

iDRAC Card Profile

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iDRAC Card Profile

1 Scope

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

2 Normative References

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

DMTF DSP1033, *Profile Registration Profile 1.0.0*

DMTF DSP0226, *Web Services for Management (WS-Management) Specification 1.1.0*

DMTF DSP0227, *WS-Management CIM Binding Specification 1.0.0*

3 Terms and Definitions

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

3.1

conditional

indicates requirements to be followed strictly in order to conform to the document when the specified conditions are met

3.2

mandatory

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

3.3

may

indicates a course of action permissible within the limits of the document

3.4

optional

indicates a course of action permissible within the limits of the document

3.5

referencing profile

indicates a profile that owns the definition of this class and can include a reference to this profile in its "Related Profiles" table

3.6

shall

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

3.7

FQDD

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

3.8

Interop Namespace

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

3.9

Implementation Namespace

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

3.10

ENUMERATE

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

3.11

GET

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

4 Symbols and Abbreviated Terms

4.1

CIM

Common Information Model

4.2

iDRAC

Integrated Dell Remote Access Controller – management controller for blades and monolithic servers

4.3

CMC

Chassis Manager Controller – management controller for the modular chassis

4.4

WBEM

Web-Based Enterprise Management

5 Synopsis

Profile Name: iDRAC Card

Version: 1.1.0

Organization: Dell

CIM Schema Version: 2.21.0 Experimental

Dell Schema Version: 1.0.0

Interop Namespace: root/interop

Implementation Namespace: root/dcim

Central Class: DCIM_iDRACCardView

Scoping Class: DCIM_ComputerSystem

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

DCIM_iDRACCardView shall be the Central Class.

Table 1 identifies profiles that are related to this profile.

Table 1 – Related Profiles

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

6 Description

The Dell iDRAC Card Profile describes the platform's iDrac remote access card. Each remote access card's information is represented by an instance of `DCIM_IDRACCardView` class.

Figure 1 details typical Dell iDRAC Card Profile implementation for a platform with iDrac remote access card. In order for client to discover the instrumentation's support of this profile, `iDracProfile` is instantiated in the Interop Namespace. `iDracProfile` instance describes the information about the implemented profile: most importantly, the name and version of the profile and the organization name that produced the profile.

`iDrac1` is the iDrac view representing the remote access card in the Implementation Namespace. It is associated to the Interop namespace's `iDracProfile` instance.

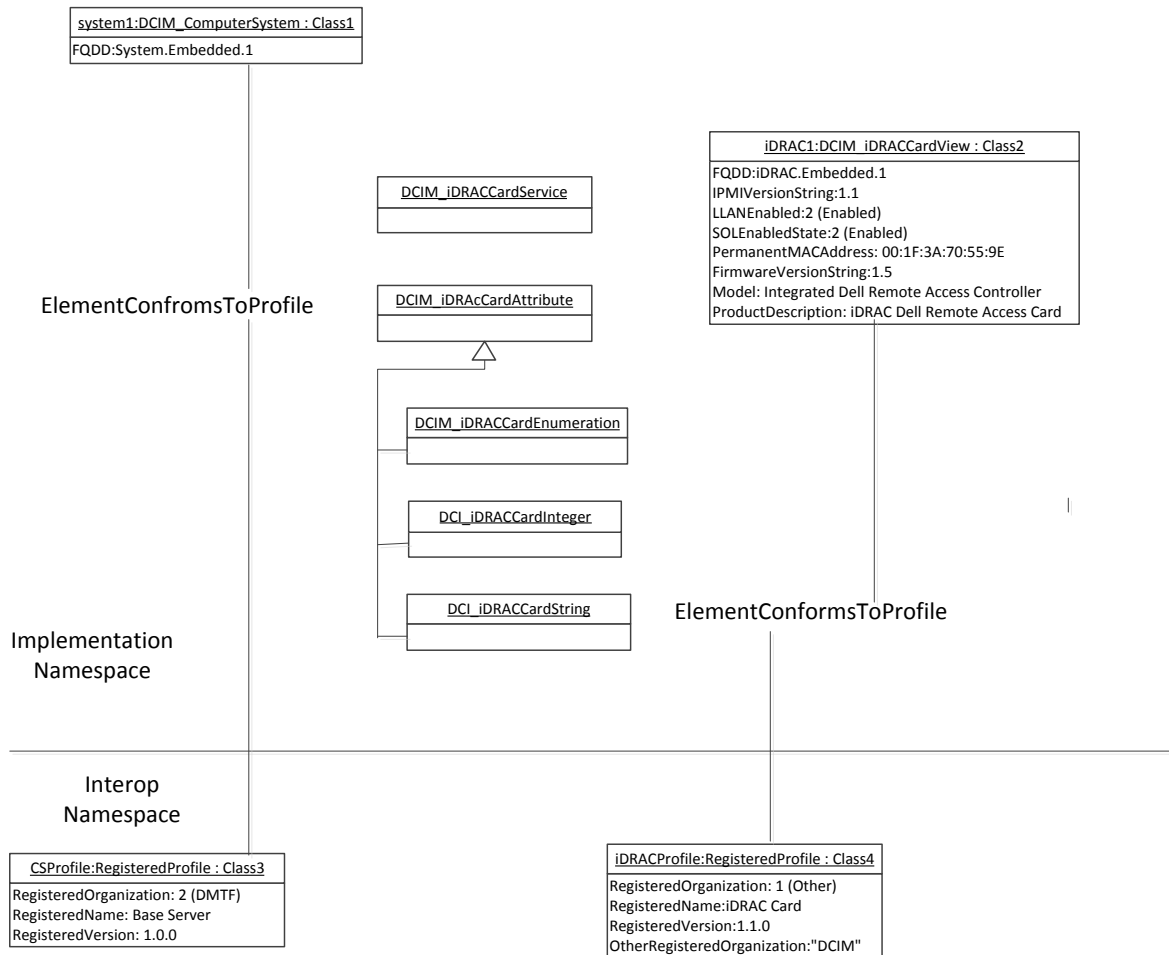


Figure 1 – iDRAC Card Profile Implementation

7 Implementation Description

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

Table 2 – Class Requirements: iDRAC Card Profile

Element Name	Requirement	Description
Classes		
DCIM_IDRACCardView	Mandatory	The class shall be implemented in the Implementation Namespace. See section 7.1.
DCIM_iDRACCardAttribute	Mandatory	The class shall be implemented in the Implementation Namespace. See section 7.2.
DCIM_iDRACCardInteger	Mandatory	The class shall be implemented in the Implementation Namespace. See section 7.3.
DCIM_iDRACCardService	Mandatory	The class shall be implemented in the Implementation Namespace. See section 7.4.
DCIM_iDRACCardEnumeration	Mandatory	The class shall be implemented in the Implementation Namespace. See section 7.5.
DCIM_iDRACCardString	Mandatory	The class shall be implemented in the Implementation Namespace. See section 7.6.
DCIM_LCElementConformsToProfile	Mandatory	The class shall be implemented in the <i>Implementation Namespace</i> .
DCIM_LCElementConformsToProfile	Mandatory	The class shall be implemented in the <i>Interop Namespace</i> .
DCIM_LCRegisteredProfile	Mandatory	The class shall be implemented in the Interop Namespace. See section 7.7.
Indications		
None defined in this profile		

7.1 iDrac View

This section describes the implementation for the DCIM_IDRACCardView class.

This class shall be instantiated in the Implementation Namespace.

The DCIM_LCElementConformsToProfile association(s) shall reference the DCIM_IDRACCardView instance(s).

7.1.1 WBEM URIs for WinRM®

The class WBEM URI shall be “http://schemas.dell.com/wbem/wscim/1/cim-schema/2/DCIM_IDRACCardView?__cimnamespace=<Implementation Namespace>”

The key property shall be the InstanceID.

The instance Wbem URI for DCIM_IDRACCardView instance shall be:
 "http://schemas.dell.com/wbem/wscim/1/cim-
 schema/2/DCIM_IDRACCardView?__cimnamespace=<Implementation
 Namespace>+InstanceID=<FQDD>"

7.1.2 Operations

The following table details the implemented operations on DCIM_IDRACCardView.

Table 3 – DCIM_IDRACCardView - Operations

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

7.1.3 Properties

The following table details the implemented properties for DCIM_IDRACCardView instance representing a remote access card in a system. The "Requirements" column shall denote the implementation requirement for the corresponding property. If the column "Property Name" matches the property name, the property either shall have the value denoted in the corresponding column "Additional Requirement", or shall be implemented according to the requirements in the corresponding column "Additional Requirement".

Table 4 – DCIM_IDRACCardView - Properties

Property Name	Requirements	Type	Requirement and description
InstanceID	Mandatory	string	The property value shall be the FQDD property value
FQDD	Mandatory	string	A string containing the Fully Qualified Device Description a user-friendly name for the object.
IPMIVersion	Mandatory	string	A string containing the IPMI Version.
GUID	Mandatory	string	A string containing the GUID for iDRAC.
LANEnabledState	Mandatory	uint16	LAN enabled state.
SOLEnabledState	Mandatory	uint16	SOL enabled state
PermanentMACAddress	Mandatory	string	A string containing 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.
VirtualMACAddress	Mandatory	string	A string containing the virtual MAC address.
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

7.2 iDRAC Card Attribute

This section describes the implementation for the DCIM_iDRACCardAttribute class. DCIM_iDRACCardAttribute is a parent class for DCIM_iDRACCardInteger, DCIM_iDRACCardString and DCIM_iDRACCardEnumeration. Enumeration of DCIM_iDRACCardAttribute internally does polymorphic enumeration and returns instances of DCIM_iDRACCardInteger, DCIM_iDRACCardString and DCIM_iDRACCardEnumeration.

7.2.1 . WBEM URIs for WinRM®

The class WBEM URI shall be “http://schemas.dell.com/wbem/wscim/1/cim-schema/2/DCIM_iDRACCardAttribute?__cimnamespace=<Implementation Namespace>”

The key property shall be the InstanceID.

The instance WBEM URI for DCIM_iDRACCardAttribute instance shall be:

“http://schemas.dell.com/wbem/wscim/1/cim-schema/2/DCIM_iDRACCardAttribute?__cimnamespace=<Implementation Namespace>+InstanceID=<FQDD>”

7.2.2 Operations

The following table details the implemented operations on DCIM_iDRACCardAttribute.

Table 5 – DCIM_iDRACCardAttribute - Operations

Operation Name	Requirements	Required Input
Enumerate	Mandatory	Class URI

7.2.3 Properties

The following table details the implemented properties for DCIM_iDRACCardAttribute instance representing the attributes of a remote access card in a system. The “Requirements” column shall denote the implementation requirement for the corresponding property. If the column “Property Name” matches the property name, the property either shall have the value denoted in the corresponding column “Additional Requirement”, or shall be implemented according to the requirements in the corresponding column “Additional Requirement”.

Table 6 – DCIM_iDRACCardAttribute - Properties

Property Name	Requirements	Type	Requirement and description
InstanceID	Mandatory	string	The property value shall be the FQDD property value
FQDD	Mandatory	string	This element shall specify the unique identifier for an instance of this class within the Implementation namespace.
AttributeName	Mandatory	string	The name of the attribute
AttributeDisplayName	Mandatory	string	The description of AttributeName

CurrentValue	Mandatory		Current value of this attribute
DefaultValue	Mandatory		Contains the default value for this attribute
IsReadOnly	Mandatory		True if current value cannot be changed
GroupID	Mandatory	string	The ID of the group the attribute belongs to
GroupDisplayName	Mandatory	string	The description of group the attribute belongs to
DisplayOrder	Mandatory		DisplayOrder
Dependency	Mandatory		Dependency

7.3 iDRAC Card Integer

This section describes the implementation for the DCIM_iDRACCardInteger class.

7.3.1 WBEM URIs for WinRM®

The class WBEM URI shall be “http://schemas.dell.com/wbem/wscim/1/cim-schema/2/DCIM_iDRACCardInteger?__cimnamespace=<Implementation Namespace>”

The key property shall be the InstanceID.

The instance WBEM URI for DCIM_iDRACCardInteger instance shall be:
“http://schemas.dell.com/wbem/wscim/1/cim-schema/2/DCIM_iDRACCardInteger?__cimnamespace=<Implementation Namespace>+InstanceID=<FQDD>”

7.3.2 Operations

The following table details the implemented operations on DCIM_iDRACCardInteger.

Table 7 – DCIM_iDRACCardInteger - Operations

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

7.3.3 Properties

The following table details the implemented properties for DCIM_iDRACCardInteger instance representing the integer type attributes of a remote access card in a system. The “Requirements” column shall denote the implementation requirement for the corresponding property. If the column “Property Name” matches the property name, the property either shall have the value denoted in the corresponding column “Additional Requirement”, or shall be implemented according to the requirements in the corresponding column “Additional Requirement”.

Table 8 – DCIM_iDRACCardInteger - Properties

Property Name	Requirements	Type	Requirement and description
---------------	--------------	------	-----------------------------

Inherited from DCIM_iDRACCardAttribute	Mandatory		Keys and mandatory properties inherited from DCIM_iDRACCardAttribute
LowerBound	Mandatory	Integer	This defines a Lower bound or limit when modifying this Attribute
UpperBound	Mandatory	Integer	This defines an Upper bound or limit when modifying this Attribute

The following table describes possible DCIM_NICInteger attributes and the requirements for the AttributeName, IsReadOnly, LowerBound, and UpperBound properties.

The AttributeValue shall be read-only if IsReadOnly property value from the corresponding row in the below table contains "TRUE".

The AttributeValue shall be equal or lower than the UpperBound property value from the corresponding row.

The AttributeValue shall be equal or higher than the LowerBound property value from the corresponding row.

Table 9 – DCIM_iDRACCardInteger - Attributes

AttributeName	Description	IsReadOnly	LowerBound	UpperBound
VLANPriority	VLAN Priority	false	0	7
VLANID	VLAN ID	false	1	4094
Privilege	User Admin Privilege	false	0	511

7.4 iDRAC CardService

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

7.4.1 WBEM URIs for WinRM®

The class WBEM URI shall be "http://schemas.dell.com/wbem/wscim/1/cim-schema/2/DCIM_iDRACCardService?__cimnamespace=<Implementation Namespace>"

The key property shall be the InstanceID.

The instance WBEM URI for DCIM_iDRACCardService instance shall be:
 "http://schemas.dell.com/wbem/wscim/1/cim-schema/2/DCIM_iDRACCardService?__cimnamespace=<Implementation Namespace>+InstanceID=<FQDD>"

7.4.2 Operations

The following table details the implemented operations on DCIM_IDRACCardService.

Table 10 – DCIM_IDRACCardService - Operations

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

7.4.3 Properties

The following table details the implemented properties for DCIM_iDRACCardService instance representing the integer type attributes of a remote access card in a system. The “Requirements” column shall denote the implementation requirement for the corresponding property. If the column “Property Name” matches the property name, the property either shall have the value denoted in the corresponding column “Additional Requirement”, or shall be implemented according to the requirements in the corresponding column “Additional Requirement”.

Table 11 – DCIM_IDRACCardService - Properties

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

7.5 iDRAC CardEnumeration

This section describes the implementation for the DCIM_iDRACCardEnumeration class.

7.5.1 WBEM URIs for WinRM®

The class WBEM URI shall be “http://schemas.dell.com/wbem/wscim/1/cim-schema/2/DCIM_iDRACCardEnumeration?__cimnamespace=<Implementation Namespace>”

The key property shall be the InstanceID.

The instance WBEM URI for DCIM_iDRACCardEnumeration instance shall be:
“http://schemas.dell.com/wbem/wscim/1/cim-schema/2/DCIM_iDRACCardEnumeration?__cimnamespace=<Implementation Namespace>+InstanceID=<FQDD>”

7.5.2 Operations

The following table details the implemented operations on DCIM_IDRACCardEnumeration.

Table 12 – DCIM_IDRACCardEnumeration - Operations

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

7.5.3 Properties

The following table details the implemented properties for DCIM_IDRACCardEnumeration instance representing the integer type attributes of a remote access card in a system. The “Requirements” column shall denote the implementation requirement for the corresponding property. If the column “Property Name” matches the property name, the property either shall have the value denoted in the corresponding column “Additional Requirement”, or shall be implemented according to the requirements in the corresponding column “Additional Requirement”.

Table 13 – Class: DCIM_IDRACCardEnumeration - Properties

Property Name	Requirements	Type	Requirement and description
Inherited from DCIM_IDRACCardAttribute	Mandatory		Keys and mandatory properties inherited from DCIM_IDRACCardAttribute
PossibleValues[]	Mandatory		The property value shall be equal to the array of the ” PossibleValues” column at the corresponding row in Table

The following table describes the requirements for the AttributeName, and PossibleValues properties. The PossibleValues is an array property represented in the table as a comma delimited list.

Table 14 – DCIM_IDRACCardEnumeration Attributes

AttributeName	Description	PossibleValues
Enable	Nic Enable	Disabled, Enabled
Selection	Nic Selection	Shared, SharedLom2Failover, Dedicated, SharedAllFailover
Speed	Nic Speed	10, 100
Autoneg	Nic Auto Negotiation	Disabled, Enabled
Duplex	Nic Duplex	Half, Full
DNSRegister	DNS Register RAC	Disabled, Enabled
DNSDomainNameFromDHCP	DNS Domain Name from DHCP	Disabled, Enabled

VlanEnable	Vlan Enable	Disabled, Enabled
Attached	Virtual Media Attached	Detached, Attached, Autoattach
Enable	IPv4 Enable	Disabled, Enabled
DHCPEnable	DHCP Enable	Disabled, Enabled
DNSFromDHCP	DNS From DHCP	Disabled, Enabled
IpmiLanPrivilege	User Admin IPMI LAN Privilege	User, Operator, Administrator, NoAccess
IpmiSerialPrivilege	User Admin IPMI Serial Privilege	User, Operator, Administrator, NoAccess
Enable	User Admin Enable	Disabled, Enabled

7.6 iDRAC CardString

This section describes the implementation for the DCIM_iDRACCardString class.

7.6.1 WBEM URIs for WinRM®

The class WBEM URI shall be “http://schemas.dell.com/wbem/wscim/1/cim-schema/2/DCIM_iDRACCardString?__cimnamespace=<Implementation Namespace>”

The key property shall be the InstanceID.

The instance WBEM URI for DCIM_iDRACCardString instance shall be:
“http://schemas.dell.com/wbem/wscim/1/cim-schema/2/DCIM_iDRACCardEnumeration?__cimnamespace=<Implementation Namespace>+InstanceID=<FQDD>”

7.6.2 Operations

The following table details the implemented operations on DCIM_iDRACCardString.

Table 15 – DCIM_iDRACCardString - Operations

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

7.6.3 Properties

The following table details the implemented properties for DCIM_iDRACCardString instance representing the integer type attributes of a remote access card in a system. The “Requirements” column shall denote the implementation requirement for the corresponding property. If the column “Property Name” matches the property name, the property either shall have the value denoted in the corresponding column

“Additional Requirement”, or shall be implemented according to the requirements in the corresponding column “Additional Requirement”.

Table 16 – DCIM_IDRACCardString - Properties

Property Name	Requirements	Type	Requirement and description
Inherited from DCIM_IDRACCardAttribute	Mandatory		Keys and mandatory properties inherited from DCIM_IDRACCardAttribute
MinLength	Mandatory	integer	This property specifies the minimum string length
MaxLength	Mandatory	integer	This property specifies the maximum string length

The following table describes possible DCIM_NICString attributes and the requirements for the AttributeName, MinLength, and MaxLength properties.

The AttributeValue shall be read-only if IsReadOnly property value from the corresponding row in the below table contains “TRUE”.

The AttributeValue string shall have equal or lower number of characters than the MaxLength property value from the corresponding row.

The AttributeValue string shall have equal or higher number of characters than the MinLength property value from the corresponding row.

The AttributeValue shall conform to the ValueExpression form from the corresponding row.

Table 17 – DCIM_IDRACCardString - Attributes

AttributeName	Description	IsReadOnly	MinLength	MaxLength	Value Expression
DNSRacName	DNS RAC Name	false	1	63	string
DNSDomainName	DNS Domain Name	false	1	254	string
Address	IP Address	false	1	16	IP Address
Netmask	Netmask	false	1	16	IP Address
Gateway	Gateway	false	1	16	IP Address
DNS1	DNS Server 1	false	1	16	IP Address
DNS2	DNS Server 2	false	1	16	IP Address
UserName	User Admin User Name	false	1	16	string
Password	User Admin Password	false	1	20	string

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7.7 iDRAC Card Profile Profile Registration

This section describes the implementation for the DCIM_LCRegisteredProfile class.

This class shall be instantiated in the Interop Namespace.

The DCIM_ElementConformsToProfile association(s) shall reference the DCIM_LCRegisteredProfile instance.

7.7.1 WBEM URIs for WinRM®

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

The key property shall be the InstanceID property.

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

7.7.2 Operations

The following table details the implemented operations on DCIM_LCRegisteredProfile.

Table 18 – DCIM_LCRegisteredProfile - Operations

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

7.7.3 Properties

The following table details the implemented properties for DCIM_LCRegisteredProfile instance representing iDRAC Card Profile implementation. The "Requirements" column shall denote the implementation requirement for the corresponding property. If the column "Name" matches the property name, the property either shall have the value denoted in the corresponding column "Additional Requirements", or shall be implemented according to the requirements in the corresponding column "Additional Requirements".

Table 19 – DCIM_LCRegisteredProfile - Properties

Property Name	Requirement	Additional Requirements
InstanceID	Mandatory	DCIM:iDRACCard:1.0.0
RegisteredName	Mandatory	This property shall have a value of "iDRAC Card".
RegisteredVersion	Mandatory	This property shall have a value of "1.1.0".
RegisteredOrganization	Mandatory	This property shall have a value of 1 (Other).
OtherRegisteredOrganization	Mandatory	The property value shall match "DCIM".

8 Methods

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

8.1 DCIM_iDRACCardService.ApplyAttributes()

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

Table 20 – ApplyAttributes() Method: Return Code Values

Value	Description
0	Completed with no error
1	Not Supported
2	Error
4096	Job Created

Implementation of standard messages is optional. Standard messages defined for this method are described in the Message Registry.

SetAttributes() Method: Standard Messages

See Message Registry

Table 21 – ApplyAttributes() Method: Parameters

Qualifiers	Name	Type	Description/Values
IN, REQ	Target	REF	Shall reference the CIM_Element instance in which the operation is targeted
IN, REQ	AttributeName[]	Array of strings	Shall contain the attribute names representing the attributes to be modified, as specified by Attribute.AttributeName properties. The specified attributes must already exist. The values of Attribute.AttributeName supplied for this parameter shall be unique within the scope of the instantiating Namespace. The attribute name members of this array must correspond with array members of the values represented by the AttributeValue parameter. If more than one value is specified for a particular attribute, this parameter shall contain multiple identical array entries describing the attribute name that corresponds with each respective attribute value specified by the AttributeValue parameter.

Qualifiers	Name	Type	Description/Values
IN, REQ	AttributeValue[]	Array of strings	Shall contain new values to assign to the attributes specified in the AttributeName parameter. The attribute value members of this array must correspond with the array members of the names represented by the AttributeName parameter. If more than one value is specified for a particular attribute, this parameter shall contain an entry for each attribute value
OUT	Job	CIM_Concrete Job REF	Returned to keep track of concrete job status
OUT	MessageID[]	string array	Error Message ID returned for each failed attribute -can be used to index into Dell message registry files
OUT	Message[]	strings srray	Error Message in English corresponding to MessageID is returned if an attribute set fails

9 Use Cases

This section contains use cases for the Dell iDRACCard Profile. For the general instance and class URI structure, see [Section 7](#) under WBEM URIs for WinRM® sections.

Note that URIs in this section are in form of WBEM URIs for WinRM®.

9.1 Discovery of iDRACCard profile support

Use the procedure below to confirm the existence of iDRACCard profile support

- A) `ENUMERATE` the *CIM_RegisteredProfile* class. See Section 3.10 for a definition of `ENUMERATE`.

Class URL:

http://schemas.dmtf.org/wbem/wscim/1/cim-schema/2/CIM_RegisteredProfile?_cimnamespace=root/interop

Then query the result for the following properties:

RegisteredName = IDRAC Card, OtherRegisteredOrganization = DCIM, RegisteredVersion = 1.1.0

9.2 Inventory of iDRACCards in system

Enumerate the *DCIM_IDRACCardView* class to view all available instances of the class

Class URL:

http://schemas.dell.com/wbem/wscim/1/cim-schema/2/DCIM_IDRACCardView?_cimnamespace=root/dcim

The instance information of all available iDRAC cards will be returned

9.3 Get the first iDRACCard's information

The URL for getting particular instance information is deterministic (i.e the *InstanceID* will be unique for each instance)

For the first iDRAC card in the system, the instance URL will be:

http://schemas.dell.com/wbem/wscim/1/cim-schema/2/DCIM_IDRACCardView?__cimnamespace=root/dcim+InstanceID=iDRAC.Embedded.1

The instance of *DCIM_IDRACCardView* that contains the information on the first iDRAC card will be returned

9.4 List all iDRAC Card Attributes

ENUMERATE the *DCIM_iDRACCardAttribute* class to view all available attributes and possible values of all iDRACCard's Class URI:

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

9.5 Setting iDRACCard attributes

A) ENUMERATE the *DCIM_iDRACCardAttribute* class as shown in section 9.2 and identify the applicable instance

B) Confirm the *IsReadOnly* field is set to false

C) To invoke the *ApplyAttributes()* method, extract the instance information from A) and construct the input parameters per Table 19 or Table 21 – *ApplyAttributes()* Method: Parameters

D) INVOKE the *ApplyAttributes()* method

Class URI:

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

E) Examine output parameters per Table 21 to ensure a Job is created.

F) Use the Job id from step E to Enumerate the *LifeCycleJob* to see the status of the job

G) When the Job status shows complete Repeat A) to confirm successful setting of the attribute

10 CIM Elements

No additional details specified.

ANNEX A

(informative)

Related MOF Files

Dell Tech Center MOF Library:

<http://www.delltechcenter.com/page/DCIM.Library.MOF>

Related Managed Object Format (MOF) files:

DCIM_IDRACCardView.mof

DCIM_iDRACCardAttribute.mof

DCIM_iDRACCardInteger.mof

DCIM_iDRACCardService.mof

DCIM_iDRACCardEnumeration.mof

DCIM_iDRACCardString.mof

DCIM_LCEnumeration.mof

DCIM_LCRegisteredProfile.mof