

System Quick Sync Profile

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1

System Quick Sync Profile

2 1 Scope

3 The DCIM SystemQuickSync Profile describes the properties and interfaces for executing system
4 management tasks related to the management of QuickSync/NFC devices within a system. The profile
5 standardizes and aggregates the description for the QuickSync properties into a SystemQuickSync view
6 representation as well as provides static methodology for the clients to query the SystemQuickSync views
7 without substantial traversal of the model.

8

9 2 Normative References

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

13 DMTF DSP1033, *Profile Registration Profile 1.0.0*

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

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

16 *Dell Lifecycle Controller Best Practices Guide 1.0,*

17 http://en.community.dell.com/techcenter/extras/m/white_papers/20066173.aspx

18 *Dell WSMAN Licenses and Privileges 1.0*

19 Dell Tech Center MOF Library, <http://www.delltechcenter.com/page/DCIM.Library.MOF>

20 • DCIM_SystemQuickSyncView.mof

21 • DCIM_LCEnumeration.mof

22 • DCIM_LCRegisteredProfile.mof

23

24 3 Terms and Definitions

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

26 3.1

27 **conditional**

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

30 3.2

31 **mandatory**

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

- 34 **3.3**
35 **may**
36 indicates a course of action permissible within the limits of the document
- 37 **3.4**
38 **optional**
39 indicates a course of action permissible within the limits of the document
- 40 **3.5**
41 **referencing profile**
42 indicates a profile that owns the definition of this class and can include a reference to this profile in its
43 "Related Profiles" table
- 44 **3.6**
45 **shall**
46 indicates requirements to be followed strictly in order to conform to the document and from which no
47 deviation is permitted
- 48 **3.7**
49 **FQDD**
50 Fully Qualified Device Descriptor is used to identify a particular component in a system.
- 51 **3.8**
52 **Interop Namespace**
53 Interop Namespace is where instrumentation instantiates classes to advertise its capabilities for client
54 discovery.
- 55 **3.9**
56 **Implementation Namespace**
57 Implementation Namespace is where instrumentation instantiates classes relevant to executing core
58 management tasks.
- 59 **3.10**
60
61 **ENUMERATE**
62 Refers to WS-MAN ENUMERATE operation as described in Section 8.2 of DSP0226_V1.1 and Section
63 9.1 of DSP0227_V1.0
- 64 **3.11**
65
66 **GET**
67 Refers to WS-MAN GET operation as defined in Section 7.3 of DSP0226_V1.1 and Section 7.1 of
68 DSP0227_V1.0
69
70
71

72 **4 Symbols and Abbreviated Terms**

73 **4.1**

74 **CIM**

75 Common Information Model

76 **4.2**

77 **iDRAC**

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

79 **4.3**

80 **CMC**

81 Chassis Manager Controller – management controller for the modular chassis

82 **4.4**

83 **WBEM**

84 Web-Based Enterprise Management

85 **4.5**

86 **NFC**

87 Near Field Communication.

88

89

90 **5 Synopsis**

91 **Profile Name:** SystemQuickSync

92 **Version:** 1.1.0

93 **Organization:** Dell

94 **CIM Schema Version:** 2.26 Experimental

95 **Dell Schema Version:** 1.0.0

96 **Interop Namespace:** root/interop

97 **Implementation Namespace:** root/dcim

98 **Central Class:** DCIM_SystemQuickSyncView

99 **Scoping Class:** DCIM_ComputerSystem

100 The Dell SystemQuickSync Profile is a component profile that contains the Dell specific implementation
101 requirements for SystemQuickSync view.

102 DCIM_SystemQuickSyncView shall be the Central Class.

103

104

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

106

107

108

Table 1 – Related Profiles

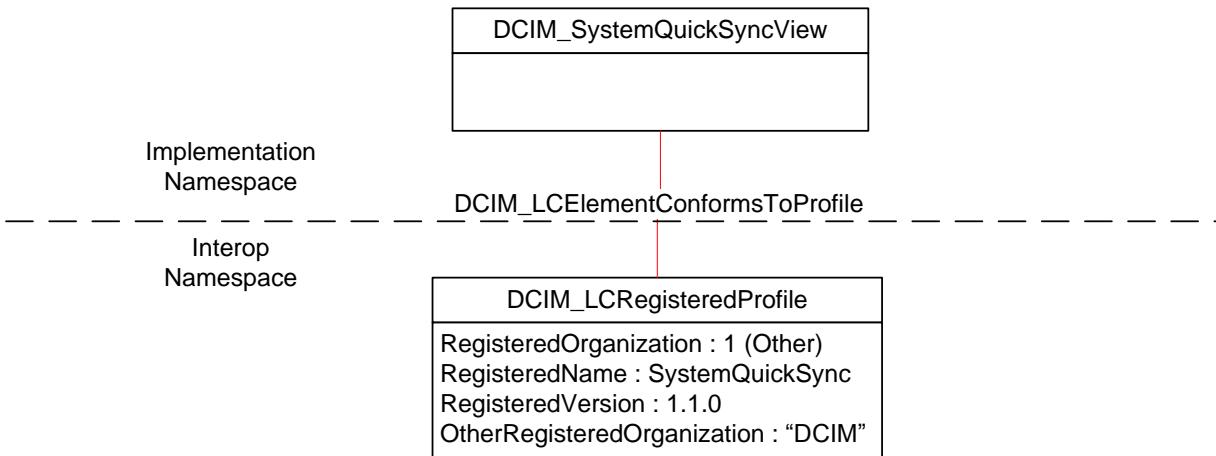
Profile Name	Organization	Version	Relationship
Profile Registration	DCIM	1.0	Reference

109

6 Description

110 The Dell SystemQuickSync Profile describes platform's QuickSync/NFC device. NFC information is
111 represented by an instance of DCIM_SystemQuickSyncView class.

112 Figure 1 details the class diagram of the Dell SystemQuickSync Profile.

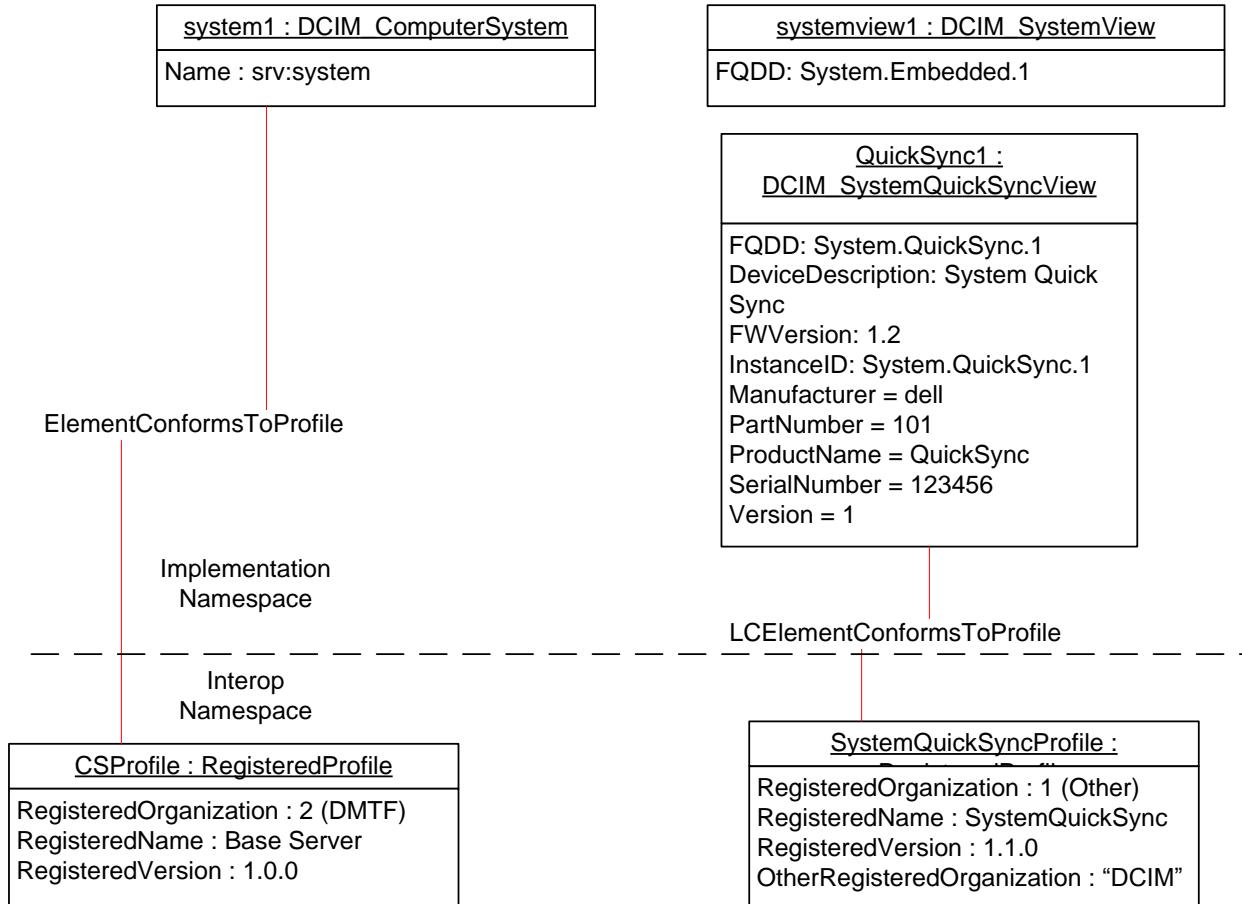


113

114

Figure 1 – Class Diagram

115 Figure 2 details typical Dell SystemQuickSync Profile implementation for a platform containing
 116 QuickSync/NFC devices. In order for client to discover the instrumentation's support of this profile,
 117 SystemQuickSyncProfile is instantiated in the Interop Namespace. SystemQuickSync Profile instance
 118 describes the information about the implemented profile: most importantly, the name and version of the
 119 profile and the organization name that produced the profile.
 120 QuickSync1 is the SystemQuickSync view representing the QuickSync/NFC device in the Implementation
 121 Namespace. They are associated to the Interop namespace's SystemQuickSync Profile instance.



122

123

Figure 2 – SystemQuickSync Profile Implementation

124 **7 Implementation Description**

125 This section describes the requirements and guidelines for implementing Dell SystemQuickSync Profile.

126 **Table 2 – Class Requirements: SystemQuickSync Profile**

Element Name	Requirement	Description
Classes		
DCIM_SystemQuickSyncView	Mandatory	The class shall be implemented in the <i>Implementation Namespace</i> . See section 7.1.
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 <i>Interop Namespace</i> . See section 7.2.
Indications		
None defined in this profile		

127

128 **7.1 SystemQuickSync View**

129 This section describes the implementation for the DCIM_SystemQuickSyncView class.

130 This class shall be instantiated in the Implementation Namespace.

131 The DCIM_LCElementConformsToProfile association(s) shall reference the
132 DCIM_SystemQuickSyncView instance(s).

133 **7.1.1 Resource URIs for WinRM®**

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

136 The key property shall be the InstanceID.

137 The instance Resource URI for DCIM_SystemQuickSyncView instance shall be:
138 “http://schemas.dell.com/wbem/wscim/1/cim-schema/2/DCIM_SystemQuickSyncView?__cimnamespace=root/dcim+InstanceId=<FQDD>”

140 **7.1.2 Operations**

141 The following table details the implemented operations on DCIM_SystemQuickSyncView.

142 **Table 3 – DCIM_SystemQuickSyncView - Operations**

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

143

144 **7.1.3 Properties**

145 The following table details the implemented properties for DCIM_SystemQuickSyncView instance
 146 representing a QuickSync/NFC device in a system. The “Requirements” column shall denote the
 147 implementation requirement for the corresponding property. If the column “Property Name” matches the
 148 property name, the property either shall have the value denoted in the corresponding column “Additional
 149 Requirement”, or shall be implemented according to the requirements in the corresponding column
 150 “Additional Requirement”.

151 **Table 4 – DCIM_SystemQuickSyncView - Properties**

Property Name	Requirements	Type	Requirement and description
InstanceId	Mandatory	String	The property value shall be the FQDD property value.
FQDD	Mandatory	String	The property shall represent, a string containing the Fully Qualified Device Description, a user-friendly name for the object.
DeviceDescription	Mandatory	String	The property shall represent, a string containing the friendly Fully Qualified Device Description, a user-friendly name for the object.
Manufacturer	Mandatory	String	The property shall represent the name of the organization responsible for producing the QuickSync device.
SerialNumber	Mandatory	String	The property shall represent a manufacturer-allocated number used to identify the physical element.
PartNumber	Mandatory	String	The property shall represent the part number of the QuickSync device.
ProductName	Mandatory	String	The property shall represent the product name of the Quick Sync device.
Version	Mandatory	String	The property shall represent the hardware version of the QuickSync device.
FWVersion	Mandatory	String	The property shall represent the firmware version of the Quick Sync device.

152 **7.2 SystemQuickSync Profile Registration**

153 This section describes the implementation for the DCIM_LCRegisteredProfile class.
 154 This class shall be instantiated in the Interop Namespace.
 155 The DCIM_ElementConformsToProfile association(s) shall reference the DCIM_LCRegisteredProfile
 156 instance.

157 **7.2.1 Resource URIs for WinRM®**

158 The class Resource URI shall be "http://schemas.dmtf.org/wbem/wscim/1/cim-
 159 schema/2/CIM_RegisteredProfile?__cimnamespace=root/interop"
 160 The key property shall be the InstanceID property.

161 The instance Resource URI shall be: ““http://schemas.dell.com/wbem/wscim/1/cim-
162 schema/2/DCIM_LCRegisteredProfile?__cimnamespace=root/interop+InstanceId=
163 DCIM:SystemQuickSync:1.0.0”

164 **7.2.2 Operations**

165 The following table details the implemented operations on DCIM_LCRegisteredProfile.

166 **Table 5 – DCIM_LCRegisteredProfile - Operations**

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

167

168

169 **7.2.3 Properties**

170 The following table details the implemented properties for DCIM_LCRegisteredProfile instance
171 representing SystemQuickSync Profile implementation. The “Requirements” column shall denote the
172 implementation requirement for the corresponding property. If the column “Name” matches the property
173 name, the property either shall have the value denoted in the corresponding column “Additional
174 Requirements”, or shall be implemented according to the requirements in the corresponding column
175 “Additional Requirements”.

176 **Table 6 – DCIM_LCRegisteredProfile**

Property Name	Requirement	String	Additional Requirements
InstanceId	Mandatory	String	DCIM:SystemQuickSync:1.0.0
RegisteredName	Mandatory	String	This property shall have a value of "SystemQuickSync".
RegisteredVersion	Mandatory	String	This property shall have a value of "1.1.0".
RegisteredOrganization	Mandatory	Uint16	This property shall have a value of 1 (Other).
OtherRegisteredOrganization	Mandatory	String	The property value shall match "DCIM".
AdvertisedTypes[]	Mandatory	Uint16	This property array shall contain [1(Other), 1 (Other)].
AdvertiseTypeDescriptions[]	Mandatory	String	This property array shall contain ["WS-Identify", "Interop Namespace"].
ProfileRequireLicense[]	Mandatory	String	This property array shall describe the required licenses for this profile. If no license is required for the profile, the property shall have value NULL.
ProfileRequireLicenseStatus[]	Mandatory	String	This property array shall contain the status for the corresponding license in the same element index of the ProfileRequireLicense array property. Each array element shall contain: <ul style="list-style-type: none">• “LICENSED”• “NOT_LICENSED” If no license is required for the profile, the property shall have value NULL.

177

178 **8 Methods**

179 .

180 **9 No methods are defined for this profile and class. Use Cases**

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

182 **10 CIM Elements**

183 No additional details specified.

184 **11 Privilege and License Requirement**

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

188 **Table 7 – Privilege and License Requirements**

Class and Method	Operation	User Privilege Required	License Required
DCIM_SystemQuickSyncView	ENUMERATE, GET	Login	None
DCIM_LCRegisteredProfile	ENUMERATE, GET	Login	None.
DCIM_LCElementConformsToProfile	ENUMERATE, GET	Login	None.

189

190
191