Power Supply Profile

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Power Supply Profile

1 Scope

The DCIM Power Supply Profile describes the properties and interfaces for executing system management tasks related to the management of power supplies within a system. The profile standardizes and aggregates the description for the power supply properties into a power supply view representation and provides static methodology for the clients to query the power supply views without substantial traversal of the model. Alternatively, the profile describes the CIM interface based on the DMTF Power Supply Profile.

2 Normative References

Refer to the following documents for more information.

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

- DMTF DSP1033, *Profile Registration Profile 1.0.0*
- DMTF DSP1015, *Power Supply Profile 1.1.0*
- DMTF DSP0226, *Web Services for Management (WS-Management) Specification 1.1.0*
- DMTF DSP0227, *WS-Management CIM Binding Specification 1.0.0*
- *Intelligent Platform Management Interface (IPMI) Specification 1.5*
- *Dell Lifecycle Controller Best Practices Guide 1.0,*
  http://en.community.dell.com/techcenter/extras/m/white_papers/20066173.aspx
- *Dell WSMAN Licenses and Privileges 1.0*
- Dell Tech Center MOF Library: http://www.delltechcenter.com/page/DCIM.Library.MOF
- Related Managed Object Format (MOF) files:
    - DCIM_PowerSupplyView.mof
    - DCIM_PowerSupply.mof
    - DCIM_PowerRedundancySet.mof
    - DCIM_PSMemberOfCollection.mof
    - DCIM_PSOwningCollectionElement.mof
    - DCIM_CSHostedPowerRedundancy.mof
    - DCIM_SystemPSDevice.mof
    - DCIM_ElementConformsToProfile.mof
    - DCIM_RegisteredProfile.mof
    - DCIM_LCElementConformsToProfile.mof
    - DCIM_LCRegisteredProfile.mof

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
can – Used for statements of possibility and capability, whether material, physical, or causal.

3.6
cannot – Used for statements of possibility and capability, whether material, physical, or causal.

3.7
need not – Indicates a course of action permissible within the limits of the document.

3.8
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.

3.9
shall – Indicates requirements to be followed strictly in order to conform to the document and from which no deviation is permitted.

3.10

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

3.11

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

3.12

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

3.13

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

3.14

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

3.15

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

3.16

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

3.17

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

CSIOR - Collection of System Inventory on Reboot

92 5   Synopsis

93 **Profile Name:** Power Supply

94 **DMTF Version:** 1.1.0

95 **Dell Version:** 2.1.0

96 **Organization:** Dell

97 **CIM Schema Version:** 2.26 Experimental

98 **Dell Schema Version:** 1.0.0

99 **Interop Namespace:** root/interop

100 **Implementation Namespace:** root/dcim

101 **Central Class:** DCIM_PowerSupplyView

102 **Scoping Class:** DCIM_ComputerSystem

103 The Dell Power Supply Profile is a component profile that contains the Dell specific implementation
104 requirements for power supply view.

105 DCIM_PowerSupplyView shall be the Central Class.

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

107 **Table 1 – Related Profiles**

Profile Name	Organization	Version	Relationship
Power Supply	DMTF	1.1	Specialize
Profile Registration	DCIM	1.0	Reference

108 **6** Description

109 The Dell Power Supply Profile describes the platform's power supply information. Each platform power
110 supply is represented by an instance of DCIM_PowerSupplyView class.
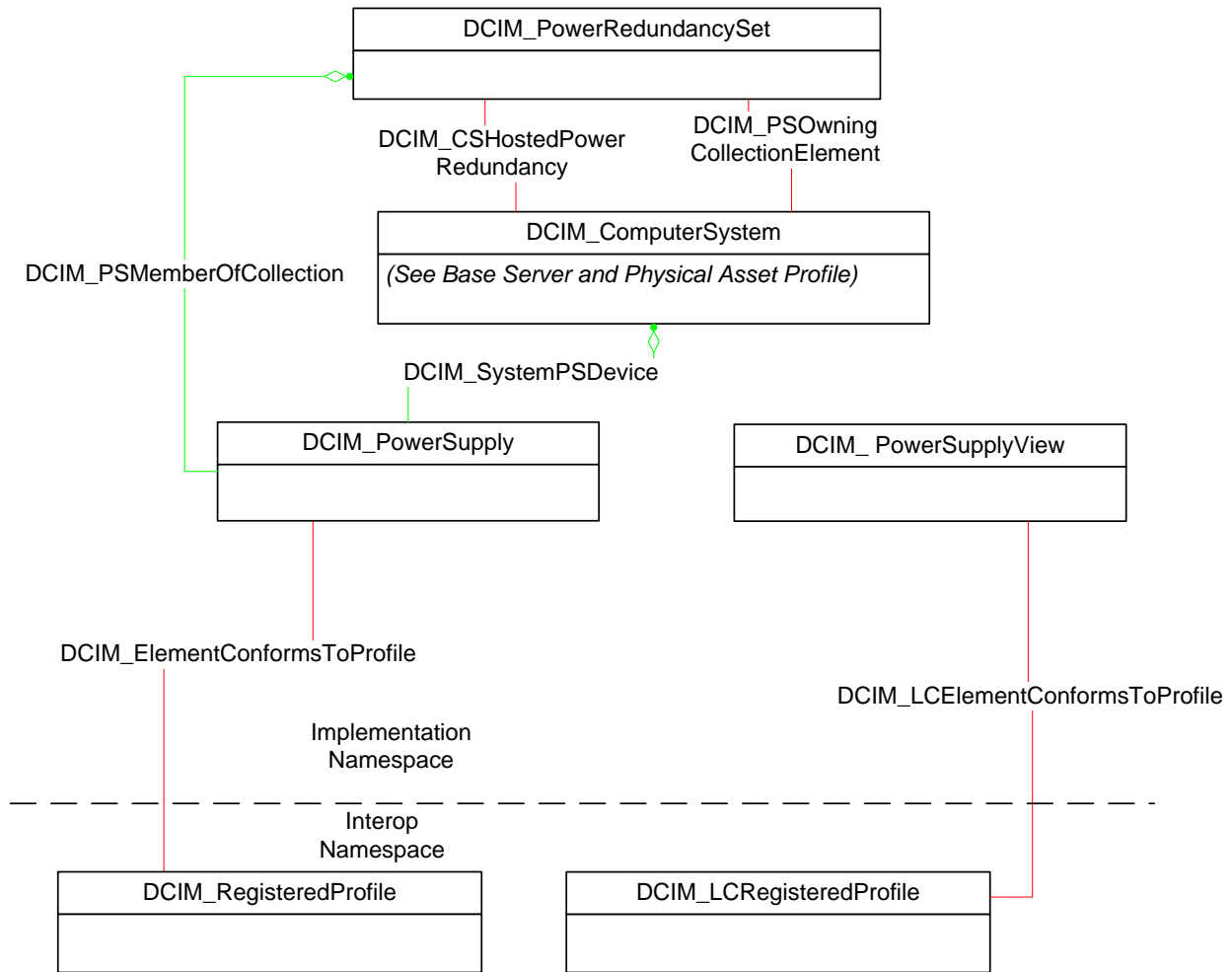
111

112 **Figure 1 – Class Diagram**

113 Figure 2 details typical Dell Power Supply Profile implementation for a platform containing two power
114 supplies. For the client to discover the instrumentation's support of this profile, LCRegisteredProfile and
115 RegisteredProfile are instantiated in the Interop Namespace.

116 LCRegisteredProfile instance provides information about the implemented DCIM profile: most importantly,
117 the profile name, version of the profile, and the organization name that produced the profile.

118 RegisteredProfile provides the information about the DMTF profile

119 Psu1 and psu2 are the power supply views representing the two power supplies in the Implementation
120 Namespace. They are associated to the Interop namespace's PowerSupplyProfile instance.

121 Pwrsupply1 and pwrsupply2 represent the same two power supplies as well but in the DMTF Power
122 Supply Profile described interface.
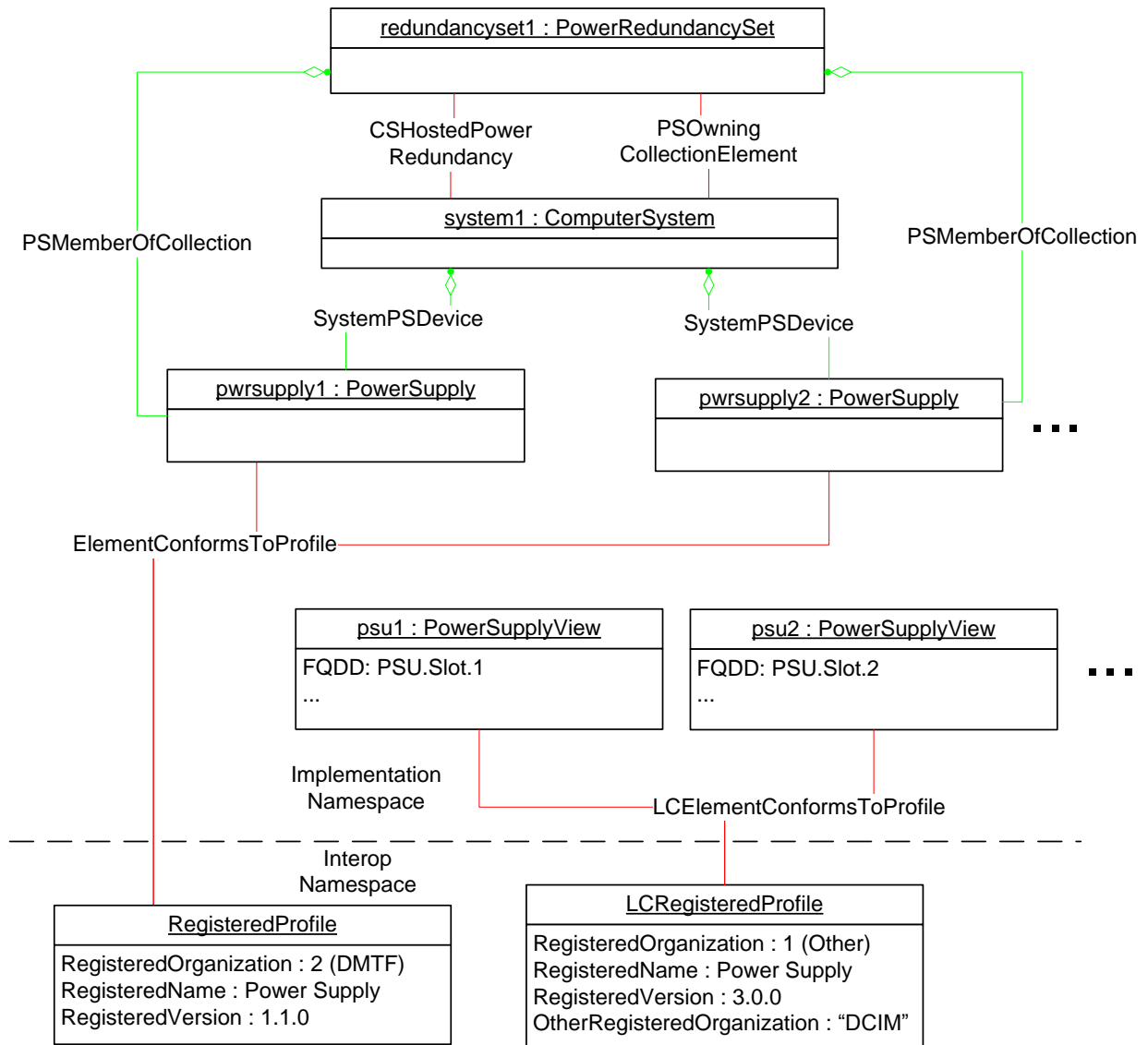
123

124 **Figure 2 – Power Supply Profile Implementation**

7   Implementation Requirements

This section describes the requirements and guidelines for implementing Power Supply Profile.

Table 2 – Class Requirements: Power Supply Profile

Element Name	Requirement	Description
Classes		
DCIM_PowerSupplyView	Mandatory	The class shall be implemented in the *Implementation Namespace*. See section7.1.
DCIM_PowerSupply	Mandatory	The class shall be implemented in the *Implementation Namespace*. See section 7.2.
DCIM_PowerRedundancySet	Mandatory	The class shall be implemented in the *Implementation Namespace*. See section 7.3.
DCIM_PSMemberOfCollection	Mandatory	The class shall be implemented in the *Implementation Namespace*. See section 7.2 and 7.3.
DCIM_PSOwningCollectionElement	Mandatory	The class shall be implemented in the *Implementation Namespace*. See section 7.3.
DCIM_CSHostedPowerRedundancy	Mandatory	The class shall be implemented in the *Implementation Namespace*. See section 7.3.
DCIM_SystemPSDevice	Mandatory	The class shall be implemented in the *Implementation Namespace*. See section 7.2.
DCIM_ElementConformsToProfile	Mandatory	The class shall be implemented in both the *Interop* and *Implementation Namespaces*. See section 7.5
DCIM_RegisteredProfile	Mandatory	The class shall be implemented in the *Interop Namespace*. See section 7.5
DCIM_LCElementConformsToProfile	Mandatory	The class shall be implemented in both the *Interop* and *Implementation Namespaces*. See section 7.4
DCIM_LCRegisteredProfile	Mandatory	The class shall be implemented in the Interop Namespace. See section 7.4
Indications		
None defined in this profile		

7.1   Power Supply View – DCIM_PowerSupplyView

This section describes the implementation for the DCIM_PowerSupplyView class that represents a power supply and its aggregate characteristics.

132   This class shall be instantiated in the Implementation Namespace.

133   The DCIM_LCElementConformsToProfile association(s) shall reference the DCIM_PowerSupplyView
134   instance(s).

135

136   7.1.1 Resource URIs for WinRM®

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

139   The key property shall be the InstanceID.

140   The instance Resource URI for DCIM_PowerSupplyView instance shall be:
141   "http://schemas.dell.com/wbem/wscim/1/cim-schema/2/DCIM_PowerSupplyView?
142   ?__cimnamespace=root/dcim+InstanceID=<FQDD>"

143   7.1.2 Operations

144   The following table lists the operations implemented on DCIM_PowerSupplyView.

145   **Table 3 – DCIM_PowerSupplyView - Operations**

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

146

147   7.1.3 Class Properties

148   The following table lists the implemented properties for DCIM_PowerSupplyView instance in a system.
149   The "Requirements" column shall denote whether the property is implemented (for requirement
150   definitions, see section 3). The "Additional Requirements" column shall denote either possible values for
151   the property, or requirements on the value formulation.

152   **Table 4 – DCIM_PowerSupplyView - Properties**

Property Name	Requirements	Type	Additional Requirements
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.
TotalOutputPower	Mandatory	uint32	Represents the total output power of the power supply in Watts. The property value shall be in Watts. 0 shall mean "Unknown".
InputVoltage	Mandatory	uint32	This property provides the input voltage for the supply in Volts. The property value shall be in Volts. 0 shall mean "Unknown".
PrimaryStatus	Mandatory	uint32	This property provides a high level status value, intended to align with Red-Yellow-Green type representation of status.

Property Name	Requirements	Type	Additional Requirements
Type	Mandatory	uint16	This property indicates the device type of the power supply and shall have the following values: • 0 (AC) • 1 (DC).
DetailedState	Mandatory	string	This property describes the further status of the power supply as enumerated for IPMI power supply sensor such as: • Predictive Failure • Power Supply AC lost • AC lost or out-of-range • AC out-of-range, but present.
RedundancyStatus	Mandatory	uint16	This property provides information on the state of the power supply redundancy. The property value shall be one of the following: • 0(Unknown) • 2 (Fully Redundant) • 3(Degraded Redundancy) • 4 (Redundancy Lost) • 5 (Overall Failure)
Manufacturer	Mandatory	string	The name of the organization responsible for producing the power supply.
Model	Mandatory	string	The make and or model of the product.
SerialNumber	Mandatory	string	A manufacturer-allocated number used to identify the power supply.
PartNumber	Mandatory	string	The part number assigned by the organization that is responsible for producing or manufacturing the power supply.
FirmwareVersion	Mandatory	string	A string containing the power supply's firmware version.
LastSystemInventoryTime	Mandatory	string	This property provides the last time Collection of System Inventory on Reboot (CSIOR) was performed. The value is represented as yyyymmddHHMMSS.
LastUpdateTime	Mandatory	string	This property provides the last time the data was updated. The value is represented as yyyymmddHHMMSS
RedTypeOfSet	Mandatory	Uint16	The property provides information on the type of redundancy and shall have the following values: • 2 (N+1) • 4(Sparing) • 32768(Input Power Redundancy)
RedMinNumberNeeded	Mandatory	Uint32	The property indicates the smallest number of elements that must be operational in order to function. The minimum value is 0.

7.2 Power Supply – DCIM_PowerSupply

This section describes the implementation for the DCIM_PowerSupply class that represents a power supply..

This class shall be instantiated in the Implementation Namespace.

157 The DCIM_SystemPSDevice association shall reference DCIM_PowerSupply instances and the
158 DCIM_ComputerSystem instance.

159 The DCIM_PSMemberOfCollection association shall reference DCIM_PowerSupply instances and the
160 DCIM_PowerRedundancySet instance.

161 **7.2.1   Resource URIs for WinRM®**

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

164 The key properties shall be the SystemCreationClassName, SystemName, CreationClassName and
165 DeviceID.

166 The instance Resource URI for DCIM_PowerSupply instance shall be:
167 "http://schemas.dell.com/wbem/wscim/1/cim-schema/2/DCIM_PowerSupplyView?
168 ?__cimnamespace=root/dcim+SystemCreationClassName=DCIM_ComputerSystem+SystemName=srv:s
169 ystem+CreationClassName=DCIM_PowerSupply+DeviceID =<DeviceID>"

170 **7.2.2   Operations**

171 The following table lists the operations implemented on DCIM_PowerSupply.

172   **Table 5 – DCIM_PowerSupply - Operations**

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

173

174 **7.2.3   Class Properties**

175 The following table lists the implemented properties for DCIM_PowerSupply instance in a system. The
176 "Requirements" column shall denote whether the property is implemented (for requirement definitions,
177 see section 3). The "Additional Requirements" column shall denote either possible values for the property,
178 or requirements on the value formulation.

179   **Table 6 – DCIM_PowerSupply - Properties**

Property Name	Requirements	Type	Additional Requirement
SystemCreationClassName	Mandatory	string	This property value shall be "DCIM_ComputerSystem"
SystemName	Mandatory	string	This property value shall be"srv:system"
CreationClassName	Mandatory	string	This property value shall be "DCIM_PowerSupply"
DeviceID	Mandatory	string	The property value shall be unique identifier.
ElementName	Mandatory	string	This property value shall be "Power Supply".
InputPowerUnits	Mandatory	string	This property indicates the programmatic units for the input power properties. This property value shall be in "watt".
RatedMaxOutputPower	Mandatory	uint32	This property indicates the maximum amount of output (DC) power. 0 shall mean "Unknown".

Property Name	Requirements	Type	Additional Requirement
TotalOutputPower	Mandatory	uint32	This property represents the total output power of the PowerSupply in milli watts. 0 shall mean "Unknown".
RequestedState	Mandatory	uint16	The property value shall be 12 (Not Applicable).
ActiveInputVoltage	Mandatory	uint16	This property indicates the input voltage range that is currently in use. The property value shall be: • 2 (Unknown), • 3 (Range1).
EnabledState	Mandatory	uint16	The property value shall be 2 (Enabled).
IsSwitchingSupply	Mandatory	boolean	This property indicates that the Power Supply is a switching (instead of linear) supply.This property shall have a value of "TRUE".
IsACInput	Mandatory	boolean	The property shall indicate whether power supply is direct current (DC) or alternating current (AC) powered. A value of true shall indicate the required input of the PowerSupply is AC.
IsACOutput	Mandatory	boolean	A value of false shall indicate the output from the PowerSource is direct current (DC). This property shall have a value of "FALSE"
Range1InputVoltageHigh	Mandatory	uint32	The high voltage of Input Voltage Range 1 for this Power Supply. The property value shall be in Milli Volts
Range1MaxInputPower	Mandatory	uint32	This property indicates the maximum amount of power that this Power Supply may draw. The property value shall be in Watts.
OperationalStatus[]	Mandatory	uint16	The property value shall be one of the following: • 0(Unknown) • 2(OK) • 3(Degraded) • 6 (Error)
PrimaryStatus	Mandatory	uint16	The property value shall be one of the following: • 0(Unknown) • 1(OK) • 2(Degraded) • 3 (Error)
HealthState	Mandatory	uint16	The property value shall be one of the following: • 0(Unknown) • 5 (OK) • 10(Degraded/Warning) • 25 (Critical Failure)

180

7.3 Power Redundancy Set – DCIM_PowerRedundancySet

182 This section describes the implementation for the DCIM_PowerRedundancySet class represents the
183 characteristics of the power supply redundancy.

184 This class shall be instantiated in the Implementation Namespace.

185 The DCIM_PSMemberOfCollection association shall reference DCIM_PowerSupply instances and the
186 DCIM_PowerRedundancySet instance.

187 The DCIM_PSOwningCollectionElement association shall reference the DCIM_PowerRedundancySet
188 instance and the DCIM_ComputerSystem instance.

189 The DCIM_CSHostedPowerRedundancy association shall reference the DCIM_PowerRedundancySet
190 instance and the DCIM_ComputerSystem instance.

7.3.1 Resource URIs for WinRM®

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

194 The key property shall be the InstanceID.

195 The instance Resource URI for DCIM_PowerRedundancySet instance shall be:
196 "http://schemas.dell.com/wbem/wscim/1/cim-schema/2/DCIM_PowerRedundancySet?
197 ?__cimnamespace=root/dcim+InstanceID= RedundancySet:1"

7.3.2 Operations

199 The following table lists the operations implemented on DCIM_PowerRedundancySet.

200 **Table 7 – DCIM_PowerRedundancySet - Operations**

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

201

7.3.3 Class Properties

203 The following table lists the implemented properties for DCIM_PowerSupply instance in a system. The
204 "Requirements" column shall denote whether the property is implemented (for requirement definitions,
205 see section 3). The "Additional Requirements" column shall denote either possible values for the property,
206 or requirements on the value formulation.

207 **Table 8 – DCIM_PowerRedundancySet - Properties**

Property Name	Requirements	Type	Additional Requirement
InstanceID	Mandatory	string	The property value shall be "RedundancySet:1"
MinNumberNeeded	Mandatory	uint32	This property value shall be 1.
TypeOfSet[]	Mandatory	uint16	This property value shall always contain 2(N+1) redundancy and may contain: • 32768 (Input Power Redundancy), if the

			PSRedundancyPolicy attribute is set to "Input Power Redundant", • 4 (Sparing), if the PSRapidOn and PrimaryPSU attributes are set.
RedundancyStatus	Mandatory	uint16	The property value shall be one of the following: • 0 (Unknown) • 2 (Fully Redundant) • 3 (Degraded Redundancy) • 4 (Redundancy Lost) • 5 (Overall Failure)
ElementName	Mandatory	string	This property value shall be "System Board PS Redundancy".

7.4 DCIM_LCRegisteredProfile – DCIM Power Supply Profile Profile Registration

208
209

210 This section describes the implementation for the DCIM_LCRegisteredProfile class.

211 This class shall be instantiated in the Interop Namespace.

212 The DCIM_LCElementConformsToProfile association shall reference the DCIM_LCRegisteredProfile
213 instance and the DCIM_PowerSupplyView instances.

7.4.1 Resource URIs for WinRM®

214

215 The class Resource URI shall be "http://schemas.dell.com/wbem/wscim/1/cim-
216 schema/2/DCIM_LCRegisteredProfile?__cimnamespace=root/interop"

217 The instance Resource URI shall be: "http://schemas.dell.com/wbem/wscim/1/cim-
218 schema/2/DCIM_LCRegisteredProfile?__cimnamespace=root/interop+InstanceID=
219 DCIM:PowerSupply:2.0.0"

220 The key property shall be the InstanceID property.

7.4.2 Operations

221

222 The following table lists the operations implemented on CIM_RegisteredProfile .

223 **Table 9 – DCIM_LCRegisteredProfile - Operations**

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

224

7.4.3 Class Properties

225

226 The following table lists the implemented properties for DCIM_LCRegisteredProfile instance in a system.
227 The "Requirements" column shall denote whether the property is implemented (for requirement
228 definitions, see section 3). The "Additional Requirements" column shall denote either possible values for
229 the property, or requirements on the value formulation.

Table 10 – DCIM_LCRegisteredProfile

Property Name	Requirement	Type	Additional Requirements
InstanceID	Mandatory	string	The property value shall be "DCIM:PowerSupply:2.0.0".
RegisteredName	Mandatory	string	This property shall be "Power Supply".
RegisteredVersion	Mandatory	string	This property shall be "2.1.0".
RegisteredOrganization	Mandatory	uint16	This property shall be 1 (Other).
OtherRegisteredOrganization	Mandatory	string	The property value shall be "DCIM".
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: • "LICENSED" • "NOT_LICENSED" If no license is required for the profile, the property shall have value NULL.

7.5 DCIM_RegisteredProfile – DMTF Power Supply Profile Profile Registration

232 This section describes the implementation for the DCIM_RegisteredProfile class.

233 This class shall be instantiated in the Interop Namespace.

234 The DCIM_ElementConformsToProfile association shall reference the DCIM_RegisteredProfile instance
235 and DCIM_PowerSupply instances.

7.5.1 Resource URIs for WinRM®

237 The class Resource URI shall be "http://schemas.dell.com/wbem/wscim/1/cim-
238 schema/2/DCIM_RegisteredProfile?__cimnamespace=root/interop"

239 The instance Resource URI shall be: "http://schemas.dell.com/wbem/wscim/1/cim-
240 schema/2/DCIM_RegisteredProfile?__cimnamespace=root/interop+InstanceID=
241 DCIM:PowerSupplyRegisteredProfile:1"

242 The key property shall be the InstanceID property.

243 The DCIM_ElementConformsToProfile association shall reference the DCIM_RegisteredProfile instance.

7.5.2 Operations

245 The following table lists the operations implemented on DCIM_RegisteredProfile .

246 **Table 11 – DCIM_RegisteredProfile - Operations**

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

247 7.5.3 Class Properties

248 The following table lists the implemented properties for DCIM_RegisteredProfile instance in a system.
249 The "Requirements" column shall denote whether the property is implemented (for requirement
250 definitions, see section 3). The "Additional Requirements" column shall denote either possible values for
251 the property, or requirements on the value formulation.

252 **Table 12 – DCIM_RegisteredProfile**

Property Name	Requirement	Type	Additional Requirements
InstanceID	Mandatory	string	The property value shall be "DCIM:PowerSupplyRegisteredProfile:1".
RegisteredName	Mandatory	string	This property shall be "Power Supply".
RegisteredVersion	Mandatory	string	This property shall be "1.1.0".
RegisteredOrganization	Mandatory	uint16	This property shall be 2 (DMTF).
AdvertisedTypes[]	Mandatory	uint16	This property array shall contain [1(Other), 1 (Other)].
AdvertiseTypeDescriptions[]	Mandatory	string	This property array shall contain ["WS-Identify", "Interop Namespace"].

253 8   Methods

254 No additional details specified.

255 9   Use Cases

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

257 10 CIM Elements

258 11 No additional requirements have been defined. Privilege and
259   License Requirement

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

263 **Table 13 – Privilege and License Requirements**

Class and Method	Operation	User Privilege Required	License Required
DCIM_PowerSupplyView	ENUMERATE, GET	Login	LM_REMOTE_ASSET_INVENTORY
DCIM_PowerSupply	ENUMERATE, GET	Login	LM_DEVICE_MONITORING
DCIM_PowerRedundancySet	ENUMERATE, GET	Login	LM_DEVICE_MONITORING
DCIM_PSMemberOfCollection	ENUMERATE, GET	Login	LM_DEVICE_MONITORING

Class and Method	Operation	User Privilege Required	License Required
DCIM_PSOwningCollectionElement	ENUMERATE, GET	Login	LM_DEVICE_MONITORING
DCIM_CSHostedPowerRedundancy	ENUMERATE, GET	Login	LM_DEVICE_MONITORING
DCIM_SystemPSDevice	ENUMERATE, GET	Login	LM_DEVICE_MONITORING
DCIM_ElementConformsToProfile	ENUMERATE, GET	Login	None.
DCIM_RegisteredProfile	ENUMERATE, GET	Login	None.
DCIM_LCRegisteredProfile	ENUMERATE, GET	Login	None.
DCIM_LCElementConformsToProfile	ENUMERATE, GET	Login	None.

264

265 **ANNEX A**
266 **(informative)**
267
268
269 **Change Log**

Version	Date	Description
2.1.1	04/11/2012	Corrected the DCIM_PowerSupply.InputPowerUnits property description.

270
271
272