

Simple Identity Management Profile

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1. Scope

The DCIM Simple Identity Management Profile describes the properties and interfaces for executing system management tasks related to the management of accounts and identities. The profile standardizes and aggregates the description for the platform's basic properties into a system view representation and provides static methodology for the clients to query the system views without substantial traversal of the model.

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 DSP1018, Simple Identity Management 1.0.0
- 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
- 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:
 - o DCIM_Account.mof
 - o DCIM_AccountCapabilities.mof
 - o DCIM_AccountOnSystem.mof
 - o DCIM_AssignedAcctIdent.mof
 - o DCIM_EnabledLogicalElementCapabilities.mof
 - o DCIM_LocalUserElementCapabilities.mof
 - o DCIM_LocalUserIdentity.mof
 - o DCIM_LocalUserServiceAffectsIdentity.mof
 - o DCIM_LANIdentity.mof
 - o DCIM_SerialIdentity.mof
 - o DCIM_CLPIdentity.mof
 - o DCIM_CLPServiceAffectsIdentity.mof
 - o DCIM_LocalUserAccountManagementService.mof
 - o DCIM_IPMIAccountManagementService.mof
 - o DCIM_IPMICLPElementCapabilities.mof
 - o DCIM_IPMIServiceAffectsIdentity.mof
 - o DCIM_CLPAccountManagementService.mof
 - o DCIM_LocalUserAccountManagementCapabilities.mof
 - o DCIM_IPMICLPAccountManagementCapabilities.mof
 - o DCIM_SPHostedSIMPSERVICE.mof

- o DCIM_ElementConformsToProfile.mof
- o DCIM_RegisteredProfile.mof
- o DCIM_LCElementConformsToProfile.mof
- o DCIM_LCRegisteredProfile.mof

3. Terms and Definitions

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

3.1. Can

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

3.2. Cannot

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

3.3. Conditional

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

3.4. Mandatory

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

3.5. May

Indicates a course of action permissible within the limits of the document.

3.6. Need not

Indicates a course of action permissible within the limits of the document.

3.7. Optional

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.

Interop Namespace: root/interop

Interop Namespace: root/interop is where instrumentation instantiates classes to advertise its capabilities for client discovery.

3.13. Implementation Namespace

root/dcim

Implementation Namespace: root/dcim is where instrumentation instantiates classes relevant to executing core management tasks.

3.14. 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

3.15. GET

Refers to WS-MAN GET operation as defined in Section 7.3 of DSP0226_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. RAC

Remote Access Controller – management controller or service processor

5. Synopsis

Profile Name: System Info

Version: 4.0.0.

Organization: Dell

CIM Schema Version: 2.41 Final

Dell Schema Version: 1.0.0

Interop Namespace: root/interop

Implementation Namespace: root/dcim

Central Class: DCIM_LocalUserAccountManagementService, DCIM_IPMIAccountManagementService, and DCIM_CLPAccountManagementService

Scoping Class: DCIM_ComputerSystem

The Dell Simple Identity Management Profile is a component profile that contains the Dell specific implementation requirements for system view.

DCIM_LocalUserAccountManagementService, DCIM_IPMIAccountManagementService, and DCIM_CLPAccountManagementService shall be the Central Classes.

Table 1 identifies profiles that are related to this profile.

Table 1. Related Profiles

Profile Name	Organization	Version	Relationship
Simple Identity Management	DMTF	1.0	Specializes
Profile Registration	DCIM	1.0	Reference

Figure 1 details the class diagram of the Dell Simple Identity Management Profile.



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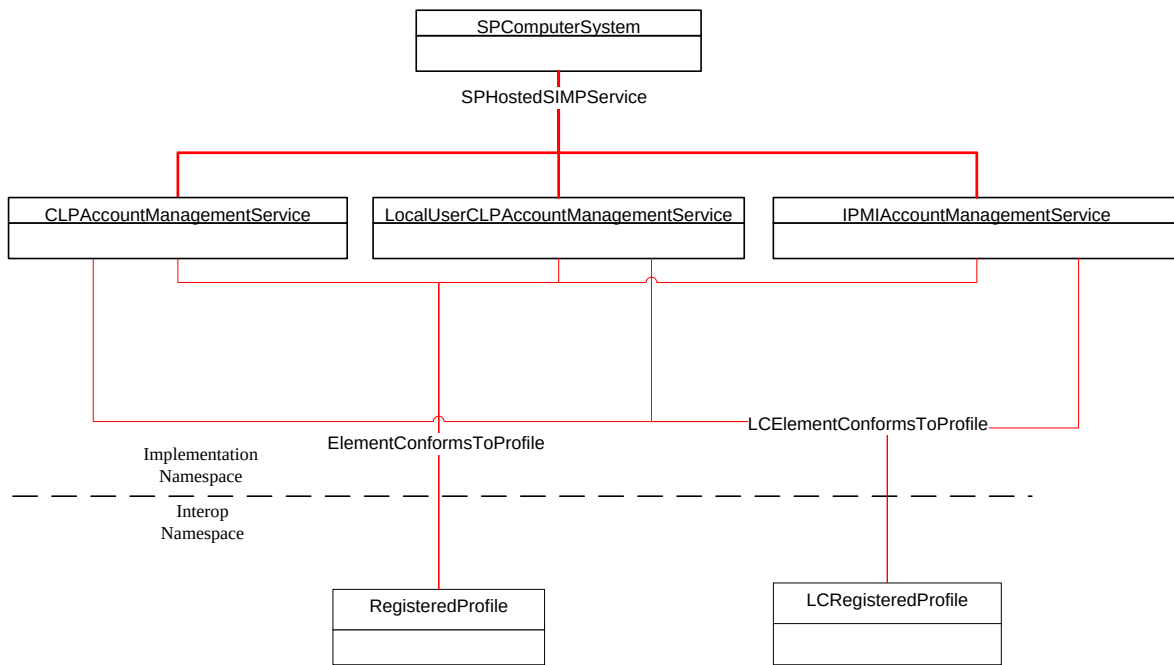


Figure 2. Simple Identity Management Profile

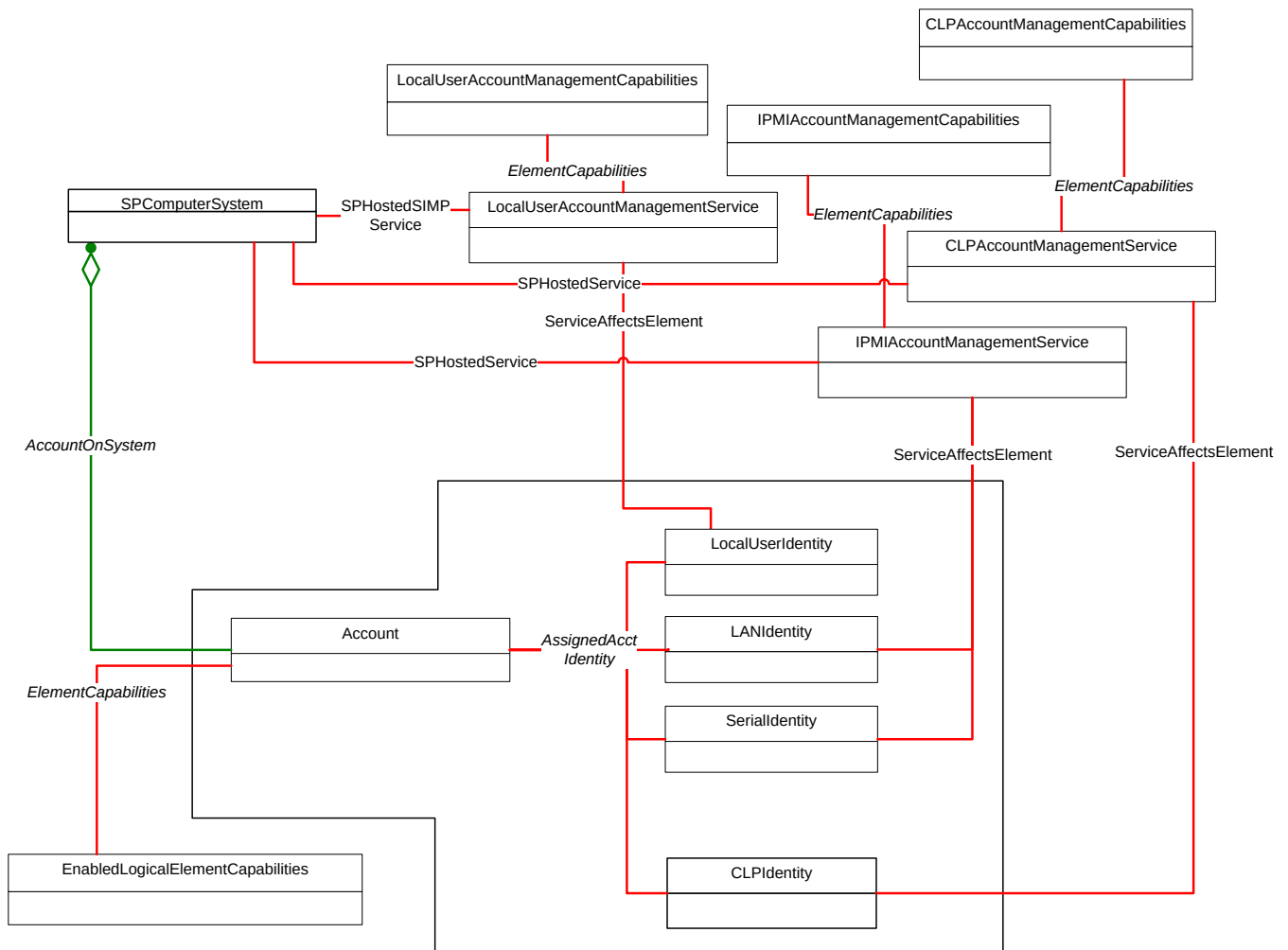


Figure 3. Simple Identity Management Profile Implementation

7. Implementation Description

This section describes the requirements and guidelines for implementing the Dell Simple Identity Management Profile.

Table 2. Class Requirements: Simple Identity Management Profile

Element Name	Requirement	Description
Classes		
DCIM_Account	Mandatory	The class shall be implemented in the <i>Implementation Namespace: root/dcim</i> . See section 0.
DCIM_AccountCapabilities	Mandatory	The class shall be implemented in the <i>Implementation Namespace: root/dcim</i> . See section 0 and 7.2.
DCIM_AccountOnSystem	Mandatory	The class shall be implemented in the <i>Implementation Namespace: root/dcim</i> . See section 0.
DCIM_AssignedAcctIdent	Mandatory	The class shall be implemented in the <i>Implementation Namespace: root/dcim</i> . See section 0, 7.3, 7.4, 7.5 and 0.
DCIM_EnabledLogicalElementCapabilities	Mandatory	The class shall be implemented in the <i>Implementation Namespace: root/dcim</i> . See section 7.2.
DCIM_LocalUserElementCapabilities	Mandatory	The class shall be implemented in the <i>Implementation Namespace: root/dcim</i> . See section 0 and 7.10.
DCIM_LocalUserIdentity	Mandatory	The class shall be implemented in the <i>Implementation Namespace: root/dcim</i> . See section 7.3.
DCIM_LocalUserServiceAffectsIdentity	Mandatory	The class shall be implemented in the <i>Implementation Namespace: root/dcim</i> . See section 7.3 and 0.
DCIM_LANIdentity	Mandatory	The class shall be implemented in the <i>Implementation Namespace: root/dcim</i> . See section 7.4.
DCIM_SerialIdentity	Mandatory	The class shall be implemented in the <i>Implementation Namespace: root/dcim</i> . See section 7.5.
DCIM_CLPIdentity	Mandatory	The class shall be implemented in the <i>Implementation Namespace: root/dcim</i> . See section 0.

Element Name	Requirement	Description
DCIM_CLPServiceAffectsIdentity	Mandatory	The class shall be implemented in the <i>Implementation Namespace: root/dcim</i> . See section 0 and 7.9 .
DCIM_LocalUserAccountManagementService	Mandatory	The class shall be implemented in the <i>Implementation Namespace: root/dcim</i> . See section 0.
DCIM_IPMIAccountManagementService	Mandatory	The class shall be implemented in the <i>Implementation Namespace: root/dcim</i> . See section 7.8.
DCIM_IPMICLPElementCapabilities	Mandatory	The class shall be implemented in the <i>Implementation Namespace: root/dcim</i> . See section 7.8, 7.9 and 7.10.
DCIM_IPMIServiceAffectsIdentity	Mandatory	The class shall be implemented in the <i>Implementation Namespace: root/dcim</i> . See section 7.4, 7.5 and 7.8.
DCIM_CLPAccountManagementService	Mandatory	The class shall be implemented in the <i>Implementation Namespace: root/dcim</i> . See section 7.9.
DCIM_LocalUserAccountManagementCapabilities	Mandatory	The class shall be implemented in the <i>Implementation Namespace: root/dcim</i> . See section 7.10.
DCIM_IPMICLPAccountManagementCapabilities	Mandatory	The class shall be implemented in the <i>Implementation Namespace: root/dcim</i> . See section 7.11.
DCIM_SPHostedSIMPSERVICE	Mandatory	The class shall be implemented in the <i>Implementation Namespace: root/dcim</i> . See section 0, 7.8 and 7.9.
DCIM_ElementConformsToProfile	Mandatory	The class shall be implemented in both the Interop Namespace: root/interop and Implementation Namespace: root/dcim. See section 7.12.
DCIM_RegisteredProfile	Mandatory	The class shall be implemented in the <i>Interop Namespace: root/interop</i> . See section 7.12.
DCIM_LCElementConformsToProfile	Mandatory	The class shall be implemented in both the Interop Namespace: root/interop and Implementation Namespace: root/dcim. See section 7.13.
DCIM_LCRegisteredProfile	Mandatory	The class shall be implemented in the <i>Interop Namespace: root/interop</i> . See section 7.13.

Element Name	Requirement	Description
Indications		
None defined in this profile		

7.1. DCIM_Account - Local Account

This section describes the implementation for the DCIM_Account class describes local RAC account.

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

The DCIM_AccountOnSystem association shall reference DCIM_Account instances and the DCIM_SPComputerSystem instance.

DCIM_AssignedAcctIdent association shall reference DCIM_Account instance and DCIM_LocalUserIdentity, DCIM_LANIdentity, DCIM_SerialIdentity, DCIM_CLPIdentity instances.

DCIM_AccountCapabilities association shall reference DCIM_Account instance and DCIM_EnabledLogicalElementCapabilities instance.

7.1.1. Resource URIs for WinRM®

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

The key property shall be the SystemCreationClassName, SystemName, CreationClassName, and Name.

The instance Resource URI for DCIM_Account instance shall be: "http://schemas.dell.com/wbem/wscim/1/cim-schema/2/DCIM_Account?__cimnamespace=root/dcim+SystemCreationClassName=DCIM_SPComputerSystem+SystemName=s

ystemmc+CreationClassName=DCIM_Account+Name=iDRAC.Embedded.1#Users.<N>"

7.1.2. Operations

The following table lists the operations implemented on DCIM_Account.

Table 3. DCIM_Account - Operations

Operation Name	Requirements	Required Input
Get	Mandatory	Instance URI
Enumerate	Mandatory	Class URI
Set	Mandatory	Instance URI Note: Set operation may modify only the UserID and UserPassword properties.
Invoke	Mandatory	Instance URI

7.1.3. Class Properties

The following table details the implemented properties for DCIM_Account instance representing RAC user account information. There shall be 16 accounts. The "Requirements" column shall denote whether the property is implemented (for requirement definitions, see section 3). The "Additional Requirements" column shall denote either possible values for the property, or requirements on the value formulation.

Table 4. DCIM_Account - Properties

Property Name	Requirements	Type	Additional Requirement
SystemCreationClassName	Mandatory	string	The property value shall be "DCIM_SPComputerSystem".
SystemName	Mandatory	string	The property value shall be "systemmc".

Property Name	Requirements	Type	Additional Requirement
CreationClassName	Mandatory	string	This property value shall be "DCIM_Account".
Name	Mandatory	string	The property value shall be the "iDRAC.Embedded.1#Users.<N>" where <N> is integer from 1 to 16.
UserID	Mandatory	string	The user name shall be a string 16 characters maximum length.
UserPassword[]	Mandatory	string	A blank array if password is configured; NULL when account is not configured/disabled.
OrganizationName[]	Mandatory	string	This property shall have a value of "DCIM".
ElementName	Mandatory	string	This property shall have a value of "DCIM Account".
RequestedState	Mandatory	uint16	This property shall have a value of 0 (Unknown).
EnabledState	Mandatory	uint16	The property value shall be either 2(Enabled) or 3(Disabled) .

7.2. DCIM_EnabledLogicalElementCapabilities – Account Capabilities

This section describes the implementation for the DCIM_EnabledLogicalElementCapabilities class.

DCIM_AccountCapabilities association shall reference DCIM_Account instance and DCIM_EnabledLogicalElementCapabilities instance.

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

7.2.1. Resource URIs for WinRM®

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

The key property shall be the InstanceID.

The instance Resource URI for DCIM_SystemInteger instance shall be:

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

7.2.2. Operations

The following table lists the operations implemented on DCIM_EnabledLogicalElementCapabilities.

Table 5. DCIM_EnabledLogicalElementCapabilities - Operations

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

7.2.3. Class Properties

Table 6. DCIM_EnabledLogicalElementCapabilities - Properties

Property Name	Type	Requirement	Additional Requirement
InstanceID	string	Mandatory	This property shall have a value of "DCIM_EnabledLogicalElementCapabilities:1"

Property Name	Type	Requirement	Additional Requirement
ElementName	string	Mandatory	This property shall have a value of "Account Capabilities"
RequestedStatesSupported[]	uint16	Mandatory	The property value shall be an array of [2(Enabled), 3(Disabled)]
ElementNameEditSupported	boolean	Mandatory	This property shall have a value of FALSE.
MaxElementNameLen	uint16	Mandatory	This property shall have a value of 0.

7.3. DCIM_LocalUserIdentity - Local User's General Security Principal

This section describes the implementation for the DCIM_LocalUserIdentity class.

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

DCIM_AssignedAcctIdent association shall reference DCIM_LocalUserIdentity instance and DCIM_Account instance.

DCIM_LocalUserServiceAffectsIdentity shall reference DCIM_LocalUserIdentity instance and the DCIM_LocalUserAccountManagementService instance.

7.3.1. Resource URIs for WinRM®

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

The key property shall be the InstanceID.

The instance Resource URI for DCIM_SystemEnumeration instance shall be:

"http://schemas.dell.com/wbem/wscim/1/cim-schema/2/

DCIM_LocalUserIdentity?__cimnamespace=root/dcim+InstanceID=DCIM:LocalAccount:Identity:<N>"

7.3.2. Operations

The following table lists the operations implemented on DCIM_LocalUserIdentity.

Table 7. DCIM_LocalUserIdentity - Operations

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

7.3.3. Class Properties

Table 8. DCIM_LocalUserIdentity – Properties

Properties	Type	Requirement	Additional Requirements
InstanceID	string	Mandatory	The property value shall be "DCIM:LocalAccount:Identity:<N>", where <N> is from 1 to 16.
ElementName	String	Mandatory	This property shall have a value of "Local User Identity".

7.4. DCIM_LANIdentity – Local User's IPMI over LAN Security Principal

This section describes the implementation for the DCIM_LANIdentity class.

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

DCIM_AssignedAcctIdent association shall reference DCIM_LANIdentity instance and DCIM_Account instance.

DCIM_IPMIServiceAffectsIdentity shall reference the DCIM_IPMIAccountManagementService instance and DCIM_LANIdentity instance.

7.4.1. Resource URIs for WinRM®

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

The key property shall be the InstanceID.

The instance Resource URI for DCIM_LANIdentity instance shall be:

“http://schemas.dell.com/wbem/wscim/1/cim-schema/2/

DCIM_LANIdentity?__cimnamespace=root/dcim+InstanceID=DCIM:LANUser:Identity:<N>”

7.4.2. Operations

The following table lists the operations implemented on DCIM_LANIdentity.

Table 9. DCIM_LANIdentity - Operations

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

7.4.3. Class Properties

Table 10. DCIM_LANIdentity – Properties

Properties	Type	Requirement	Additional Requirements
InstanceID	string	Mandatory	The property value shall be “DCIM:LANUser:Identity:<N>” where N is 1 to 16.
ElementName	String	Mandatory	This property shall have a value of “LAN Identity”

7.5. DCIM_SerialIdentity – Local User’s IPMI Serial Security Principal

This section describes the implementation for the DCIM_SerialIdentity class.

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

DCIM_AssignedAcctIdent association shall reference DCIM_SerialIdentity instance and DCIM_Account instance.

DCIM_IPMIServiceAffectsIdentity shall reference the DCIM_IPMIAccountManagementService instance and DCIM_SerialIdentity instance.

7.5.1. Resource URIs for WinRM®

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

The key property shall be the InstanceID.

The instance Resource URI for DCIM_SerialIdentity instance shall be:

“http://schemas.dell.com/wbem/wscim/1/cim-schema/2/

DCIM_SerialIdentity?__cimnamespace=root/dcim+InstanceID=DCIM:SerialUser:Identity:<N>”

7.5.2. Operations

The following table lists the operations implemented on DCIM_SerialIdentity.

Table 11. DCIM_SerialIdentity - Operations

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

7.5.3. Class Properties

Table 12. DCIM_SerialIdentity – Properties

Properties	Type	Requirement	Additional Requirements
InstanceID	string	Mandatory	The property value shall be “DCIM:SerialUser:Identity:<N>” where <N> is 1 to 16.
ElementName	string	Mandatory	This property shall have a value of “Serial Identity”

7.6. DCIM_CLPIdentity – Local User’s CLP Security Principal

This section describes the implementation for the DCIM_CLPIdentity class.

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

DCIM_AssignedAcctIdent association shall reference DCIM_CLPIdentity instance and DCIM_Account instance.

DCIM_CLPServiceAffectsIdentity association shall reference DCIM_CLPIdentity instance and the DCIM_CLPAccountManagementService.

7.6.1. Resource URIs for WinRM®

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

The key property shall be the InstanceID.

The instance Resource URI for DCIM_CLPIdentity instance shall be:

“http://schemas.dell.com/wbem/wscim/1/cim-schema/2/

DCIM_CLPIdentity?__cimnamespace=root/dcim+InstanceID=DCIM:CLP:Identity:<N>”

7.6.2. Operations

The following table lists the operations implemented on DCIM_CLPIdentity.

Table 13. DCIM_CLPIdentity - Operations

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

7.6.3. Class Properties

Table 14. DCIM_CLPIdentity – Properties

Properties	Type	Requirement	Additional Requirements
InstanceID	string	Mandatory	The property value shall be “DCIM:CLP:Identity:<N>”, where <N> is 1 to 16.
ElementName	string	Mandatory	This property shall have a value of “CLP Identity”.

7.7. DCIM_LocalUserAccountManagementService - Local User Account Management Service

This section describes the implementation for the DCIM_LocalUserAccountManagementService class.

DCIM_LocalUserElementCapabilities association shall reference the DCIM_LocalUserAccountManagementService and the DCIM_LocalUserAccountManagementCapabilities instance.

DCIM_LocalUserServiceAffectsIdentity association shall reference DCIM_LocalUserIdentity instance and the DCIM_LocalUserAccountManagementService instance.

DCIM_SPHostedSIMPSERVICE association shall reference the DCIM_LocalUserAccountManagementService instance and the DCIM_SPComputerSystem.

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

7.7.1. Resource URIs for WinRM®

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

The key property shall be the SystemCreationClassName, SystemName, CreationClassName, and Name.

The instance Resource URI for DCIM_LocalUserAccountManagementService instance shall be:

"http://schemas.dell.com/wbem/wscim/1/cim-schema/2/DCIM_LocalUserAccountManagementService?__cimnamespace=root/dcim+SystemCreationClassName=DCIM_SPComputerSystem+SystemName=systemmc+CreationClassName=DCIM_LocalUserAccountManagementService+Name=DCIM:LocalUserAccountManagementService"

7.7.2. Operations

The following table lists the operations implemented on DCIM_LocalUserAccountManagementService.

Table 15. DCIM_LocalUserAccountManagementService - Operations

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

7.7.3. Class Properties

The following table details the implemented properties for DCIM_LocalUserAccountManagementService instance representing. The "Requirements" column shall denote whether the property is implemented (for requirement definitions, see section 3). The "Additional Requirements" column shall denote either possible values for the property, or requirements on the value formulation.

Table 16. DCIM_LocalUserAccountManagementService - Properties

Property Name	Type	Requirements	Additional Requirement
SystemCreationClassName	string	Mandatory	The property value shall be "DCIM_SPComputerSystem".
SystemName	string	Mandatory	The property value shall be "systemmc".
CreationClassName	string	Mandatory	The property value shall be "DCIM:LocalUserAccountManagementService".
Name	string	Mandatory	The property value shall be "DCIM LocalUserAccountManagementService".

Property Name	Type	Requirements	Additional Requirement
RequestedState	uint16	Mandatory	This property value shall be 12 (not applicable).
EnabledState	uint16	Mandatory	This property value shall be 2 (Enabled).
ElementName	string	Mandatory	The property value shall be "Local User Account Management Service ".
CurrentAuthenticationMethod	uint16	Mandatory	The property shall represent the local authentication methodologies used: • 0 - "Normal , • 1 - "SmartCard without CRL", • 2 - "SmartCard with CRL", • 3 - "biometrics without CRL", • 4 - "biometrics with CRL"

7.8. DCIM_IPMIAccountManagementService - IPMI Account Management Service

This section describes the implementation for the DCIM_IPMIAccountManagementService class.

DCIM_IPMICLPElementCapabilities association shall reference the DCIM_IPMIAccountManagementService instance and the DCIM_IPMICLPAccountMangementCapabilities instance.

DCIM_IPMIServiceAffectsIdentity association shall reference the DCIM_IPMIAccountManagementService instance and DCIM_LANIdentity, DCIM_SerialIdentity instances.

DCIM_SPHostedSIMPSERVICE association shall reference the DCIM_IPMIAccountManagementService instance and the DCIM_SPComputerSystem.

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

7.8.1. Resource URIs for WinRM®

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

The key property shall be the SystemCreationClassName, SystemName, CreationClassName, and Name.

The instance Resource URI for DCIM_IPMIAccountManagementService instance shall be:

"http://schemas.dell.com/wbem/wscim/1/cim-schema/2/

DCIM_IPMIAccountManagementService?__cimnamespace=root/dcim+SystemCreationClassName=DCIM_SPCo
mputerSystem+SystemName=systemmc+CreationClassName=DCIM_IPMIAccountManagementService+Name=
DCIM IPMIAccountManagementService"

7.8.2. Operations

The following table lists the operations implemented on DCIM_IPMIAccountManagementService.

Table 17. DCIM_IPMIAccountManagementService - Operations

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

7.8.3. Class Properties

The following table details the implemented properties for DCIM_IPMIAccountManagementService instance representing. The “Requirements” column shall denote whether the property is implemented (for requirement definitions, see section 3). The “Additional Requirements” column shall denote either possible values for the property, or requirements on the value formulation.

Table 18. DCIM_IPMIAccountManagementService - Properties

Property Name	Type	Requirements	Additional Requirement
SystemCreationClassName	string	Mandatory	The property value shall be “DCIM_SPCoordinateSystem”.
SystemName	string	Mandatory	The property value shall be “systemmc”.
CreationClassName	string	Mandatory	The property value shall be “DCIM_IPMIAccountManagementService”.
Name	string	Mandatory	The property value shall be “DCIM_IPMIAccountManagementService”.
RequestedState	uint16	Mandatory	This property value shall be 12 (not applicable).
EnabledState	uint16	Mandatory	The property value shall be 2 (Enabled).
ElementName	string	Mandatory	The property value shall be “IPMI Account Management Service”.

7.9. DCIM_CLPAccountManagementService - CLP Account Management Service

This section describes the implementation for the DCIM_CLPAccountManagementService class.

DCIM_IPMICLPElementCapabilities shall reference the DCIM_CLPAccountManagementService instance and the DCIM_IPMICLPAccountManagementCapabilities instance.

DCIM_CLPServiceAffectsIdentity association shall reference DCIM_CLPIdentity instance and the DCIM_CLPAccountManagementService.

DCIM_SPHostedSIMPSERVICE association shall reference the DCIM_CLPAccountManagementService instance and the DCIM_SPCoordinateSystem.

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

7.9.1. Resource URIs for WinRM®

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

The key property shall be the SystemCreationClassName, SystemName, CreationClassName, and Name.

The instance Resource URI for CLPAccountManagementService instance shall be:

“http://schemas.dell.com/wbem/wscim/1/cim-schema/2/ DCIM_CLPAccountManagementService?__cimnamespace=root/dcim+SystemCreationClassName=DCIM_SPCoordinateSystem+SystemName=systemmc+CreationClassName=DCIM_CLPAccountManagementService+Name=DCIM CLPAccountManagementService”

7.9.2. Operations

The following table lists the operations implemented on DCIM_CLPAccountManagementService.

Table 19. DCIM_CLPAccountManagementService - Operations

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

7.9.3. Class Properties

The following table details the implemented properties for DCIM_CLPAccountManagementService instance. The "Requirements" column shall denote whether the property is implemented (for requirement definitions, see section 3). The "Additional Requirements" column shall denote either possible values for the property, or requirements on the value formulation.

Table 20. DCIM_CLPAccountManagementService - Properties

Property Name	Type	Requirements	Additional Requirement
SystemCreationClassName	string	Mandatory	The property value shall be "DCIM_SPCComputerSystem"
SystemName	string	Mandatory	The property value shall be "systemmc"
CreationClassName	string	Mandatory	The property value shall be "DCIM_CLPAccountManagementService"
Name	string	Mandatory	The property value shall be "DCIM CLPAccountManagementService"
RequestedState	uint16	Mandatory	This property value shall be 12 (not applicable)
EnabledState	uint16	Mandatory	This property value shall be 2 (Enabled)
ElementName	string	Mandatory	This property value shall be "CLP Account Management Service "

7.10. DCIM_LocalUserAccountManagementCapabilities - Local User Account Management Capabilities

This section describes the implementation for the DCIM_LocalUserAccountManagementCapabilities class.

DCIM_LocalUserElementCapabilities association shall reference the DCIM_LocalUserAccountManagementService and the DCIM_LocalUserAccountManagementCapabilities instance.

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

7.10.1. Resource URIs for WinRM®

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

The key property shall be the InstanceID.

The instance Resource URI for DCIM_LocalUserAccountManagementCapabilities instance shall be:

"http://schemas.dell.com/wbem/wscim/1/cim-schema/2/DCIM_LocalUserAccountManagementCapabilities?__cimnamespace=root/dcim+InstanceID=DCIM:LocalUserAccountManagementCapabilities:1"

7.10.2. Operations

The following table lists the operations implemented on DCIM_LocalUserAccountManagementCapabilities.

Table 21. DCIM_LocalUserAccountManagementCapabilities - Operations

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

7.10.3. Class Properties

Table 22. DCIM_LocalUserAccountManagementCapabilities - Properties

Property Name	Type	Requirement	Additional Requirements
InstanceID	string	Mandatory	This property shall have a value of "DCIM:LocalUserAccountManagementCapabilities:1"
ElementName	string	Mandatory	This property shall have a value of "Local User Account Management Capabilities"
OperationsSupported[]	uint16	Mandatory	This property shall have a value of 3 (Modify)
ElementNameEditSupported	boolean	Mandatory	This property shall have a value of FALSE
MaxElementNameLen	uint16	Mandatory	This property shall have a value of 0
SupportedAuthenticationMethod	uint16	Mandatory	The property shall represent the local authentication methodology available: • 0 - "Normal , • 1 - "SmartCard without CRL", • 2 - "SmartCard with CRL", • 3 - "biometrics without CRL", • 4 - "biometrics with CRL"

7.11. DCIM_IPMICLPAccountMangementCapabilities - IPMI/CLIP Account Management Capabilities

This section describes the implementation for the DCIM_IPMICLPAccountMangementCapabilities class.

DCIM_IPMICLPElementCapabilities shall reference DCIM_IPMICLPAccountMangementCapabilities instance and the DCIM_CLPAccountManagementService, DCIM_IPMIAccountManagementService instances.

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

7.11.1. Resource URIs for WinRM®

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

The key property shall be the InstanceID.

The instance Resource URI for DCIM_IPMICLPAccountMangementCapabilities instance shall be:

"http://schemas.dell.com/wbem/wscim/1/cim-schema/2/DCIM_IPMICLPAccountMangementCapabilities?__cimnamespace=root/dcim+InstanceID=DCIM:IPMICLPAccountManagementCapabilities:1"

7.11.2. Operations

The following table lists the operations implemented on DCIM_IPMICLPAccountMangementCapabilities.

Table 23. DCIM_IPMICLPAccountMangementCapabilities - Operations

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

7.11.3. Class Properties

Table 24. DCIM_IPMICLPAccountMangementCapabilities - Properties

Property Name	Type	Requirement	Requirement
InstanceID	string	Mandatory	The property value be "DCIM:IPMICLPAccountManagementCapabilities:1"
ElementName	string	Mandatory	The property value shall be of "IPMI/CLP Account Mangement Capabilities".
OperationsSupported[]	uint16	Mandatory	The property array shall contain value 3 (Modify).
ElementNameEditSupported	boolean	Mandatory	This property value shall be FALSE.
MaxElementNameLen	uint16	Mandatory	This property value shall be 0.

7.12. DCIM_RegisteredProfile - DMTF Simple Identity Management Profile Registration

This section describes the implementation for the DCIM_RegisteredProfile class.

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

The DCIM_ElementConformsToProfile shall reference the DCIM_RegisteredProfile instance.

7.12.1. Resource URIs for WinRM®

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

The key property shall be the InstanceID property.

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

7.12.2. Operations

The following table lists the operations implemented on for DCIM_RegisteredProfile.

Table 25. DCIM_RegisteredProfile - Operations

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

7.12.3. Class Properties

The following table details the implemented properties for DCIM_RegisteredProfile instance representing Simple Identity Management Profile implementation. The "Requirements" column shall denote whether the property is

implemented (for requirement definitions, see section 3). The “Additional Requirements” column shall denote either possible values for the property, or requirements on the value formulation.

Table 26. DCIM_RegisteredProfile

Property Name	Type	Requirement	Additional Requirements
InstanceID	string	Mandatory	DCIM:SimpleIdentityRegisteredProfile:1
RegisteredName	string	Mandatory	This property shall have a value of "Simple Identity Management".
RegisteredVersion	string	Mandatory	This property shall have a value of "1.0.0".
RegisteredOrganization	uint16	Mandatory	This property shall have a value of 2(DMTF).
AdvertiseTypes[]	uint16	Mandatory	The property array shall have value [1 (Other), 1 (Other)].
AdvertiseTypeDescriptions[]	string	Mandatory	The property array shall have value ["WS-Identify", "Interop Namespace"]

7.13. DCIM_LCRegisteredProfile - DCIM Simple Identity Management Profile Registration

This section describes the implementation for the DCIM_LCRegisteredProfile class.

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

The DCIM_LCElementConformsToProfile association shall reference the DCIM_LCRegisteredProfile instance.

7.13.1. Resource URIs for WinRM®

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

The key property shall be the InstanceID property.

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

7.13.2. Operations

The following table lists the operations implemented on for DCIM_LCRegisteredProfile.

Table 27. DCIM_LCRegisteredProfile - Operations

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

7.13.3. Class Properties

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

Table 28. DCIM_LCRegisteredProfile

Property Name	Type	Requirement	Additional Requirements
InstanceID	string	Mandatory	DCIM:SimpleIdentityManagement:1.0.0
RegisteredName	string	Mandatory	This property value shall be "Simple Identity Management".
RegisteredVersion	string	Mandatory	This property value shall be "1.0.0".
RegisteredOrganization	uint16	Mandatory	This property value shall be 1(Other)
OtherRegisteredOrganization	string	Mandatory	This property value shall be "DCIM"
AdvertiseTypes[]	uint16	Mandatory	The property array shall have value [1 (Other), 1 (Other)].
AdvertiseTypeDescriptions[]	string	Mandatory	The property array shall have value ["WS-Identify", "Interop Namespace"]
ProfileRequireLicense[]	string	Mandatory	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[]	string	Mandatory	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.

8. Methods

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

8.1. DCIM_Account.RequestStateChange()

The RequestStateChange() method shall be used to enable/disable the account represented by the DCIM_Account instance.

Return code values for the RequestStateChange() method are specified in Table 29 and parameters are specified in Table 30. Invoking the RequestStateChange() method multiple times can result in the earlier requests being overwritten or lost.

Table 29. DCIM_Account.RequestStateChange()Method: Return Code Values

Value	Description
0	Request was successfully executed.
2	Error occurred

Table 30. DCIM_Account.RequestStateChange() Method: Parameters

Qualifiers	Name	Type	Description/Values
IN, REQ	RequestedState	uint16	Valid state values: 2 (Enabled) 3 (Disabled)
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 31. DCIM_Account.RequestStateChange() Method: Standard Messages

MessageID (OUT parameter)	Message	MessageArguments[]
USR102	Invalid parameter value for <parameter>	RequestedState
USR103	Missing parameter(s) <parameter>	RequestedState
USR104	The command failed	
USR105	The account is not configured	

9. Use Cases

See Lifecycle Controller (LC) Integration Best Practices Guide.

10. CIM Elements

No additional details specified.

11. Privilege and License Requirement

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

Table 32. Privilege and License Requirements

Class and Method	Operation	User Privilege Required	Required License
DCIM_Account	ENUMERATE, GET	Login	None.
DCIM_Account.RequestStateChange()	INVOKE	Login, Configure Users	None.
DCIM_Account	SET	Login, Configure Users	None.
DCIM_AccountCapabilities	ENUMERATE, GET	Login	None.
DCIM_AccountOnSystem	ENUMERATE, GET	Login	None.
DCIM_AssignedAcctIdent	ENUMERATE, GET	Login	None.
DCIM_EnabledLogicalElementCapabilities	ENUMERATE, GET	Login	None.
DCIM_LocalUserElementCapabilities	ENUMERATE, GET	Login	None.
DCIM_LocalUserIdentity	ENUMERATE, GET	Login	None.
DCIM_LocalUserServiceAffectsIdentity	ENUMERATE, GET	Login	None.
DCIM_LANIdentity	ENUMERATE, GET	Login	None.

Class and Method	Operation	User Privilege Required	Required License
DCIM_SerialIdentity	ENUMERATE, GET	Login	None.
DCIM_CLPIdentity	ENUMERATE, GET	Login	None.
DCIM_CLPServiceAffectsIdentity	ENUMERATE, GET	Login	None.
DCIM_LocalUserAccountManagementService	ENUMERATE, GET	Login	None.
DCIM_IPMIAccountManagementService	ENUMERATE, GET	Login	None.
DCIM_IPMICLPElementCapabilities	ENUMERATE, GET	Login	None.
DCIM_IPMIServiceAffectsIdentity	ENUMERATE, GET	Login	None.
DCIM_CLPAccountManagementService	ENUMERATE, GET	Login	None.
DCIM_LocalUserAccountManagementCapabilities	ENUMERATE, GET	Login	None.
DCIM_IPMICLPAccountManagementCapabilities	ENUMERATE, GET	Login	None.
DCIM_SPHostedSIMPSERVICE	ENUMERATE, GET	Login	None.
DCIM_ElementConformsToProfile	ENUMERATE, GET	Login	None.
DCIM_RegisteredProfile	ENUMERATE, GET	Login	None.
DCIM_LCElementConformsToProfile	ENUMERATE, GET	Login	None.
DCIM_LCRegisteredProfile	ENUMERATE, GET	Login	None.