1 # Simple Identity

2 # 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:

  o   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

175   o   DCIM_ElementConformsToProfile.mof
176   o   DCIM_RegisteredProfile.mof
177   o   DCIM_LCElementConformsToProfile.mof
178   o   DCIM_LCRegisteredProfile.mof

3   Terms and Definitions

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

3.1
182   **can** - Used for statements of possibility and capability, whether material, physical, or causal.

3.2
184   **cannot -** Used for statements of possibility and capability, whether material, physical, or causal.

3.3
186   **conditional -** Indicates requirements to be followed strictly in order to conform to the document when the
187   specified conditions are met.

3.4
189   **mandatory -** Indicates requirements to be followed strictly in order to conform to the document and from
190   which no deviation is permitted.

3.5
192   **may -** Indicates a course of action permissible within the limits of the document.

3.6
194   **need not -** Indicates a course of action permissible within the limits of the document.

3.7
196   **optional -** Indicates a course of action permissible within the limits of the document.

3.8
198   **referencing profile -** Indicates a profile that owns the definition of this class and can include a reference
199   to this profile in its "Related Profiles" table.

3.9
201   **shall -** Indicates requirements to be followed strictly in order to conform to the document and from which
202   no deviation is permitted

3.10
204   **shall not** – Indicates requirements to be followed strictly in order to conform to the document and from
205   which no deviation is permitted.

3.11
207   **should** – Indicates that among several possibilities, one is recommended as particularly suitable, without
208   mentioning or excluding others, or that a certain course of action is preferred but not necessarily required.

209 **3.12**

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

211 **3.13**

212 **Interop Namespace: root/interop**

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

215 **3.14**

216 **Implementation Namespace: root/dcim**

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

219 **3.15**

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

222 **3.16**

223 GET – Refers to WS-MAN GET operation as defined in Section 7.3 of DSP00226_V1.1 and Section
224 7.1 of DSP0227_V1.0

225

226 **4 Symbols and Abbreviated Terms**

227 **4.1**
228 **CIM** - Common Information Model

229 **4.2**
230 **iDRAC -** integrated Dell Remote Access Controller – management controller for blades and monolithic
231 servers

232 **4.3**
233 **CMC -** Chassis Manager Controller – management controller for the modular chassis

234 **4.4**
235 **RAC -** Remote Access Controller – management controller or service processor
236

237 **5 Synopsis**

238 **Profile Name:** System Info

239 **Version:** 1.0.0

240 **Organization:** Dell

241 **CIM Schema Version:** 2.26 Experimental

242 **Dell Schema Version:** 1.0.0

243 **Interop Namespace:** root/interop

244 **Implementation Namespace:** root/dcim

245 **Central Class:** DCIM_LocalUserAccountManagementService, DCIM_IPMIAccountManagementService,
246 and DCIM_CLPAccountManagementService

247 **Scoping Class:** DCIM_ComputerSystem

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

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

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

253 **Table 1 – Related Profiles**

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

254 **6 Description**

255 The Dell Simple Identity Management Profile describes platform's user account properties and
256 management information. The user account information is represented by an instance of DCIM_Account
257 class.

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

259

261 **Figure 1 – Class Diagram**

262 Figure 2 and Figure 3 detail typical Dell Simple Identity Management Profile implementation for RAC user
263 accounts. For the client to discover the instrumentation RBAHostedService

264 's support of this profile, SimpleIdentityManagementProfile is instantiated in the Implementation
265 Namespace: root/dcim. SimpleIdentityManagementProfile describes the information about the
266 implemented profile: most importantly, the name and version of the profile and the organization name that
267 produced the profile.

268

269
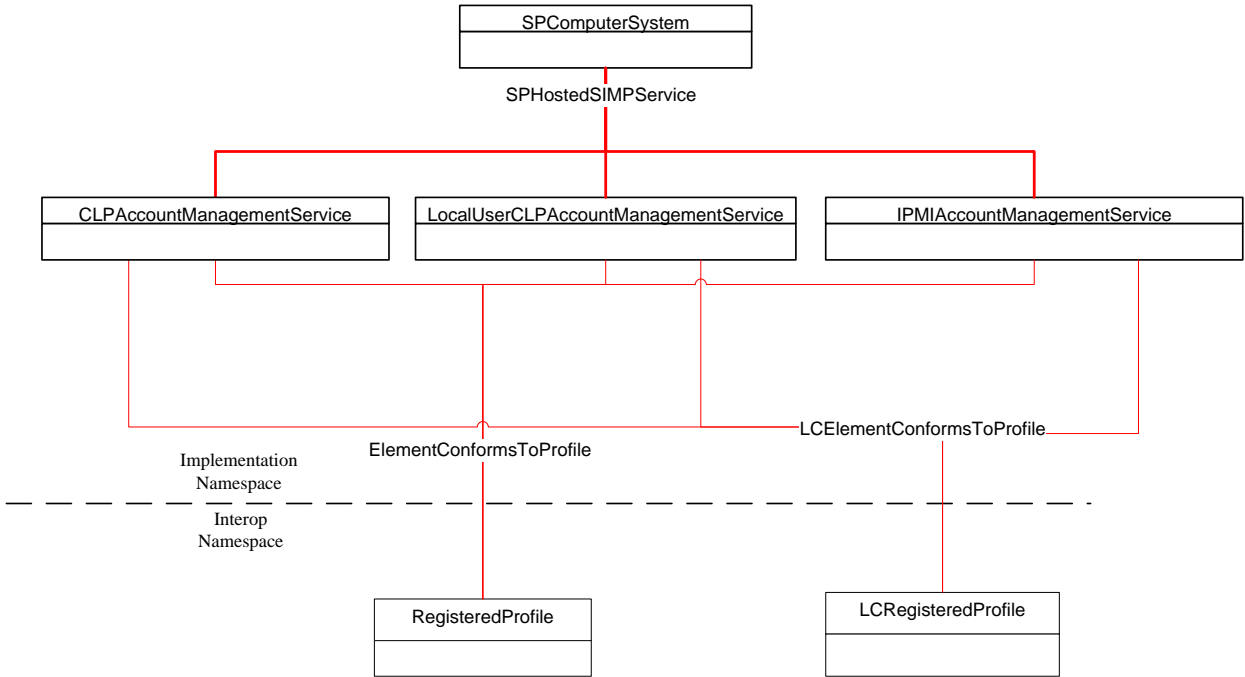
270 **Figure 2 – Simple Identity Management Profile**

271

272   **Figure 3 – Simple Identity Management Profile Implementation**

273 **7** **Implementation Description**

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

276 **Table 2 – Class Requirements: Simple Identity Management Profile**

Element Name	Requirement	Description
Classes		
DCIM_Account	Mandatory	The class shall be implemented in the *Implementation Namespace: root/dcim.* See section 7.1.
DCIM_AccountCapabilities	Mandatory	The class shall be implemented in the *Implementation Namespace: root/dcim.* See section 7.1 and 7.2.
DCIM_AccountOnSystem	Mandatory	The class shall be implemented in the *Implementation Namespace: root/dcim.* See section 7.1.
DCIM_AssignedAcctIdent	Mandatory	The class shall be implemented in the *Implementation Namespace: root/dcim.* See section 7.1, 7.3, 7.4, 7.5and 7.6.
DCIM_EnabledLogicalElementCapabilities	Mandatory	The class shall be implemented in the *Implementation Namespace: root/dcim.* See section 7.2.
DCIM_LocalUserElementCapabilities	Mandatory	The class shall be implemented in the *Implementation Namespace: root/dcim.* See section 7.1 and 7.10.
DCIM_LocalUserIdentity	Mandatory	The class shall be implemented in the *Implementation Namespace: root/dcim.* See section7.3.
DCIM_LocalUserServiceAffectsIdentity	Mandatory	The class shall be implemented in the *Implementation Namespace: root/dcim.* See section7.3 and 7.7.
DCIM_LANIdentity	Mandatory	The class shall be implemented in the *Implementation Namespace: root/dcim.* See section 7.4.
DCIM_SerialIdentity	Mandatory	The class shall be implemented in the *Implementation Namespace: root/dcim.* See section 7.5.
DCIM_CLPIdentity	Mandatory	The class shall be implemented in the *Implementation Namespace: root/dcim.* See section7.6.
DCIM_CLPServiceAffectsIdentity	Mandatory	The class shall be implemented in the *Implementation Namespace: root/dcim.* See section7.6 and 7.9 .
DCIM_LocalUserAccountManagementService	Mandatory	The class shall be implemented in the *Implementation Namespace: root/dcim.* See section 7.7.
DCIM_IPMIAccountManagementService	Mandatory	The class shall be implemented in the *Implementation Namespace: root/dcim.* See section 7.8.

Element Name	Requirement	Description
DCIM_IPMICLPElementCapabilities	Mandatory	The class shall be implemented in the *Implementation Namespace: root/dcim*. See section 7.8, 7.9 and 7.10.
DCIM_IPMIServiceAffectsIdentity	Mandatory	The class shall be implemented in the *Implementation Namespace: root/dcim*. See section 7.4, 7.5 and 7.8.
DCIM_CLPAccountManagementService	Mandatory	The class shall be implemented in the *Implementation Namespace: root/dcim*. See section 7.9.
DCIM_LocalUserAccountManagementCapabilities	Mandatory	The class shall be implemented in the *Implementation Namespace: root/dcim*. See section 7.10.
DCIM_IPMICLPAccountManagementCapabilities	Mandatory	The class shall be implemented in the *Implementation Namespace: root/dcim*. See section7.11.
DCIM_SPHostedSIMPService	Mandatory	The class shall be implemented in the *Implementation Namespace: root/dcim*. See section 7.7, 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 *Interop Namespace*: *root/interop*. 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 *Interop Namespace*: *root/interop*. See section 7.13.
Indications		
None defined in this profile		

277

7.1 DCIM_Account - Local Account

278

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

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

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

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

285 DCIM_AccountCapabilities association shall reference DCIM_Account instance and
286 DCIM_EnabledLogicalElementCapabilities instance.

7.1.1 Resource URIs for WinRM®

287

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

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

292 The instance Resource URI for DCIM_ Account instance shall be:
293 "http://schemas.dell.com/wbem/wscim/1/cim-schema/2/DCIM_
294 Account?__cimnamespace=root/dcim+SystemCreationClassName=DCIM_SPComputerSystem+System
295 Name=systemmc+CreationClassName=DCIM_Account+Name=iDRAC.Embedded.1#Users.<N>"

7.1.2 Operations

296

297 The following table lists the operations implemented on DCIM_ Account.

298 **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

299

300 The following table details the implemented properties for DCIM_Account instance representing RAC
301 user account information. There shall be 16 accounts. The "Requirements" column shall denote whether
302 the property is implemented (for requirement definitions, see section 3). The "Additional Requirements"
303 column shall denote either possible values for the property, or requirements on the value formulation.
304

305   **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".
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) .

306 ## 7.2   DCIM_EnabledLogicalElementCapabilities – Account Capabilities

307 This section describes the implementation for the DCIM_EnabledLogicalElementCapabilities class.

308 DCIM_AccountCapabilities association shall reference DCIM_Account instance and
309 DCIM_EnabledLogicalElementCapabilities instance.

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

311 ### 7.2.1   Resource URIs for WinRM®

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

314 The key property shall be the InstanceID.

315 The instance Resource URI for DCIM_SystemInteger instance shall be:
316 "http://schemas.dell.com/wbem/wscim/1/cim-
317 schema/2/DCIM_EnabledLogicalElementCapabilities?__cimnamespace=root/dcim+InstanceID=DCIM_Enabl
318 edLogicalElementCapabilities:1"

319 ### 7.2.2   Operations

320 The following table lists the operations implemented on DCIM_EnabledLogicalElementCapabilities.

321   **Table 5 – DCIM_EnabledLogicalElementCapabilities - Operations**

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

322

323 ### 7.2.3 Class Properties

324 **Table 6 – DCIM_EnabledLogicalElementCapabilities - Properties**

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

325 ## 7.3 DCIM_LocalUserIdentity - Local User's General Security Principal

326 This section describes the implementation for the DCIM_LocalUserIdentity class.

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

328 DCIM_AssignedAcctIdent association shall reference DCIM_LocalUserIdentity instance and DCIM_Account
329 instance.

330 DCIM_LocalUserServiceAffectsIdentity shall reference DCIM_LocalUserIdentity instance and the
331 DCIM_LocalUserAccountManagementService instance.

332 ### 7.3.1 Resource URIs for WinRM®

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

335 The key property shall be the InstanceID.

336 The instance Resource URI for DCIM_ SystemEnumeration instance shall be:
337 "http://schemas.dell.com/wbem/wscim/1/cim-schema/2/
338 DCIM_LocalUserIdentity?__cimnamespace=root/dcim+InstanceID=DCIM:LocalAccount:Identity:<N>"

339 ### 7.3.2 Operations

340 The following table lists the operations implemented on DCIM_LocalUserIdentity.

341 **Table 7 – DCIM_LocalUserIdentity - Operations**

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

342

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

346 This section describes the implementation for the DCIM_LANIdentity class.

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

348 DCIM_AssignedAcctIdent association shall reference DCIM_LANIdentity instance and DCIM_Account
349 instance.

350 DCIM_IPMIServiceAffectsIdentity shall reference the DCIM_IPMIAccountManagementService instance and
351 DCIM_LANIdentity instance.

7.4.1 Resource URIs for WinRM®

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

355 The key property shall be the InstanceID.

356 The instance Resource URI for DCIM_LANIdentity instance shall be:
357 "http://schemas.dell.com/wbem/wscim/1/cim-schema/2/
358 DCIM_LANIdentity?__cimnamespace=root/dcim+InstanceID=DCIM:LANUser:Identity:<N>"

7.4.2 Operations

360 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"

364

7.5 DCIM_SerialIdentity – Local User's IPMI Serial Security Principal

366 This section describes the implementation for the DCIM_SerialIdentity class.

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

368 DCIM_AssignedAcctIdent association shall reference DCIM_SerialIdentity instance and DCIM_Account
369 instance.

370 DCIM_IPMIServiceAffectsIdentity shall reference the DCIM_IPMIAccountManagementService instance and
371 DCIM_SerialIdentity instance.

7.5.1 Resource URIs for WinRM®

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

375 The key property shall be the InstanceID.

376 The instance Resource URI for DCIM_SerialIdentity instance shall be:
377 "http://schemas.dell.com/wbem/wscim/1/cim-schema/2/
378 DCIM_SerialIdentity?__cimnamespace=root/dcim+InstanceID=DCIM:SerialUser:Identity:<N>"

7.5.2 Operations

380 The following table lists the operations implemented on DCIM_SerialIdentity.

381 **Table 11 – DCIM_SerialIdentity - Operations**

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

7.5.3 Class Properties

383 **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"

384

385

386 ## 7.6 DCIM_CLPIdentity – Local User's CLP Security Principal

387 This section describes the implementation for the DCIM_CLPIdentity class.

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

389 DCIM_AssignedAcctIdent association shall reference DCIM_CLPIdentity instance and DCIM_Account
390 instance.

391 DCIM_CLPServiceAffectsIdentity association shall reference DCIM_CLPIdentity instance and the
392 DCIM_CLPAccountManagementService.

393 ### 7.6.1 Resource URIs for WinRM®

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

396 The key property shall be the InstanceID.

397 The instance Resource URI for DCIM_CLPIdentity instance shall be:
398 "http://schemas.dell.com/wbem/wscim/1/cim-schema/2/
399 DCIM_CLPIdentity?__cimnamespace=root/dcim+InstanceID=DCIM:CLP:Identity:<N>"

400 ### 7.6.2 Operations

401 The following table lists the operations implemented on DCIM_CLPIdentity.

402 **Table 13 – DCIM_CLPIdentity - Operations**

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

403

404 ### 7.6.3 Class Properties

405 **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".

406

407

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".

Property Name	Type	Requirements	Additional Requirement
Name	string	Mandatory	The property value shall be "DCIM LocalUserAccountManagementService".
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=DCI
M_SPComputerSystem+SystemName=systemmc+CreationClassName=DCIM_IPMIAccountManagemen
tService+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

462 **7.8.3 Class Properties**

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

467 **Table 18 – DCIM_IPMIAccountManagementService - 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_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 ".

468 **7.9 DCIM_CLPAccountManagementService - CLP Account Management**
469 **Service**

470 This section describes the implementation for the DCIM_CLPAccountManagementService class.

471 DCIM_IPMICLPElementCapabilities shall reference the DCIM_CLPAccountManagementService instance and
472 the DCIM_IPMICLPAccountMangementCapabilities instance.

473 DCIM_CLPServiceAffectsIdentity association shall reference DCIM_CLPIdentity instance and the
474 DCIM_CLPAccountManagementService.

475 DCIM_SPHostedSIMPService association shall reference the DCIM_CLPAccountManagementService
476 instance and the DCIM_SPComputerSystem.

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

478 **7.9.1 Resource URIs for WinRM®**

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

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

483 The instance Resource URI for CLPAccountManagementService instance shall be:
484 "http://schemas.dell.com/wbem/wscim/1/cim-schema/2/ DCIM_
485 CLPAccountManagementService?__cimnamespace=root/dcim+SystemCreationClassName=DCIM_SPC
486 omputerSystem+SystemName=systemmc+CreationClassName=DCIM_CLPAccountManagementService
487 +Name=DCIM CLPAccountManagementService"

488 **7.9.2 Operations**

489 The following table lists the operations implemented on DCIM_CLPAccountManagementService.

490 **Table 19 – DCIM_CLPAccountManagementService - Operations**

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

491 ### 7.9.3 Class Properties

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

496 **Table 20 – DCIM_CLPAccountManagementService - 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_CLPAccountManagementService"
Name	string	Mandatory	The property value shall be "DCIM CLPAccountManagementService"
RequestedState	uint16	Mandatory	This property value shall be12 (not applicable)
EnabledState	uint16	Mandatory	This property value shall be 2 (Enabled)
ElementName	string	Mandatory	This property value shall be "CLP Account Management Service "

497 ## 7.10 DCIM_LocalUserAccountMangementCapabilities - Local User Account
498 Management Capabilities

499 This section describes the implementation for the DCIM_LocalUserAccountMangementCapabilities class.

500 DCIM_LocalUserElementCapabilities association shall reference the
501 DCIM_LocalUserAccountManagementService and the DCIM_LocalUserAccountManagementCapabilities
502 instance.

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

504 ### 7.10.1 Resource URIs for WinRM®

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

507 The key property shall be the InstanceID.

508 The instance Resource URI for DCIM_LocalUserAccountMangementCapabilities instance shall be:
509 "http://schemas.dell.com/wbem/wscim/1/cim-
510 schema/2/DCIM_LocalUserAccountMangementCapabilities?__cimnamespace=root/dcim+InstanceID=DC
511 IM:LocalUserAccountMangementCapabilities:1"

512 ### 7.10.2 Operations

513 The following table lists the operations implemented on DCIM_LocalUserAccountMangementCapabilities.

514 **Table 21 – DCIM_LocalUserAccountMangementCapabilities - Operations**

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

515 **7.10.3 Class Properties**

516 **Table 22 – DCIM_LocalUserAccountMangementCapabilities - Properties**

517

Property Name	Type	Requirement	Additional Requirements
InstanceID	string	Mandatory	This property shall have a value of " DCIM:LocalUserAccountMangementCapabilities: 1"
ElementName	string	Mandatory	This property shall have a value of " Local User Account Mangement 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"

518 ## 7.11 DCIM_IPMICLPAccountMangementCapabilities - IPMI/CLIP Account
519 ## Management Capabilities

520 This section describes the implementation for the DCIM_IPMICLPAccountMangementCapabilities class.

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

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

524 **7.11.1 Resource URIs for WinRM®**

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

527 The key property shall be the InstanceID.

528 The instance Resource URI for DCIM_IPMICLPAccountMangementCapabilities instance shall be:
529 "http://schemas.dell.com/wbem/wscim/1/cim-
530 schema/2/DCIM_IPMICLPAccountMangementCapabilities?__cimnamespace=root/dcim+InstanceID=DCI
531 M:IPMICLPAccountManagementCapabilities:1"

532

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 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

554

7.12.3 Class Properties

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

560 **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 Profile Registration

563 This section describes the implementation for the DCIM_LCRegisteredProfile class.

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

565 The DCIM_LCElementConformsToProfile association shall reference the DCIM_LCRegisteredProfile
566 instance.

7.13.1 Resource URIs for WinRM®

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

570 The key property shall be the InstanceID property.

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

7.13.2 Operations

575 The following table lists the operations implemented on for DCIM_LCRegisteredProfile.

576 **Table 27 – DCIM_LCRegisteredProfile - Operations**

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

577

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.

Value	Description
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	

600 **9 Use Cases**

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

602 **10 CIM Elements**

603 No additional details specified.

604

605

606

607

608

11 Privilege and License Requirement

609

610 The following table describes the privilege and license requirements for the listed operations. For the
611 detailed explanation of the privileges and licenses, refer to the Dell WSMAN Licenses and Privileges
612 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.
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.