAC014	Invalid Attribute was Entered	
RAC015	Not one of the Possible Values for AttributeName	AttributeName
RAC016	Invalid AttributeName	
RAC018	Completed with Errors	
RAC020	Completed	
RAC021	DHCP is Enabled so cannot set static values for IPAddress Net mask or Gateway	
RAC022	The User Name is not configured so cannot Enable the User or set values for User Password IPMILan IPMISerial or User Admin Privilege	
RAC023	The User Password is not configured so cannot Enable the User or set values for IPMILan IPMISerial or User Admin Privilege	
RAC024	VLAN is Disabled so cannot set	

MessageID (OUT parameter)	Message	MessageArguments[]
	VLAN Priority	
RAC025	DNS from DHCP is Enabled so cannot set values for DNS1 or DNS2	
RAC026	Domain Name from DHCP Enabled so cannot set DNS Domain Name	
RAC027	Auto negotiation is Enabled so cannot set values for Speed or Duplex	
RAC028	DHCP is Disabled so cannot Enable DNS Domain Name From DHCP or DNS From DHCP	
RAC029	Required Dependency not found in input	
RAC030	Required Attribute that this Attribute is dependent on has incorrect value	
RAC031	Invalid Value specified for the User name	
RAC032	Invalid Value specified for the DNS RAC name	
RAC033	IPv4 is Disabled so cannot enable attribute	
RAC035	No Pending Configurations	
RAC037	No pending configurations to delete.	
RAC038	Unable to perform the operation due to an unknown error in iDRAC.	
RAC039	Invalid parameter value for <parameter>.	AttributeName, AttributeValue, Target
RAC040	Missing parameters <parameters>.	AttributeName, AttributeValue, Target
RAC041	The set operation on the event filters failed.	
RAC042	Invalid number of input parameters.	
RAC043	Unable to update some event filter settings.	
RAC044	Unable to update some event filter settings.	
RAC045	Event filter does not exist for input parameter combination.	
RAC046	Unsupported event notification for the event filter specified.	
RAC047	Unsupported event action for the specified event filter.	
RAC048	The operation was successful.	
RAC049	Resource allocation failure.	
RAC050	Invalid country code	
RAC051	Unsupported parameter name	

MessageID (OUT parameter)	Message	MessageArguments[]
	<parameter name>	
FM002	Feature(s) not available.	
FM003	A required license is missing or expired. The following features are not enabled: <features>	

1222

1223

1224 9 Use Cases

1225 See *Lifecycle Controller (LC) Integration Best Practices Guide*.

1226 10 CIM Elements

1227 No additional details specified.

1228

1229 11 Privilege and License Requirement

1230 The following table describes the privilege and license requirements for the listed operations . For the
 1231 detailed explanation of the privileges and licenses, refer to the Dell WSMAN Licenses and Privileges
 1232 specification.

1233

Table 103 – Privilege and License Requirements

Class and Method	Instance (GroupID.Attribute Name)	Operation	Required User Privilege	Required License
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Class and Method	Instance (GroupID.Attribute Name)	Operation	Required User Privilege	Required License
DCIM_iDRACCardView		ENUMERATE, GET	Login	None.
DCIM_iDRACCardService		ENUMERATE, GET	Login	None.
DCIM_iDRACCardService. ApplyAttributes()		INVOKE	Login, Configure	LM_REMOTE_CONFIGURATION & ONE_OF_THE_BELOW
DCIM_iDRACCardService. SetAttribute()		INVOKE	Login, Configure	LM_REMOTE_CONFIGURATION & ONE_OF_THE_BELOW
DCIM_iDRACCardService. SetAttributes()		INVOKE	Login, Configure	LM_REMOTE_CONFIGURATION & ONE_OF_THE_BELOW
DCIM_iDRACCardService. SetAttribute(); DCIM_iDRACCardService. SetAttributes(); DCIM_iDRACCardService. ApplyAttributes()	Users.UserName	INVOKE	Login, Configure Users	LM_REMOTE_CONFIGURATION
DCIM_iDRACCardService. SetAttribute(); DCIM_iDRACCardService. SetAttributes(); DCIM_iDRACCardService. ApplyAttributes()	Users.Password	INVOKE	Login, Configure Users	LM_REMOTE_CONFIGURATION
DCIM_iDRACCardService. SetAttribute(); DCIM_iDRACCardService. SetAttributes(); DCIM_iDRACCardService. ApplyAttributes()	Users.IpmiLanPrivilege	INVOKE	Login, Configure Users	LM_REMOTE_CONFIGURATION
DCIM_iDRACCardService. SetAttribute(); DCIM_iDRACCardService. SetAttributes(); DCIM_iDRACCardService. ApplyAttributes()	Users.IpmiSerialPrivilege	INVOKE	Login, Configure Users	LM_REMOTE_CONFIGURATION
DCIM_iDRACCardService. SetAttribute(); DCIM_iDRACCardService. SetAttributes(); DCIM_iDRACCardService. ApplyAttributes()	Users.Enable	INVOKE	Login, Configure Users	LM_REMOTE_CONFIGURATION
DCIM_iDRACCardService. SetAttribute(); DCIM_iDRACCardService. SetAttributes(); DCIM_iDRACCardService. ApplyAttributes()	Users.SolEnable	INVOKE	Login, Configure Users	LM_REMOTE_CONFIGURATION

Class and Method	Instance (GroupID.Attribute Name)	Operation	Required User Privilege	Required License
DCIM_iDRACCardService. SetAttribute(); DCIM_iDRACCardService. SetAttributes(); DCIM_iDRACCardService. ApplyAttributes()	Users.Privilege	INVOKE	Login, Configure Users	LM_REMOTE_CONFIG URATION
DCIM_iDRACCardService. CreateTargetedConfigJob()		INVOKE	Login, Configure	LM_REMOTE_CONFIG URATION
DCIM_iDRACCardService. DeletePendingConfiguration()		INVOKE	Login, Configure	LM_REMOTE_CONFIG URATION
DCIM_iDRACCardService. SendTestEmailAlert()		INVOKE	Login, System Operations	LM_REMOTE_CONFIG URATION & LM_EMAIL_ALERTING
DCIM_iDRACCardService. SendTestSNMPTrap()		INVOKE	Login, System Operations	LM_REMOTE_CONFIG URATION & LM_SNMP
DCIM_LCElementConformsToProfile		ENUMERATE, GET	Login	None.
DCIM_LCRegisteredProfile		ENUMERATE, GET	Login	None.
DCIM_iDRACCardEnumeration	NIC.DNSRegister	ENUMERATE, GET	Login	LM_DYNAMIC_DNS
DCIM_iDRACCardString	NIC.DNSRacName	ENUMERATE, GET	Login	LM_DYNAMIC_DNS
DCIM_iDRACCardEnumeration	IPv6.DNSFromDHCP6	ENUMERATE, GET	Login	LM_IPV6
DCIM_iDRACCardString	IPv6.DNS1	ENUMERATE, GET	Login	LM_IPV6
DCIM_iDRACCardString	IPv6.DNS2	ENUMERATE, GET	Login	LM_IPV6
DCIM_iDRACCardEnumeration	IPv6.Enable	ENUMERATE, GET	Login	LM_IPV6
DCIM_iDRACCardEnumeration	IPv6.AutoConfig	ENUMERATE, GET	Login	LM_IPV6
DCIM_iDRACCardString	IPv6.Address1	ENUMERATE, GET	Login	LM_IPV6
DCIM_iDRACCardString	IPv6.Gateway	ENUMERATE, GET	Login	LM_IPV6
DCIM_iDRACCardString	IPv6.LinkLocalAddress	ENUMERATE, GET	Login	LM_IPV6
DCIM_iDRACCardInteger	IPv6.PrefixLength	ENUMERATE, GET	Login	LM_IPV6
DCIM_iDRACCardString	IPv6.Address2	ENUMERATE, GET	Login	LM_IPV6
DCIM_iDRACCardInteger	IPv6.IPv6NumOfExtAddress	ENUMERATE, GET	Login	LM_IPV6
DCIM_iDRACCardString	IPv6.Address3	ENUMERATE, GET	Login	LM_IPV6

Class and Method	Instance (GroupID.Attribute Name)	Operation	Required User Privilege	Required License
DCIM_iDRACCardString	IPv6.Address4	ENUMERATE, GET	Login	LM_IPV6
DCIM_iDRACCardString	IPv6.Address5	ENUMERATE, GET	Login	LM_IPV6
DCIM_iDRACCardString	IPv6.Address6	ENUMERATE, GET	Login	LM_IPV6
DCIM_iDRACCardString	IPv6.Address7	ENUMERATE, GET	Login	LM_IPV6
DCIM_iDRACCardString	IPv6.Address8	ENUMERATE, GET	Login	LM_IPV6
DCIM_iDRACCardString	IPv6.Address9	ENUMERATE, GET	Login	LM_IPV6
DCIM_iDRACCardString	IPv6.Address10	ENUMERATE, GET	Login	LM_IPV6
DCIM_iDRACCardString	IPv6.Address11	ENUMERATE, GET	Login	LM_IPV6
DCIM_iDRACCardString	IPv6.Address12	ENUMERATE, GET	Login	LM_IPV6
DCIM_iDRACCardString	IPv6.Address13	ENUMERATE, GET	Login	LM_IPV6
DCIM_iDRACCardString	IPv6.Address14	ENUMERATE, GET	Login	LM_IPV6
DCIM_iDRACCardString	IPv6.Address15	ENUMERATE, GET	Login	LM_IPV6
DCIM_iDRACCardString	IPv6.Address16	ENUMERATE, GET	Login	LM_IPV6
DCIM_iDRACCardInteger	SNMPTrapIpv6.DestinationNum	ENUMERATE, GET	Login	LM_IPV6 & LM_SNMP
DCIM_iDRACCardEnumeration	SNMPTrapIpv6.State	ENUMERATE, GET	Login	LM_IPV6 & LM_SNMP
DCIM_iDRACCardString	SNMPTrapIpv6.DestIPv6Addr	ENUMERATE, GET	Login	LM_IPV6 & LM_SNMP
DCIM_iDRACCardEnumeration	EmailAlert.Enable	ENUMERATE, GET	Login	LM_EMAIL_ALERTING
DCIM_iDRACCardString	EmailAlert.Address	ENUMERATE, GET	Login	LM_EMAIL_ALERTING
DCIM_iDRACCardString	EmailAlert.CustomMsg	ENUMERATE, GET	Login	LM_EMAIL_ALERTING
DCIM_iDRACCardEnumeration	SNMP.AgentEnable	ENUMERATE, GET	Login	LM_SNMP
DCIM_iDRACCardString	SNMP.AgentCommunity	ENUMERATE, GET	Login	LM_SNMP
DCIM_iDRACCardEnumeration	IPBlocking.RangeEnable	ENUMERATE, GET	Login	LM_SECURITY_LOCKOUT
DCIM_iDRACCardString	IPBlocking.RangeAddr	ENUMERATE, GET	Login	LM_SECURITY_LOCKOUT
DCIM_iDRACCardString	IPBlocking.RangeMask	ENUMERATE, GET	Login	LM_SECURITY_LOCKOUT

Class and Method	Instance (GroupID.Attribute Name)	Operation	Required User Privilege	Required License
DCIM_iDRACCardEnumeration	IPBlocking.BlockEnable	ENUMERATE, GET	Login	LM_SECURITY_LOCKOUT
DCIM_iDRACCardInteger	IPBlocking.FailCount	ENUMERATE, GET	Login	LM_SECURITY_LOCKOUT
DCIM_iDRACCardInteger	IPBlocking.FailWindow	ENUMERATE, GET	Login	LM_SECURITY_LOCKOUT
DCIM_iDRACCardInteger	IPBlocking.PenaltyTime	ENUMERATE, GET	Login	LM_SECURITY_LOCKOUT
DCIM_iDRACCardEnumeration	SysLog.SyslogEnable	ENUMERATE, GET	Login	LM_REMOTE_SYSLOG
DCIM_iDRACCardString	SysLog.Port	ENUMERATE, GET	Login	LM_REMOTE_SYSLOG
DCIM_iDRACCardString	SysLog.Server1	ENUMERATE, GET	Login	LM_REMOTE_SYSLOG
DCIM_iDRACCardString	SysLog.Server2	ENUMERATE, GET	Login	LM_REMOTE_SYSLOG
DCIM_iDRACCardString	SysLog.Server3	ENUMERATE, GET	Login	LM_REMOTE_SYSLOG
DCIM_iDRACCardString	Users.UserName	ENUMERATE, GET	Login	LM_REMOTE_CONFIGURATION
DCIM_iDRACCardString	Users.Password	ENUMERATE, GET	Login	LM_REMOTE_CONFIGURATION
DCIM_iDRACCardEnumeration	Users.IpmiLanPrivilege	ENUMERATE, GET	Login	LM_REMOTE_CONFIGURATION
DCIM_iDRACCardEnumeration	Users.IpmiSerialPrivilege	ENUMERATE, GET	Login	LM_REMOTE_CONFIGURATION
DCIM_iDRACCardEnumeration	Users.Enable	ENUMERATE, GET	Login	LM_REMOTE_CONFIGURATION
DCIM_iDRACCardEnumeration	Users.SolEnable	ENUMERATE, GET	Login	LM_REMOTE_CONFIGURATION
DCIM_iDRACCardInteger	Users.Privilege	ENUMERATE, GET	Login	LM_REMOTE_CONFIGURATION
DCIM_iDRACCardEnumeration	AD.Enable	ENUMERATE, GET	Login	LM_DIRECTORY_SERVICES
DCIM_iDRACCardString	AD.RacName	ENUMERATE, GET	Login	LM_DIRECTORY_SERVICES
DCIM_iDRACCardString	AD.RacDomain	ENUMERATE, GET	Login	LM_DIRECTORY_SERVICES
DCIM_iDRACCardInteger	AD.AuthTimeout	ENUMERATE, GET	Login	LM_DIRECTORY_SERVICES
DCIM_iDRACCardEnumeration	AD.Schema	ENUMERATE, GET	Login	LM_DIRECTORY_SERVICES
DCIM_iDRACCardString	AD.DomainController1	ENUMERATE, GET	Login	LM_DIRECTORY_SERVICES
DCIM_iDRACCardString	AD.DomainController2	ENUMERATE, GET	Login	LM_DIRECTORY_SERVICES
DCIM_iDRACCardString	AD.DomainController3	ENUMERATE, GET	Login	LM_DIRECTORY_SERVICES

Class and Method	Instance (GroupID.Attribute Name)	Operation	Required User Privilege	Required License
DCIM_iDRACCardString	AD.GlobalCatalog1	ENUMERATE, GET	Login	LM_DIRECTORY_SERVICES
DCIM_iDRACCardString	AD.GlobalCatalog2	ENUMERATE, GET	Login	LM_DIRECTORY_SERVICES
DCIM_iDRACCardString	AD.GlobalCatalog3	ENUMERATE, GET	Login	LM_DIRECTORY_SERVICES
DCIM_iDRACCardEnumeration	AD.CertValidationEnable	ENUMERATE, GET	Login	LM_DIRECTORY_SERVICES
DCIM_iDRACCardEnumeration	AD.SSOEnable	ENUMERATE, GET	Login	LM_DIRECTORY_SERVICES
DCIM_iDRACCardEnumeration	AD.DCLookupEnable	ENUMERATE, GET	Login	LM_DIRECTORY_SERVICES
DCIM_iDRACCardEnumeration	AD.DCLookupByUserDomain	ENUMERATE, GET	Login	LM_DIRECTORY_SERVICES
DCIM_iDRACCardString	AD.DCLookupDomainName	ENUMERATE, GET	Login	LM_DIRECTORY_SERVICES
DCIM_iDRACCardEnumeration	AD.GCLookupEnable	ENUMERATE, GET	Login	LM_DIRECTORY_SERVICES
DCIM_iDRACCardString	AD.GCRootDomain	ENUMERATE, GET	Login	LM_DIRECTORY_SERVICES
DCIM_iDRACCardEnumeration	LDAP.Enable	ENUMERATE, GET	Login	LM_DIRECTORY_SERVICES
DCIM_iDRACCardString	LDAP.Server	ENUMERATE, GET	Login	LM_DIRECTORY_SERVICES
DCIM_iDRACCardInteger	LDAP.Port	ENUMERATE, GET	Login	LM_DIRECTORY_SERVICES
DCIM_iDRACCardString	LDAP.BaseDN	ENUMERATE, GET	Login	LM_DIRECTORY_SERVICES
DCIM_iDRACCardString	LDAP.UserAttribute	ENUMERATE, GET	Login	LM_DIRECTORY_SERVICES
DCIM_iDRACCardString	LDAP.GroupAttribute	ENUMERATE, GET	Login	LM_DIRECTORY_SERVICES
DCIM_iDRACCardEnumeration	LDAP.GroupAttributelsDN	ENUMERATE, GET	Login	LM_DIRECTORY_SERVICES
DCIM_iDRACCardString	LDAP.BindDN	ENUMERATE, GET	Login	LM_DIRECTORY_SERVICES
DCIM_iDRACCardString	LDAP.BindPassword	ENUMERATE, GET	Login	LM_DIRECTORY_SERVICES
DCIM_iDRACCardString	LDAP.SearchFilter	ENUMERATE, GET	Login	LM_DIRECTORY_SERVICES
DCIM_iDRACCardEnumeration	LDAP.CertValidationEnable	ENUMERATE, GET	Login	LM_DIRECTORY_SERVICES
DCIM_iDRACCardString	LDAPRoleGroup.DN	ENUMERATE, GET	Login	LM_DIRECTORY_SERVICES
DCIM_iDRACCardInteger	LDAPRoleGroup.Privilege	ENUMERATE	Login	LM_DIRECTORY_SERVICES
DCIM_iDRACCardEnumeration	SmartCard.SmartCardLogonEnable	ENUMERATE, GET	Login	LM_TWO_FACTOR_AUTHEN

Class and Method	Instance (GroupID.Attribute Name)	Operation	Required User Privilege	Required License
DCIM_iDRACCardEnumeration	SmartCard.SmartCardCRLEnable	ENUMERATE, GET	Login	LM_TWO_FACTOR_AUTHEN
DCIM_iDRACCardEnumeration	VirtualMedia.Attached	ENUMERATE, GET	Login	LM_VMEDIA
DCIM_iDRACCardEnumeration	VirtualMedia.BootOnce	ENUMERATE, GET	Login	LM_VMEDIA
DCIM_iDRACCardEnumeration	VirtualMedia.FloppyEmulation	ENUMERATE, GET	Login	LM_VMEDIA
DCIM_iDRACCardEnumeration	VirtualMedia.EncryptionEnable	ENUMERATE, GET	Login	LM_VMEDIA
DCIM_iDRACCardEnumeration	VirtualConsole.Enable	ENUMERATE, GET	Login	LM_VCONSOLE
DCIM_iDRACCardString	VirtualConsole.EncryptEnable	ENUMERATE, GET	Login	LM_VCONSOLE
DCIM_iDRACCardEnumeration	VirtualConsole.LocalVideo	ENUMERATE, GET	Login	LM_VCONSOLE
DCIM_iDRACCardEnumeration	VirtualConsole.PluginType	ENUMERATE, GET	Login	LM_VCONSOLE
DCIM_iDRACCardInteger	VirtualConsole.MaxSessions	ENUMERATE, GET	Login	LM_VCONSOLE
DCIM_iDRACCardInteger	VirtualConsole.Port	ENUMERATE, GET	Login	LM_VCONSOLE
DCIM_iDRACCardInteger	VirtualConsole.Timeout	ENUMERATE, GET	Login	LM_VCONSOLE

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ANNEX A (Informative)

Privilege Information

1238 The following annex describes the mapping for iDRAC privileges. The integer value returned for the
1239 privilege represents a bit mask, where each bit represents a specific privilege. If a particular bit is set, then
1240 the corresponding privilege exists. Table 104 represents the bitmask mapping to the iDRAC privileges.

1241 **Table 104 – Privilege Bit Mask**

Bit	Privilege
1	Login
2	Configure
3	Configure Users
4	Logs
5	System Control
6	Access Virtual Console
7	Access Virtual Media
8	System Operations
9	Debug

1242 For example, a privilege value equal to decimal 91 can be arithmetically decoded into the appropriate
1243 privileges:

- 1244
- 91 mod 2 = 1, then Login privilege exists.
 - 1245 • 91 div 2 = 45, 45 mod 2 = 1, then Configure privilege exists .
 - 1246 • 45 div 2 = 22, 22 mod 2 = 0, then Configure Users privilege does not exist.
 - 1247 • 22 div 2 = 11, 11 mod 2 = 1, then Logs privilege exists.
 - 1248 • 11 div 2 = 5, 5 mod 2 = 1, then System Control privilege exists.
 - 1249 • 5 div 2 = 2, 2 mod 2 = 0, then Access Virtual Console privilege does not exist.
 - 1250 • 2 div 2 = 1, 1 mod 2 = 1, then Access Virtual Media privilege exists.

1251 The same privilege value of decimal 91 can be decoded through binary operations:

- 1252
- 91 and 1 = 1, then Login privilege exists.
 - 1253 • 91 and 2 = 2, then Configure privilege exists.
 - 1254 • 91 and 4 = 0, then Configure Users privilege does not exist.
 - 1255 • 91 and 8 = 8, then Logs privilege exists.
 - 1256 • 91 and 16 =16, then System Control privilege exists.
 - 1257 • 91 and 32 = 0, then Access Virtual Console privilege does not exist.
 - 1258 • 91 and 64 = 64, then Access Virtual Media privilege exists.

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