

# iDRAC Card Profile

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293





# iDRAC Card Profile

## 295 1 Scope

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

301

## 302 2 Normative References

303 Refer to the following documents for more information.

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

- 306 • DMTF DSP1033, *Profile Registration Profile 1.0.0*
- 307 • DMTF DSP0226, *Web Services for Management (WS-Management) Specification 1.1.0*
- 308 • DMTF DSP0227, *WS-Management CIM Binding Specification 1.0.0*
- 309 • *Dell Lifecycle Controller Best Practices Guide v1.0*, <link TBD>
- 310 • *Intelligent Platform Management Interface Specification v2.0*,
- 311 [http://download.intel.com/design/servers/ipmi/IPMIv2\\_0rev1\\_0.pdf](http://download.intel.com/design/servers/ipmi/IPMIv2_0rev1_0.pdf)
- 312 • Dell Tech Center MOF Library:
  - 313 ○ <http://www.delltechcenter.com/page/DCIM.Library.MOF>
- 314 • Related Managed Object Format (MOF) files:
  - 315 ○ DCIM\_iDRACCardView.mof
  - 316 ○ DCIM\_iDRACCardAttribute.mof
  - 317 ○ DCIM\_iDRACCardInteger.mof
  - 318 ○ DCIM\_iDRACCardService.mof
  - 319 ○ DCIM\_iDRACCardEnumeration.mof
  - 320 ○ DCIM\_iDRACCardString.mof
  - 321 ○ DCIM\_LCElementConformsToProfile.mof
  - 322 ○ DCIM\_LCRegisteredProfile.mof

323

## 324 **3 Terms and Definitions**

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

### 326 **3.1**

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

### 328 **3.2**

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

### 330 **3.3**

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

### 333 **3.4**

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

### 336 **3.5**

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

### 338 **3.6**

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

### 340 **3.7**

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

### 342 **3.8**

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

### 345 **3.9**

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

### 348 **3.10**

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

### 351 **3.11**

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

### 354 **3.12**

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

356 **3.13**  
357 **Interop Namespace: root/interop**  
358 Interop Namespace: root/interop is where instrumentation instantiates classes to advertise its capabilities  
359 for client discovery.

360 **3.14**  
361 **Implementation Namespace: root/dcim**  
362 Implementation Namespace: root/dcim is where instrumentation instantiates classes relevant to executing  
363 core management tasks.

364 **3.15**  
365 **ENUMERATE** – Refers to WS-MAN **ENUMERATE** operation as described in Section 8.2 of  
366 DSP0226\_V1.1 and Section 9.1 of DSP0227\_V1.0

367 **3.16**  
368 **GET** – Refers to WS-MAN **GET** operation as defined in Section 7.3 of DSP00226\_V1.1 and Section  
369 7.1 of DSP0227\_V1.0

## 370 **4 Symbols and Abbreviated Terms**

371 **4.1**  
372 **CIM** - Common Information Model

373 **4.2**  
374 **iDRAC** - Integrated Dell Remote Access Controller – management controller for blades and monolithic  
375 servers

376 **4.3**  
377 **CMC** - Chassis Manager Controller – management controller for the modular chassis

378 **4.4**  
379 **WBEM** - Web-Based Enterprise Management

380 **4.5**  
381 **SSO** - Single Sign On

382 **4.6**  
383 **CSR** - Certificate Signing Request  
384  
385  
386

387 **5 Synopsis**

388 **Profile Name:** iDRAC Card

389 **Version:** 1.3.0

390 **Organization:** Dell

391 **CIM Schema Version:** 2.26 Experimental

392 **Dell Schema Version:** 1.0.0

393 **Interop Namespace:** root/interop

394 **Implementation Namespace:** root/dcim

395 **Central Class:** DCIM\_iDRACCardView

396 **Scoping Class:** DCIM\_ComputerSystem

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

399 DCIM\_iDRACCardView shall be the Central Class.

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

401

**Table 1 – Related Profiles**

<b>Profile Name</b>	<b>Organization</b>	<b>Version</b>	<b>Relationship</b>
Profile Registration Profile	DCIM	1.0	Mandatory
Dell Job Control	DCIM	1.0	Mandatory

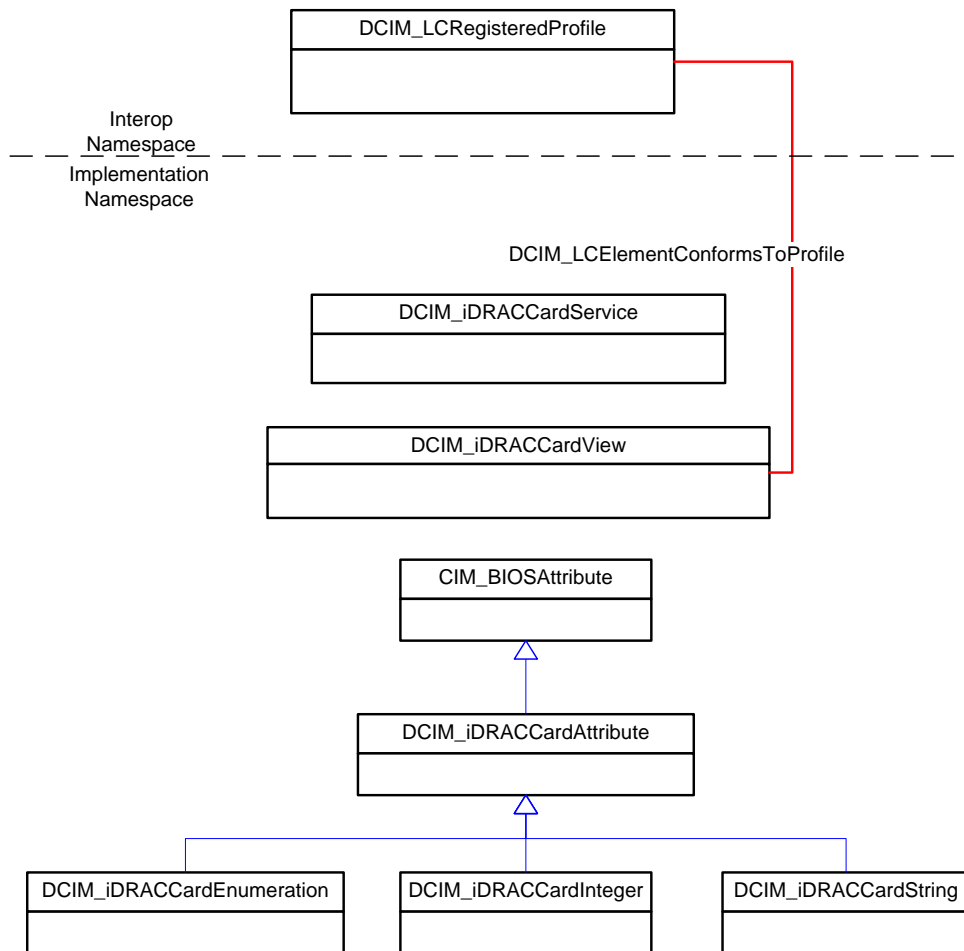
402 **6 Description**

403 The Dell iDRAC Card Profile describes the platform's iDRAC remote access  
404 card's information is represented by an instance of DCIM\_iDRACCardView class.

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

408 The DCIM\_LCRegisteredProfile instance describes the information about the implemented profile-most  
409 importantly, the name and version of the profile and the organization name that produced the profile.

410



411

412

**Figure 1 – iDRAC Card Profile Implementation**

413 **7 Implementation Description**

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

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

Element Name	Requirement	Description
<b>Classes</b>		
DCIM_iDRACCardView	Mandatory	The class shall be implemented in the <i>Implementation Namespace: root/dcim</i> . See section 7.1.
DCIM_iDRACCardEnumeration	Mandatory	The class shall be implemented in the <i>Implementation Namespace: root/dcim</i> . See section 7.2 and 7.5.
DCIM_iDRACCardString	Mandatory	The class shall be implemented in the <i>Implementation Namespace: root/dcim</i> . See section 7.3 and 7.5.
DCIM_iDRACCardInteger	Mandatory	The class shall be implemented in the <i>Implementation Namespace: root/dcim</i> . See section 7.4 and 7.5.
DCIM_iDRACCardService	Mandatory	The class shall be implemented in the <i>Implementation Namespace: root/dcim</i> . 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> . See section 7.7.
<b>Indications</b>		
None defined in this profile		

416

417 **7.1 DCIM\_iDRACCardView - iDrac View**

418 This section describes the implementation for the DCIM\_iDRACCardView class.

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

420 The DCIM\_LCElementConformsToProfile association(s) shall reference the DCIM\_iDRACCardView  
421 instance(s).

422 **7.1.1 Resource URIs for WinRM®**

423 The class Resource URI shall be “http://schemas.dell.com/wbem/wscim/1/cim-  
424 schema/2/DCIM\_iDRACCardView?\_\_cimnamespace=root/dcim”

425 The key property shall be the InstanceID.

426 The instance Resource URI for DCIM\_iDRACCardView instance shall be:

427 “http://schemas.dell.com/wbem/wscim/1/cim-  
428 schema/2/DCIM\_iDRACCardView?\_\_cimnamespace=root/dcim+InstanceID=<InstanceID>”

429 **7.1.2 Operations**

430 The following table lists the implemented operations on DCIM\_iDRACCardView.

431 **Table 3 – DCIM\_iDRACCardView - Operations**

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

432

433 **7.1.3 Class Properties**

434 The following table details the implemented properties for DCIM\_iDRACCardView instance representing  
 435 a remote access card in a system. The “Requirements” column shall denote whether the property is  
 436 implemented (for requirement definitions, see section 3). The “Additional Requirements” column shall  
 437 denote either possible values for the property, or requirements on the value formulation.

438 **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.
DeviceDescription	Mandatory	string	A string containing the friendly Fully Qualified Device Description, a property that describes the device and its location
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.
DNSRacName	Mandatory	string	A string containing the host name for the iDRAC.
DNSDomainName	Mandatory	string	A string containing the domain name for the iDRAC.
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

439 **7.2 DCIM\_iDRACCardEnumeration**

440 This section describes the implementation for the DCIM\_iDRACCardEnumeration class.

441 Each DCIM\_iDRACCardEnumeration instance is logically associated to a DCIM\_iDRACCardView  
442 instance, where the DCIM\_iDRACCardEnumeration.FQDD property is equal to the FQDD property on  
443 the DCIM\_iDRACCardView instance.

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

445 **7.2.1 Resource URIs for WinRM®**

446 The class Resource URI shall be “http://schemas.dell.com/wbem/wscim/1/cim-  
447 schema/2/DCIM\_iDRACCardEnumeration?\_\_cimnamespace=root/dcim”

448 The key property shall be the InstanceID.

449 The instance Resource URI for DCIM\_iDRACCardEnumeration instance shall be:  
450 “http://schemas.dell.com/wbem/wscim/1/cim-  
451 schema/2/DCIM\_iDRACCardEnumeration?\_\_cimnamespace=root/dcim+InstanceID=  
452 <FQDD>#<GroupID>#<AttributeName>”

453 **7.2.2 Operations**

454 The following table lists the implemented operations on DCIM\_iDRACCardEnumeration.

455 **Table 5 – DCIM\_iDRACCardEnumeration - Operations**

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

456 **7.2.3 Class Properties**

457 The following table details the implemented properties for DCIM\_iDRACCardEnumeration instance  
458 representing a iDRAC Card enumeration attribute. The “Requirements” column shall denote whether the  
459 property is implemented (for requirement definitions, see section 3). The “Additional Requirements”  
460 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 NULL.
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.

464 **7.3 DCIM\_iDRACCardString**

465 This section describes the implementation for the DCIM\_iDRACCardString class.

466 Each DCIM\_iDRACCardString instance is logically associated to a DCIM\_iDRACCardView instance,  
467 where the DCIM\_iDRACCardString.FQDD property is equal to the FQDD property on the  
468 DCIM\_iDRACCardView instance.

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

470 **7.3.1 Resource URIs for WinRM®**

471 The class Resource URI shall be “http://schemas.dell.com/wbem/wscim/1/cim-  
472 schema/2/DCIM\_iDRACCardString?\_\_cimnamespace=root/dcim”

473 The key property shall be the InstanceID.

474 The instance Resource URI for DCIM\_iDRACCardString instance shall be:  
475 “http://schemas.dell.com/wbem/wscim/1/cim-  
476 schema/2/DCIM\_iDRACCardString?\_\_cimnamespace=root/dcim+InstanceID=<FQDD>#<GroupID>#<Attr  
477 tributeName>”

478 **7.3.2 Operations**

479 The following table lists the implemented operations on DCIM\_iDRACCardString.

480 **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

481 **7.3.3 Class Properties**

482 The following table details the implemented properties for DCIM\_iDRACCardString instance representing  
483 a iDRAC string attribute. The “Requirements” column shall denote whether the property is implemented  
484 (for requirement definitions, see section 3). The “Additional Requirements” column shall denote either  
485 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 NULL.
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.

## 487 **7.4 DCIM\_iDRACCardInteger**

488 This section describes the implementation for the DCIM\_iDRACCardInteger class.

489 Each DCIM\_iDRACCardInteger instance is logically associated to a DCIM\_iDRACCardView instance,  
490 where the DCIM\_iDRACCardInteger.FQDD property is equal to the FQDD property on the  
491 DCIM\_iDRACCardView instance.

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

### 493 **7.4.1 Resource URIs for WinRM®**

494 The class Resource URI shall be “http://schemas.dell.com/wbem/wscim/1/cim-  
495 schema/2/DCIM\_iDRACCardInteger?\_\_cimnamespace=root/dcim”

496 The key property shall be the InstanceID.

497 The instance Resource URI for DCIM\_iDRACCardInteger instance shall be:  
498 "http://schemas.dell.com/wbem/wscim/1/cim-  
499 schema/2/DCIM\_iDRACCardInteger?\_\_cimnamespace=root/dcim+InstanceID=<FQDD>#<GroupID>#<At  
500 tributeName>"

## 501 **7.4.2 Operations**

502 The following table lists the implemented operations on DCIM\_iDRACCardInteger.

503 **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

504

## 505 **7.4.3 Class Properties**

506 The following table details the implemented properties for DCIM\_iDRACCardInteger instance  
507 representing a iDRAC integer attribute. The "Requirements" column shall denote whether the property is  
508 implemented (for requirement definitions, see section 3). The "Additional Requirements" column shall  
509 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 NULL.
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.

## 511 **7.5 iDRAC Attributes**

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

### 513 **7.5.1 Active Directory**

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

515 The GroupID property for the DCIM\_iDRACCardEnumeration, DCIM\_iDRACCardString, and  
516 DCIM\_iDRACCardInteger shall be “ActiveDirectory.1”.

517 The GroupDisplayName property for the DCIM\_iDRACCardEnumeration, DCIM\_iDRACCardString, and  
518 DCIM\_iDRACCardInteger shall be “Active Directory”.

519 The following table describes the values for the DCIM\_iDRACCardEnumeration of this group. Each  
 520 column heading corresponds to a property name on the DCIM\_iDRACCardEnumeration class. The  
 521 Description column contains the description for each of the attribute. Each row contains the values for the  
 522 properties listed in the column headings. The PossibleValues property is an array property represented in  
 523 the table as comma delimited list.

524 **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”

525 The following table describes the values for the DCIM\_iDRACCardString of this group. Each column  
 526 heading corresponds to a property name on the DCIM\_iDRACCardString class. The Value Expression  
 527 column contains constraints on string value formulation. Each row contains the values for the properties  
 528 listed in the column headings.

529 **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
DCLookupDomainName	Active Directory Lookup Domain Name	FALSE	787	0	254
GCRootDomain	Active Directory Root Domain	FALSE	786	0	254

530 The following table describes the values for the DCIM\_iDRACCardInteger of this group. Each column  
 531 heading corresponds to a property name on the DCIM\_iDRACCardInteger class. Each row contains the  
 532 values for the properties listed in the column headings.

533

**Table 13 – DCIM\_iDRACCardInteger Active Directory**

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

534 **7.5.2 Active Directory Group Configuration**

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

536 The GroupID property for the DCIM\_iDRACCardEnumeration, DCIM\_iDRACCardString, and  
 537 DCIM\_iDRACCardInteger shall be “ADGroup.<#>” where “<#>” is a number 1 through 5.

538 The GroupDisplayName property for the DCIM\_iDRACCardEnumeration, DCIM\_iDRACCardString, and  
 539 DCIM\_iDRACCardInteger shall be “AD Group Configuration”.

540 The following table describes the values for the DCIM\_iDRACCardString of this group. Each column  
 541 heading corresponds to a property name on the DCIM\_iDRACCardString class. The Value Expression  
 542 column contains constraints on string value formulation. Each row contains the values for the properties  
 543 listed in the column headings.

544 **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

545 The following table describes the values for the DCIM\_iDRACCardInteger of this group. Each column  
 546 heading corresponds to a property name on the DCIM\_iDRACCardInteger class. Each row contains the  
 547 values for the properties listed in the column headings.

548 **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

549 **7.5.3 Email Alert**

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

551 The GroupID property for the DCIM\_iDRACCardEnumeration, DCIM\_iDRACCardString, and  
 552 DCIM\_iDRACCardInteger shall be "EmailAlert.<#>" where <#> is a number 1 through 4.

553 The GroupDisplayName property for the DCIM\_iDRACCardEnumeration, DCIM\_iDRACCardString, and  
 554 DCIM\_iDRACCardInteger shall be "RAC Email Alert".

555 The following table describes the values for the DCIM\_iDRACCardEnumeration of this group. Each  
 556 column heading corresponds to a property name on the DCIM\_iDRACCardEnumeration class. The  
 557 Description column contains the description for each of the attribute. Each row contains the values for the  
 558 properties listed in the column headings. The PossibleValues property is an array property represented in  
 559 the table as comma delimited list.

**Table 16 – DCIM\_iDRACCardEnumeration RAC Email Alert**

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

561 The following table describes the values for the DCIM\_iDRACCardString of this group. Each column  
 562 heading corresponds to a property name on the DCIM\_iDRACCardString class. The Value Expression  
 563 column contains constraints on string value formulation. Each row contains the values for the properties  
 564 listed in the column headings.

**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

**7.5.4 iDRAC Information**

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

568 The GroupID property for the DCIM\_iDRACCardEnumeration, DCIM\_iDRACCardString, and  
 569 DCIM\_iDRACCardInteger shall be "Info.1".

570 The GroupDisplayName property for the DCIM\_iDRACCardEnumeration, DCIM\_iDRACCardString, and  
 571 DCIM\_iDRACCardInteger shall be "RAC Information".

572 The following table describes the values for the DCIM\_iDRACCardString of this group. Each column  
 573 heading corresponds to a property name on the DCIM\_iDRACCardString class. The Value Expression  
 574 column contains constraints on string value formulation. Each row contains the values for the properties  
 575 listed in the column headings.



**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

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

582 **Table 19 – DCIM\_iDRACCardEnumeration RAC Information**

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

583 **7.5.5 IP Blocking**

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

585 The GroupID property for the DCIM\_iDRACCardEnumeration, DCIM\_iDRACCardString, and  
 586 DCIM\_iDRACCardInteger shall be “IPBlocking.1”.

587 The GroupDisplayName property for the DCIM\_iDRACCardEnumeration, DCIM\_iDRACCardString, and  
 588 DCIM\_iDRACCardInteger shall be “IP Blocking”.

589 The following table describes the values for the DCIM\_iDRACCardEnumeration of this group. Each  
 590 column heading corresponds to a property name on the DCIM\_iDRACCardEnumeration class. The  
 591 Description column contains the description for each of the attribute. Each row contains the values for the  
 592 properties listed in the column headings. The PossibleValues property is an array property represented in  
 593 the table as comma delimited list.

594 **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”

595 The following table describes the values for the DCIM\_iDRACCardString of this group. Each column  
 596 heading corresponds to a property name on the DCIM\_iDRACCardString class. The Value Expression  
 597 column contains constraints on string value formulation. Each row contains the values for the properties  
 598 listed in the column headings.

599

**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

600 The following table describes the values for the DCIM\_iDRACCardInteger of this group. Each column  
 601 heading corresponds to a property name on the DCIM\_iDRACCardInteger class. Each row contains the  
 602 values for the properties listed in the column headings.

603

**Table 22 – DCIM\_iDRACCardInteger IP Blocking**

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

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

### 606 7.5.6 IPMI LAN

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

608 The GroupID property for the DCIM\_iDRACCardEnumeration, DCIM\_iDRACCardString, and  
 609 DCIM\_iDRACCardInteger shall be “IPMILan.1”.

610 The GroupDisplayName property for the DCIM\_iDRACCardEnumeration, DCIM\_iDRACCardString, and  
 611 DCIM\_iDRACCardInteger shall be “IPMI LAN Information”.

612 The following table describes the values for the DCIM\_iDRACCardEnumeration of this group. Each  
 613 column heading corresponds to a property name on the DCIM\_iDRACCardEnumeration class. The  
 614 Description column contains the description for each of the attribute. Each row contains the values for the  
 615 properties listed in the column headings. The PossibleValues property is an array property represented in  
 616 the table as comma delimited list.

617

**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”

618 The following table describes the values for the DCIM\_iDRACCardString of this group. Each column  
 619 heading corresponds to a property name on the DCIM\_iDRACCardString class. The Value Expression  
 620 column contains constraints on string value formulation. Each row contains the values for the properties  
 621 listed in the column headings.

622

**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

### 623 **7.5.7 IPMI Serial**

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

625 The GroupID property for the DCIM\_iDRACCardEnumeration, DCIM\_iDRACCardString, and  
626 DCIM\_iDRACCardInteger shall be "IPMISerial.1".

627 The GroupDisplayName property for the DCIM\_iDRACCardEnumeration, DCIM\_iDRACCardString, and  
628 DCIM\_iDRACCardInteger shall be "RAC IPMI Serial".

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

634

**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 <sup>1</sup>	IPMI Serial Delete Control	FALSE	626	"Disabled", "Enabled"
EchoControl <sup>2</sup>	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

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

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

### 639 **7.5.8 IPMI Serial-over-LAN**

640 This section describes the attributes for iDRAC's IPMI SOL Configuration.

641 The GroupID property for the DCIM\_iDRACCardEnumeration, DCIM\_iDRACCardString, and  
 642 DCIM\_iDRACCardInteger shall be “IPMISOL.1”.

643 The GroupDisplayName property for the DCIM\_iDRACCardEnumeration, DCIM\_iDRACCardString, and  
 644 DCIM\_iDRACCardInteger shall be “IPMI SOL”.

645 The following table describes the values for the DCIM\_iDRACCardEnumeration of this group. Each  
 646 column heading corresponds to a property name on the DCIM\_iDRACCardEnumeration class. The  
 647 Description column contains the description for each of the attribute. Each row contains the values for the  
 648 properties listed in the column headings. The PossibleValues property is an array property represented in  
 649 the table as comma delimited list.

650 **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”

651 The following table describes the values for the DCIM\_iDRACCardInteger of this group. Each column  
 652 heading corresponds to a property name on the DCIM\_iDRACCardInteger class. Each row contains the  
 653 values for the properties listed in the column headings.

654 **Table 27 – DCIM\_iDRACCardInteger IPMI Serial-over-LAN**

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

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

### 657 **7.5.9 IPv4 Information**

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

659 The GroupID property for the DCIM\_iDRACCardEnumeration, DCIM\_iDRACCardString, and  
 660 DCIM\_iDRACCardInteger shall be “IPv4.1”.

661 The GroupDisplayName property for the DCIM\_iDRACCardEnumeration, DCIM\_iDRACCardString, and  
 662 DCIM\_iDRACCardInteger shall be “IPv4 Information”.

663 The following table describes the values for the DCIM\_iDRACCardEnumeration of this group. Each  
 664 column heading corresponds to a property name on the DCIM\_iDRACCardEnumeration class. The  
 665 Description column contains the description for each of the attribute. Each row contains the values for the  
 666 properties listed in the column headings. The PossibleValues property is an array property represented in  
 667 the table as comma delimited list.

668 **Table 28 – DCIM\_iDRACCardEnumeration IPv4 Information**

AttributeName	AttributeDisplayName	IsReadOnly	Display Order	PossibleValues
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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”

669 The following table describes the values for the DCIM\_iDRACCardString of this group. Each column  
670 heading corresponds to a property name on the DCIM\_iDRACCardString class. The Value Expression  
671 column contains constraints on string value formulation. Each row contains the values for the properties  
672 listed in the column headings.

673 **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

### 674 **7.5.10 IPv6 Information**

675 This section describes the attributes for iDRAC’s IPv6 Information Configuration.

676 The GroupID property for the DCIM\_iDRACCardEnumeration, DCIM\_iDRACCardString, and  
677 DCIM\_iDRACCardInteger shall be “IPv6.1”.

678 The GroupDisplayName property for the DCIM\_iDRACCardEnumeration, DCIM\_iDRACCardString, and  
679 DCIM\_iDRACCardInteger shall be “IPv6 Information”.

680 The following table describes the values for the DCIM\_iDRACCardEnumeration of this group. Each  
681 column heading corresponds to a property name on the DCIM\_iDRACCardEnumeration class. The  
682 Description column contains the description for each of the attribute. Each row contains the values for the  
683 properties listed in the column headings. The PossibleValues property is an array property represented in  
684 the table as comma delimited list.

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686 **Table 30 – DCIM\_iDRACCardEnumeration IPv6 Information**

AttributeName	AttributeDisplayName	IsReadOnly	Display Order	PossibleValues
Enable	IPV6 Enable	FALSE	151	“Disabled”, “Enabled”
AutoConfig <sup>1</sup>	IPV6 Auto Config	FALSE	152	“Disabled”, “Enabled”
DNSFromDHCP6	DNS Server From DHCP6	FALSE	153	“Disabled”, “Enabled”

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

688 The following table describes the values for the DCIM\_iDRACCardString of this group. Each column  
 689 heading corresponds to a property name on the DCIM\_iDRACCardString class. The Value Expression  
 690 column contains constraints on string value formulation. Each row contains the values for the properties  
 691 listed in the column headings.

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**Table 31 – DCIM\_iDRACCardString IPv6 Information**

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

696 The following table describes the values for the DCIM\_iDRACCardInteger of this group. Each column  
 697 heading corresponds to a property name on the DCIM\_iDRACCardInteger class. Each row contains the  
 698 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
PrefixLength	IPv6 Link Local Prefix Length	FALSE	157	1	128
IPv6NumOfExtAddress	Total Number of Extended IP	TRUE	160	0	255

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**7.5.11 LDAP**

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This section describes the attributes for iDRAC’s LDAP Configuration.

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The GroupID property for the DCIM\_iDRACCardEnumeration, DCIM\_iDRACCardString, and DCIM\_iDRACCardInteger shall be “LDAP.1”.

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The GroupDisplayName property for the DCIM\_iDRACCardEnumeration, DCIM\_iDRACCardString, and DCIM\_iDRACCardInteger shall be “LDAP”.

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

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**Table 33 – DCIM\_iDRACCardEnumeration LDAP**

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

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

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**Table 34 – DCIM\_iDRACCardString LDAP**

AttributeName	AttributeDisplayName	IsReadOnly	Display Order	MinLength	MaxLength
Server	LDAP Server	FALSE	1082	0	1024
BaseDN <sup>1</sup>	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 <sup>2</sup>	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

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

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

731 The following table describes the values for the DCIM\_iDRACCardInteger of this group. Each column  
732 heading corresponds to a property name on the DCIM\_iDRACCardInteger class. Each row contains the  
733 values for the properties listed in the column headings.

734 **Table 35 – DCIM\_iDRACCardInteger LDAP**

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

735 **7.5.12 LDAP Group**

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

737 The GroupID property for the DCIM\_iDRACCardEnumeration, DCIM\_iDRACCardString, and  
738 DCIM\_iDRACCardInteger shall be "LDAPRoleGroup.<#>" where <#> is a number 1 through 5.

739 The GroupDisplayName property for the DCIM\_iDRACCardEnumeration, DCIM\_iDRACCardString, and  
740 DCIM\_iDRACCardInteger shall be "LDAP Group".

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

745 **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

746 The following table describes the values for the DCIM\_iDRACCardInteger of this group. Each column  
747 heading corresponds to a property name on the DCIM\_iDRACCardInteger class. Each row contains the  
748 values for the properties listed in the column headings.

749 **Table 37 – DCIM\_iDRACCardInteger LDAP Group**

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

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

### 751 **7.5.13 Local Security**

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

753 The GroupID property for the DCIM\_iDRACCardEnumeration, DCIM\_iDRACCardString, and  
754 DCIM\_iDRACCardInteger shall be “LocalSecurity.1”.

755 The GroupDisplayName property for the DCIM\_iDRACCardEnumeration, DCIM\_iDRACCardString, and  
756 DCIM\_iDRACCardInteger shall be “Local Security”.

757 The following table describes the values for the DCIM\_iDRACCardEnumeration of this group. Each  
758 column heading corresponds to a property name on the DCIM\_iDRACCardEnumeration class. The  
759 Description column contains the description for each of the attribute. Each row contains the values for the  
760 properties listed in the column headings. The PossibleValues property is an array property represented in  
761 the table as comma delimited list.

762 **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”

### 763 **7.5.14 NIC Information**

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

765 The GroupID property for the DCIM\_iDRACCardEnumeration, DCIM\_iDRACCardString, and  
766 DCIM\_iDRACCardInteger shall be “NIC.1”.

767 The GroupDisplayName property for the DCIM\_iDRACCardEnumeration, DCIM\_iDRACCardString, and  
 768 DCIM\_iDRACCardInteger shall be “NIC Information”.

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

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776 **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”
DHCPConfiguration	DHCP Configuration enable	FALSE	69	“Disabled”, “Enable Once”, “Enable Once After Reset”
VLANenable	Enable VLAN	FALSE	63	“Disabled”, “Enabled”
AutoDetect	Auto NIC Enable	FALSE	66	“Disabled”, “Enabled”

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

781 **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

782 The following table describes the values for the DCIM\_iDRACCardInteger of this group. Each column  
 783 heading corresponds to a property name on the DCIM\_iDRACCardInteger class. Each row contains the  
 784 values for the properties listed in the column headings.

785 **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
DedicatedNICScanTime	Shared to Dedicated Failover Timeout	FALSE	67	5	255
SharedNICScanTime	Dedicated to Shared Failover Timeout	FALSE	68	5	255

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787 **7.5.15 OS-BMC Passthru Configuration**

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

789 The GroupID property for the DCIM\_iDRACCardEnumeration, DCIM\_iDRACCardString, and  
 790 DCIM\_iDRACCardInteger shall be "OS-BMC.1".

791 The GroupDisplayName property for the DCIM\_iDRACCardEnumeration, DCIM\_iDRACCardString, and  
 792 DCIM\_iDRACCardInteger shall be "OS-BMC Passthru Configuration".

793 The following table describes the values for the DCIM\_iDRACCardEnumeration of this group. Each  
 794 column heading corresponds to a property name on the DCIM\_iDRACCardEnumeration class. The  
 795 Description column contains the description for each of the attribute. Each row contains the values for the  
 796 properties listed in the column headings. The PossibleValues property is an array property represented in  
 797 the table as comma delimited list.

798 **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"
PTCapability	OSBMC Pass Through Capability	TRUE	1240	"Not Capable", "Capable", "Unavailable"
PTMode	OS-BMC PT Mode	FALSE	1244	lom-p2p, usb-p2p

799 The following table describes the values for the DCIM\_iDRACCardString of this group. Each column  
 800 heading corresponds to a property name on the DCIM\_iDRACCardString class. The Value Expression  
 801 column contains constraints on string value formulation. Each row contains the values for the properties  
 802 listed in the column headings.

803 **Table 43 – DCIM\_iDRACCardString OS-BMC Passthru Configuration**

AttributeName	AttributeDisplayName	IsReadOnly	Display Order	MinLength	MaxLength
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AttributeName	AttributeDisplayName	IsReadOnly	Display Order	MinLength	MaxLength
OsIpAddress	OS-BMC PT iDRAC PT Endpoint IP Address	FALSE	1243	0	16

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### 805 7.5.16 Remote Racadm Configuration

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

807 The GroupID property for the DCIM\_iDRACCardEnumeration, DCIM\_iDRACCardString, and  
808 DCIM\_iDRACCardInteger shall be "Racadm.1".

809 The GroupDisplayName property for the DCIM\_iDRACCardEnumeration, DCIM\_iDRACCardString, and  
810 DCIM\_iDRACCardInteger shall be "Remote Racadm Configuration".

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

816 **Table 44 – DCIM\_iDRACCardEnumeration Remote Racadm Configuration**

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

817 The following table describes the values for the DCIM\_iDRACCardInteger of this group. Each column  
818 heading corresponds to a property name on the DCIM\_iDRACCardInteger class. Each row contains the  
819 values for the properties listed in the column headings.

820 **Table 45 – DCIM\_iDRACCardInteger Remote Racadm Configuration**

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

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

### 823 7.5.17 RAC Remote Hosts

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

825 The GroupID property for the DCIM\_iDRACCardEnumeration, DCIM\_iDRACCardString, and  
826 DCIM\_iDRACCardInteger shall be "RemoteHosts.1".

827 The GroupDisplayName property for the DCIM\_iDRACCardEnumeration, DCIM\_iDRACCardString, and  
828 DCIM\_iDRACCardInteger shall be "RAC Remote Hosts".

829 The following table describes the values for the DCIM\_iDRACCardString of this group. Each column  
830 heading corresponds to a property name on the DCIM\_iDRACCardString class. The Value Expression  
831 column contains constraints on string value formulation. Each row contains the values for the properties  
832 listed in the column headings.

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**Table 46 – DCIM\_iDRACCardString RAC Remote Hosts**

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

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**Table 47 – DCIM\_iDRACCardInteger RAC Remote Hosts**

AttributeName	AttributeDisplayName	IsReadOnly	Display Order	MinLength	MaxLength
SMTPPort	SMTP Port	FALSE	542	1	65535

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### 837 **7.5.18 RAC Certificate**

838 This section describes the attributes for iDRAC’s RAC Certificate Configuration.

839 The GroupID property for the DCIM\_iDRACCardEnumeration, DCIM\_iDRACCardString, and  
840 DCIM\_iDRACCardInteger shall be “Security.1”.

841 The GroupDisplayName property for the DCIM\_iDRACCardEnumeration, DCIM\_iDRACCardString, and  
842 DCIM\_iDRACCardInteger shall be “RAC Certificate”.

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.

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849 **Table 47 – DCIM\_iDRACCardEnumeration RAC Certificate**

AttributeName	AttributeDisplayName	IsReadOnly	Display Order	PossibleValues
CsrKeySize	CSR Key Size	FALSE	768	1024, 2048 (1024 is kept for backward compability on 12G systems)

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.

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856 **Table 48 – DCIM\_iDRACCardString RAC Certificate**

AttributeName	AttributeDisplayName	IsReadOnly	Display Order	MinLength	MaxLength
CsrCommonName	CSR Common Name	FALSE	761	0	254

AttributeName	AttributeDisplayName	IsReadOnly	Display Order	MinLength	MaxLength
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

857 **7.5.19 Serial Configuration**

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

859 The GroupID property for the DCIM\_iDRACCardEnumeration, DCIM\_iDRACCardString, and  
860 DCIM\_iDRACCardInteger shall be "Serial.1".

861 The GroupDisplayName property for the DCIM\_iDRACCardEnumeration, DCIM\_iDRACCardString, and  
862 DCIM\_iDRACCardInteger shall be "Serial Configuration".

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

868 **Table 49 – 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
NoAuth	Serial Console No Authentication	FALSE	604	"Disabled", "Enabled"

869 The following table describes the values for the DCIM\_iDRACCardString of this group. Each column  
870 heading corresponds to a property name on the DCIM\_iDRACCardString class. The Value Expression  
871 column contains constraints on string value formulation. Each row contains the values for the properties  
872 listed in the column headings.

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875 **Table 51 – DCIM\_iDRACCardString Serial Configuration**

AttributeName	AttributeDisplayName	IsReadOnly	Display Order	MinLength	MaxLength
Command <sup>1</sup>	Serial Console Command	FALSE	606	0	128

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

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 52– 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

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882 **7.5.20 RAC Serial Redirection**

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

884 The GroupID property for the DCIM\_iDRACCardEnumeration, DCIM\_iDRACCardString, and  
 885 DCIM\_iDRACCardInteger shall be “SerialRedirection.1”.

886 The GroupDisplayName property for the DCIM\_iDRACCardEnumeration, DCIM\_iDRACCardString, and  
 887 DCIM\_iDRACCardInteger shall be “RAC Serial Redirection”.

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 53 – DCIM\_iDRACCardEnumeration RAC Serial Redirection**

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

894 The following table describes the values for the DCIM\_iDRACCardString of this group. Each column  
 895 heading corresponds to a property name on the DCIM\_iDRACCardString class. The Value Expression  
 896 column contains constraints on string value formulation. Each row contains the values for the properties  
 897 listed in the column headings.

898 **Table 50 – DCIM\_iDRACCardString RAC Serial Redirection**

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

899 **7.5.21 Smart Card Configuration**

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

901 The GroupID property for the DCIM\_iDRACCardEnumeration, DCIM\_iDRACCardString, and  
 902 DCIM\_iDRACCardInteger shall be “SmartCard.1”.

903 The GroupDisplayName property for the DCIM\_iDRACCardEnumeration, DCIM\_iDRACCardString, and  
 904 DCIM\_iDRACCardInteger shall be “Smart Card 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 51 – 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”

911 **7.5.22 SNMP Configuration**

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

913 The GroupID property for the DCIM\_iDRACCardEnumeration, DCIM\_iDRACCardString, and  
 914 DCIM\_iDRACCardInteger shall be “SNMP.1”.

915 The GroupDisplayName property for the DCIM\_iDRACCardEnumeration, DCIM\_iDRACCardString, and  
 916 DCIM\_iDRACCardInteger shall be “SNMP Configuration”.

917 The following table describes the values for the DCIM\_iDRACCardEnumeration of this group. Each  
 918 column heading corresponds to a property name on the DCIM\_iDRACCardEnumeration class. The  
 919 Description column contains the description for each of the attribute. Each row contains the values for the  
 920 properties listed in the column headings. The PossibleValues property is an array property represented in  
 921 the table as comma delimited list.

922 **Table 52 – DCIM\_iDRACCardEnumeration SNMP Configuration**

AttributeName	AttributeDisplayName	IsReadOnly	Display Order	PossibleValues
AgentEnable	SNMP Agent Enable	FALSE	701	“Disabled”, “Enabled”
TrapFormat	SNMP Trap Format	FALSE	703	“SNMPv1”, “SNMPv2”
SNMPProtocol	SNMP Protocol	FALSE	704	“All”, “SNMPv3”

923 The following table describes the values for the DCIM\_iDRACCardString of this group. Each column  
 924 heading corresponds to a property name on the DCIM\_iDRACCardString class. The Value Expression  
 925 column contains constraints on string value formulation. Each row contains the values for the properties  
 926 listed in the column headings.

927 **Table 53 – DCIM\_iDRACCardString SNMP Configuration**

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

928 **Table 58 – DCIM\_iDRACCardInteger SNMP Configuration**

AttributeName	AttributeDisplayName	IsReadOnly	Display Order	MinLength	MaxLength
AlertPort	Alert Port	FALSE	706	1	65535



AttributeName	AttributeDisplayName	IsReadOnly	Display Order	MinLength	MaxLength
DiscoveryPort	Discovery Port	FALSE	705	1	65535

929

### 930 7.5.23 SNMP Alert Destination<sup>1</sup>

931 This section describes the attributes for iDRAC's SNMP Alert Destination configuration.

932 The GroupID property for the DCIM\_iDRACCardEnumeration and DCIM\_iDRACCardString shall be  
 933 "SNMPAlert.<#>" where <#> is a number from 1 to 8.

934 The GroupDisplayName property for the DCIM\_iDRACCardEnumeration and DCIM\_iDRACCardString  
 935 shall be "SNMP Alert Destination".

936 The following table describes the values for the DCIM\_iDRACCardEnumeration of this group. Each  
 937 column heading corresponds to a property name on the DCIM\_iDRACCardEnumeration class. The  
 938 Description column contains the description for each of the attribute. Each row contains the values for the  
 939 properties listed in the column headings. The PossibleValues property is an array property represented in  
 940 the table as comma delimited list.

941

942 **Table 54 – DCIM\_iDRACCardEnumeration SNMP Alert Destination**

AttributeName	AttributeDisplayName	IsReadOnly	Display Order	PossibleValues
State	State	FALSE	1602, 1604, 1606, 1608, 1610, 1612, 1614, 1616	"Disabled", "Enabled"

943 The following table describes the values for the DCIM\_iDRACCardString of this group. Each column  
 944 heading corresponds to a property name on the DCIM\_iDRACCardString class. The Value Expression  
 945 column contains constraints on string value formulation. Each row contains the values for the properties  
 946 listed in the column headings.

947 **Table 60 – DCIM\_iDRACCardString SNMP Alert Destination**

AttributeName	Attribute Description	IsReadOnly	Display Order	MinLength	MaxLength
Destination <sup>2</sup>	Alert Destination	FALSE	1601, 1603, 1605, 1607, 1609, 1611, 1613, 1615	0	255
SNMPv3Username	SNMP V3 Username	FALSE		0	16

948

949

**Table 55 – DCIM\_iDRACCardInteger SNMP Alert Destination**

AttributeName	AttributeDisplayName	IsReadOnly	DisplayOrder	MinLength	MaxLength
SNMPv3UserID	[1] SNMP V3 UserID	FALSE		0	16

950

951 NOTE: 1 - These attributes are in lieu of the SNMP Trap IPv4 and SNMP Trap IPv6 attributes. Although the SNMP  
 952 Trap IPv4 and SNMP Trap IPv6 attributes are deprecated, they shall still be functional for backwards compatibility.  
 953 The SNMPTrapIPv4.1 through SNMPTrapIPv4.4 attributes shall be mapped to this group's SNMPAlert.1 through  
 954 SNMPAlert.4 attributes, and the SNMPTrapIPv6.1 through SNMPTrapIPv6.4 attributes shall be mapped to this  
 955 group's SNMPAlert.5 through SNMPAlert.8 attributes.

956 NOTE: 2 - The attribute value, the CurrentValue and PendingValue properties, may be an IPv4 address, an IPv6  
 957 address or a fully qualified domain name (FQDN).

958 **7.5.24 RAC SSH**

959 This section describes the attributes for iDRAC's SSH Configuration.

960 The GroupID property for the DCIM\_iDRACCardEnumeration, DCIM\_iDRACCardString, and  
 961 DCIM\_iDRACCardInteger shall be "SSH.1".

962 The GroupDisplayName property for the DCIM\_iDRACCardEnumeration, DCIM\_iDRACCardString, and  
 963 DCIM\_iDRACCardInteger shall be "RAC SSH".

964 The following table describes the values for the DCIM\_iDRACCardEnumeration of this group. Each  
 965 column heading corresponds to a property name on the DCIM\_iDRACCardEnumeration class. The  
 966 Description column contains the description for each of the attribute. Each row contains the values for the  
 967 properties listed in the column headings. The PossibleValues property is an array property represented in  
 968 the table as comma delimited list.

969 **Table 61 – DCIM\_iDRACCardEnumeration RAC SSH**

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

970 The following table describes the values for the DCIM\_iDRACCardInteger of this group. Each column  
 971 heading corresponds to a property name on the DCIM\_iDRACCardInteger class. Each row contains the  
 972 values for the properties listed in the column headings.

973 **Table 56 – DCIM\_iDRACCardInteger RAC SSH**

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

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

975 **7.5.25 RAC Telnet**

976 This section describes the attributes for iDRAC's Telnet Configuration.

977 The GroupID property for the DCIM\_iDRACCardEnumeration, DCIM\_iDRACCardString, and  
 978 DCIM\_iDRACCardInteger shall be “Telnet.1”.

979 The GroupDisplayName property for the DCIM\_iDRACCardEnumeration, DCIM\_iDRACCardString, and  
 980 DCIM\_iDRACCardInteger shall be “Telnet Configuration”.

981 The following table describes the values for the DCIM\_iDRACCardEnumeration of this group. Each  
 982 column heading corresponds to a property name on the DCIM\_iDRACCardEnumeration class. The  
 983 Description column contains the description for each of the attribute. Each row contains the values for the  
 984 properties listed in the column headings. The PossibleValues property is an array property represented in  
 985 the table as comma delimited list.

**Table 63– DCIM\_iDRACCardEnumeration Telnet Configuration**

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

987 The following table describes the values for the DCIM\_iDRACCardInteger of this group. Each column  
 988 heading corresponds to a property name on the DCIM\_iDRACCardInteger class. Each row contains the  
 989 values for the properties listed in the column headings.

990

**Table 57 – DCIM\_iDRACCardInteger Telnet Configuration**

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

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

### 7.5.26 Sys Log

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

995 The GroupID property for the DCIM\_iDRACCardEnumeration, DCIM\_iDRACCardString, and  
 996 DCIM\_iDRACCardInteger shall be “SysLog.1”.

997 The GroupDisplayName property for the DCIM\_iDRACCardEnumeration, DCIM\_iDRACCardString, and  
 998 DCIM\_iDRACCardInteger shall be “Sys Log”.

999 The following table describes the values for the DCIM\_iDRACCardEnumeration of this group. Each  
 1000 column heading corresponds to a property name on the DCIM\_iDRACCardEnumeration class. The  
 1001 Description column contains the description for each of the attribute. Each row contains the values for the  
 1002 properties listed in the column headings. The PossibleValues property is an array property represented in  
 1003 the table as comma delimited list.

**Table 65 – DCIM\_iDRACCardEnumeration Sys Log**

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

1005 The following table describes the values for the DCIM\_iDRACCardString of this group. Each column  
 1006 heading corresponds to a property name on the DCIM\_iDRACCardString class. The Value Expression

1007 column contains constraints on string value formulation. Each row contains the values for the properties  
 1008 listed in the column headings.

1009 **Table 66 – 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

1010 The following table describes the values for the DCIM\_iDRACCardInteger of this group. Each column  
 1011 heading corresponds to a property name on the DCIM\_iDRACCardInteger class. Each row contains the  
 1012 values for the properties listed in the column headings.

1013

1014 **Table 67– DCIM\_iDRACCardInteger Sys Log**

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

1015

### 1016 **7.5.27 iDRAC Firmware Update**

1017 This section describes the attributes for iDRAC’s Update Configuration.

1018 The GroupID property for the DCIM\_iDRACCardEnumeration and DCIM\_iDRACCardString shall be  
 1019 “Update.1”.

1020 The GroupDisplayName property for the DCIM\_iDRACCardEnumeration and DCIM\_iDRACCardString  
 1021 shall be “Firmware Update”.

1022 The following table describes the values for the DCIM\_iDRACCardEnumeration of this group. Each  
 1023 column heading corresponds to a property name on the DCIM\_iDRACCardEnumeration class. The  
 1024 Description column contains the description for each of the attribute. Each row contains the values for the  
 1025 properties listed in the column headings. The PossibleValues property is an array property represented in  
 1026 the table as comma delimited list.

1027 **Table 58 – DCIM\_iDRACCardEnumeration Update**

AttributeName	AttributeDisplayName	IsReadOnly	Display Order	PossibleValues
FwUpdateTFTPEnable	Enable or Disable TFTP for Firmware Update	FALSE	451	“Disabled”, “Enabled”
EnableSharedCompUpdate	Enable Shared Comp Update	FALSE	454	“Disabled”, “Enabled”

1028 The following table describes the values for the DCIM\_iDRACCardString of this group. Each column  
 1029 heading corresponds to a property name on the DCIM\_iDRACCardString class. The Value Expression  
 1030 column contains constraints on string value formulation. Each row contains the values for the properties  
 1031 listed in the column headings.

1032

**Table 59 – 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

1033

**1034 7.5.28 User Domain**

1035 This section describes the attributes for iDRAC’s User Domain Configuration.

1036 The GroupID property for the DCIM\_iDRACCardEnumeration, DCIM\_iDRACCardString, and  
 1037 DCIM\_iDRACCardInteger shall be “UserDomain.<#>” where “<#>” is a number 1 through 40.

1038 The GroupDisplayName property for the DCIM\_iDRACCardEnumeration, DCIM\_iDRACCardString, and  
 1039 DCIM\_iDRACCardInteger shall be “User Domain”.

1040 The following table describes the values for the DCIM\_iDRACCardString of this group. Each column  
 1041 heading corresponds to a property name on the DCIM\_iDRACCardString class. The Value Expression  
 1042 column contains constraints on string value formulation. Each row contains the values for the properties  
 1043 listed in the column headings.

**1044 Table 70 – DCIM\_iDRACCardString User Domain**

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

1045

**1046 7.5.29 iDRAC Users**

1047 This section describes the attributes for iDRAC’s Users Configuration.

1048 The GroupID property for the DCIM\_iDRACCardEnumeration, DCIM\_iDRACCardString, and  
 1049 DCIM\_iDRACCardInteger shall be “Users.<#>” where <#> is a number from 1 to 16.

1050 The GroupDisplayName property for the DCIM\_iDRACCardEnumeration, DCIM\_iDRACCardString, and  
 1051 DCIM\_iDRACCardInteger shall be “iDRAC Users”.

1052 The following table describes the values for the DCIM\_iDRACCardEnumeration of this group. Each  
 1053 column heading corresponds to a property name on the DCIM\_iDRACCardEnumeration class. The  
 1054 Description column contains the description for each of the attribute. Each row contains the values for the  
 1055 properties listed in the column headings. The PossibleValues property is an array property represented in  
 1056 the table as comma delimited list.

1057

1058

**1059 Table 71 – DCIM\_iDRACCardEnumeration Users**

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

AttributeName	AttributeDisplayName	IsReadOnly	Display Order	PossibleValues
IpmlanPrivilege	User Admin IPMI LAN Privilege	FALSE <sup>1</sup>	254, 264, ... , 404	User, Operator, Administrator, No Access
IpmiSerialPrivilege	User Admin IPMI Serial Privilege	FALSE <sup>1</sup>	255, 265, ... , 405	User, Operator, Administrator, No Access
Enable	User Admin Enable	FALSE <sup>1</sup>	256, 266, ... , 406	"Disabled", "Enabled"
SolEnable	User Admin SOL Enable	FALSE <sup>1</sup>	257, 267, ... , 407	"Disabled", "Enabled"
ProtocolEnable	SNMP V3 Protocol Enable	FALSE <sup>1</sup>	258,268 ,278,....., 408	"Disabled", "Enabled"
AuthenticationProtocol	SNMP V3 Authentication Protocol	FALSE <sup>1</sup>	259,269 ,279,....., 409	"None" "MD5" "SHA"
PrivacyProtocol	SNMP V3 Privacy Protocol	FALSE <sup>1</sup>	260,270 ,280,....., 410	"None" "DES" "AES"

1060 NOTE: 1 – IpmlanPrivilege, IpmiSerialPrivilege, Enable, SolEnable, ProtocolEnable, AuthenticationProtocol and  
1061 PrivacyProtocol attribute for Users.1 GroupID is Read-Only, but for the GroupID Users.2 to Users.16, the attribute is  
1062 settable.

1063 The following table describes the values for the DCIM\_iDRACCardString of this group. Each column  
1064 heading corresponds to a property name on the DCIM\_iDRACCardString class. The Value Expression  
1065 column contains constraints on string value formulation. Each row contains the values for the properties  
1066 listed in the column headings.

1067 **Table 60 – DCIM\_iDRACCardString iDRAC Users**

AttributeName	AttributeDisplayName	IsReadOnly	Display Order	MinLength	MaxLength
UserName	User Admin User Name	FALSE <sup>1</sup>	251, 261, ... , 401	0	16
Password <sup>2</sup>	User Admin Password	FALSE	252, 262, ... , 402	0	20
SHA256Password	SHA256 hash of the password	FALSE		0	64
SHA256PasswordSalt	Salt string appended to password prior to hash	FALSE		0	32
SHA1v3Key	SHA1 Hash of the SNMP V3 key	FALSE		0	40
MD5v3Key	MD5 Hash of the SNMP V3 key	FALSE		0	32
SHA1IPMIKey	SHA1 Hash of the IPMI key	FALSE		0	40

AttributeName	AttributeDisplayName	IsReadOnly	Display Order	MinLength	MaxLength
MD5IPMIKey	MD5 Hash of the IPMI key	FALSE		0	32

1068 NOTE: 1 – UserName attribute for Users.1 GroupID is Read-Only, but for the GroupID Users.2 to Users.16, the  
1069 attribute is settable.

1070 NOTE: 2 – Password attribute is write-only, and thus its value is never returned in the CurrentValue, PendingValue,  
1071 and DefaultValue properties.

1072 The following table describes the values for the DCIM\_iDRACCardInteger of this group. Each column  
1073 heading corresponds to a property name on the DCIM\_iDRACCardInteger class. Each row contains the  
1074 values for the properties listed in the column headings.

1075

1076 **Table 73 – DCIM\_iDRACCardInteger iDRAC Users**

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

1077 NOTE: 1 – Privilege attribute for Users.1 GroupID is Read-Only, but for the GroupID Users.2 to Users.16, the  
1078 attribute is settable.

1079 NOTE: 3 – See ANNEX A for information on mapping into iDRAC privileges.

### 1080 **7.5.30 Virtual Console Configuration**

1081 This section describes the attributes for iDRAC’s Virtual Console Configuration.

1082 The GroupID property for the DCIM\_iDRACCardEnumeration, DCIM\_iDRACCardString, and  
1083 DCIM\_iDRACCardInteger shall be “VirtualConsole.1”.

1084 The GroupDisplayName property for the DCIM\_iDRACCardEnumeration, DCIM\_iDRACCardString, and  
1085 DCIM\_iDRACCardInteger shall be “Virtual Console Configuration”.

1086 The following table describes the values for the DCIM\_iDRACCardEnumeration of this group. Each  
1087 column heading corresponds to a property name on the DCIM\_iDRACCardEnumeration class. The  
1088 Description column contains the description for each of the attribute. Each row contains the values for the  
1089 properties listed in the column headings. The PossibleValues property is an array property represented in  
1090 the table as comma delimited list.

1091 **Table 61 – DCIM\_iDRACCardEnumeration Virtual Console Configuration**

AttributeName	AttributeDisplayName	IsReadOnly	Display Order	PossibleValues
Enable	Enable	FALSE	581	“Disabled”, “Enabled”
LocalVideo	Local Video	FALSE	583	“Disabled”, “Enabled”
PluginType	Plugin Type	FALSE	584	“Active X”, “Java”
EncryptEnable	Encrypt Enable	FALSE	582	“None”, “AES”
AccessPrivilege	Default action upon session sharing request timeout	FALSE	588	“Deny Access”, “Read Only Access”, “Full Access”

AttributeName	AttributeDisplayName	IsReadOnly	Display Order	PossibleValues
AttachState	Attach State	FALSE	589	“Detached”, “Attached”, “Auto-Attach”

1092 The following table describes the values for the DCIM\_iDRACCardInteger of this group. Each column  
 1093 heading corresponds to a property name on the DCIM\_iDRACCardInteger class. Each row contains the  
 1094 values for the properties listed in the column headings.

1095 **Table 62 – DCIM\_iDRACCardInteger Virtual Console Configuration**

AttributeName	AttributeDisplayName	IsReadOnly	Display Order	LowerBound	UpperBound
Timeout <sup>1</sup>	Timeout	FALSE	587	60	10800
MaxSessions	Max Sessions	FALSE	585	1	4
Port	vKVM Port	FALSE	586	10	65535

1096 NOTE: 1 – Timeout in seconds.

### 1097 **7.5.31 Virtual Media Configuration**

1098 This section describes the attributes for iDRAC’s Virtual Media Configuration.

1099 The GroupID property for the DCIM\_iDRACCardEnumeration, DCIM\_iDRACCardString, and  
 1100 DCIM\_iDRACCardInteger shall be “VirtualMedia.1”.

1101 The GroupDisplayName property for the DCIM\_iDRACCardEnumeration, DCIM\_iDRACCardString, and  
 1102 DCIM\_iDRACCardInteger shall be “Virtual Media”.

1103 The following table describes the values for the DCIM\_iDRACCardEnumeration of this group. Each  
 1104 column heading corresponds to a property name on the DCIM\_iDRACCardEnumeration class. The  
 1105 Description column contains the description for each of the attribute. Each row contains the values for the  
 1106 properties listed in the column headings. The PossibleValues property is an array property represented in  
 1107 the table as comma delimited list.

1108 **Table 63 – 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”

### 1109 **7.5.32 RAC Web Server**

1110 This section describes the attributes for iDRAC’s Web Server Configuration.



1111 The GroupID property for the DCIM\_iDRACCardEnumeration, DCIM\_iDRACCardString, and  
 1112 DCIM\_iDRACCardInteger shall be “WebServer.1”.

1113 The GroupDisplayName property for the DCIM\_iDRACCardEnumeration, DCIM\_iDRACCardString, and  
 1114 DCIM\_iDRACCardInteger shall be “RAC Web Server”.

1115 The following table describes the values for the DCIM\_iDRACCardEnumeration of this group. Each  
 1116 column heading corresponds to a property name on the DCIM\_iDRACCardEnumeration class. The  
 1117 Description column contains the description for each of the attribute. Each row contains the values for the  
 1118 properties listed in the column headings. The PossibleValues property is an array property represented in  
 1119 the table as comma delimited list.

1120 **Table 77 – DCIM\_iDRACCardEnumeration Web Server**

AttributeName	AttributeDisplayName	IsReadOnly	Display Order	PossibleValues
Enable	Enable	FALSE	571	“Disabled”, “Enabled”
LowerEncryptionBitLength	Lower Encryption Bit Length	FALSE	575	“Disabled”, “Enabled”
HttpsRedirection	Https Redirection	FALSE	576	“Disabled”, “Enabled”
SSLEncryptionBitLength	SSL Encryption Bit Length	FALSE	577	“Auto-Negotiate”, “128-Bit or higher”, “168-Bit or higher”, “256-Bit or higher” **

1121 **\*\*NOTE:** “Selecting a higher SSL encryption enhances the security. However, the cryptography settings for your virtual machine  
 1122 environment (JVM, IcedTea) may require modifications to permit usage of iDRAC plugins such as vConsole with this higher level of  
 1123 encryption. For more information, see the Dell TechCenter.

1124 *Using this level of encryption may have import or export implications. For more guidance, contact your legal department.”*

1125 The following table describes the values for the DCIM\_iDRACCardInteger of this group. Each column  
 1126 heading corresponds to a property name on the DCIM\_iDRACCardInteger class. Each row contains the  
 1127 values for the properties listed in the column headings.

1128 **Table 64 – 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

1129 **7.5.33 Time Zone Configuration**

1130 This section describes the attributes for iDRAC’s Time Zone Configuration.

1131 The GroupID property for the DCIM\_iDRACCardEnumeration, DCIM\_iDRACCardString, and  
 1132 DCIM\_iDRACCardInteger shall be “Time.1”.

1133 The GroupDisplayName property for the DCIM\_iDRACCardEnumeration, DCIM\_iDRACCardString, and  
 1134 DCIM\_iDRACCardInteger shall be “Time Zone Configuration Information”.

1135 The following table describes the values for the DCIM\_iDRACCardInteger of this group. Each column  
 1136 heading corresponds to a property name on the DCIM\_iDRACCardInteger class. Each row contains the  
 1137 values for the properties listed in the column headings.

1138 **Table 65 – DCIM\_iDRACCardInteger Time Zone Configuration Information**

AttributeName	AttributeDisplayName	IsReadOnly	Display Order	LowerBound	UpperBound
TimeZoneOffset	Tune Time Zone Offset	FALSE	751	0	46800
DaylightOffset	Tune Day Light Offset	FALSE	752	0	60

1139 The following table describes the values for the DCIM\_iDRACCardString of this group. Each column  
 1140 heading corresponds to a property name on the DCIM\_iDRACCardString class. The Value Expression  
 1141 column contains constraints on string value formulation. Each row contains the values for the properties  
 1142 listed in the column headings.

1143 **Table 80– DCIM\_iDRACCardString Time Zone Configuration Information**

AttributeName	AttributeDisplayName	IsReadOnly	Display Order	MinLength	MaxLength
TimeZone	Time Zone String	FALSE	753	0	32

1144 The time zone string would be what is supported by Linux (/usr/share/zoneinfo)

### 1145 **7.5.34 NTP Configuration**

1146 This section describes the attributes for iDRAC’s NTP Configuration

1147 The GroupID property for the DCIM\_iDRACCardEnumeration, DCIM\_iDRACCardString, and  
 1148 DCIM\_iDRACCardInteger shall be “NTPConfigGroup.1”.

1149 The GroupDisplayName property for the DCIM\_iDRACCardEnumeration, DCIM\_iDRACCardString, and  
 1150 DCIM\_iDRACCardInteger shall be “NTP Configuration Group”.

1151 The following table describes the values for the DCIM\_iDRACCardString of this group. Each column  
 1152 heading corresponds to a property name on the DCIM\_iDRACCardString class. The Value Expression  
 1153 column contains constraints on string value formulation. Each row contains the values for the properties  
 1154 listed in the column headings.

1155 **Table 81– DCIM\_iDRACCardString NTP Configuration**

AttributeName	AttributeDisplayName	IsReadOnly	Display Order	MinLength	MaxLength
NTP1	NTP Server 1	FALSE	2001	0	254
NTP2	NTP Server 2	FALSE	2002	0	254
NTP3	NTP Server 3	FALSE	2003	0	254

1156 The following table describes the values for the DCIM\_iDRACCardEnumeration of this group. Each  
 1157 column heading corresponds to a property name on the DCIM\_iDRACCardEnumeration class. The  
 1158 Description column contains the description for each of the attribute. Each row contains the values for the  
 1159 properties listed in the column headings. The PossibleValues property is an array property represented in  
 1160 the table as comma delimited list.

1161

**Table 82 – DCIM\_iDRACCardEnumeration NTP Configuration**

AttributeName	AttributeDisplayName	IsReadOnly	Display Order	PossibleValues
NTPEnable	NTP Enable	FALSE	2000	“Disabled”, “Enabled”

1162

1163 The following table describes the values for the DCIM\_iDRACCardInteger of this group. Each column  
 1164 heading corresponds to a property name on the DCIM\_iDRACCardInteger class. The Description column  
 1165 contains the description for each of the attribute. Each row contains the values for the properties listed in  
 1166 the column headings. The PossibleValues property is an array property represented in the table as  
 1167 comma delimited list.

1168

**Table 83 – DCIM\_iDRACCardInteger NTP Configuration**

AttributeName	AttributeDisplayName	IsReadOnly	Display Order	Lower Bound	Upper Bound
NTPMaxDist	NTP Maximum Distance	FALSE	2005	1	128

1169

### 1170 7.5.35 Remote File Share Configuration

1171 This section describes the attributes for iDRAC’s Remote File Share Configuration.

1172 The GroupID property for the DCIM\_iDRACCardEnumeration, DCIM\_iDRACCardString, and  
 1173 DCIM\_iDRACCardInteger shall be “RFS.1”.

1174 The GroupDisplayName property for the DCIM\_iDRACCardEnumeration, DCIM\_iDRACCardString, and  
 1175 DCIM\_iDRACCardInteger shall be “Remote File Share”.

1176 The following table describes the values for the DCIM\_iDRACCardEnumeration of this group. Each  
 1177 column heading corresponds to a property name on the DCIM\_iDRACCardEnumeration class. The  
 1178 Description column contains the description for each of the attribute. Each row contains the values for the  
 1179 properties listed in the column headings. The PossibleValues property is an array property represented in  
 1180 the table as comma delimited list.

1181

**Table 66 – 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”

### 1182 7.5.36 NIC Static Information

1183 This section describes the attributes for iDRAC’s NIC Static Configuration.

1184 The GroupID property for the DCIM\_iDRACCardString shall be “NICStatic.1”.

1185 The GroupDisplayName property for the DCIM\_iDRACCardString shall be “NIC Static Information”.

1186 The following table describes the values for the DCIM\_iDRACCardString of this group. Each column  
 1187 heading corresponds to a property name on the DCIM\_iDRACCardString class. The Value Expression  
 1188 column contains constraints on string value formulation. Each row contains the values for the properties  
 1189 listed in the column headings.

1190

**Table 85– DCIM\_iDRACCardString NIC Static Information**

AttributeName	AttributeDisplayName	IsReadOnly	Display Order	MinLength	MaxLength
DNSDomainName	DNS Domain Name	FALSE	182	0	254

1191

**1192 7.5.37 IPv4 Static Information**

1193 This section describes the attributes for iDRAC’s IPv4 Static Information.

1194 The GroupID property for the DCIM\_iDRACCardString shall be “Pv4Static.1”.

1195 The GroupDisplayName property for the DCIM\_iDRACCardString shall be “IPv4 Static Information”.

1196 The following table describes the values for the DCIM\_iDRACCardString of this group. Each column  
1197 heading corresponds to a property name on the DCIM\_iDRACCardString class. The Value Expression  
1198 column contains constraints on string value formulation. Each row contains the values for the properties  
1199 listed in the column headings.

1200

**Table 86– DCIM\_iDRACCardString IPv4 Static Information**

AttributeName	AttributeDisplayName	IsReadOnly	Display Order	MinLength	MaxLength
Address	IPv4 Address	FALSE	183	0	16
Netmask	Net Mask	FALSE	184	0	16
Gateway	Gateway	FALSE	185	0	16
DNS1	DNS Server 1	FALSE	186	0	16
DNS2	DNS Server 2	FALSE	187	0	16

**1201 7.5.38 IPv6 Static Information**

1202 This section describes the attributes for iDRAC’s IPv6 Static Information.

1203 The GroupID property for the DCIM\_iDRACCardString, and DCIM\_iDRACCardInteger shall be  
1204 “IPv6Static.1”.

1205 The GroupDisplayName property for the DCIM\_iDRACCardString, and DCIM\_iDRACCardInteger shall  
1206 be “IPv6 Static Information”.

1207 The following table describes the values for the DCIM\_iDRACCardString of this group. Each column  
1208 heading corresponds to a property name on the DCIM\_iDRACCardString class. The Value Expression  
1209 column contains constraints on string value formulation. Each row contains the values for the properties  
1210 listed in the column headings.

1211

**Table 87 – DCIM\_iDRACCardString IPv6 Static Information**

AttributeName	AttributeDisplayName	IsReadOnly	Display Order	MinLength	MaxLength
Address1	IPv6 Address 1	FALSE	188	0	63
Gateway	IPv6 Gateway	FALSE	189	0	63

AttributeName	AttributeDisplayName	IsReadOnly	Display Order	MinLength	MaxLength
DNS1	IPV6 DNS Server1	FALSE	191	0	63
DNS2	IPV6 DNS Server2	FALSE	192	0	63

1212 The following table describes the values for the DCIM\_iDRACCardInteger of this group. Each column  
1213 heading corresponds to a property name on the DCIM\_iDRACCardInteger class. Each row contains the  
1214 values for the properties listed in the column headings.

1215 **Table 67 – DCIM\_iDRACCardInteger IPv6 Static Information**

AttributeName	AttributeDisplayName	IsReadOnly	Display Order	LowerBound	UpperBound
PrefixLength	IPV6 Link Local Prefix Length	FALSE	190	1	128

1216

### 1217 **7.5.39 Default Credential Mitigation Configuration**

1218 This section describes the attributes for iDRAC’s credential mitigation configuration.

1219 The GroupID property for the DCIM\_iDRACCardEnumeration shall be  
1220 “DefaultCredentialMitigationConfigGroup.1”.

1221 The GroupDisplayName property for the DCIM\_iDRACCardEnumeration shall be “Default Credential  
1222 Mitigation Configuration”.

1223 The following table describes the values for the DCIM\_iDRACCardEnumeration of this group. Each  
1224 column heading corresponds to a property name on the DCIM\_iDRACCardEnumeration class. The  
1225 Description column contains the description for each of the attribute. Each row contains the values for the  
1226 properties listed in the column headings. The PossibleValues property is an array property represented in  
1227 the table as comma delimited list.

1228 **Table 89 – DCIM\_iDRACCardEnumeration Default Credential Mitigation Configuration**

AttributeName	AttributeDisplayName	IsReadOnly	Display Order	PossibleValues
DefaultCredentialMitigation	Default Credential Mitigation	FALSE	1700	“Enabled”, “Disabled”

### 1229 **7.5.40 IPv6 URL Information**

1230 This section describes the attributes for iDRAC’s IPv6 URL information.

1231 The GroupID property for the DCIM\_iDRACCardString shall be “IPv6URL.1”.

1232 The GroupDisplayName property for the DCIM\_iDRACCardString shall be “iDRAC IPv6 URL”.

1233 The following table describes the values for the DCIM\_iDRACCardString of this group. Each column  
1234 heading corresponds to a property name on the DCIM\_iDRACCardString class. The Value Expression  
1235 column contains constraints on string value formulation. Each row contains the values for the properties  
1236 listed in the column headings.

1237

**Table 90 – DCIM\_iDRACCardString IPv6 URL Information**

AttributeName	AttributeDisplayName	IsReadOnly	Display Order	MinLength	MaxLength
URL	IPv6 URL	TRUE	2120	0	80

1238 **7.5.41 iDRAC Logging**

1239 This section describes the attributes for iDRAC’s iDRAC Logging information.

1240 The GroupID property for the DCIM\_iDRACCardEnumeration shall be “Logging.1”.

1241 The GroupDisplayName property for the DCIM\_iDRACCardEnumeration shall be “iDRAC Logging”.

1242 The following table describes the values for the DCIM\_iDRACCardEnumeration of this group. Each  
 1243 column heading corresponds to a property name on the DCIM\_iDRACCardEnumeration class. The  
 1244 Description column contains the description for each of the attribute. Each row contains the values for the  
 1245 properties listed in the column headings. The PossibleValues property is an array property represented in  
 1246 the table as comma delimited list.

1247 **Table 91 – DCIM\_iDRACCardEnumeration iDRAC Logging**

AttributeName	AttributeDisplayName	IsReadOnly	Display Order	PossibleValues
SELOEMEventFilterEnable	SEL OEM Event Filter Enable	FALSE	2130	“Disabled”, “Enabled”

1248 **7.5.42 IO Identity Optimization**

1249 This section describes the attributes for iDRAC’s IO Identity Optimization

1250 The GroupID property for the DCIM\_iDRACCardEnumeration shall be “IOIDOpt.1”.

1251 The GroupDisplayName property for the DCIM\_iDRACCardEnumeration shall be “IO Identity  
 1252 Optimization”.

1253 The following table describes the values for the DCIM\_iDRACCardEnumeration of this group. Each  
 1254 column heading corresponds to a property name on the DCIM\_iDRACCardEnumeration class. The  
 1255 Description column contains the description for each of the attribute. Each row contains the values for the  
 1256 properties listed in the column headings. The PossibleValues property is an array property represented in  
 1257 the table as comma delimited list.

1258 **Table 92 – DCIM\_iDRACCardEnumeration iDRAC Logging**

AttributeName	AttributeDisplayName	IsReadOnly	Display Order	PossibleValues
IOIDOptEnable	IOIDOpt Enable	FALSE	2140	“Disabled”, “Enabled”
VirtualAddressPersistence PolicyNonAuxPwr	[2] Virtual Address Persistence Policy Non Auxiliary Powered	FALSE	2141	None, Warm Reset, Power Good Reset, AC Power Loss, Warm Reset and Power Good Reset, Warm Reset and AC Power Loss, Power Good Reset and AC Power Loss, Warm Reset and Power Good Reset and AC Power Loss

AttributeName	AttributeDisplayName	IsReadOnly	Display Order	PossibleValues
VirtualAddressPersistencePolicyAuxPwr	Virtual Address Persistence Policy Auxiliary Powered	FALSE	2142	None, Warm Reset, Power Good Reset, AC Power Loss, Warm Reset and Power Good Reset, Warm Reset and AC Power Loss, Power Good Reset and AC Power Loss, Warm Reset and Power Good Reset and AC Power Loss
InitiatorPersistencePolicy	Initiator Persistence Policy	FALSE	2143	None, Warm Reset, Power Good Reset, AC Power Loss, Warm Reset and Power Good Reset, Warm Reset and AC Power Loss, Power Good Reset and AC Power Loss, Warm Reset and Power Good Reset and AC Power Loss
StorageTargetPersistencePolicy	Storage Target Persistence Policy	FALSE	2144	None, Warm Reset, Power Good Reset, AC Power Loss, Warm Reset and Power Good Reset, Warm Reset and AC Power Loss, Power Good Reset and AC Power Loss, Warm Reset and Power Good Reset and AC Power Loss

1259 **7.5.43 VNC Server**

1260 This section describes the attributes for iDRAC's VNC Server

1261 The GroupID property for the DCIM\_iDRACCardEnumeration shall be "VNCServer.1".

1262 The GroupDisplayName property for the DCIM\_iDRACCardEnumeration shall be "RAC VNC Server".

1263 The following table describes the values for the DCIM\_iDRACCardEnumeration of this group. Each  
 1264 column heading corresponds to a property name on the DCIM\_iDRACCardEnumeration class. The  
 1265 Description column contains the description for each of the attribute. Each row contains the values for the  
 1266 properties listed in the column headings. The PossibleValues property is an array property represented in  
 1267 the table as comma delimited list.

1268 **Table 93 – DCIM\_iDRACCardEnumeration VNC Server**

AttributeName	AttributeDisplayName	IsReadOnly	Display Order	PossibleValues
Enable	Enable	FALSE	2162	"Disabled","Enabled"
LowerEncryptionBitLength	Lower Encryption Bit Length	FALSE	2165	"Disabled","Enabled"
SSLEncryptionBitLength	SSL Encryption Bit Length	FALSE	2167	"Disabled", "Auto Negotiate"

AttributeName	AttributeDisplayName	IsReadOnly	Display Order	PossibleValues
				"128-Bit or higher", "168-Bit or higher", "256-Bit or higher"

1269

1270 The following table describes the values for the DCIM\_iDRACCardString of this group. Each column  
 1271 heading corresponds to a property name on the DCIM\_iDRACCardString class. The Value Expression  
 1272 column contains constraints on string value formulation. Each row contains the values for the properties  
 1273 listed in the column headings.

1274 **Table 94 – DCIM\_iDRACCardString VNC Server**

AttributeName	AttributeDisplayName	IsReadOnly	Display Order	MinLength	MaxLength
Password	Password	FALSE	2163	0	9

1275 The following table describes the values for the DCIM\_iDRACCardInteger of this group. Each column  
 1276 heading corresponds to a property name on the DCIM\_iDRACCardInteger class. Each row contains the  
 1277 values for the properties listed in the column headings.

1278 **Table 95 – DCIM\_iDRACCardInteger VNC Server**

AttributeName	AttributeDisplayName	IsReadOnly	Display Order	LowerBound	UpperBound
Port	Port	FALSE	2164	1024	65535
Timeout	Timeout	FALSE	2166	60	10800

1279 **7.5.44 ServiceModule**

1280 This section describes the attributes for ServiceModule on host machine

1281 The GroupID property for the DCIM\_iDRACCardEnumeration shall be "ServiceModule.1"

1282 The GroupDisplayName property for the DCIM\_iDRACCardEnumeration shall be "ServiceModule".

1283 The following table describes the values for the DCIM\_iDRACCardEnumeration of this group. Each  
 1284 column heading corresponds to a property name on the DCIM\_iDRACCardEnumeration class. The  
 1285 Description column contains the description for each of the attribute. Each row contains the values for the  
 1286 properties listed in the column headings. The PossibleValues property is an array property represented in  
 1287 the table as comma delimited list.

1288 **Table 96 – DCIM\_iDRACCardEnumeration ServiceModule**

[3] AttributeName	AttributeDisplayName	Display Order	IsReadOnly	PossibleValues
OSInfo	Sharing of OS Information via ServiceModule	2151	FALSE	0 – "Disabled" 1 – "Enabled" Default: 1
WatchdogState	Watchdog timer via ServiceModule	2160	FALSE	0 – "Disabled"



				1 – “Enabled” Default: 0
WatchdogRecoveryAction	Recovery action on watchdog alert	2154	FALSE	0 – none; 1 – reboot; 2 – poweroff; 3 – powercycle Default:None The value cannot be set if WatchdogState is Disabled
SNMPOnHostOS (Not Supported in Espada 1.4)	SNMP forwarding on the host		FALSE	0 – “Disabled” 1 – “Enabled” Default: 0
LCLReplication	LCL replication in OS Log	2156	FALSE	0 – “Disabled” 1 – “Enabled” Default: 0 This value of this object will be automatically set to disabled if OMSA is detected. An attempt to enable it when OMSA is detected will return an appropriate error.
WMIInfo (Not Supported in Espada 1.4)	Populate WMI information via ServiceModule		FALSE	0 – “Disabled” 1 – “Enabled” Default: 0
ServiceModuleEnable	ServiceModuleEnable	2159	FALSE	0 – “Disabled” 1-“Enabled” Default: 1
ServiceModuleState	ServiceModule service state on host	2160	TRUE	0 – Not Installed; 1 – Installed But Not Running; 2- Installed and Running Default:0-Not

				Installed
OMSAPresence	OMSA Presence on Host	2150	True	Default: 1 – Present 0-Not Present

1289 The following table describes the values for the DCIM\_iDRACCardString of this group. Each column  
 1290 heading corresponds to a property name on the DCIM\_iDRACCardString class. The Value Expression  
 1291 column contains constraints on string value formulation. Each row contains the values for the properties  
 1292 listed in the column headings.

1293 **Table 97 – DCIM\_iDRACCardString ServiceModule**

AttributeName	AttributeDisplayName	IsReadOnly	Display Order	MinLength	MaxLength
ServiceModuleVersion	Version of installed ServiceModule	True	2158	1  Default: NA Version Number if ServiceModule installed	16

1294 The following table describes the values for the DCIM\_iDRACCardInteger of this group. Each column  
 1295 heading corresponds to a property name on the DCIM\_iDRACCardInteger class. Each row contains the  
 1296 values for the properties listed in the column headings.

1297 **Table 98 – DCIM\_iDRACCardInteger ServiceModule**

AttributeName	AttributeDisplayName	IsReadOnly	DisplayOrder	LowerBound	UpperBound
WatchdogResetTime	System reset time on watchdog alert	FALSE	2153	60  Default: 480  The value cannot be set if WatchdogState is Disabled	480

1298 **Note:ServiceModule needs to be installed on the machine’s OS, in order to be**  
 1299 **able to set watchdog attributes, otherwise appropriate error message will be**  
 1300 **displayed in such cases**

1301

1302

### 1303 **7.5.45 USB Management Port Mode**

1304 This section describes the attributes for iDRAC’s USB Management Port Mode. This attribute is used to  
 1305 determine whether the USB port will be used by iDRAC or Server.

1306 The GroupID property for the DCIM\_iDRACCardEnumeration shall be “USB.1”.

1307 The GroupDisplayName property for the DCIM\_iDRACCardEnumeration shall be “USB Management”.

1308 The following table describes the values for the DCIM\_iDRACCardEnumeration of this group. Each  
 1309 column heading corresponds to a property name on the DCIM\_iDRACCardEnumeration class. The  
 1310 Description column contains the description for each of the attribute. Each row contains the values for the

1311 properties listed in the column headings. The PossibleValues property is an array property represented in  
 1312 the table as comma delimited list.

1313 **Table 99 – DCIM\_iDRACCardEnumeration Management Port Mode**

AttributeName	AttributeDisplayName	IsReadOnly	DisplayOrder	PossibleValues
ManagementPortMode	Management Port Mode	False	2200	Automatic : If a USB device is not supported by iDRAC or there's no useful management content (e.g. XML configuration files) present on the device, it is detached from iDRAC & attached to the Server.  OS: USB device will always be used by the operating system.  iDrac: USB device will always be used by iDRAC.  <b>Note: Default value is Automatic.</b>

1314

1315 **7.5.46 USB Configuration**

1316 This section describes the attributes for iDRAC's USB configuration. This attribute is to control the The  
 1317 automatic import of the Configuration XML.

1318 The GroupID property for the DCIM\_iDRACCardEnumeration shall be "USB.1".

1319 The GroupDisplayName property for the DCIM\_iDRACCardEnumeration shall be "USB Management".

1320 The following table describes the values for the DCIM\_iDRACCardEnumeration of this group. Each  
 1321 column heading corresponds to a property name on the DCIM\_iDRACCardEnumeration class. The  
 1322 Description column contains the description for each of the attribute. Each row contains the values for the  
 1323 properties listed in the column headings. The PossibleValues property is an array property represented in  
 1324 the table as comma delimited list.

Table 100 – DCIM\_iDRACCardEnumeration USB Configuration

AttributeName	AttributeDisplayName	IsReadOnly	DisplayOrder	PossibleValues
USBConfiguration	USB Configuration	False	2201	<p>Disabled (0) – iDRAC does not perform configuration.</p> <p>Enabled with default credentials(1) — BIOS setup password and iDRAC user accounts must be at default.</p> <p>Enabled (2) — iDRAC performs configuration once.</p> <p>Values= {"0","1","2"}</p> <p>[4] <b>Note:</b></p> <p><b>1. Default value is Enabled.</b></p> <p><b>2. After Import from USB key this Attribute will be “Disabled” unless explicitly set in the Configuration XML to “Enabled”</b></p>

1326

1327

## 1328 7.6 DCIM\_iDRACCardService – iDRAC CardService

1329 This section describes the implementation for the DCIM\_iDRACCardService class. It is used to host the  
1330 ApplyAttributes method which is used to change the values of the iDRAC Card attribute values.

### 1331 7.6.1 Resource URIs for WinRM®

1332 The class Resource URI shall be “http://schemas.dell.com/wbem/wscim/1/cim-  
1333 schema/2/DCIM\_iDRACCardService?\_\_cimnamespace=root/dcim”

1334 The key properties shall be SystemCreationClassName, CreationClassName, SystemName and Name.

1335 The instance Resource URI for DCIM\_iDRACCardService instance shall be:

1336 “http://schemas.dell.com/wbem/wscim/1/cim-  
1337 schema/2/DCIM\_iDRACCardService?\_\_cimnamespace=root/dcim+ SystemCreationClassName=  
1338 DCIM\_ComputerSystem +CreationClassName= DCIM\_iDRACCardService + SystemName= DCIM:ComputerSystem  
1339 +Name= DCIM:iDRACCardService”

1340 The following table lists the implemented operations on DCIM\_iDRACCardService.

1341

**Table 92 – DCIM\_IDRACCardService - Operations**

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

1342

1343 **7.6.2 Class Properties**

1344 The following table details the implemented properties for DCIM\_iDRACCardService instance  
 1345 representing the integer type attributes of a remote access card in a system. The "Requirements" column  
 1346 shall denote whether the property is implemented (for requirement definitions, see section 3). The  
 1347 "Additional Requirements" column shall denote either possible values for the property, or requirements on  
 1348 the value formulation.

1349

1350

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1353

**Table 93 – 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_iDRACCardService")
SystemName	Mandatory	string	Key (This property value shall be "DCIM:ComputerSystem")
Name	Mandatory	string	This property shall have value of "DCIM:iDRACCardService".
ElementName	Mandatory	string	This property shall have value of "DRAC Service".

1354 **7.7 iDRAC Card Profile Profile Registration**

1355 This section describes the implementation for the DCIM\_LCRegisteredProfile class.

1356 This class shall be instantiated in the Interop Namespace: root/interop.

1357 **7.7.1 Resource URIs for WinRM®**

1358 The class Resource URI shall be "http://schemas.dmtf.org/wbem/wscim/1/cim-  
 1359 schema/2/CIM\_RegisteredProfile?\_\_cimnamespace=root/interop"

1360 The key property shall be the InstanceID property.

1361 The instance Resource URI shall be: "http://schemas.dell.com/wbem/wscim/1/cim-  
 1362 schema/2/DCIM\_LCRegisteredProfile?\_\_cimnamespace=root/interop+InstanceID=  
 1363 DCIM:iDRACCard:1.0.0"

1364 **7.7.2 Operations**

1365 The following table lists the implemented operations on DCIM\_LCRegisteredProfile.

1366 **Table 68 – DCIM\_LCRegisteredProfile - Operations**

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

1367 **7.7.3 Class Properties**

1368 The following table details the implemented properties for DCIM\_LCRegisteredProfile instance  
 1369 representing iDRAC Card Profile implementation. The “Requirements” column shall denote whether the  
 1370 property is implemented (for requirement definitions, see section 3). The “Additional Requirements”  
 1371 column shall denote either possible values for the property, or requirements on the value formulation.

1372 **Table 69 – 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 "1.3.0".
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"> <li>• “LICENSED”</li> <li>• “NOT_LICENSED”</li> </ul> If no license is required for the profile, the property shall have value NULL.

1373 **8 Methods**

1374 This section details the requirements for supporting extrinsic methods for the CIM elements defined by  
 1375 this profile.

1376 **8.1 DCIM\_iDRACCardService.SetAttribute()**

1377 The SetAttribute() method is used to set or change the value of a iDRAC Card attribute.

1378 Invocation of the SetAttribute() method shall change the value of the  
 1379 DCIM\_IDRACCardAttribute.CurrentValue or DCIM\_IDRACCardAttribute.PendingValue property to the

1380 value specified by the AttributeValue parameter if the DCIM\_IDRACCardAttribute.IsReadOnly property is  
 1381 FALSE.

1382 Invocation of this method when the DCIM\_IDRACCardAttribute.IsReadOnly property is TRUE shall result  
 1383 in no change to the value of the DCIM\_IDRACCardAttribute.CurrentValue property. The results of  
 1384 changing this value is described with the SetResult parameter.

1385 Return code values for the SetAttribute() method are specified in Table and parameters are specified in  
 1386 Table 71 -. Invoking the SetAttribute() method multiple times can result in the earlier requests being  
 1387 overwritten or lost.

1388

1389 **Table 70 – SetAttribute() Method: Return Code Values**

Value	Description
0	Completed with no error
2	Failed

1390 **Table 71 – 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"> <li>• "Set CurrentValue" when the attributes current value is set.</li> <li>• "Set PendingValue" when the attributes pending value is set.</li> </ul>
OUT	RebootRequired	String	Returns: <ul style="list-style-type: none"> <li>• "Yes" if reboot is required,</li> <li>• "No" if reboot is not required.</li> </ul>
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

1391 **Table 72 – 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

MessageID (OUT parameter)	Message	MessageArguments[]
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	
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	



MessageID (OUT parameter)	Message	MessageArguments[]
	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>	
RAC053	OS to iDRAC pass-through is disabled.	
RAC063	The attribute string length entered is inappropriate: <parameter>	AttributeName
RAC075	Unable to set the attribute because RSM is Disabled Update.1#EnableSharedCompUpdate	
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.	

MessageID (OUT parameter)	Message	MessageArguments[]
LIC502	Feature(s) not available.	
LIC503	A required license is missing or expired. The following features are not enabled: <features>	
LC062	An instance of Export or Import System Configuration is already running.	

1392

## 1393 8.2 DCIM\_iDRACCardService.SetAttributes()

1394 The SetAttributes() method is used to set or change the values of a group of attributes.

1395 Invocation of the SetAttributes() method shall change the values of the  
 1396 DCIM\_iDRACCardAttribute.CurrentValue or PendingValue properties that correspond to the names  
 1397 specified by the AttributeName parameter and the values specified by the AttributeValue parameter if the  
 1398 respective DCIM\_iDRACCardAttribute.IsReadOnly property is FALSE. Invocation of this method when  
 1399 the respective DCIM\_iDRACCardAttribute.IsReadOnly property is TRUE shall result in no change to the  
 1400 corresponding value of the DCIM\_iDRACCardAttribute.CurrentValue property.

1401 NOTE: If setting numerous attributes at the same time, please make sure that WSMAN client has a timeout of at  
 1402 least 120 seconds.

1403 Return code values for the SetAttributes() method are specified in Table , and parameters are specified in  
 1404 Table .

1405 Invoking the SetAttributes() method multiple times can result in the earlier requests being overwritten or  
 1406 lost.

1407 **Table 73 – SetAttributes() Method: Return Code Values**

Value	Description
0	Completed with no error
2	Failed

1408 **Table 100 – 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.

Qualifiers	Name	Type	Description/Values
OUT	SetResult[]	String	Returns: <ul style="list-style-type: none"> <li>" Set CurrentValue" when the attributes current value is set.</li> <li>"Set PendingValue" when the attributes pending value is set.</li> </ul>
OUT	RebootRequired[]	String	Returns: <ul style="list-style-type: none"> <li>"Yes" if reboot is required,</li> <li>"No" if reboot is not required.</li> </ul>
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

1409

1410

**Table 101 – 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	

MessageID (OUT parameter)	Message	MessageArguments[]
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 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	

MessageID (OUT parameter)	Message	MessageArguments[]
	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>	
RAC063	The attribute string length entered is inappropriate: <parameter>	AttributeName
RAC075	Unable to set the attribute because RSM is Disabled Update.1#EnableSharedCompUpdate	
RAC053	OS to iDRAC pass-through is disabled.	
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.	
LIC502	Feature(s) not available.	
LIC503	A required license is missing or expired. The following features are not enabled: <features>	
LC062	An instance of Export or Import System Configuration is already running.	

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### 1412 **8.3 DCIM\_iDRACCardService.CreateTargetedConfigJob()**

1413 The CreateTargetedConfigJob() method is used to apply the pending values created by the SetAttribute  
1414 and SetAttributes methods. The successful execution of this method creates a job to apply the pending  
1415 attribute values.

1416 The CreateTargetedConfigJob() method supports the following optional input parameters:

- 1417 1. ScheduledStartTime: When provided in the input parameters, schedules the “configuration job”  
1418 and the optional “reboot job” at the specified start time. A special value of “TIME\_NOW”  
1419 schedules the job(s) immediately.
- 1420 2. UntilTime: This parameter has a dependency on “ScheduledStartTime”. The  
1421 “ScheduledStartTime” and “UntilTime” define a time window for scheduling the job(s). Once  
1422 scheduled, jobs are executed within the time window.

1423 If CreateTargetedConfigJob() method is executed without the three optional parameters discussed above,  
1424 then the configuration job is created but not scheduled. However, this configuration job can be scheduled

1425 later using the DCIM\_JobService.SetupJobQueue() method from the “Job Control Profile”.  
 1426 DCIM\_JobService.SetupJobQueue () can be executed to schedule several configuration jobs including  
 1427 the reboot job. See the “Job Control Profile” for more details.

1428 Return code values for the CreateTargetedConfigJob() method are specified in Table , and parameters  
 1429 are specified in Table .

1430 Subsequent calls to CreateTargetedConfigJob after the first CreateTargetedConfigJob results in error  
 1431 until the first job is completed.

1432 **Table 102 – CreateTargetedConfigJob() Method: Return Code Values**

Value	Description
2	Failed
4096	Job Created

1433 **Table 103– CreateTargetedConfigJob() Method: Parameters**

Qualifiers	Name	Type	Description/Values
IN, REQ	Target	String	FQDD of the iDRAC Card
IN	ScheduledStartTime	String	Start time for the job execution in format: yyyymmddhhmmss. The string "TIME_NOW" means immediate.
IN	UntilTime	String	End time for the job execution in format: yyyymmddhhmmss. If this parameter is not NULL, then ScheduledStartTime parameter shall also be specified.
OUT	Job	CIM_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.

1434 **Table 74 – 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	

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	
RAC035	No Pending Configurations	

MessageID (OUT parameter)	Message	MessageArguments[]
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.	
LIC502	Feature(s) not available.	
LIC503	A required license is missing or expired. The following features are not enabled: <features>	
LC062	An instance of Export or Import System Configuration is already running.	

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#### **8.4 DCIM\_iDRACCardService.DeletePendingConfiguration()**

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The DeletePendingConfiguration() method is used to cancel the pending values created by the

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SetAttribute and SetAttributes methods. The DeletePendingConfiguration() method cancels the pending

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configuration changes made before the configuration job is created with CreateTargetedConfigJob(). This

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method only operates on the pending changes prior to CreateTargetedConfigJob() being called. After the



1442 configuration job is created, the pending changes can only be canceled by calling DeleteJobQueue()  
1443 method in the Job Control profile.

1444 Return code values for the DeletePendingConfiguration() method are specified in Table , and parameters  
1445 are specified in Table .

1446 **Table 75 – DeletePendingConfiguration() Method: Return Code Values**

Value	Description
0	Success
2	Failed

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**Table 76 – 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

**Table 77 – 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.	
RAC048	The operation was successful.	
RAC049	Resource allocation failure.	

MessageID (OUT parameter)	Message	MessageArguments[]
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.	
LIC502	Feature(s) not available.	
LIC503	A required license is missing or expired. The following features are not enabled: <features>	
LC062	An instance of Export or Import System Configuration is already running.	

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## 1454 8.5 DCIM\_iDRACCardService.ApplyAttributes()

1455 The ApplyAttributes() method is used to set or change the value of a iDRAC Card attribute.

1456 NOTE: If setting numerous attributes at the same time, please make sure that WSMAN client has a timeout of at  
 1457 least 120 seconds.

1458 **Table 78 – ApplyAttributes() Method: Return Code Values**

Value	Description
2	Error
4096	Job Created

1459 **Table 79 – 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

1460 **Table 80 – 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	
RAC010	Invalid character value	

MessageID (OUT parameter)	Message	MessageArguments[]
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	
RAC037	Attribute dependency failed	
RAC038	The command failed	

MessageID (OUT parameter)	Message	MessageArguments[]
RAC039	Invalid parameter value for %s	AttributeName, AttributeValue, Target
RAC040	Missing parameter(s) %s	AttributeName, AttributeValue, Target
RAC053	OS to iDRAC pass-through is disabled.	
RAC075	Unable to set the attribute because RSM is Disabled Update.1#EnableSharedCompU pdate	
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.	
LC062	An instance of Export or Import System Configuration is already running.	

1461 **8.6 DCIM\_iDRACCardService.SendTestEmailAlert()**

1462 This method is used to to send a test email alert for a particular attribute.

1463 Return code values for the SendTestEmailAlert() method are specified in Table , and parameters are  
1464 specified in Table .

1465 **Table 111 – SendTestEmailAlert() Method: Return Code Values**

Value	Description
0	Completed with No Error
2	Failed

1466 **Table 112 – 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.

1467 **Table 81 – SendTestEmailAlert ( ) Method: Standard Messages**

MessageID (OUT parameter)	Message	MessageArguments[]
RAC001	The command was successful	

MessageID (OUT parameter)	Message	MessageArguments[]
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 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	



MessageID (OUT parameter)	Message	MessageArguments[]
	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 <parameter name>	
LIC502	Feature(s) not available.	
LIC503	A required license is missing or expired. The following features are not enabled: <features>	

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## 1469 **8.7 DCIM\_iDRACCardService.SendTestSNMPTrap()**

1470 This method is used to to send a test snmp alert for a particular attribute.

1471 Return code values for the SendTestSNMPTrap() method are specified in Table , and parameters are  
1472 specified in Table .

1473 **Table 82 – SendTestSNMPTrap() Method: Return Code Values**

Value	Description
0	Completed with No Error

Value	Description
2	Failed

1474

**Table 83 – 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.

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**Table 84 – 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	

MessageID (OUT parameter)	Message	MessageArguments[]
	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	
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	

MessageID (OUT parameter)	Message	MessageArguments[]
	name>	
LIC502	Feature(s) not available.	
LIC503	A required license is missing or expired. The following features are not enabled: <features>	

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## 1477 **8.8 DCIM\_iDRACCardService. GenerateSSLCSR ()**

1478 This method is used to create the certificate signing request(CSR) and return it. The certificate must be  
1479 copied to the file and signed by an authority.

1480 Note: For creating the CSR, the following DCIM\_iDRACCardString security attributes must be configured.

- 1481 • DNSDomainName
- 1482 • NIC.DNSRacName
- 1483 • NIC.DNSRegister
- 1484 • CsrKeySize
- 1485 • CsrCommonName
- 1486 • CsrOrganizationUnit
- 1487 • CsrLocalityName
- 1488 • CsrStateName
- 1489 • CsrCountryCode
- 1490 • CsrEmailAddr

1491 **Table 857 – GenerateSSLCSR() Method: Return Code Values**

Value	Description
0	Completed with No Error
2	Failed

1492 **Table 86 – GenerateSSLCSR() Method: Parameters**

Qualifiers	Name	Type	Description/Values
OUT	MessageID	String	Use the Error Message ID to view 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.
OUT	SSLCSRFile	String	Base64 encoded string of the csr file contents

1493 **Table 879 – GenerateSSLCSR() Method: Standard Messages**

MessageID (OUT parameter)	Message	MessageArguments[]
LC072	An SSL Certificate is successfully generated.	
LC073	Unable to generate an SSL Certificate because one or more	

MessageID (OUT parameter)	Message	MessageArguments[]
	mandatory security attributes are invalid.	

1494 **8.9 DCIM\_iDRACCardService.ImportSSLCertificate()**

1495 This method is used to import the ssl certificate to iDRAC, on the basis of input parameter Type. After  
 1496 importing the certificate, the iDRAC will automatically restart.

1497 Return code values for the ImportSSLCertificate() method are specified in Table 20- and parameters are  
 1498 specified in Table 1.

1499 **Table 8820 – ImportSSLCertificate() Method: Return Code Values**

Value	Description
0	Completed with No Error
2	Failed

1500 **Table 8921 – ImportSSLCertificate() Method: Parameters**

Qualifiers	Name	Type	Description/Values
IN, REQ	SSLCertificateFile	String	A base 64 encoded string of the XML Certificate file. <i>Note: For importing CSC certificate, user has to convert PKCS file to base64 format. Use the following link to convert the file.</i> <a href="http://www.motobit.com/util/base64-decoder-encoder.asp">http://www.motobit.com/util/base64-decoder-encoder.asp</a>
IN,REQ	CertificateType	UINT16	Type of certificate to be imported. Web Server Certificate : "1" CA certificate for Directory Service: "2" Custom Signing Certificate : "3"
IN	Passphrase	String	A passphrase for certificate file. <i>Note: This is optional parameter for CSC certificate, and not required for Server and CA certificates.</i>
OUT	MessageID	String	Use the Error Message ID to view 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.

1501 **Table 9022 – ImportSSLCertificate() Method: Standard Messages**

MessageID (OUT parameter)	Message	MessageArguments[]
LC077	Certificate imported successfully.iDRAC will now restart and be unavailable during restart.	
LC011	Certificate import operation failed.	

1502 **8.10 DCIM\_iDRACCardService. ExportSSLCertificate()**

1503 This method is used to export the ssl certificate from the idrac, based on input parameter Type.  
 1504 ExportSSLCertificate returns the certificate.

1505 Return code values for the ExportSSLCertificate() method are specified in Table 23, and parameters are  
 1506 specified in Table 4.

1507 **Table 9123 – ExportSSLCertificate() Method: Return Code Values**

Value	Description
0	Completed with No Error
2	Failed

1508 **Table 9224 – ExportSSLCertificate() Method: Parameters**

Qualifiers	Name	Type	Description/Values
IN, REQ	SSLCertType	UINT16	The type of the certificate to be exported are: Web Server Certificate : "1" CA certificate for Directory Service : "2" Custom Signing Certificate : "3"
OUT	MessageID	String	Use Error Message ID to view 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.
OUT	CertificateFile	String	Exported certificate file encoded in base64.

1509 **Table 9325 – ExportSSLCertificate() Method: Standard Messages**

MessageID (OUT parameter)	Message	MessageArguments[]
LC074	The Certificate export operation did not complete successfully.	
LC067	Successfully exported SSL Certificate.	

1510 **8.11 DCIM\_iDRACCardService. DeleteSSLCertificate()**

1511 This method is used to delete the Custom Signing Certificate(CSC) from iDRAC, on the basis of input  
 1512 parameter Type. After deleting the certificate, iDRAC will restart automatically.

1513 Return code values for the DeleteSSLCertificate() method are specified in Table 26, and parameters are  
 1514 specified in Table 7.

1515 **Table 9426 – DeleteSSLCertificate() Method: Return Code Values**

Value	Description
0	Completed with No Error
2	Failed

1516

**Table 9527 – DeleteSSLCertificate() Method: Parameters**

Qualifiers	Name	Type	Description/Values
IN, REQ	CertificateType	UINT16	The type of the certificate to be deleted. Custom Signing Certificate : "3" Note : Values 1 and 2 are reserved.
OUT	MessageID	String	Use Error Message ID to view 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.

1517

**Table 9628 – DeleteSSLCertificate() Method: Standard Messages**

MessageID (OUT parameter)	Message	MessageArguments[]
LC075	The Custom Signed Certificate (CSC) is deleted successfully. iDRAC will now restart and is unavailable during restart.	
LC076	[5] Unable to perform the Custom Signed Certificate (CSC) delete operation.	

**1518 8.12 DCIM\_iDRACCardService. iDRACReset()**

1519 This method is used to reset iDRAC .

1520 Return code values for the iDRACReset() method are specified in Table 26, and parameters are specified  
1521 in Table 7.

1522

**Table 9729 – iDRACReset() Method: Return Code Values**

Value	Description
0	Completed with No Error
2	Failed

1523

**Table 9830 – iDRACReset() Method: Parameters**

Qualifiers	Name	Type	Description/Values
IN	Force	UINT16	Reset option either "Force" or "Gracefully". Force = "0" for Garceful reset Force = "1" for Force reset Note : Default value is "0"(Graceful reset).
OUT	MessageID	String	Use Error Message ID to view 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.

1524

**Table 9931 – iDRACReset() Method: Standard Messages**

MessageID (OUT parameter)	Message	MessageArguments[]
RAC064	iDRAC was successfully reset.	
RAC065	iDRAC reset operation was not successful.	
RAC071	Unable to perform the iDRAC reset operation because the firmware upgrade operation is in progress.	
RAC073	Unable to perform the iDRAC reset operation because vFlash partition creation is in progress.	

### 1525 **8.13 DCIM\_iDRACCardService. iDRACResetCfg()**

1526 This method is used to reset the iDRAC to factory default configurations.

1527 Return code values for the iDRACResetCfg() method are specified in Table 34, and parameters are  
1528 specified in Table 33.

1529 **Table 10032 – iDRACResetCfg() Method: Return Code Values**

Value	Description
0	Completed with No Error
2	Failed

1530

**Table 10133 – iDRACResetCfg() Method: Parameters**

Qualifiers	Name	Type	Description/Values
IN	Force	UINT16	Reset option either "Force" or "Gracefully". Force = "0" for Garceful reset Force = "1" for Force reset Note : Default value is "0"(Graceful reset).
OUT	MessageID	String	Use Error Message ID to view 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.

1531

**Table 10234 – iDRACResetCfg() Method: Standard Messages**

MessageID (OUT parameter)	Message	MessageArguments[]
RAC066	iDRAC is successfully reset to factory-default properties.	
RAC067	iDRAC reset to factory defaults operation was not successful.	
RAC072	Unable to perform the iDRAC reset to factory defaults operation because the firmware upgrade operation is in progress.	
RAC074	Unable to perform the iDRAC reset to factory defaults operation because vFlash partition creation is in progress.	



## 1532 8.14 DCIM\_iDRACCardService. SSLResetCfg()

1533 This method is used to restores the web-server certificate to factory defaults.

1534 Return code values for the SSLResetCfg() method are specified in Table 37, and parameters are  
1535 specified in Table 36.

1536 **Table 10335 – SSLResetCfg() Method: Return Code Values**

Value	Description
0	Completed with No Error
2	Failed

1537 **Table 10436 – SSLResetCfg() Method: Parameters**

Qualifiers	Name	Type	Description/Values
OUT	MessageID	String	Use Error Message ID to view 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.

1538 **Table 10537 – SSLResetCfg() Method: Standard Messages**

MessageID (OUT parameter)	Message	MessageArguments[]
RAC070	The SSL Web-Server certificate was successfully restored to factory defaults.	

## 1539 9 Use Cases

1540 See *Lifecycle Controller (LC) Integration Best Practices Guide*.

## 1541 10 CIM Elements

1542 No additional details specified.  
1543

## 1544 11 Privilege and License Requirement

1545 The following table describes the privilege and license requirements for the listed operations.

- 1546 • Note:- If a method requires login, config & System control privileges then errors thrown to users  
1547 with different privileges can be different. Error can't be same as it's coming from different  
1548 layers. The details are given below:If the user has Login and Config privileges, then access to  
1549 method itself is disallowed, so error is "Access Denied".
- 1550 • If the user has Login and servercontrol privileges, then access to the method is allowed but the  
1551 modification of parameter requires config privilege. Now the error will come from provider code  
1552 so it will be more descriptive.

**Table 106 – Privilege and License Requirements**

<b>Class and Method</b>	<b>Instance (GroupID.Attribute Name)</b>	<b>Operation</b>	<b>Required User Privilege</b>	<b>Required License</b>
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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, System Control	LM_REMOTE_CONFIGURATION & one of the below if shown
DCIM_iDRACCardService. SetAttribute()		INVOKE	Login, System Control	LM_REMOTE_CONFIGURATION & one of the below if shown
DCIM_iDRACCardService. SetAttributes()		INVOKE	Login, System Control	LM_REMOTE_CONFIGURATION & one of the below if shown
DCIM_iDRACCardService. SetAttribute(); DCIM_iDRACCardService. SetAttributes(); DCIM_iDRACCardService. ApplyAttributes()	Users.UserName	INVOKE	Login, System Control, Configure Users	LM_REMOTE_CONFIGURATION
DCIM_iDRACCardService. SetAttribute(); DCIM_iDRACCardService. SetAttributes(); DCIM_iDRACCardService. ApplyAttributes()	Users.Password	INVOKE	Login, System Control, Configure Users	LM_REMOTE_CONFIGURATION
DCIM_iDRACCardService. SetAttribute(); DCIM_iDRACCardService. SetAttributes(); DCIM_iDRACCardService. ApplyAttributes()	Users.IpmiLanPrivilege	INVOKE	Login, System Control, Configure Users	LM_REMOTE_CONFIGURATION
DCIM_iDRACCardService. SetAttribute(); DCIM_iDRACCardService. SetAttributes(); DCIM_iDRACCardService. ApplyAttributes()	Users.IpmiSerialPrivilege	INVOKE	Login, System Control, Configure Users	LM_REMOTE_CONFIGURATION
DCIM_iDRACCardService. SetAttribute(); DCIM_iDRACCardService. SetAttributes(); DCIM_iDRACCardService. ApplyAttributes()	Users.Enable	INVOKE	Login, System Control, Configure Users	LM_REMOTE_CONFIGURATION
DCIM_iDRACCardService. SetAttribute(); DCIM_iDRACCardService. SetAttributes(); DCIM_iDRACCardService. ApplyAttributes()	Users.SolEnable	INVOKE	Login, System Control, 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, System Control, Configure Users	LM_REMOTE_CONFIGURATION
DCIM_iDRACCardService. SetAttribute(); DCIM_iDRACCardService. SetAttributes(); DCIM_iDRACCardService. ApplyAttributes()	RemoteHosts.SMTP Port	INVOKE	Login, System Control, Configure	LM_EMAIL_ALERTING
DCIM_iDRACCardService. CreateTargetedConfigJob()		INVOKE	Login, System Control	LM_REMOTE_CONFIGURATION
DCIM_iDRACCardService. DeletePendingConfiguration()		INVOKE	Login, System Control	LM_REMOTE_CONFIGURATION
DCIM_iDRACCardService. SendTestEmailAlert()		INVOKE	Login, System Operations	LM_REMOTE_CONFIGURATION & LM_EMAIL_ALERTING
DCIM_iDRACCardService. SendTestSNMPTrap()		INVOKE	Login, System Operations	LM_REMOTE_CONFIGURATION & LM_SNMP
DCIM_LCElementConformsToProfile		ENUMERATE, GET	Login	None.
DCIM_LCRegisteredProfile		ENUMERATE, GET	Login	None.
DCIM_iDRACCardEnumeration		ENUMERATE, GET	Login	None, unless shown below
DCIM_iDRACCardInteger		ENUMERATE, GET	Login	None, unless shown below
DCIM_iDRACCardString		ENUMERATE, GET	Login	None, unless shown below
DCIM_iDRACCardEnumeration	NIC.DNSRegister	ENUMERATE, GET	Login	LM_DYNAMIC_DNS
DCIM_iDRACCardString	NIC.DNSRacName	ENUMERATE, GET	Login	LM_DYNAMIC_DNS
DCIM_iDRACCardEnumeration	NIC.AutoDetect	ENUMERATION, GET	Login	LM_DEDICATED_NIC
DCIM_iDRACCardService. SetAttribute(); DCIM_iDRACCardService. SetAttributes(); DCIM_iDRACCardService. ApplyAttributes()	NIC.DHCPConfiguration	INVOKE	Login, System Control, Configure	LM_DHCP_CONFIGURE
DCIM_iDRACCardString	NIC. DedicatedNICScanTime	ENUMERATION, GET	Login	LM_DEDICATED_NIC

Class and Method	Instance (GroupID.Attribute Name)	Operation	Required User Privilege	Required License
DCIM_iDRACCardString	NIC.SharedNICScanTime	ENUMERATION,GET	Login	LM_DEDICATED_NIC
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 E	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
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

Class and Method	Instance (GroupID.Attribute Name)	Operation	Required User Privilege	Required License
DCIM_iDRACCardString	IPv6.Address15	ENUMERATE, GET	Login	LM_IPV6
DCIM_iDRACCardString	IPv6.Address16	ENUMERATE, GET	Login	LM_IPV6
DCIM_iDRACCardString	IPv6Static.Address1	ENUMERATE, GET	Login	LM_IPV6
DCIM_iDRACCardString	IPv6Static.Gateway	ENUMERATE, GET	Login	LM_IPV6
DCIM_iDRACCardString	IPv6Static.DNS1	ENUMERATE, GET	Login	LM_IPV6
DCIM_iDRACCardString	IPv6Static.DNS2	ENUMERATE, GET	Login	LM_IPV6
DCIM_iDRACCardInteger	IPv6Static.Prefix	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_iDRACCardEnumeration	SNMP.TrapFormat	ENUMERATE, GET	Login	LM_SNMP
DCIM_iDRACCardString	SNMP.AgentCommunity	ENUMERATE, GET	Login	LM_SNMP
DCIM_iDRACCardService. SetAttribute(); DCIM_iDRACCardService. SetAttributes(); DCIM_iDRACCardService. ApplyAttributes()	SNMP.AlertPort	INVOKE	Login, System Control, Configure	LM_SNMP
DCIM_iDRACCardService. SetAttribute(); DCIM_iDRACCardService. SetAttributes(); DCIM_iDRACCardService. ApplyAttributes()	SNMP.DiscoveryPort	INVOKE	Login, System Control, Configure	LM_SNMP
DCIM_iDRACCardEnumeration	IPBlocking.RangeEnable	ENUMERATE, GET	Login	LM_SECURITY_LOCKOUT
DCIM_iDRACCardString	IPBlocking.RangeAddr	ENUMERATE, GET	Login	LM_SECURITY_LOCKOUT

Class and Method	Instance (GroupID.Attribute Name)	Operation	Required User Privilege	Required License
DCIM_iDRACCardString	IPBlocking.RangeMask	ENUMERATE, GET	Login	LM_SECURITY_LOCKOUT
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	Users.AuthenticationProtocol	ENUMERATE, GET	Login	LM_REMOTE_CONFIGURATION
DCIM_iDRACCardEnumeration	Users.ProtocolEnable	ENUMERATE, GET	Login	LM_REMOTE_CONFIGURATION
DCIM_iDRACCardEnumeration	Users.PrivacyProtocol	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

Class and Method	Instance (GroupID.Attribute Name)	Operation	Required User Privilege	Required License
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
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.GroupAttributesDN	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



Class and Method	Instance (GroupID.Attribute Name)	Operation	Required User Privilege	Required License
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, GET	Login	LM_DIRECTORY_SERVICES
DCIM_iDRACCardEnumeration	SmartCard.SmartCardLogonEnable	ENUMERATE, GET	Login	LM_TWO_FACTOR_AUTHEN
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_iDRACCardEnumeration	VirtualConsole.AttachState	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
DCIM_iDRACCardService. SetAttribute(); DCIM_iDRACCardService. SetAttributes(); DCIM_iDRACCardService. ApplyAttributes()	VirtualConsole.AttachState	INVOKE	Login, System Control, Configure	LM_VCONSOLE
DCIM_iDRACCardInteger	VNCServer.Port	ENUMERATE, GET	Login	LM_VCONSOLE
DCIM_iDRACCardInteger	VNCServer.Timeout	ENUMERATE, GET	Login	LM_VCONSOLE
DCIM_iDRACCardString	VNCServer.Password	ENUMERATE, GET	Login	LM_VCONSOLE
DCIM_iDRACCardEnumeration	VNCServer.Enable	ENUMERATE, GET	Login	LM_VCONSOLE

Class and Method	Instance (GroupID.Attribute Name)	Operation	Required User Privilege	Required License
DCIM_iDRACCardEnumeration	VNCServer. LowerEncryptionBitLength	ENUMERATE, GET	Login	LM_VCONSOLE
DCIM_iDRACCardEnumeration	VNCServer. SSLEncryptionBitLength	ENUMERATE, GET	Login	LM_VCONSOLE
DCIM_iDRACCardEnumeration	WebServer. SSLEncryptionBitLength	ENUMERATE, GET	Login	LM_VCONSOLE
DCIM_iDRACCardService. SetAttribute(); DCIM_iDRACCardService. SetAttributes(); DCIM_iDRACCardService. ApplyAttributes()	VNCServer. Port	INVOKE	Login, System Control, Configure	LM_VCONSOLE
DCIM_iDRACCardService. SetAttribute(); DCIM_iDRACCardService. SetAttributes(); DCIM_iDRACCardService. ApplyAttributes()	VNCServer. Timeout	INVOKE	Login, System Control, Configure	LM_VCONSOLE
DCIM_iDRACCardService. SetAttribute(); DCIM_iDRACCardService. SetAttributes(); DCIM_iDRACCardService. ApplyAttributes()	VNCServer. Password	INVOKE	Login, System Control, Configure	LM_VCONSOLE
DCIM_iDRACCardService. SetAttribute(); DCIM_iDRACCardService. SetAttributes(); DCIM_iDRACCardService. ApplyAttributes()	VNCServer.Enable	INVOKE	Login, System Control, Configure	LM_VCONSOLE
DCIM_iDRACCardService. SetAttribute(); DCIM_iDRACCardService. SetAttributes(); DCIM_iDRACCardService. ApplyAttributes()	VNCServer. LowerEncryptionBitLength	INVOKE	Login, System Control, Configure	LM_VCONSOLE
DCIM_iDRACCardService. SetAttribute(); DCIM_iDRACCardService. SetAttributes(); DCIM_iDRACCardService. ApplyAttributes()	VNCServer. LowerEncryptionBitLength	INVOKE	Login, System Control, Configure	LM_VCONSOLE
DCIM_iDRACCardService. SetAttribute(); DCIM_iDRACCardService. SetAttributes(); DCIM_iDRACCardService. ApplyAttributes()	WebServer. LowerEncryptionBitLength	INVOKE	Login, System Control, Configure	LM_VCONSOLE

Class and Method	Instance (GroupID.Attribute Name)	Operation	Required User Privilege	Required License
DCIM_iDRACCardEnumeration	USB.1#ManagementPortMode	ENUMERATE, GET	Login, System Control, Configure	None
DCIM_iDRACCardEnumeration	USB.1#USBConfiguration	ENUMERATE, GET	Login, System Control, Configure	None
DCIM_iDRACCardService.GenerateSSLCSR(), DCIM_iDRACCardService.ImportSSLCertificate(), DCIM_iDRACCardService.ExportSSLCertificate(),  DCIM_iDRACCardService.SSLResetCfg(),		INVOKE	Login, Configure	LM_REMOTE_CONFIGURATION
DCIM_iDRACCardService.iDRACReset(), DCIM_iDRACCardService.iDRACResetCfg()		INVOKE	Login, Configure	None
DCIM_iDRACCardService.SetAttribute(); DCIM_iDRACCardService.SetAttributes(); DCIM_iDRACCardService.ApplyAttributes()	Update.EnableSharedCompUpdate	INVOKE	Login, System Control	LM_REMOTE_CONFIGURATION

1554 **ANNEX A**  
1555 (Informative)

1556 **Privilege Information**  
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1558 The following annex describes the mapping for iDRAC privileges. The integer value returned for the  
1559 privilege represents a bit mask, where each bit represents a specific privilege. If a particular bit is set, then  
1560 the corresponding privilege exists. Table represents the bitmask mapping to the iDRAC privileges.

1561 **Table 107 – 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

1562 For example, a privilege value equal to decimal 91 can be arithmetically decoded into the appropriate  
1563 privileges:

- 1564 •  $91 \text{ mod } 2 = 1$ , then Login privilege exists.
- 1565 •  $91 \text{ div } 2 = 45$ ,  $45 \text{ mod } 2 = 1$ , then Configure privilege exists .
- 1566 •  $45 \text{ div } 2 = 22$ ,  $22 \text{ mod } 2 = 0$ , then Configure Users privilege does not exist.
- 1567 •  $22 \text{ div } 2 = 11$ ,  $11 \text{ mod } 2 = 1$ , then Logs privilege exists.
- 1568 •  $11 \text{ div } 2 = 5$ ,  $5 \text{ mod } 2 = 1$ , then System Control privilege exists.
- 1569 •  $5 \text{ div } 2 = 2$ ,  $2 \text{ mod } 2 = 0$ , then Access Virtual Console privilege does not exist.
- 1570 •  $2 \text{ div } 2 = 1$ ,  $1 \text{ mod } 2 = 1$ , then Access Virtual Media privilege exists.

1571 The same privilege value of decimal 91 can be decoded through binary operations:

- 1572 •  $91 \text{ and } 1 = 1$ , then Login privilege exists.
- 1573 •  $91 \text{ and } 2 = 2$ , then Configure privilege exists.
- 1574 •  $91 \text{ and } 4 = 0$ , then Configure Users privilege does not exist.
- 1575 •  $91 \text{ and } 8 = 8$ , then Logs privilege exists.
- 1576 •  $91 \text{ and } 16 = 16$ , then System Control privilege exists.
- 1577 •  $91 \text{ and } 32 = 0$ , then Access Virtual Console privilege does not exist.
- 1578 •  $91 \text{ and } 64 = 64$ , then Access Virtual Media privilege exists.

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## ANNEX B (informative)

### Change Log

Version	Date	Description
1.3.0		Added IPv4 Static Information and IPv6 Static Information attribute groups. Added Default Credential Mitigation Configuration attribute group. Added LC062 error message to the SetAttribute(), SetAttributes(), CreateTargetedConfigJob(), DeletePendingConfiguration(), and ApplyAttributes() methods. Replaced SNMP Trap IPv4 and SNMP Trap IPv6 with generic SNMP Trap Destination attribute group that takes both IPv4 and IPv6 addresses as well as FQDNs.
1.3.0	6/25/2012	Corrected "Default Credential Mitigation Configuration".
1.4.0	12/09/2013	Added USB Device attributes in the DCIM_iDRACCardEnumeration
1.4.1	7/14/2014	Added DCIM_iDRACCardString attributes for Password Hash Added DCIM_IDRACEnumeration attribute EnableSharedCompUpdate
1.5.0	7/15/2014	iDRAC Certificate methods
1.5.0	22/12/2014	CsrKeySize. 1024 is kept for backward compability on 12G systems
1.5.0	23/12/2014	Added relavant details for attribute SSLEncryptionBitLength under WebServer and VNCServer groups

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