

2

3

4

Document Number: DSP0811

Date: 2009-06-04

Version: 1.0.0

Simple Identity Management Profile SM CLP

Command Mapping Specification

Document Type: Specification 7

8 **Document Status: DMTF Standard**

9 **Document Language: E**

11

- Copyright notice
- 12 Copyright © 2006, 2009 Distributed Management Task Force, Inc. (DMTF). All rights reserved.
- 13 DMTF is a not-for-profit association of industry members dedicated to promoting enterprise and systems
- 14 management and interoperability. Members and non-members may reproduce DMTF specifications and
- documents, provided that correct attribution is given. As DMTF specifications may be revised from time to
- time, the particular version and release date should always be noted.
- 17 Implementation of certain elements of this standard or proposed standard may be subject to third party
- 18 patent rights, including provisional patent rights (herein "patent rights"). DMTF makes no representations
- 19 to users of the standard as to the existence of such rights, and is not responsible to recognize, disclose,
- 20 or identify any or all such third party patent right, owners or claimants, nor for any incomplete or
- 21 inaccurate identification or disclosure of such rights, owners or claimants. DMTF shall have no liability to
- any party, in any manner or circumstance, under any legal theory whatsoever, for failure to recognize,
- disclose, or identify any such third party patent rights, or for such party's reliance on the standard or
- 24 incorporation thereof in its product, protocols or testing procedures. DMTF shall have no liability to any
- party implementing such standard, whether such implementation is foreseeable or not, nor to any patent
- owner or claimant, and shall have no liability or responsibility for costs or losses incurred if a standard is
- withdrawn or modified after publication, and shall be indemnified and held harmless by any party
- 28 implementing the standard from any and all claims of infringement by a patent owner for such
- 28 implementing the standard from any and all claims of infringement by a page 29 implementations.
- 30 For information about patents held by third-parties which have notified the DMTF that, in their opinion,
- 31 such patent may relate to or impact implementations of DMTF standards, visit
- 32 http://www.dmtf.org/about/policies/disclosures.php.

33

CONTENTS

35	Fo	eword5				
36		ntroduction				
37	1	Scope	7			
38	2	Normative References	7			
39		2.1 Approved References				
40		2.2 Other References				
41	3	Terms and Definitions	7			
42	4	Symbols and Abbreviated Terms	8			
43	5	•				
44		5.1 IShowAccount				
45	6	Mappings	10			
46		6.1 CIM_Account				
47		6.2 CIM_AccountManagementCapabilities				
48		6.3 CIM_AccountManagementService				
49 50		6.4 CIM_AccountOnSystem				
50 51		6.5 CIM_AccountSettingData				
52		6.7 CIM_ConcreteDependency				
53		6.8 CIM_ElementCapabilities				
54		6.9 CIM_ElementSettingData				
55		6.10 CIM_EnabledLogicalElementCapabilities				
56		6.11 CIM_Group				
57		6.12 CIM_HostedService				
58		6.13 CIM_Identity				
59 60		6.14 CIM_IdentityContext				
61		6.16 CIM_OwningCollectionElement				
62		6.17 CIM_ServiceAffectsElement				
63		6.18 CIM_SettingsDefineCapabilities				
64		6.19 CIM_UserContact				
65	AN	NNEX A (informative) Change Log	63			
66						
67	Ta	ables				
68		able 1 – Local Recipes				
69	Tal	able 2 – Command Verb Requirements for CIM_Account	10			
70	Tal	able 3 - Command Verb Requirements for CIM_AccountManagementCapabilities.	18			
71	Tal	able 4 - Command Verb Requirements for CIM_AccountManagementService	20			
72		able 5 – Command Verb Requirements for CIM_AccountOnSystem				
73		able 6 - Command Verb Requirements for CIM_AccountSettingData				
74		able 7 – Command Verb Requirements for CIM_AssignedIdentity				
75		able 8 – Command Verb Requirements for CIM_ConcreteDependency				
76		able 9 – Command Verb Requirements for CIM_ElementCapabilities				
77		able 10 – Command Verb Requirements for CIM_ElementSettingData				
78		able 11 – Command Verb Requirements for CIM_EnabledLogicalElementCapabilit				
79		able 12 – Command Verb Requirements for CIM_Group				
80		able 13 – Command Verb Requirements for CIM_HostedService				
00	ıaı	able 10 Continuate vota requirements for Olivi_r tostedoetvice				

	Simple Identity Management Profile SM CLP Command Mapping Specification	DSP0811
81	Table 14 – Command Verb Requirements for CIM_Identity	45
82	Table 15 – Command Verb Requirements for CIM_IdentityContext	47
83	Table 16 – Command Verb Requirements for CIM_MemberOfCollection	50
84	Table 17 – Command Verb Requirements for CIM_OwningCollectionElement	52
85	Table 18 – Command Verb Requirements for CIM_ServiceAffectsElement	55
86	Table 19 – Command Verb Requirements for CIM_SettingsDefineCapabilities	57
87	Table 20 – Command Verb Requirements for CIM_UserContact	61
88		

89	Foreword					
90 91	The Simple Identity Management Profile SM CLP Command Mapping Specification (DSP0811) was prepared by the Server Management Working Group.					
92	Conventions					
93 94	The pseudo-code conventions utilized in this document are the Recipe Conventions as defined in the SNIA <u>SMI-S 1.1.0</u> , section 7.6.					
95	Acknowledgements					
96 97	The authors wish to acknowledge the following participants from the DTMF Server Management Working Group:					
98	Aaron Merkin – IBM					
99	Jon Hass – Dell					
100	Khachatur Papanyan – Dell					
101	Reddy Dasari – Dell					
102	Jeff Hilland – HP					
103	Christina Shaw – HP					
104	Vincent – Intel					
105	John Leung – Intel					

106	Introduction
107 108 109 110 111	This document defines the SM CLP mapping for CIM elements described in the <u>Simple Identity Management Profile</u> . The information in this specification, combined with the <u>SM CLP-to-CIM Common Mapping Specification 1.0</u> , is intended to be sufficient to implement SM CLP commands relevant to the classes, properties, and methods described in the <u>Simple Identity Management Profile</u> using CIM operations.
112 113	The target audience for this specification is implementers of the SM CLP support for the <u>Simple Identity</u> <u>Management Profile</u> .

115

144

conditions are met

Simple Identity Management Profile SM CLP Command Mapping Specification

116	1	Scope			
117 118	This specification contains the requirements for an implementation of the SM CLP to provide access to, and implement the behaviors of, the <u>Simple Identity Management Profile</u> .				
119	2	Normative References			
120 121 122	refere	ollowing referenced documents are indispensable for the application of this document. For dated nces, only the edition cited applies. For undated references, the latest edition of the referenced nent (including any amendments) applies.			
123	2.1	Approved References			
124 125		DSP1034, Simple Identify Management Profile 1.0, www.dmtf.org/standards/published_documents/DSP1034_1.0.pdf			
126 127		DSP0216, SM CLP-to-CIM Common Mapping Specification 1.0, www.dmtf.org/standards/published_documents/DSP0216_1.0.pdf			
128 129		Storage Management Initiative Specification (SMI-S) 1.1.0, www.snia.org/tech_activities/standards/curr_standards/smi			
130	2.2	Other References			
131 132	ISO/IEC Directives, Part 2, Rules for the structure and drafting of International Standards, http://isotc.iso.org/livelink/livelink.exe?func=Il&objId=4230456&objAction=browse&sort=subtype				
133	3	Terms and Definitions			
134	For th	e purposes of this document, the following terms and definitions apply.			
135	3.1				
136 137	can used t	for statements of possibility and capability, whether material, physical, or causal			
138	3.2				
139 140	canno used t	ot for statements of possibility and capability, whether material, physical or causal			
141	3.3				
142 143		itional tes requirements to be followed strictly in order to conform to the document when the specified			

- 145 **3.4**
- 146 mandatory
- 147 indicates requirements to be followed strictly in order to conform to the document and from which no
- 148 deviation is permitted
- 149 **3.5**
- 150 **may**
- indicates a course of action permissible within the limits of the document
- 152 **3.6**
- 153 need not
- indicates a course of action permissible within the limits of the document
- 155 **3.7**
- 156 optional
- indicates a course of action permissible within the limits of the document
- 158 **3.8**
- 159 shall
- 160 indicates requirements to be followed strictly in order to conform to the document and from which no
- 161 deviation is permitted
- 162 **3.9**
- 163 shall not
- 164 indicates requirements to be followed strictly in order to conform to the document and from which no
- 165 deviation is permitted
- 166 **3.10**
- 167 should
- 168 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
- 170 **3.11**
- 171 should not
- 172 indicates that a certain possibility or course of action is deprecated but not prohibited

173 4 Symbols and Abbreviated Terms

- 174 The following symbols and abbreviations are used in this document.
- 175 **4.1**
- 176 **CIM**
- 177 Common Information Model
- 178 **4.2**
- 179 **CLP**
- 180 Command Line Protocol
- 181 **4.3**
- 182 **DMTF**
- 183 Distributed Management Task Force

- 184 **4.4**
- 185 **IETF**
- 186 Internet Engineering Task Force
- 187 **4.5**
- 188 **SM**
- 189 Server Management
- 190 **4.6**
- 191 **SMI-S**
- 192 Storage Management Initiative Specification
- 193 **4.7**
- 194 **SNIA**
- 195 Storage Networking Industry Association
- 196 **4.8**

- 197 **UFsT**
- 198 User Friendly selection Tag

199 **5 Recipes**

- The following is a list of the common recipes used by the mappings in this specification. For a definition of each recipe, see the *SM CLP-to-CIM Common Mapping Specification 1.0* (DSP0216).
- smShowInstance()
- smShowInstances()
- smSetInstance()
- smShowAssociationInstances()
- smShowAssociationInstance()
- For convenience, Table 1 lists each recipe defined in this mapping which is used for more than one verb or class mapping.

Table 1 – Local Recipes

Recipe Name	Description	Definition
IShowAccount	Show an instance of CIM_Account	See 5.1.

The following subclauses detail Local Recipes defined for use in this mapping.

211 5.1 IShowAccount

212 5.1.1 Description

213 IShowAccount is a reusable recipe for displaying an instance of CIM_Account. A recipe is defined for re-

214 use by the show and create verbs applied to CIM_Account.

5.1.2 Preconditions

215

218

230

234

236

237

238

239

240

241

- 216 \$account contains the instance of CIM_Account to display.
- #all is true if the "-all" option was specified with the command; otherwise, #all is false.

5.1.3 Pseudo Code

```
219
      sub lShowAccount($account, #all)
220
221
             #propertylist[] = NULL;
222
             //if we're not displaying all of the properties, provide a list
223
             if (false == #all)
224
225
                 #propertylist[] = { //all mandatory non-key properties };
226
227
             &smShowInstance ( $account.GetObjectPath(), #propertyList[] );
228
             &smEnd;
229
         } //lShowAccount()
```

6 Mappings

The following sections detail the mapping of CLP verbs to CIM Operations for each CIM class defined in the <u>Simple Identity Management Profile</u>. Requirements specified here related to support for a CLP verb for a particular class are solely within the context of this profile.

6.1 CIM_Account

235 The cd and help verbs shall be supported as described in DSP0216.

Table 2 lists each SM CLP verb, the required level of support for the verb in conjunction with instances of the target class, and, when appropriate, a cross-reference to the section detailing the mapping for the verb and target. Table 2 is for informational purposes only; in case of a conflict between Table 2 and requirements detailed in the following sections, the text detailed in the following sections supersedes the information in Table 2.

Table 2 – Command Verb Requirements for CIM_Account

Command Verb	Requirement	Comments
create	May	See 6.1.2.
delete	May	See 6.1.3.
dump	Not supported	
load	Not supported	
reset	Not supported	
set	May	See 6.1.4.
show	Shall	See 6.1.5.
start	May	See 6.1.6.
stop	May	See 6.1.7.

No mapping is defined for the following verbs for the specified target: create, delete, dump, and load.

243 6.1.1 Ordering of Results

- When results are returned for multiple instances of CIM_Account, implementations shall utilize the
- following algorithm to produce the natural (that is, default) ordering:
- Results for CIM_Account are unordered; therefore, no algorithm is defined.

247 **6.1.2** Create

- 248 This section describes how to implement the create verb when applied to an instance of CIM_Account.
- 249 Implementations may support the use of the create verb with CIM Account.
- 250 The create verb is used to create an account on a system.

251 6.1.2.1 Create Specifying Properties

252 **6.1.2.1.1 Command Form**

253 create <CIM_Account> propertyname1>= propertyvalue1> propertyvaluen>

254 **6.1.2.1.2 CIM Requirements**

- See CIM_AccountManagementService.CreateAccount in the "CIM Elements" section of the Simple
- 256 *Identify Management Profile* for the list of modifiable properties.

257 6.1.2.1.3 Behavior Requirements

258 **6.1.2.1.3.1 Preconditions**

259 \$system contains the instance of CIM_ComputerSystem that is the Resultant Target of the CLP

260 command. This is the container instance for the desired Account instance.

261 **6.1.2.1.3.2** Pseudo Code

```
262
      //1 Find the Service for the system to create the account
263
      #Error = &smOpAssociators(
             $system.getObjectPath(),
264
265
             "CIM_HostedService",
266
             "CIM_AccountManagementService",
267
             NULL.
268
             NULL,
269
             NULL,
270
             $SvcInstancePaths[])
271
      if (0 != #Error.code)
272
273
             &smProcessOpError (#Error);
274
             //includes &smEnd;
275
          }
276
      $service = $SvcInstancePaths[0];
277
      //2 populate the properties
278
      $accountTemplate = smNewInstance ("CIM_Account");
279
      for #i < n
280
281
          $accountTemplate.cpropertname#i> = $accountTemplate.propertyvalue#i>;
282
```

```
283
      //3 invoke the method
284
      $account = smNewInstance ("CIM_Account");
285
      //build the parameter lists and invoke the method
286
      %InArguments[] = {newArgument("AccountTemplate", $accountTemplate)}
287
      %OutArguments[] = { newArgument("Account", $account.GetObjectPath()) };
288
      //invoke method
289
      #returnStatus = smOpInvokeMethod ($service.GetObjectPath(),
290
          "CreateAccount",
291
          %InArguments[],
292
          %OutArguments[]);
293
      //3 process return code to CLP Command Status
294
      if (0 != #Error.code)
295
296
          //method invocation failed
297
          if ( (null != #Error.$error) && (null != #Error.$error[0]) )
                                                                           {
298
             // if the method invocation contains an embedded error
299
             // use it for the Error for the overall job
300
             &smAddError($job, #Error.$error[0]);
301
             &smMakeCommandStatus($job);
302
             &smEnd;
303
304
          else if (#Error.code == 17)
305
306
          //trap for CIM_METHOD_NOT_FOUND
307
          //and make nice Unsupported msg.
308
             //unsupported
309
             $OperationError = smNewInstance("CIM_Error");
310
             //CIM_ERR_NOT_SUPPORTED
311
             $OperationError.CIMStatusCode = 7;
312
             //Other
313
             $OperationError.ErrorType = 1;
314
             //Low
315
             $OperationError.PerceivedSeverity = 2;
316
             $OperationError.OwningEntity = DMTF:SMCLP;
317
             $OperationError.MessageID = 0x00000001;
318
             $OperationError.Message = "Operation is not supported.";
319
             &smAddError($job, $OperationError);
320
             &smMakeCommandStatus($job);
321
             &smEnd;
322
          }
323
          else
324
325
             //operation failed, but no detailed error instance, need to make one up
326
             //make an Error instance and associate with job for Operation
327
                 $OperationError = smNewInstance("CIM_Error");
328
                 //CIM_ERR_FAILED
329
                 $OperationError.CIMStatusCode = 1;
330
                 //Software Error
331
                 $OperationError.ErrorType = 4;
```

```
332
                //Unknown
333
                $OperationError.PerceivedSeverity = 0;
334
                 $OperationError.OwningEntity = DMTF:SMCLP;
335
                 $OperationError.MessageID = 0x00000009;
336
                $OperationError.Message = "An internal software error has occurred.";
337
                &smAddError($job, $OperationError);
338
                &smMakeCommandStatus($job);
339
                &smEnd;
340
         }
341
      }//if CIM op failed
342
      else if (0 == #returnStatus)
343
344
          //completed successfully, show created instance
345
          &lShowAccount($account, "false");
346
         &smEnd;
347
348
      else if (4 == #returnStatus)
349
350
          //generic failure
351
          $OperationError = smNewInstance("CIM_Error");
352
         //CIM_ERR_FAILED
353
          $OperationError.CIMStatusCode = 1;
354
         //Other
355
         $OperationError.ErrorType = 1;
356
          //Low
357
          $OperationError.PerceivedSeverity = 2;
358
          $OperationError.OwningEntity = DMTF:SMCLP;
359
          $OperationError.MessageID = 0x00000002;
360
          $OperationError.Message = "Failed. No further information is available.";
361
          &smAddError($job, $OperationError);
362
          &smMakeCommandStatus($job);
363
364
      else
365
366
          //invalid parameter
367
          $OperationError = smNewInstance("CIM_Error");
368
          //CIM ERR FAILED
369
          $OperationError.CIMStatusCode = 1;
370
         //Other
371
          $OperationError.ErrorType = 1;
372
373
          $OperationError.PerceivedSeverity = 2;
374
          $OperationError.OwningEntity = DMTF:SMCLP;
375
          $OperationError.MessageID = 0x00000004;
376
          $OperationError.Message = "One or more parameters specified are invalid.";
377
          &smAddError($job, $OperationError);
378
          &smMakeCommandStatus($job);
379
          &smEnd;
380
```

- 381 **6.1.3 Delete**
- 382 This section describes how to implement the delete verb when applied to an instance of CIM_Account.
- 383 Implementations may support the use of the delete verb with CIM_Account.
- The delete command is used to remove an instance of CIM_Account.
- 385 6.1.3.1 Delete a Single Instance
- 386 Use the delete command to delete a single instance of CIM_Account.
- 387 **6.1.3.1.1 Command Form**
- 388 delete <CIM_Account single instance>
- 389 **6.1.3.1.2 CIM Requirements**
- 390 See CIM_Account in the "CIM Elements" section of the Simple Identify Management Profile for the list of
- 391 modifiable properties.
- 392 6.1.3.1.3 Behavior Requirements
- 393 \$instance=<CIM_Account single instance>
- 394 &smOpDeleteInstance (\$instance.GetObjectPath());
- 395 **6.1.4 Set**
- 396 This section describes how to implement the set verb when it is applied to an instance of CIM_Account.
- 397 Implementations may support the use of the set verb with CIM_Account.
- 398 The set verb is used to modify descriptive properties of the CIM_Account instance.
- 399 6.1.4.1 Set Account to Enabled but Offline
- 400 This command form is for the start verb applied to a single instance of CIM_Account.
- 401 **6.1.4.1.1 Command Form**
- 402 set <CIM_Account single instance> RequestedState="Offline"
- 403 **6.1.4.1.2 CIM Requirements**

```
404    uint16    EnabledState;
405    uint16    RequestedState;
406    uint32    EnabledLogicalElement.RequestStateChange (
407         [IN]    uint16    RequestedState = "Offline",
408         [OUT]    REF CIM_ConcreteJob Job,
409         [IN]    datetime TimeoutPeriod );
```

410 6.1.4.1.3 Behavior Requirements

```
$\frac{411}{12} \$\instance = < CIM_Account single instance >
412   //6 = Enabled but Offline
413   smRequestStateChange ( \$\instance.getObjectPath(), 6 );
414   &smEnd;
```

415 6.1.4.2 General Usage of Set for a Single Property

- 416 This command form corresponds to the general usage of the set verb to modify a single property of a
- 417 target instance. This is the most common case.
- 418 The requirement for supporting modification of a property using this command form shall be equivalent to
- 419 the requirement for supporting modification of the property using the ModifyInstance operation as defined
- 420 in the Simple Identity Management Profile.

421 **6.1.4.2.1** Command Form

422 set <CIM Account single instance> <propertyname>=<propertyvalue>

423 **6.1.4.2.2 CIM Requirements**

424 See CIM_Account in the "CIM Elements" section of the Simple Identify Management Profile for the list of

425 modifiable properties.

426 6.1.4.2.3 Behavior Requirements

432 6.1.4.3 General Usage of Set for Multiple Properties

- This command form corresponds to the general usage of the set verb to modify multiple properties of a
- 434 target instance where there is not an explicit relationship between the properties. This is the most
- 435 common case.

445

- The requirement for supporting modification of a property using this command form shall be equivalent to
- the requirement for supporting modification of the property using the ModifyInstance operation as defined
- 438 in the Simple Identity Management Profile.

439 **6.1.4.3.1 Command Form**

```
set <CIM_Account single instance> <propertyname1>=<propertyvalue1> <propertynamen>=<propertyvaluen>
```

442 **6.1.4.3.2 CIM Requirements**

See CIM_Account in the "CIM Elements" section of the <u>Simple Identify Management Profile</u> for the list of modifiable properties.

6.1.4.3.3 Behavior Requirements

```
446
      $instance=<CIM_Account single instance>
447
      #propertyNames[] = {cpropertyname>};
448
      for \#i < n
449
450
         #propertyNames[#i] = cpropertname#i>
451
          #propertyValues[#i] = ropertyvalue#i>
452
453
      &smSetInstance ( $instance, #propertyNames[], #propertyValues[] );
454
      &smEnd;
```

- 455 **6.1.5** Show
- 456 This section describes how to implement the show verb when applied to an instance of CIM_Account.
- 457 Implementations shall support the use of the show verb with CIM_Account.
- 458 The show verb is used to display information about the account.
- 459 6.1.5.1 Show a Single Instance
- 460 This command form is for the show verb applied to a single instance of CIM_Account.
- 461 **6.1.5.1.1 Command Form**
- 462 show <CIM_Account single instance>
- 463 **6.1.5.1.2 CIM Requirements**
- See CIM_Account in the "CIM Elements" section of the Simple Identify Management Profile for the list of
- 465 mandatory properties.
- 466 6.1.5.1.3 Behavior Requirements
- 467 6.1.5.1.3.1 Preconditions
- 468 #all is true if the "-all" option was specified with the command; otherwise, #all is false.
- 469 6.1.5.1.3.2 Pseudo Code

- 478 6.1.5.2 Show Multiple Instances
- This command form is for the show verb applied to multiple instances of CIM_Account. This command
- 480 form corresponds to UFsT-based selection within a scoping system.
- 481 **6.1.5.2.1 Command Form**
- 482 show <CIM_Account multiple instances>
- 483 **6.1.5.2.2 CIM Requirements**
- 484 See CIM_Account in the "CIM Elements" section of the Simple Identify Management Profile for the list of
- 485 mandatory properties.
- 486 6.1.5.2.3 Behavior Requirements
- 487 **6.1.5.2.3.1** Preconditions
- \$containerInstance contains the instance of CIM_ComputerSystem for which scoped accounts
- 489 (CIM_Account instances) are displayed. The Simple Identity Management Profile requires that the

- 490 CIM_Account instance be associated with its scoping system via an instance of the
- 491 CIM_AccountOnSystem association.
- 492 #all is true if the "-all" option was specified with the command; otherwise, #all is false.

493 **6.1.5.2.3.2** Pseudo Code

502 **6.1.6 Start**

- 503 This section describes how to implement the start verb when applied to an instance of CIM_Account.
- Implementations may support the use of the start verb with CIM_Account.
- 505 The start verb is used to enable an account.

506 6.1.6.1 Start a Single Instance

- 507 This command form is for the start verb applied to a single instance of CIM_Account.
- 508 **6.1.6.1.1 Command Form**
- 509 start <CIM_Account single instance>

510 **6.1.6.1.2 CIM Requirements**

```
uint16 EnabledState;
uint16 RequestedState;

//2 (Enabled)

uint32 EnabledLogicalElement.RequestStateChange (
    [IN] uint16 RequestedState = 2,
    [OUT] REF CIM_ConcreteJob Job,
    [IN] datetime TimeoutPeriod );
```

518 **6.1.6.1.3 Behavior Requirements**

```
$19 $instance=<CIM_Account single instance>
520 smStartRSC ( $instance.getObjectPath() );
521 &smEnd;
```

522 **6.1.7 Stop**

- 523 This section describes how to implement the stop verb when applied to an instance of CIM_Account.
- Implementations may support the use of the stop verb with CIM_Account.
- 525 The stop verb is used to disable an account.

526 **6.1.7.1 Stop a Single Instance**

527 This command form is for the stop verb applied to a single instance of CIM Account.

528 **6.1.7.1.1** Command Form

529

530

538

542

543

544

545

546 547

548

549

552

555

556

stop <CIM_Account single instance>

6.1.7.1.2 CIM Requirements

```
uint16 EnabledState;
uint16 RequestedState;

//3 (Disabled)

uint32 EnabledLogicalElement.RequestStateChange (
    [IN] uint16 RequestedState = 3,
    [OUT] REF CIM_ConcreteJob Job,
    [IN] datetime TimeoutPeriod );
```

6.1.7.1.3 Behavior Requirements

```
$\finstance=<CIM_Account single instance>
$\finstance\text{SmStopRSC (\$instance.getObjectPath());}$
$\finstance\text{SmEnd;}$
```

6.2 CIM_AccountManagementCapabilities

The cd and help verbs shall be supported as described in DSP0216.

Table 3 lists each SM CLP verb, the required level of support for the verb in conjunction with instances of the target class, and, when appropriate, a cross-reference to the section detailing the mapping for the verb and target. Table 3 is for informational purposes only; in case of a conflict between Table 3 and requirements detailed in the following sections, the text detailed in the following sections supersedes the information in Table 3.

Table 3 - Command Verb Requirements for CIM AccountManagementCapabilities

Command Verb	Requirement	Comments
create	Not supported	
delete	Not supported	
dump	Not supported	
load	Not supported	
reset	Not supported	
set	Not supported	
show	Shall	See 6.2.2.
start	Not supported	
stop	Not supported	

No mapping is defined for the following verbs for the specified target: create, delete, dump, load, reset, set, start, and stop.

6.2.1 Ordering of Results

When results are returned for multiple instances of CIM_AccountManagementCapabilities, implementations shall utilize the following algorithm to produce the natural (that is, default) ordering:

 Results for CIM_AccountManagementCapabilities are unordered; therefore, no algorithm is defined.

557 **6.2.2 Show**

- 558 This section describes how to implement the show verb when applied to an instance of
- 559 CIM_AccountManagementCapabilities. Implementations shall support the use of the show verb with
- 560 CIM_AccountManagementCapabilities.
- The show verb is used to display information about an instance or instances of the
- 562 CIM AccountManagementCapabilities class.
- 563 6.2.2.1 Show a Single Instance
- This command form is for the show verb applied to a single instance of
- 565 CIM_AccountManagementCapabilities.
- 566 **6.2.2.1.1 Command Form**
- 567 show <CIM_AccountManagementCapabilities single instance>
- 568 **6.2.2.1.2 CIM Requirements**
- See CIM_AccountManagementCapabilities in the "CIM Elements" section of the Simple Identify
- 570 <u>Management Profile</u> for the list of mandatory properties.
- 571 6.2.2.1.3 Behavior Requirements
- 572 **6.2.2.1.3.1 Preconditions**
- 573 #all is true if the "-all" option was specified with the command; otherwise, #all is false.
- 574 **6.2.2.1.3.2** Pseudo Code

```
$\footnote{\text{sinstance} < \text{CIM_AccountManagementCapabilities } single instance>}

$\footnote{\text{sinstance} = \text{VILL;}} \\

$\footnote{\text{footnote} = \text{#all}} \\

$\footnote{\text{footnote} = \text{#all}} \\

$\footnote{\text{footnote} = \text{#propertylist[] = \text{$\footnote{\text{footnote{footnote{footnote{footnote{footnote{footnote{footnote{footnote{footnote{footnote{footnote{footnote{footnote{footnote{footnote{footnote{footnote{footnote{footnote{footnote{footnote{footnote{footnote{footnote{footnote{footnote{footnote{footnote{footnote{footnote{footnote{footnote{footnote{footnote{footnote{footnote{footnote{footnote{footnote{footnote{footnote{footnote{footnote{footnote{footnote{footnote{footnote{footnote{footnote{footnote{footnote{footnote{footnote{footnote{footnote{footnote{footnote{footnote{footnote{footnote{footnote{footnote{footnote{footnote{footnote{footnote{footnote{footnote{footnote{footnote{footnote{footnote{footnote{footnote{footnote{footnote{footnote{footnote{footnote{footnote{footnote{footnote{footnote{footnote{footnote{footnote{footnote{footnote{footnote{footnote{footnote{footnote{footnote{footnote{footnote{footnote{footnote{footnote{footnote{footnote{footnote{footnote{footnote{footnote{footnote{footnote{footnote{footnote{footnote{footnote{footnote{footnote{footnote{footnote{footnote{footnote{footnote{footnote{footnote{footnote{footnote{footnote{footnote{footnote{footnote{footnote{footnote{footnote{footnote{footnote{footnote{footnote{footnote{footnote{footnote{footnote{footnote{footnote{footnote{footnote{footnote{footnote{footnote{footnote{footnote{footnote{footnote{footnote{footnote{footnote{footnote{footnote{footnote{footnote{footnote{footnote{footnote{footnote{footnote{footnote{footnote{footnote{footnote{footnote{footnote{footnote{footnote{footnote{footnote{footnote{footnote{footnote{footnote{footnote{footnote{footnote{footnote{footnote{footnote{footnote{footnote{footnote{footnote{footnote{footnote{footnote{footnote{footnote{footnote{footnote{footnote{footnote{footno
```

- 583 6.2.2.2 Show Multiple Instances
- This command form is for the show verb applied to multiple instances of
- 585 CIM_AccountManagementCapabilities. This command form corresponds to UFsT-based selection within
- 586 a capabilities collection.
- 587 **6.2.2.2.1 Command Form**
- 588 show <CIM_AccountManagementCapabilities multiple instances>
- 589 **6.2.2.2.2 CIM Requirements**
- 590 See CIM AccountManagementCapabilities in the "CIM Elements" section of the Simple Identify
- 591 <u>Management Profile</u> for the list of mandatory properties.

592 6.2.2.2.3 Behavior Requirements

6.2.2.2.3.1 Preconditions

593

598

607

608

609 610

611

612

613

614

616

619

\$containerInstance contains the instance of CIM_Group for which contained CIM_Capabilities instances are displayed. CIM_Capabilities instances are addressed via an aggregating instance of CIM_Group.

597 #all is true if the "-all" option was specified with the command; otherwise, #all is false.

6.2.2.3.2 Pseudo Code

```
#propertylist[] = NULL;

for if ( false == #all)

for the false == #all)
```

6.3 CIM_AccountManagementService

The cd and help verbs shall be supported as described in DSP0216.

Table 4 lists each SM CLP verb, the required level of support for the verb in conjunction with instances of the target class, and, when appropriate, a cross-reference to the section detailing the mapping for the verb and target. Table 4 is for informational purposes only; in case of a conflict between Table 4 and requirements detailed in the following sections, the text detailed in the following sections supersedes the information in Table 4.

Table 4 - Command Verb Requirements for CIM AccountManagementService

Command Verb	Requirement	Comments
create	Not supported	
delete	Not supported	
dump	Not supported	
load	Not supported	
reset	Not supported	
set	Not supported	
show	Shall	See 6.3.2.
start	Not supported	
stop	Not supported	

615 No mapping is defined for the following verbs for the specified target: create, delete, dump, and load.

6.3.1 Ordering of Results

When results are returned for multiple instances of CIM_AccountManagementService, implementations shall utilize the following algorithm to produce the natural (that is, default) ordering:

Results for CIM_AccountManagementService are unordered; therefore, no algorithm is defined.

- 620 **6.3.2** Show
- This section describes how to implement the show verb when applied to an instance of
- 622 CIM_AccountManagementService. Implementations shall support the use of the show verb with
- 623 CIM AccountManagementService.
- The show verb is used to display information about the CIM AccountManagementService.
- 625 6.3.2.1 Show a Single Instance
- This command form is for the show verb applied to a single instance of
- 627 CIM_AccountManagementService.
- 628 **6.3.2.1.1 Command Form**
- 629 show <CIM_AccountManagementService single instance>
- 630 **6.3.2.1.2 CIM Requirements**
- 631 See CIM_AccountManagementService in the "CIM Elements" section of the <u>Simple Identify Management</u>
- 632 *Profile* for the list of mandatory properties.
- 633 6.3.2.1.3 Behavior Requirements
- 634 **6.3.2.1.3.1** Preconditions
- 635 #all is true if the "-all" option was specified with the command; otherwise, #all is false.
- 636 **6.3.2.1.3.2** Pseudo Code

- 645 6.3.2.2 Show Multiple Instances
- This command form is for the show verb applied to multiple instances of
- 647 CIM_AccountManagementService. This command form corresponds to UFsT-based selection within a
- 648 scoping system.
- 649 **6.3.2.2.1** Command Form
- show <CIM_AccountManagementService multiple instances>
- 651 **6.3.2.2.2 CIM Requirements**
- 652 See CIM_AccountManagementService in the "CIM Elements" section of the Simple Identify Management
- 653 *Profile* for the list of mandatory properties.

654 6.3.2.2.3 Behavior Requirements

6.3.2.2.3.1 Preconditions

655

661

670

672

673

674

675 676

677

\$containerInstance contains the instance of CIM_ComputerSystem for which scoped instances of the CIM_AccountManagementService are displayed. The <u>Simple Identity Management Profile</u> requires that the CIM_AccountManagementService instance be associated with its scoping system via an instance of the CIM_HostedService association.

660 #all is true if the "-all" option was specified with the command; otherwise, #all is false.

6.3.2.2.3.2 Pseudo Code

6.4 CIM_AccountOnSystem

The cd and help verbs shall be supported as described in DSP0216.

Table 5 lists each SM CLP verb, the required level of support for the verb in conjunction with instances of the target class, and, when appropriate, a cross-reference to the section detailing the mapping for the verb and target. Table 5 is for informational purposes only; in case of a conflict between Table 5 and requirements detailed in the following sections, the text detailed in the following sections supersedes the information in Table 5.

Table 5 – Command Verb Requirements for CIM_AccountOnSystem

Command Verb	Requirement	Comments
create	Not supported	
delete	Not supported	
dump	Not supported	
load	Not supported	
reset	Not supported	
set	Not supported	
show	Shall	See 6.4.2.
start	Not supported	
stop	Not supported	

No mapping is defined for the following verbs for the specified target: create, delete, dump, load, reset, set, start, and stop.

680 6.4.1 Ordering of Results

- When results are returned for multiple instances of CIM_AccountOnSystem implementations shall utilize
- the following algorithm to produce the natural (that is, default) ordering:
- Results for CIM AccountOnSystem are unordered; therefore, no algorithm is defined.

684 **6.4.2** Show

- This section describes how to implement the show verb when applied to an instance of
- 686 CIM AccountOnSystem. Implementations shall support the use of the show verb with
- 687 CIM AccountOnSystem.
- The show command is used to display information about the CIM_AccountOnSystem instance or
- 689 instances.

690 6.4.2.1 Show Multiple Instances

- This command form is for the show verb applied to multiple instances. This command form corresponds
- 692 to a show command issued against CIM_AccountOnSystem where only one reference is specified and
- the reference is to an instance of CIM ComputerSystem.

694 **6.4.2.1.1 Command Form**

695 show <CIM_AccountOnSystem multiple instances>

696 **6.4.2.1.2 CIM Requirements**

- 697 See CIM AccountOnSystem in the "CIM Elements" section of the Simple Identify Management Profile for
- the list of mandatory properties.

699 6.4.2.1.3 Behavior Requirements

700 **6.4.2.1.3.1** Preconditions

- 701 \$instance contains the instance of CIM ComputerSystem which is referenced by
- 702 CIM_AccountOnSystem.

703 **6.4.2.1.3.2** Pseudo Code

- 704 &smShowAssociationInstances ("CIM_AccountOnSystem", \$instance.getObjectPath());
- 705 &smEnd;

706 6.4.2.2 Show a Single Instance – CIM_Account Reference

- 707 This command form is for the show verb applied to a single instance. This command form corresponds to
- 708 a show command issued against CIM AccountOnSystem where the reference specified is to an instance
- 709 of CIM_Account. An instance is referenced by exactly one instance of CIM_AccountOnSystem.
- 710 Therefore, a single instance will be returned.

711 **6.4.2.2.1 Command Form**

712 show <CIM_AccountOnSystem single instance>

713 **6.4.2.2.2 CIM Requirements**

- 714 See CIM_AccountOnSystem in the "CIM Elements" section of the Simple Identify Management Profile for
- 715 the list of mandatory properties.

716 **6.4.2.2.3 Behavior Requirements**

717 6.4.2.2.3.1 Preconditions

718 \$instance contains the instance of CIM_Account which is referenced by CIM_AccountOnSystem.

719 **6.4.2.2.3.2** Pseudo Code

722 6.4.2.3 Show a Single Instance – Both References

- 723 This command form is for the show verb applied to a single instance. This command form corresponds to
- 724 a show command issued against CIM_AccountOnSystem where both references are specified and
- therefore the desired instance is unambiguously identified.

726 **6.4.2.3.1 Command Form**

727 show <CIM_AccountOnSystem single instance>

728 **6.4.2.3.2 CIM Requirements**

- 729 See CIM_AccountOnSystem in the "CIM Elements" section of the <u>Simple Identify Management Profile</u> for
- 730 the list of mandatory properties.

731 6.4.2.3.3 Behavior Requirements

732 **6.4.2.3.3.1** Preconditions

- 733 \$instanceA contains the instance of CIM_ComputerSystem which is referenced by
- 734 CIM AccountOnSystem.
- 735 \$instanceB contains the instance of CIM_Account which is referenced by CIM_AccountOnSystem.

736 **6.4.2.3.3.2** Pseudo Code

740 6.5 CIM AccountSettingData

The cd and help verbs shall be supported as described in <u>DSP0216</u>.

742 Table 6 lists each SM CLP verb, the required level of support for the verb in conjunction with instances of

the target class, and, when appropriate, a cross-reference to the section detailing the mapping for the

verb and target. Table 6 is for informational purposes only; in case of a conflict between Table 6 and

requirements detailed in the following sections, the text detailed in the following sections supersedes the

746 information in Table 6.

747

Table 6 – Command Verb Requirements for CIM_AccountSettingData

Command Verb	Requirement	Comments
create	Not supported	
delete	Not supported	
dump	Not supported	

Command Verb	Requirement	Comments
load	Not supported	
reset	Not supported	
set	May	See 6.5.2.
show	Shall	See 6.5.3.
start	Not supported	
stop	Not supported	

- No mapping is defined for the following verbs for the specified target: create, delete, dump, load,
- 749 reset, start, and stop.

750 6.5.1 Ordering of Results

- When results are returned for multiple instances of CIM_AccountSettingData, implementations shall
- 752 utilize the following algorithm to produce the natural (that is, default) ordering:
- Results for CIM_AccountSettingData are unordered; therefore, no algorithm is defined.

754 **6.5.2 Set**

- 755 This section describes how to implement the set verb when it is applied to an instance of
- 756 CIM_AccountSettingData. Implementations may support the use of the set verb with
- 757 CIM_AccountSettingData.
- 758 The set verb is used to modify descriptive properties of the CIM_AccountSettingData instance.

759 **6.5.2.1 General Usage of Set for a Single Property**

- 760 This command form corresponds to the general usage of the set verb to modify a single property of a
- target instance. This is the most common case.
- The requirement for supporting modification of a property using this command form shall be equivalent to
- 763 the requirement for supporting modification of the property using the ModifyInstance operation as defined
- 764 in the <u>Simple Identity Management Profile</u>.

765 **6.5.2.1.1 Command Form**

767 **6.5.2.1.2 CIM Requirements**

- 768 See CIM_AccountSettingData in the "CIM Elements" section of the Simple Identify Management Profile
- 769 for the list of modifiable properties.

770 6.5.2.1.3 Behavior Requirements

- 773 #propertyValues[] = {cpropertyvalue>};
- 774 &smSetInstance (\$instance, #propertyNames[], #propertyValues[]);
- 775 &smEnd;

776 6.5.2.2 General Usage of Set for Multiple Properties

- 777 This command form corresponds to the general usage of the set verb to modify multiple properties of a
- 778 target instance where there is not an explicit relationship between the properties. This is the most
- 779 common case.
- 780 The requirement for supporting modification of a property using this command form shall be equivalent to
- the requirement for supporting modification of the property using the ModifyInstance operation as defined
- 782 in the Simple Identity Management Profile.
- 783 **6.5.2.2.1 Command Form**
- 786 **6.5.2.2.2 CIM Requirements**
- 787 See CIM_AccountSettingData in the "CIM Elements" section of the <u>Simple Identify Management Profile</u>
- 788 for the list of mandatory properties.

789 6.5.2.2.3 Behavior Requirements

```
790
      $instance=<CIM_AccountSettingData single instance>
791
      #propertyNames[] = {cpropertyname>};
792
      for #i < n
793
794
          #propertyNames[#i] = cpropertname#i>
795
          #propertyValues[#i] = cpropertyvalue#i>
796
797
      &smSetInstance ( $instance, #propertyNames[], #propertyValues[] );
798
      &smEnd;
```

- 799 **6.5.3 Show**
- 800 This section describes how to implement the show verb when applied to an instance of
- 801 CIM AccountSettingData. Implementations shall support the use of the show verb with
- 802 CIM AccountSettingData.
- The show verb is used to display information about CIM_AccountSettingData.
- 804 6.5.3.1 Show a Single Instance
- This command form is for the show verb applied to a single instance of CIM_AccountSettingData.
- 806 **6.5.3.1.1 Command Form**
- 807 show <CIM_AccountSettingData single object>
- 808 **6.5.3.1.2 CIM Requirements**
- 809 See CIM_AccountSettingData in the "CIM Elements" section of the Simple Identify Management Profile
- for the list of mandatory properties.
- 811 6.5.3.1.3 Behavior Requirements
- 812 **6.5.3.1.3.1** Preconditions
- 813 #all is true if the "-all" option was specified with the command; otherwise, #all is false.

814 6.5.3.1.3.2 **Pseudo Code**

```
815
      $instance=<CIM_AccountSettingData single object>
816
      #propertylist[] = NULL;
817
      if (false == #all)
818
819
          #propertylist[] = { "ElementName", "AddressOrigin" }
820
821
      &smShowInstance ( $instance.getObjectPath(), #propertylist[] );
822
      &smEnd;
```

823 6.5.3.2 **Show Multiple Instances**

- 824 This command form is for the show verb applied to multiple instances of CIM_AccountSettingData. This 825 command form corresponds to UFsT-based selection within a scoping system.
- 6.5.3.2.1 826 **Command Form**
- 827 show <CIM_AccountSettingData multiple objects>
- 828 6.5.3.2.2 **CIM Requirements**
- 829 See CIM_AccountSettingData in the "CIM Elements" section of the Simple Identify Management Profile
- for the list of mandatory properties. 830
- 831 6.5.3.2.3 **Behavior Requirements**
- 832 6.5.3.2.3.1 **Preconditions**
- 833 ScontainerInstance contains the instance of CIM ConcreteCollection for which related
- 834 CIM AccountSettingData instances are displayed. SM ME Addressing requires that the
- 835 CIM AccountSettingData instance be associated with an instance of CIM ConcreteCollection via an
- 836 instance of the CIM MemberOfCollection association.
- #all is true if the "-all" option was specified with the command; otherwise, #all is false. 837

838 6.5.3.2.3.2 Pseudo Code

```
839
      #propertylist[] = NULL;
840
      if (false == #all)
841
842
          #propertylist[] = { "ElementName", "AddressOrigin" }
843
844
      &smShowInstances ( "CIM_AccountSettingData", "CIM_OrderedComponent",
845
          $containerInstance.getObjectPath(), #propertylist[] );
846
      &smEnd;
```

6.6 CIM_AssignedIdentity

847

- 848 The cd and help verbs shall be supported as described in DSP0216.
- 849 Table 7 lists each SM CLP verb, the required level of support for the verb in conjunction with instances of 850 the target class, and, when appropriate, a cross-reference to the section detailing the mapping for the
- 851 verb and target. Table 7 is for informational purposes only; in case of a conflict between Table 7 and
- 852 requirements detailed in the following sections, the text detailed in the following sections supersedes the 853 information in Table 7.

857

Table 7 - Command Verb Requirements for CIM_AssignedIdentity

Command Verb	Requirement	Comments
create	Not supported	
delete	Not supported	
dump	Not supported	
load	Not supported	
reset	Not supported	
set	Not supported	
show	Shall	See 6.6.2.
start	Not supported	
stop	Not supported	

No mapping is defined for the following verbs for the specified target: create, delete, dump, load, reset, set, show, start, and stop.

6.6.1 Ordering of Results

- When results are returned for multiple instances of CIM_AssignedIdentity, implementations shall utilize the following algorithm to produce the natural (that is, default) ordering:
- Results for CIM_AssignedIdentity are unordered; therefore, no algorithm is defined.

861 **6.6.2 Show**

- This section describes how to implement the show verb when applied to an instance of
- 863 CIM AssignedIdentity. Implementations shall support the use of the show verb with
- 864 CIM AssignedIdentity.
- The show command is used to display information about the CIM_AssignedIdentity instance or instances.

866 6.6.2.1 Show Multiple Instances – CIM_Identity Reference

- This command form is for the show verb applied to multiple instances. This command form corresponds
- 868 to a show command issued against CIM AssignedIdentity where only one reference is specified and the
- 869 reference is to an instance of CIM Identity.

870 **6.6.2.1.1 Command Form**

- 871 show <CIM_AssignedIdentity multiple instances>
- 872 **6.6.2.1.2 CIM Requirements**
- 873 See CIM_AssignedIdentify in the "CIM Elements" section of the <u>Simple Identify Management Profile</u> for
- the list of mandatory properties.

875 6.6.2.1.3 Behavior Requirements

- 876 **6.6.2.1.3.1 Preconditions**
- 877 \$instance contains the instance of CIM_Identity that is referenced by CIM_AssignedIdentity.

878 **6.6.2.1.3.2** Pseudo Code

- &smShowAssociationInstances ("CIM_AssignedIdentity", \$instance.getObjectPath());
- 880 &smEnd;
- 881 6.6.2.2 Show Multiple Instances CIM_Account reference
- This command form is for the show verb applied to multiple instances. This command form corresponds
- 883 to a show command issued against CIM_AssignedIdentity where only one reference is specified and the
- 884 reference is to an instance of CIM Account.
- 885 **6.6.2.2.1 Command Form**
- 886 show <CIM_AssignedIdentity multiple instances>
- 887 **6.6.2.2.2 CIM Requirements**
- 888 See CIM_AssignedIdentify in the "CIM Elements" section of the Simple Identify Management Profile for
- the list of mandatory properties.
- 890 6.6.2.2.3 Behavior Requirements
- 891 **6.6.2.2.3.1 Preconditions**
- 892 \$instance contains the instance of CIM_Account that is referenced by CIM_AssignedIdentity.
- 893 **6.6.2.2.3.2** Pseudo Code
- &smShowAssociationInstances ("CIM_AssignedIdentity", \$instance.getObjectPath());
- 895 &smEnd;
- 896 6.6.2.3 Show a Single Instance CIM UserContact or CIM Group Reference
- This command form is for the show verb applied to a single instance. This command form corresponds to
- 898 a show command issued against CIM_AssignedIdentity where the reference specified is to an instance of
- 899 CIM_UserContact or CIM_Group. A single instance of CIM_UserContact or CIM_Group can be
- associated with each instance of a CIM_Identity sub-class. Therefore, a single instance will be returned.
- 901 **6.6.2.3.1 Command Form**
- 902 show <CIM_AssignedIdentity single instance>
- 903 **6.6.2.3.2 CIM Requirements**
- 904 See CIM_AssignedIdentify in the "CIM Elements" section of the Simple Identify Management Profile for
- 905 the list of mandatory properties.
- 906 6.6.2.3.3 Behavior Requirements
- 907 **6.6.2.3.3.1 Preconditions**
- 908 \$instance contains the instance of CIM_UserContact or CIM_Group which is referenced by
- 909 CIM AssignedIdentity.
- 910 **6.6.2.3.3.2** Pseudo Code
- 911 &smShowAssociationInstances ("CIM_AssignedIdentity", \$instance.getObjectPath());
- 912 &smEnd;

913 6.6.2.4 Show a Single Instance – Both References

- 914 This command form is for the show verb applied to a single instance. This command form corresponds to
- 915 a show command issued against CIM_AssignedIdentity where both references are specified and
- therefore the desired instance is unambiguously identified. 916

917 6.6.2.4.1 **Command Form**

918 show <CIM AssignedIdentity single instance>

919 6.6.2.4.2 CIM Requirements

- 920 See CIM AssignedIdentify in the "CIM Elements" section of the Simple Identify Management Profile for
- 921 the list of mandatory properties.

6.6.2.4.3 922 **Behavior Requirements**

6.6.2.4.3.1 **Preconditions** 923

- 924 \$instanceA contains the instance of CIM_Identity which is referenced by CIM_AssignedIdentity.
- \$instanceB contains the instance of CIM_UserContact, CIM_Group, or CIM_Account which is 925
- 926 referenced by CIM AssignedIdentity.

927 6.6.2.4.3.2 **Pseudo Code**

931

934

935 936

937

938

```
928
      &smShowAssociationInstance ( "CIM AssignedIdentity", $instanceA.getObjectPath(),
929
          $instanceB.getObjectPath() );
930
      &smEnd;
```

6.7 CIM_ConcreteDependency

932 The cd and help verbs shall be supported as described in DSP0216.

933 Table 8 lists each SM CLP verb, the required level of support for the verb in conjunction with instances of the target class, and, when appropriate, a cross-reference to the section detailing the mapping for the verb and target. Table 8 is for informational purposes only; in case of a conflict between Table 8 and requirements detailed in the following sections, the text detailed in the following sections supersedes the information in Table 8.

Table 8 – Command Verb Requirements for CIM_ConcreteDependency

Command Verb	Requirement	Comments
create	Not supported	
delete	Not supported	
dump	Not supported	
load	Not supported	
reset	Not supported	
set	Not supported	
show	Shallt	See 6.7.2.
start	Not supported	
stop	Not supported	

939 No mapping is defined for the following verbs for the specified target: create, delete, dump, load, 940 reset, set, start, and stop.

941 6.7.1 Ordering of Results

- 942 When results are returned for multiple instances of CIM_ConcreteDependency, implementations shall
- 943 utilize the following algorithm to produce the natural (that is, default) ordering:
- Results for CIM ConcreteDependency are unordered; therefore, no algorithm is defined.
- 945 **6.7.2 Show**
- This section describes how to implement the show verb when applied to an instance of
- 947 CIM ConcreteDependency. Implementations shall support the use of the show verb with
- 948 CIM ConcreteDependency.
- 949 The show command is used to display information about the CIM_ConcreteDependency instance or
- 950 instances.
- 951 6.7.2.1 Show Multiple Instances CIM_ManagedElement reference
- 952 This command form is for the show verb applied to multiple instances. This command form corresponds
- 953 to a show command issued against CIM_ConcreteDependency where only one reference is specified and
- the reference is to an instance of CIM ManagedElement.
- 955 **6.7.2.1.1 Command Form**
- 956 show <CIM_ConcreteDependency multiple instances>
- 957 **6.7.2.1.2 CIM Requirements**
- 958 See CIM ConcreteDependency in the "CIM Elements" section of the Simple Identify Management Profile
- 959 for the list of mandatory properties.
- 960 6.7.2.1.3 Behavior Requirements
- 961 **6.7.2.1.3.1 Preconditions**
- 962 \$instance contains the instance of CIM_ManagedElement that is referenced by
- 963 CIM_ConcreteDependency.
- 964 **6.7.2.1.3.2** Pseudo Code
- &smShowAssociationInstances ("CIM_ConcreteDependency", \$instance.getObjectPath());
- 966 &smEnd;
- 967 6.7.2.2 Show a Single Instance CIM_Identity Reference
- 968 This command form is for the show verb applied to a single instance. This command form corresponds to
- 969 a show command issued against CIM ConcreteDependency where the reference specified is to an
- 970 instance of CIM_Identity.
- 971 **6.7.2.2.1 Command Form**
- 972 show <CIM_ConcreteDependency single instance>
- 973 **6.7.2.2.2 CIM Requirements**
- 974 See CIM_ConcreteDependency in the "CIM Elements" section of the Simple Identify Management Profile
- 975 for the list of mandatory properties.

976 6.7.2.2.3 **Behavior Requirements**

977 6.7.2.2.3.1 **Preconditions**

978 \$instance contains the instance of CIM_Identity which is referenced by CIM_ConcreteDependency.

979 6.7.2.2.3.2 **Pseudo Code**

980 &smShowAssociationInstances ("CIM_ConcreteDependency", \$instance.getObjectPath()); 981 &smEnd;

982 6.7.2.3 Show a Single Instance - Both References

983 This command form is for the show verb applied to a single instance. This command form corresponds to a show command issued against CIM_ConcreteDependency where both references are specified and 984 985

therefore the desired instance is unambiguously identified.

6.7.2.3.1 986 **Command Form**

987 show <CIM_ConcreteDependency single instance>

6.7.2.3.2 988 **CIM Requirements**

989 See CIM_ConcreteDependency in the "CIM Elements" section of the Simple Identify Management Profile for the list of mandatory properties. 990

991 6.7.2.3.3 **Behavior Requirements**

992 6.7.2.3.3.1 **Preconditions**

993 \$instanceA contains the instance of CIM Identity which is referenced by CIM ConcreteDependency.

994 \$instanceB contains the instance of CIM_ManagedElement which is referenced by

CIM_ConcreteDependency. 995

6.7.2.3.3.2 **Pseudo Code** 996

1000

1007

997 &smShowAssociationInstance ("CIM_ConcreteDependency", \$instanceA.getObjectPath(), 998 \$instanceB.getObjectPath()); 999 &smEnd;

CIM_ElementCapabilities 6.8

1001 The cd and help verbs shall be supported as described in DSP0216.

1002 Table 9 lists each SM CLP verb, the required level of support for the verb in conjunction with instances of the target class, and, when appropriate, a cross-reference to the section detailing the mapping for the 1003 1004 verb and target. Table 9 is for informational purposes only; in case of a conflict between Table 9 and requirements detailed in the following sections, the text detailed in the following sections supersedes the 1005 information in Table 9. 1006

Table 9 – Command Verb Requirements for CIM ElementCapabilities

Command Verb	Requirement	Comments
create	Not supported	
delete	Not supported	
dump	Not supported	

Command Verb	Requirement	Comments
load	Not supported	
reset	Not supported	
set	Not supported	
show	Shall	See 6.8.2.
start	Not supported	
stop	Not supported	

- No mapping is defined for the following verbs for the specified target: create, delete, dump, load, reset, set, start, and stop.
- 1010 6.8.1 Ordering of Results
- 1011 When results are returned for multiple instances of CIM_ElementCapabilities, implementations shall
- 1012 utilize the following algorithm to produce the natural (that is, default) ordering:
- Results for CIM_ElementCapabilities are unordered; therefore, no algorithm is defined.
- 1014 **6.8.2** Show
- 1015 This section describes how to implement the show verb when applied to an instance of
- 1016 CIM_ElementCapabilities. Implementations shall support the use of the show verb with
- 1017 CIM_ElementCapabilities.
- 1018 The show command is used to display information about the CIM_ElementCapabilities instance or
- 1019 instances.
- 1020 6.8.2.1 Show Multiple Instances CIM EnabledLogicalElementCapabilities Reference
- 1021 This command form is for the show verb applied to multiple instances. This command form corresponds
- 1022 to a show command issued against CIM_ElementCapabilities where only one reference is specified and
- the reference is to an instance of CIM_EnabledLogicalElementCapabilities.
- 1024 **6.8.2.1.1 Command Form**
- 1025 show <CIM_ElementCapabilities multiple instances>
- 1026 **6.8.2.1.2 CIM Requirements**
- 1027 See CIM ElementCapabilities in the "CIM Elements" section of the Simple Identify Management Profile
- 1028 for the list of mandatory properties.
- 1029 6.8.2.1.3 Behavior Requirements
- 1030 **6.8.2.1.3.1 Preconditions**
- 1031 \$instance contains the instance of CIM_EnabledLogicalElementCapabilities which is referenced by
- 1032 CIM_ElementCapabilities.
- 1033 **6.8.2.1.3.2** Pseudo Code
- $\textbf{1034} \\ \textbf{\&smShowAssociationInstances ("CIM_ElementCapabilities", \\ \textbf{$instance.getObjectPath());} \\$
- 1035 &smEnd;

- 1036 **6.8.2.2 Show a Single Instance CIM_Account Reference**
- 1037 This command form is for the show verb applied to a single instance. This command form corresponds to
- 1038 a show command issued against CIM_ElementCapabilities where the reference specified is to an
- 1039 instance of CIM Account.
- 1040 **6.8.2.2.1 Command Form**
- 1041 show <CIM ElementCapabilities single instance>
- 1042 **6.8.2.2.2 CIM Requirements**
- 1043 See CIM ElementCapabilities in the "CIM Elements" section of the Simple Identify Management Profile
- 1044 for the list of mandatory properties.
- 1045 **6.8.2.2.3 Behavior Requirements**
- 1046 **6.8.2.2.3.1 Preconditions**
- 1047 \$instance contains the instance of CIM_Account, which is referenced by CIM_ElementCapabilities.
- 1048 **6.8.2.2.3.2** Pseudo Code
- 1049 &smShowAssociationInstances ("CIM_ElementCapabilities", \$instance.getObjectPath());
- 1050 &smEnd;
- 1051 6.8.2.3 Show Multiple Instances CIM_AccountManagementCapabilities Reference
- 1052 This command form is for the show verb applied to multiple instances. This command form corresponds
- 1053 to a show command issued against CIM ElementCapabilities where only one reference is specified and
- the reference is to an instance of CIM_EnabledLogicalElementCapabilities.
- 1055 **6.8.2.3.1 Command Form**
- 1056 show <CIM_ElementCapabilities multiple instances>
- 1057 **6.8.2.3.2 CIM Requirements**
- 1058 See CIM ElementCapabilities in the "CIM Elements" section of the Simple Identify Management Profile
- 1059 for the list of mandatory properties.
- 1060 **6.8.2.3.3 Behavior Requirements**
- 1061 **6.8.2.3.3.1 Preconditions**
- 1062 \$instance contains the instance of CIM_AccountManagementCapabilities which is referenced by
- 1063 CIM_ElementCapabilities.
- 1064 **6.8.2.3.3.2** Pseudo Code
- 1065 &smShowAssociationInstances ("CIM_ElementCapabilities", \$instance.getObjectPath());
- 1066 &smEnd;
- 1067 6.8.2.4 Show a Single Instance CIM_AccountManagementService Reference
- 1068 This command form is for the show verb applied to a single instance. This command form corresponds to
- 1069 a show command issued against CIM_ElementCapabilities where the reference specified is to an
- 1070 instance of CIM Account.

1071	6.8.2.4.1	Command Form
1072		ElementCapabilities single instance>
1072	SHOW CIM_	ElementCapabilities single instance>
1073	6.8.2.4.2	CIM Requirements
1074 1075		ementCapabilities in the "CIM Elements" section of the <u>Simple Identify Management Profile</u> mandatory properties.
1076	6.8.2.4.3	Behavior Requirements
1077	6.8.2.4.3.1	Preconditions
1078 1079		contains the instance of CIM_AccountManagementService which is referenced by ntCapabilities.
1080	6.8.2.4.3.2	Pseudo Code
1081 1082	&smShowAss &smEnd	ociationInstances ("CIM_ElementCapabilities", \$instance.getObjectPath());
1083 1084		Show a Single Instance – CIM_EnabledLogicalElementCapabilities and CIM_Account References
1085 1086 1087	a show com	and form is for the show verb applied to a single instance. This command form corresponds to mand issued against CIM_ElementCapabilities where both references are specified and e desired instance is unambiguously identified.
1088	6.8.2.5.1	Command Form
1089	show <cim_< td=""><td>ElementCapabilities single instance></td></cim_<>	ElementCapabilities single instance>
1090	6.8.2.5.2	CIM Requirements
1091 1092		ementCapabilities in the "CIM Elements" section of the <u>Simple Identify Management Profile</u> mandatory properties.
1093	6.8.2.5.3	Behavior Requirements
1094	6.8.2.5.3.1	Preconditions
1095 1096		A contains the instance of CIM_EnabledLogicalElementCapabilities which is referenced by ntCapabilities.
1097	\$instance	B contains the instance of CIM_Account which is referenced by CIM_ElementCapabilities.
1098	6.8.2.5.3.2	Pseudo Code
1099 1100 1101		ociationInstance ("CIM_ElementCapabilities", \$instanceA.getObjectPath(), nceB.getObjectPath());

1102 **6.8.2.6** Show a Single Instance – CIM_AccountManagementCapabilities and CIM_AccountManagementService References

This command form is for the show verb applied to a single instance. This command form corresponds to a show command issued against CIM_ElementCapabilities where both references are specified and therefore the desired instance is unambiguously identified.

1107 **6.8.2.6.1 Command Form**

1108 show <CIM_ElementCapabilities single instance>

1109 **6.8.2.6.2 CIM Requirements**

1110 See CIM_ElementCapabilities in the "CIM Elements" section of the <u>Simple Identify Management Profile</u>

1111 for the list of mandatory properties.

1112 6.8.2.6.3 Behavior Requirements

1113 6.8.2.6.3.1 Preconditions

1114 \$instanceA contains the instance of CIM_AccountManagementCapabilities which is referenced by

1115 CIM ElementCapabilities.

1116 \$instanceB contains the instance of CIM_AccountManagementService which is referenced by

1117 CIM_ElementCapabilities.

1118 6.8.2.6.3.2 Pseudo Code

1122 6.9 CIM_ElementSettingData

1123 The cd and help verbs shall be supported as described in DSP0216.

1124 Table 10 lists each SM CLP verb, the required level of support for the verb in conjunction with instances

of the target class, and, when appropriate, a cross-reference to the section detailing the mapping for the

verb and target. Table 10 is for informational purposes only; in case of a conflict between Table 10 and

1127 requirements detailed in the following sections, the text detailed in the following sections supersedes the

1128 information in Table 10.

1129

Table 10 – Command Verb Requirements for CIM_ElementSettingData

Command Verb	Requirement	Comments
create	Not supported	
delete	Not supported	
dump	Not supported	
load	Not supported	
reset	Not supported	
set	May	See 6.9.2.
show	Shall	See 6.9.3.
start	Not supported	
stop	Not supported	

No mappings are defined for the following verbs for the specified target: create, delete, dump, load, reset, set, start, and stop.

1132 **6.9.1 Ordering of Results**

- 1133 When results are returned for multiple instances of CIM_ElementSettingData, implementations shall
- 1134 utilize the following algorithm to produce the natural (that is, default) ordering:
- Results for CIM ElementSettingData are unordered; therefore, no algorithm is defined.

1136 **6.9.2 Set**

- 1137 This section describes how to implement the set verb when applied to an instance of
- 1138 CIM_ElementSettingData. Implementations shall support the use of the set verb for an instance of
- 1139 CIM_ElementSettingData which references an instance of CIM_AccountSettingData.

1140 **6.9.2.1 Set IsNext Property**

- 1141 This command form is for when the set verb is used to change the value of the IsNext property of an
- 1142 instance of CIM_ElementSettingData that associates an instance of CIM_AccountSettingData with an
- 1143 instance of CIM_AccountManagementService. The only valid input value is 1 (Is Next).

1144 **6.9.2.1.1** Command Form

1145 set <CIM_ElementSettingData single instance> IsNextt=propvalue>

1146 **6.9.2.1.2 CIM Requirements**

- 1147 See CIM_ElementSettingData, CIM_AccountSettingData, and CIM_AccountManagementService in the
- 1148 "CIM Elements" section of the <u>Simple Identify Management Profile</u> for the list of mandatory properties.

1149 6.9.2.1.3 Behavior Requirements

- \$\sinstance=<CIM_ElementSettingData single instance>
 \$\sinstance=<CIM_AccountSettingData single instance>
 #propertyNames[] = {<propertyname>};
 #propertyValues[] = {<propertyvalue>};
 %\$\smSetInstance (\\$instance, \#propertyNames[], \#propertyValues[]);
 %\$\smEnd;
- 1156 **6.9.3 Show**
- 1157 This section describes how to implement the show verb when applied to an instance of
- 1158 CIM ElementSettingData. Implementations shall support the use of the show verb with
- 1159 CIM ElementSettingData.
- 1160 The show command is used to display information about the CIM_ElementSettingData instance or
- 1161 instances.

1162 6.9.3.1 Show Multiple Instances – CIM AccountManagementService

- 1163 This command form is for the show verb applied to multiple instances. This command form corresponds
- to a show command issued against CIM_ElementSettingData where only one reference is specified and
- the reference is to an instance of CIM_AccountManagementService.

1166 **6.9.3.1.1 Command Form**

show <CIM_ElementSettingData multiple objects>

1168 **6.9.3.1.2 CIM Requirements**

- See CIM_ElementSettingData in the "CIM Elements" section of the <u>Simple Identify Management Profile</u>
- 1170 for the list of mandatory properties.
- 1171 6.9.3.1.3 Behavior Requirements
- 1172 **6.9.3.1.3.1** Preconditions
- 1173 \$instance contains the instance of CIM_IPProtocolEndpoint which is referenced by
- 1174 CIM_ElementSettingData.
- 1175 #all is true if the "-all" option was specified with the command; otherwise, #all is false.
- 1176 **6.9.3.1.3.2 Pseudo Code**

1185 6.9.3.2 Show Multiple Instances – CIM_AccountSettingData Reference

- 1186 This command form is for the show verb applied to multiple instances. This command form corresponds
- 1187 to a show command issued against CIM_ElementSettingData where only one reference is specified and
- the reference is to an instance of CIM_AccountSettingData.
- 1189 **6.9.3.2.1 Command Form**
- 1190 show <CIM_ElementSettingData multiple objects>
- 1191 **6.9.3.2.2 CIM Requirements**
- 1192 See CIM_ElementSettingData in the "CIM Elements" section of the Simple Identify Management Profile
- 1193 for the list of mandatory properties.
- 1194 6.9.3.2.3 Behavior Requirements
- 1195 **6.9.3.2.3.1 Preconditions**
- 1196 \$instance contains the instance of CIM_AccountSettingData which is referenced by
- 1197 CIM_ElementSettingData.
- 1198 #all is true if the "-all" option was specified with the command; otherwise, #all is false.
- 1199 **6.9.3.2.3.2 Pseudo Code**

1208 **6.9.3.3 Show a Single Instance – Both References**

- 1209 This command form is for the show verb applied to a single instance. This command form corresponds to
- 1210 a show command issued against CIM_ElementSettingData where both references are specified and
- therefore the desired instance is unambiguously identified.

1212 **6.9.3.3.1 Command Form**

show <CIM_ElementSettingData single object>

1214 CIM Requirements

1213

1223

1232

1234

1235

1236 1237

1238

1239

- 1215 See CIM_ElementSettingData in the "CIM Elements" section of the Simple Identify Management Profile
- 1216 for the list of mandatory properties.

1217 **6.9.3.3.2** Behavior Requirements

1218 **6.9.3.3.2.1 Preconditions**

- 1219 \$instanceA contains the instance of CIM AccountManagementService that is referenced by
- 1220 CIM_ElementSettingData.
- 1221 \$instanceB contains the instance of CIM_AccountSettingData referenced by CIM_ElementSettingData.
- 1222 #all is true if the "-all" option was specified with the command; otherwise, #all is false.

6.9.3.3.2.2 Pseudo Code

```
#propertylist[] = NULL;

if (#all == false)

{

#propertylist[] = { "IsNext" };

1228     }

#smShowAssociationInstance ( "CIM_ElementSettingData", $instanceA.getObjectPath(),

$instanceB.getObjectPath(), #propertylist[] );

&smEnd;
```

6.10 CIM_EnabledLogicalElementCapabilities

1233 The cd and help verbs shall be supported as described in <u>DSP0216</u>.

Table 11 lists each SM CLP verb, the required level of support for the verb in conjunction with instances of the target class, and, when appropriate, a cross-reference to the section detailing the mapping for the verb and target. Table 11 is for informational purposes only; in case of a conflict between Table 11 and requirements detailed in the following sections, the text detailed in the following sections supersedes the information in Table 11.

Table 11 – Cor	nmand Verb Reg	uirements for (CIM Ei	nabledLoc	ıicalElementCa	pabilities

Command Verb	Requirement	Comments
create	Not supported	
delete	Not supported	
dump	Not supported	
load	Not supported	
reset	Not supported	
set	Not supported	

Command Verb	Requirement	Comments
show	Shall	See 6.10.2.
start	Not supported	
stop	Not supported	

- 1240 No mapping is defined for the following verbs for the specified target: create, delete, dump, load,
- 1241 reset, set, start, and stop.

1242 6.10.1 Ordering of Results

- 1243 When results are returned for multiple instances of CIM EnabledLogicalElementCapabilities,
- implementations shall utilize the following algorithm to produce the natural (that is, default) ordering:
- Results for CIM_EnabledLogicalElementCapabilities are unordered; therefore, no algorithm is defined.

1247 **6.10.2 Show**

- 1248 This section describes how to implement the show verb when applied to an instance of
- 1249 CIM_EnabledLogicalElementCapabilities. Implementations shall support the use of the show verb with
- 1250 CIM EnabledLogicalElementCapabilities.
- 1251 The show verb is used to display information about an instance or instances of the
- 1252 CIM_EnabledLogicalElementCapabilities class.

1253 **6.10.2.1 Show a Single Instance**

- 1254 This command form is for the show verb applied to a single instance of
- 1255 CIM EnabledLogicalElementCapabilities.
- 1256 **6.10.2.1.1 Command Form**
- 1257 show <CIM_EnabledLogicalElementCapabilities single instance>
- 1258 **6.10.2.1.2 CIM Requirements**
- 1259 See CIM_EnabledLogicalElementCapabilities in the "CIM Elements" section of the Simple Identify
- 1260 <u>Management Profile</u> for the list of mandatory properties.
- 1261 6.10.2.1.3 Behavior Requirements
- 1262 **6.10.2.1.3.1** Preconditions
- 1263 #all is true if the "-all" option was specified with the command; otherwise, #all is false.

1264 **6.10.2.1.3.2** Pseudo Code

```
$\sinstance < CIM_EnabledLogicalElementCapabilities single instance>

#propertylist[] = NULL;

if (false == #all)

{
    #propertylist[] = {//all mandatory non-key properties}

}

270  }

&smShowInstance ($instance.getObjectPath(), #propertylist[]);

&smEnd;
```

1273 **6.10.2.2 Show Multiple Instances**

- 1274 This command form is for the show verb applied to multiple instances of
- 1275 CIM_EnabledLogicalElementCapabilities. This command form corresponds to UFsT-based selection
- 1276 within a capabilities collection.

1277 **6.10.2.2.1 Command Form**

1278 show <CIM EnabledLogicalElementCapabilities multiple instances>

1279 **6.10.2.2.2 CIM Requirements**

- 1280 See CIM EnabledLogicalElementCapabilities in the "CIM Elements" section of the Simple Identify
- 1281 *Management Profile* for the list of mandatory properties.
- 1282 6.10.2.2.3 Behavior Requirements
- 1283 **6.10.2.2.3.1 Preconditions**
- 1284 \$containerInstance contains the instance of CIM_Group for which contained CIM_Capabilities
- 1285 instances are displayed. CIM_Capabilities instances are addressed via an aggregating instance of
- 1286 CIM Group.

1288

1297

1304

1287 #all is true if the "-all" option was specified with the command; otherwise, #all is false.

6.10.2.2.3.2 Pseudo Code

```
#propertylist[] = NULL;

if ( false == #all)

{

    #propertylist[] = { //all mandatory non-key properties }

}

293

}

294

&smShowInstances ( "CIM_EnabledLogicalElementCapabilities", "CIM_MemberOfCollection",

$containerInstance.getObjectPath(), #propertylist[] );

&smEnd;
```

6.11 CIM Group

1298 The cd and help verbs shall be supported as described in DSP0216.

Table 12 lists each SM CLP verb, the required level of support for the verb in conjunction with the target class, and, when appropriate, a cross-reference to the section detailing the mapping for the verb and target. Table 12 is for informational purposes only; in case of a conflict between Table 12 and requirements detailed in the following sections, the text detailed in the following sections supersedes the information in Table 12.

Table 12 – Command Verb Requirements for CIM_Group

Command Verb	Requirement	Comments
create	Not supported	None
delete	Not supported	None
dump	Not supported	None
load	Not supported	None
reset	Not supported	None

Command Verb	Requirement	Comments
set	Not supported	None
show	Shall	See 6.11.2.
start	Not supported	None
stop	Not supported	None

- No mapping is defined for the following verbs for the specified target: create, delete, dump, load, reset, set, start, and stop.
- 1307 **6.11.1 Ordering of Results**
- When results are returned for multiple instances of CIM_Group, implementations shall utilize the following algorithm to produce the natural (that is, default) ordering:
- Results for CIM Group are unordered; therefore, no algorithm is defined.
- 1311 **6.11.2 Show**
- 1312 This section describes how to implement the show verb when applied to an instance of CIM_Group.
- 1313 Implementations shall support the use of the show verb with CIM_Group.
- 1314 **6.11.2.1 Show a Single Instance**
- 1315 Use this command to show a single instance of CIM_Group.
- 1316 **6.11.2.1.1 Command Form**
- 1317 show <CIM_Group single instance>
- 1318 **6.11.2.1.2 CIM Requirements**
- See CIM_Group in the "CIM Elements" section of the <u>Simple Identify Management Profile</u> for the list of mandatory properties.
- 1321 6.11.2.1.3 Behavior Requirements
- 1322 6.11.2.1.3.1 Preconditions
- 1323 #all is true if the "-all" option was specified with the command; otherwise, #all is false.
- 1324 **6.11.2.1.3.2** Pseudo Code

```
$ $instance < CIM_Group single instance>

#propertylist[] = NULL;

if (false == #all)

{
    #propertylist[] = { //all mandatory non-key properties }
    }

}

$ &smShowInstance ( $instance.getObjectPath(), #propertylist[] );

&smEnd;
```

- 6.11.2.2 Show Multiple Instances
- 1334 Use this command to show multiple instances of CIM_Group.

1345

1354

1356

1357

1358

1359 1360

1361

1335 **6.11.2.2.1 Command Form**

1336 show <CIM_Group multiple instances>

6.11.2.2.2 CIM Requirements

See CIM_Group in the "CIM Elements" section of the <u>Simple Identify Management Profile</u> for the list of mandatory properties.

1340 6.11.2.2.3 Behavior Requirements

1341 6.11.2.2.3.1 Preconditions

1342 \$containerInstance contains the instance of CIM_ComputerSystem for which related CIM_Group instances are displayed.

1344 #all is true if the "-all" option was specified with the command; otherwise, #all is false.

6.11.2.2.3.2 Pseudo Code

6.12 CIM HostedService

1355 The cd and help verbs shall be supported as described in DSP0216.

Table 13 lists each SM CLP verb, the required level of support for the verb in conjunction with instances of the target class, and, when appropriate, a cross-reference to the section detailing the mapping for the verb and target. Table 13 is for informational purposes only; in case of a conflict between Table 13 and requirements detailed in the following sections, the text detailed in the following sections supersedes the information in Table 13.

Table 13 – Command Verb Requirements for CIM_HostedService

Command Verb	Requirement	Comments
create	Not supported	
delete	Not supported	
dump	Not supported	
load	Not supported	
reset	Not supported	
set	Not supported	
show	Shall	See 6.12.2.
start	Not supported	
stop	Not supported	

No mapping is defined for the following verbs for the specified target: create, delete, dump, load, reset, set, start, and stop.

1364 6.12.1 Ordering of Results

- When results are returned for multiple instances of CIM_HostedService, implementations shall utilize the
- following algorithm to produce the natural (that is, default) ordering:
- Results for CIM HostedService are unordered; therefore, no algorithm is defined.
- 1368 **6.12.2 Show**
- 1369 This section describes how to implement the show verb when applied to an instance of
- 1370 CIM HostedService. Implementations shall support the use of the show verb with CIM HostedService.
- 1371 The show command is used to display information about the CIM_HostedService instance or instances.
- 1372 6.12.2.1 Show Multiple Instances CIM ComputerSystem Reference
- 1373 This command form is for the show verb applied to multiple instances. This command form corresponds
- to a show command issued against CIM_HostedService where only one reference is specified and the
- 1375 reference is to an instance of CIM ComputerSystem.
- 1376 **6.12.2.1.1 Command Form**
- 1377 show <CIM_HostedService multiple instances>
- 1378 **6.12.2.1.2 CIM Requirements**
- 1379 See CIM HostedService in the "CIM Elements" section of the Simple Identify Management Profile for the
- 1380 list of mandatory properties.
- 1381 **6.12.2.1.3** Behavior Requirements
- 1382 **6.12.2.1.3.1 Preconditions**
- 1383 \$instance contains the instance of CIM_ComputerSystem which is referenced by CIM_HostedService.
- 1384 **6.12.2.1.3.2** Pseudo Code
- 1385 &smShowAssociationInstances ("CIM_HostedService", \$instance.getObjectPath());
- 1386 &smEnd;
- 1387 6.12.2.2 Show a Single Instance CIM_AccountManagementService Reference
- 1388 This command form is for the show verb applied to a single instance. This command form corresponds to
- 1389 a show command issued against CIM_HostedService where the reference specified is to an instance of
- 1390 CIM_AccountManagementService. An instance of CIM_AccountManagementService is referenced by
- exactly one instance of CIM_HostedService. Therefore, a single instance will be returned.
- 1392 **6.12.2.2.1 Command Form**
- 1393 show <CIM_HostedService single instance>
- 1394 **6.12.2.2.2 CIM Requirements**
- 1395 See CIM_HostedService in the "CIM Elements" section of the Simple Identify Management Profile for the
- 1396 list of mandatory properties.

1397 6.12.2.2.3 Behavior Requirements

1398 **6.12.2.2.3.1 Preconditions**

1399 \$instance contains the instance of CIM_AccountManagementService which is referenced by

1400 CIM HostedService.

1401 **6.12.2.3.2** Pseudo Code

1402 &smShowAssociationInstances ("CIM_HostedService", \$instance.getObjectPath());

1403 &smEnd;

1404 6.12.2.3 Show a Single Instance – Both References

1405 This command form is for the show verb applied to a single instance. This command form corresponds to

1406 a show command issued against CIM_HostedService where both references are specified and therefore

the desired instance is unambiguously identified.

1408 **6.12.2.3.1 Command Form**

1409 show <CIM HostedService single instance>

1410 **6.12.2.3.2 CIM Requirements**

1411 See CIM HostedService in the "CIM Elements" section of the Simple Identify Management Profile for the

1412 list of mandatory properties.

1413 6.12.2.3.3 Behavior Requirements

1414 6.12.2.3.3.1 Preconditions

1415 \$instanceA contains the instance of CIM_ComputerSystem which is referenced by

1416 CIM HostedService.

1417 \$instanceB contains the instance of CIM AccountManagementService which is referenced by

1418 CIM HostedService.

1419 **6.12.2.3.3.2** Pseudo Code

```
1420 &smShowAssociationInstance ( "CIM_HostedService", $instanceA.getObjectPath(),
1421 $instanceB.getObjectPath() );
```

\$111StanceB.getObjectPath());

1422 &smEnd;

1430

1423 **6.13 CIM_Identity**

1424 The cd and help verbs shall be supported as described in DSP0216.

Table 14 lists each SM CLP verb, the required level of support for the verb in conjunction with instances

of the target class, and, when appropriate, a cross-reference to the section detailing the mapping for the

1427 verb and target. Table 14 is for informational purposes only; in case of a conflict between Table 14 and

1428 requirements detailed in the following sections, the text detailed in the following sections supersedes the

1429 information in Table 14.

Table 14 – Command Verb Requirements for CIM_Identity

Command Verb	Requirement	Comments
create	Not supported	
delete	Not supported	

Command Verb	Requirement	Comments
dump	Not supported	
load	Not supported	
reset	Not supported	
set	Not supported	
show	Shall	See 6.13.2.
start	Not supported	
stop	Not supported	

- 1431 No mapping is defined for the following verbs for the specified target: create, delete, dump, load,
- 1432 reset, set, show, start, and stop.

1433 6.13.1 Ordering of Results

- 1434 When results are returned for multiple instances of CIM_Identity, implementations shall utilize the
- following algorithm to produce the natural (that is, default) ordering:
- Results for CIM_Identity are unordered; therefore, no algorithm is defined.

1437 **6.13.2 Show**

- 1438 This section describes how to implement the show verb when applied to an instance of CIM_Identity.
- 1439 Implementations shall support the use of the show verb with CIM_Identity.

1440 **6.13.2.1 Show a Single Instance**

1441 Use this verb to show a single instance of CIM_Identity.

1442 **6.13.2.1.1 Command Form**

1443 show <CIM_Identity single instance>

1444 **6.13.2.1.2 CIM Requirements**

- See CIM_Identity in the "CIM Elements" section of the <u>Simple Identify Management Profile</u> for the list of
- 1446 mandatory properties.

1447 6.13.2.1.3 Behavior Requirements

1448 **6.13.2.1.3.1 Preconditions**

#all is true if the "-all" option was specified with the command; otherwise, #all is false.

1450 **6.13.2.1.3.2** Pseudo Code

```
$ $instance=<CIM_Identity single instance>

#propertylist[] = NULL;

if (false == #all)

{
    #propertylist[] = { //all mandatory non-key properties }
    }

456 }

&smShowInstance ( $instance.getObjectPath(), #propertylist[] );

&smEnd;
```

1459 **6.13.2.2 Show Multiple Instances**

1460 Use this verb to show multiple instances of CIM_Identity.

1461 **6.13.2.2.1 Command Form**

1462 show <CIM_Identity multiple instances>

1463 **6.13.2.2.2 CIM Requirements**

See CIM_Identity in the "CIM Elements" section of the <u>Simple Identify Management Profile</u> for the list of mandatory properties.

1466 **6.13.2.2.3 Behavior Requirements**

1467 **6.13.2.2.3.1 Preconditions**

\$containerInstance contains the instance of CIM_Account, CIM_Group, or CIM_UserContact for which related CIM_Identity instances are displayed.

1470 #all is true if the "-all" option was specified with the command; otherwise, #all is false.

1471 6.13.2.2.3.2 Pseudo Code

6.14 CIM IdentityContext

1481

1483

1484

1485

1486 1487

1488

1482 The cd and help verbs shall be supported as described in DSP0216.

Table 15 lists each SM CLP verb, the required level of support for the verb in conjunction with instances of the target class, and, when appropriate, a cross-reference to the section detailing the mapping for the verb and target. Table 15 is for informational purposes only; in case of a conflict between Table 15 and requirements detailed in the following sections, the text detailed in the following sections supersedes the information in Table 15.

Table 15 – Command	Verb Requirements	for CIM_IdentityContext
--------------------	-------------------	-------------------------

Command Verb	Requirement	Comments
create	Not supported	
delete	Not supported	
dump	Not supported	
load	Not supported	
reset	Not supported	
set	Not supported	

Command Verb	Requirement	Comments
show	Shall	See 6.14.2.
start	Not supported	
stop	Not supported	

- 1489 No mapping is defined for the following verbs for the specified target: create, delete, dump, load,
- 1490 reset, set, start, and stop.

1491 **6.14.1 Ordering of Results**

- When results are returned for multiple instances of CIM_IdentityContext, implementations shall utilize the
- following algorithm to produce the natural (that is, default) ordering:
- Results for CIM_IdentityContext are unordered; therefore, no algorithm is defined.
- 1495 **6.14.2 Show**
- 1496 This section describes how to implement the show verb when applied to an instance of
- 1497 CIM_IdentityContext. Implementations shall support the use of the show verb with CIM_IdentityContext.
- 1498 The show command is used to display information about the CIM_IdentityContext instance or instances.
- 1499 6.14.2.1 Show Multiple Instances CIM_ManagedElement Reference
- 1500 This command form is for the show verb applied to multiple instances. This command form corresponds
- 1501 to a show command issued against CIM IdentityContext where only one reference is specified and the
- reference is to an instance of CIM ManagedElement.
- 1503 **6.14.2.1.1 Command Form**
- 1504 show <CIM_IdentityContext multiple instances>
- 1505 **6.14.2.1.2 CIM Requirements**
- 1506 See CIM_IdentityContext in the "CIM Elements" section of the <u>Simple Identify Management Profile</u> for the
- 1507 list of mandatory properties.
- 1508 6.14.2.1.3 Behavior Requirements
- 1509 **6.14.2.1.3.1 Preconditions**
- 1510 \$instance contains the instance of CIM_Role that is referenced by CIM_IdentityContext.
- 1511 **6.14.2.1.3.2 Pseudo Code**
- 1512 &smShowAssociationInstances ("CIM_IdentityContext", \$instance.getObjectPath());
- 1513 &smEnd;
- 1514 **6.14.2.2 Show Multiple Instances CIM_Identity Reference**
- 1515 This command form is for the show verb applied to a single instance. This command form corresponds to
- 1516 a show command issued against CIM_IdentityContext where the reference specified is to an instance of
- 1517 CIM_Identity.

- 1518 **6.14.2.2.1 Command Form**
- 1519 show <CIM_IdentityContext multiple instances>
- 1520 **6.14.2.2.2 CIM Requirements**
- 1521 See CIM IdentityContext in the "CIM Elements" section of the Simple Identify Management Profile for the
- 1522 list of mandatory properties.
- 1523 6.14.2.2.3 Behavior Requirements
- 1524 6.14.2.2.3.1 Preconditions
- 1525 \$instance contains the instance of CIM_Identity which is referenced by CIM_IdentityContext.
- 1526 **6.14.2.2.3.2** Pseudo Code
- 1527 &smShowAssociationInstances ("CIM_IdentityContext", \$instance.getObjectPath());
- 1528 &smEnd;
- 1529 6.14.2.3 Show a Single Instance Both References
- 1530 This command form is for the show verb applied to a single instance. This command form corresponds to
- 1531 a show command issued against CIM_IdentityContext where both references are specified and therefore
- the desired instance is unambiguously identified.
- 1533 **6.14.2.3.1 Command Form**
- 1534 show <CIM_IdentityContext single instance>
- 1535 **6.14.2.3.2 CIM Requirements**
- 1536 See CIM_IdentityContext in the "CIM Elements" section of the Simple Identify Management Profile for the
- 1537 list of mandatory properties.
- 1538 6.14.2.3.3 Behavior Requirements
- 1539 **6.14.2.3.3.1 Preconditions**
- 1540 \$instanceA contains the instance of CIM_Identity which is referenced by CIM_IdentityContext.
- 1541 \$instanceB contains the instance of CIM ManagedElement which is referenced by
- 1542 CIM IdentityContext.
- 1543 **6.14.2.3.3.2 Pseudo Code**
- 1544 &smShowAssociationInstance ("CIM IdentityContext", \$instanceA.getObjectPath(),
- 1545 \$instanceB.getObjectPath());
- 1546 &smEnd;
- 1547 6.15 CIM_MemberOfCollection
- 1548 The cd and help verbs shall be supported as described in <u>DSP0216</u>.
- Table 16 lists each SM CLP verb, the required level of support for the verb in conjunction with the target
- class, and, when appropriate, a cross-reference to the section detailing the mapping for the verb and
- 1551 target. Table 16 is for informational purposes only; in case of a conflict between Table 16 and
- requirements detailed in the following sections, the text detailed in the following sections supersedes the
- 1553 information in Table 16.

1557

Table 16 - Command Verb Requirements for CIM_MemberOfCollection

Command Verb	Requirement	Comments
create	Not supported	None
delete	Not supported	None
dump	Not supported	None
load	Not supported	None
reset	Not supported	None
set	Not supported	None
show	Shall	See 6.15.2.
start	Not supported	None
stop	Not supported	None

1555 No mapping is defined for the following verbs for the specified target: create, delete, dump, load, 1556

reset, set, start, and stop.

6.15.1 Ordering of Results

- When results are returned for multiple instances of CIM_MemberOfCollection, implementations shall 1558 1559 utilize the following algorithm to produce the natural (that is, default) ordering:
- 1560 Results for CIM MemberOfCollection are unordered; therefore, no algorithm is defined.

6.15.2 Show 1561

- 1562 This section describes how to implement the show verb when applied to an instance of
- 1563 CIM_MemberOfCollection. Implementations shall support the use of the show verb with
- CIM MemberOfCollection. 1564

1565 6.15.2.1 Show a Single Instance – Both References

- 1566 This command form is for the show command applied to CIM MemberOfCollection where both
- references are specified. Therefore, exactly one instance is shown. 1567

1568 6.15.2.1.1 **Command Form**

- 1569 show <CIM MemberOfCollection single instance>
- 1570 6.15.2.1.2 CIM Requirements
- See CIM MemberOfCollection in the "CIM Elements" section of the Simple Identify Management Profile 1571
- 1572 for the list of mandatory properties.

6.15.2.1.3 Behavior Requirements 1573

1574 6.15.2.1.3.1 Preconditions

- 1575 \$instanceA contains one of the instances of CIM_Group referenced by CIM_MemberOfCollection.
- 1576 \$instanceB contains one of the instances of CIM_Identity referenced by CIM_MemberOfCollection.
- 1577 #all is true if the "-all" option was specified with the command; otherwise, #all is false.

1578 **6.15.2.1.3.2 Pseudo Code**

1587 6.15.2.2 Show Multiple Instances – CIM_Group Reference

- 1588 This command form is for the show command applied to an instance of CIM_MemberOfCollection where
- only the reference to an instance of CIM_Group is specified. Zero or more instances of
- 1590 CIM MemberOfCollection can reference a single instance of CIM Group.
- 1591 **6.15.2.2.1 Command Form**
- 1592 show <CIM_MemberOfCollection multiple instances>
- 1593 **6.15.2.2.2 CIM Requirements**
- 1594 See CIM_MemberOfCollection in the "CIM Elements" section of the <u>Simple Identify Management Profile</u>
- 1595 for the list of mandatory properties.
- 1596 6.15.2.2.3 Behavior Requirements
- 1597 **6.15.2.2.3.1 Preconditions**
- 1598 \$instance contains the instance of CIM_Group that is referenced by CIM_MemberOfCollection.
- 1599 #all is true if the "-all" option was specified with the command; otherwise, #all is false.

1600 **6.15.2.2.3.2** Pseudo Code

1609 6.15.2.3 Show Multiple Instances – CIM_Identity Reference

- 1610 This command form is for the show command applied to CIM_MemberOfCollection where only the
- 1611 reference to an instance of CIM Identity is specified. An instance of CIM Identity can be referenced by
- zero or more instances of CIM_MemberOfCollection.
- 1613 **6.15.2.3.1 Command Form**
- 1614 show <CIM MemberOfCollection single instances>

1615 **6.15.2.3.2 CIM Requirements**

- See CIM_MemberOfCollection in the "CIM Elements" section of the <u>Simple Identify Management Profile</u> for the list of mandatory properties.
- 1618 **6.15.2.3.3 Behavior Requirements**
- 1619 **6.15.2.3.3.1 Preconditions**
- 1620 \$instance contains the instance of CIM Identity that is referenced by CIM MemberOfCollection.
- 1621 #all is true if the "-all" option was specified with the command; otherwise, #all is false.

1622 **6.15.2.3.3.2** Pseudo Code

1631

1638

6.16 CIM_OwningCollectionElement

1632 The cd and help verbs shall be supported as described in DSP0216.

Table 17 lists each SM CLP verb, the required level of support for the verb in conjunction with the target class, and, when appropriate, a cross-reference to the section detailing the mapping for the verb and target. Table 17 is for informational purposes only; in case of a conflict between Table 17 and requirements detailed in the following sections, the text detailed in the following sections supersedes the information in Table 17.

Table 17 – Command Verb Requirements for CIM_OwningCollectionElement

Command Verb	Requirement	Comments
create	Not supported	None
delete	Not supported	None
dump	Not supported	None
load	Not supported	None
reset	Not supported	None
set	Not supported	None
show	Shall	See 6.16.2.
start	Not supported	None
stop	Not supported	None

No mapping is defined for the following verbs for the specified target: create, delete, dump, load, reset, set, start, and stop.

1641 **6.16.1 Ordering of Results**

- When results are returned for multiple instances of CIM_OwningCollectionElement, implementations shall
- 1643 utilize the following algorithm to produce the natural (that is, default) ordering:
- Results for CIM_OwningCollectionElement are unordered; therefore, no algorithm is defined.

1645 **6.16.2 Show**

- 1646 This section describes how to implement the show verb when applied to an instance of
- 1647 CIM OwningCollectionElement. Implementations shall support the use of the show verb with
- 1648 CIM_OwningCollectionElement.

1649 **6.16.2.1 Show a Single Instance – Both References**

- 1650 This command form is for the show command applied to CIM OwningCollectionElement where both
- references are specified. Therefore, a single instance will be returned.
- 1652 **6.16.2.1.1 Command Form**
- show <CIM OwningCollectionElement single instance>
- 1654 **6.16.2.1.2 CIM Requirements**
- 1655 See CIM_OwningCollectionElement in the "CIM Elements" section of the Simple Identify Management
- 1656 *Profile* for the list of mandatory properties.
- 1657 6.16.2.1.3 Behavior Requirements
- 1658 **6.16.2.1.3.1 Preconditions**
- 1659 \$instanceA contains one of the instances of <CIM_Group> that is referenced by
- 1660 CIM_OwningCollectionElement.
- 1661 \$instanceB contains one of the instances of <CIM_ComputerSystem> that referenced by
- 1662 CIM OwningCollectionElement.
- 1663 #all is true if the "-all" option was specified with the command; otherwise, #all is false.

1664 **6.16.2.1.3.2 Pseudo Code**

1673

6.16.2.2 Show Multiple Instances – CIM_ComputerSystem reference

- 1674 This command form is for the show command applied to CIM_OwningCollectionElement where only the
- reference to an instance of CIM_ComputerSystem is specified. An instance of CIM_ComputerSystem can
- be referenced by multiple instances of CIM OwningCollectionElement.

1677 **6.16.2.2.1 Command Form**

- 1678 show <CIM_OwningCollectionElement multiple instances>
- 1679 **6.16.2.2.2 CIM Requirements**
- 1680 See CIM OwningCollectionElement in the "CIM Elements" section of the Simple Identify Management
- 1681 *Profile* for the list of mandatory properties.
- 1682 6.16.2.2.3 Behavior Requirements
- 1683 6.16.2.2.3.1 Preconditions
- 1684 \$instance contains the instance of <CIM_ComputerSystem> that is referenced by
- 1685 CIM_OwningCollectionElement.
- 1686 #all is true if the "-all" option was specified with the command; otherwise, #all is false.
- 1687 **6.16.2.2.3.2 Pseudo Code**

- 1696 6.16.2.3 Show a Single Instance CIM_Group Reference
- 1697 This command form is for the show command applied to CIM_OwningCollectionElement where only the
- reference to an instance of CIM_Group is specified. An instance of CIM_Group is referenced by exactly
- one instance of CIM OwningCollectionElement. Therefore, a single instance is returned.
- 1700 **6.16.2.3.1 Command Form**
- 1701 show <CIM_OwningCollectionElement single instances>
- 1702 **6.16.2.3.2 CIM Requirements**
- 1703 See CIM_OwningCollectionElement in the "CIM Elements" section of the <u>Simple Identify Management</u>
- 1704 <u>Profile</u> for the list of mandatory properties.
- 1705 **6.16.2.3.3 Behavior Requirements**
- 1706 **6.16.2.3.3.1 Preconditions**
- 1707 \$instance contains the instance of <CIM_Group> that is referenced by CIM_OwningCollectionElement.
- 1708 #all is true if the "-all" option was specified with the command; otherwise, #all is false.

1718

1720

1721 1722

1723

1724

1725

1728

1731

6.16.2.3.3.2 Pseudo Code

```
#propertylist[] = NULL;

if ( false == #all)

{
    #propertylist[] = { //all mandatory non-key properties};

}

#propertylist[] = { //all mandatory non-key properties};

}

**SmShowAssociationInstances ( "CIM_OwningCollectionElement",

**sinstance.getObjectPath(), #propertylist[] );

**SmEnd;

**SmEnd;
```

6.17 CIM ServiceAffectsElement

1719 The cd and help verbs shall be supported as described in <u>DSP0216</u>.

Table 18 lists each SM CLP verb, the required level of support for the verb in conjunction with instances of the target class, and, when appropriate, a cross-reference to the section detailing the mapping for the verb and target. Table 18 is for informational purposes only; in case of a conflict between Table 18 and requirements detailed in the following sections, the text detailed in the following sections supersedes the information in Table 18.

Table 18 - Command Verb Requirements for CIM ServiceAffectsElement

Command Verb	Requirement	Comments
create	Not supported	
delete	Not supported	
dump	Not supported	
load	Not supported	
reset	Not supported	
set	Not supported	
show	Shall	See 6.17.2.
start	Not supported	
stop	Not supported	

The following verbs shall not be supported for the specified target: create, delete, dump, load, reset, set, start, and stop.

6.17.1 Ordering of Results

When results are returned for multiple instances of CIM_ServiceAffectsElement, implementations shall utilize the following algorithm to produce the natural (that is, default) ordering:

Results for CIM_ServiceAffectsElement are unordered; therefore, no algorithm is defined.

1732 **6.17.2 Show**

- 1733 This section describes how to implement the show verb when applied to an instance of
- 1734 CIM_ServiceAffectsElement. Implementations shall support the use of the show verb with
- 1735 CIM_ServiceAffectsElement.

- 1736 The show command is used to display information about the CIM ServiceAffectsElement instance or
- 1737 instances.
- 1738 **6.17.2.1 Show a Single Instance CIM_Identity**
- 1739 This command form is for the show verb applied to a single instance. This command form corresponds to
- 1740 a show command issued against CIM_ServiceAffectsElement where the reference specified is to an
- 1741 instance of CIM Identity. An instance of CIM Identity is referenced by exactly one instance of
- 1742 CIM_ServiceAffectsElement. Therefore, a single instance will be returned.
- 1743 **6.17.2.1.1 Command Form**
- 1744 show <CIM_ServiceAffectsElement single instance>
- 1745 **6.17.2.1.2 CIM Requirements**
- 1746 See CIM_ServiceAffectsElement in the "CIM Elements" section of the Simple Identify Management Profile
- 1747 for the list of mandatory properties.
- 1748 6.17.2.1.3 Behavior Requirements
- 1749 **6.17.2.1.3.1 Preconditions**
- 1750 \$instance contains the instance of CIM_Identity which is referenced by CIM_ServiceAffectsElement.
- 1751 **6.17.2.1.3.2 Pseudo Code**
- 1752 &smShowAssociationInstances ("CIM_ServiceAffectsElement",
- \$\finstance.getObjectPath());
- 1754 &smEnd;
- 1755 **6.17.2.2 Show a Single Instance Both References**
- 1756 This command form is for the show verb applied to a single instance. This command form corresponds to
- 1757 a show command issued against CIM_ServiceAffectsElement where both references are specified and
- therefore the desired instance is unambiguously identified.
- 1759 **6.17.2.2.1 Command Form**
- 1760 show <CIM ServiceAffectsElement single instance>
- 1761 **6.17.2.2.2 CIM Requirements**
- 1762 See CIM_ServiceAffectsElement in the "CIM Elements" section of the Simple Identify Management Profile
- 1763 for the list of mandatory properties.
- 1764 6.17.2.2.3 Behavior Requirements
- 1765 **6.17.2.2.3.1 Preconditions**
- 1766 \$instanceA contains the instance of CIM AccountManagementService that is referenced by
- 1767 CIM ServiceAffectsElement.
- 1768 \$instanceB contains the instance of CIM Identity that is referenced by CIM ServiceAffectsElement.

1780

1769 **6.17.2.2.3.2** Pseudo Code

6.18 CIM SettingsDefineCapabilities

1774 The cd and help verbs shall be supported as described in <u>DSP0216</u>.

Table 19 lists each SM CLP verb, the required level of support for the verb in conjunction with instances of the target class, and, when appropriate, a cross-reference to the section detailing the mapping for the verb and target. Table 19 is for informational purposes only; in case of a conflict between Table 19 and requirements detailed in the following sections, the text detailed in the following sections supersedes the information in Table 19.

Table 19 - Command Verb Requirements for CIM SettingsDefineCapabilities

Command Verb	Requirement	Comments
create	Not supported	
delete	Not supported	
dump	Not supported	
load	Not supported	
reset	Not supported	
set	Not supported	
show	Shall	See 6.18.2.
start	Not supported	
stop	Not supported	

No mappings are defined for the following verbs for the specified target: create, delete, dump, load, reset, set, start, and stop.

1783 **6.18.1 Ordering of Results**

When results are returned for multiple instances of CIM_SettingsDefineCapabilities, implementations shall utilize the following algorithm to produce the natural (that is, default) ordering:

Results for CIM SettingsDefineCapabilities are unordered; therefore, no algorithm is defined.

1787 **6.18.2 Show**

1786

- 1788 This section describes how to implement the show verb when applied to an instance of
- 1789 CIM SettingsDefineCapabilities. Implementations shall support the use of the show verb with
- 1790 CIM SettingsDefineCapabilities.
- 1791 The show command is used to display information about the CIM_SettingsDefineCapabilities instance or 1792 instances.

- 1793 6.18.2.1 Show Multiple Instances CIM_AccountManagementCapabilities
- 1794 This command form is for the show verb applied to multiple instances. This command form corresponds
- 1795 to a show command issued against CIM_SettingsDefineCapabilities where only one reference is
- 1796 specified and the reference is to an instance of CIM_AccountManagementCapabilities.
- 1797 **6.18.2.1.1 Command Form**
- 1798 show <CIM SettingsDefineCapabilities multiple objects>
- 1799 **6.18.2.1.2 CIM Requirements**
- 1800 See CIM SettingsDefineCapabilities in the "CIM Elements" section of the Simple Identify Management
- 1801 *Profile* for the list of mandatory properties.
- 1802 6.18.2.1.3 Behavior Requirements
- 1803 **6.18.2.1.3.1 Preconditions**
- 1804 \$instance contains the instance of CIM_AccountManagementCapabilities.
- 1805 #all is true if the "-all" option was specified with the command; otherwise, #all is false.
- 1806 **6.18.2.1.3.2 Pseudo Code**

- 1815 6.18.2.2 Show Multiple Instances CIM_EnabledLogicalElementCapabilities
- 1816 This command form is for the show verb applied to multiple instances. This command form corresponds
- 1817 to a show command issued against CIM_SettingsDefineCapabilities where only one reference is
- 1818 specified and the reference is to an instance of CIM EnabledLogicalElementCapabilities.
- 1819 **6.18.2.2.1 Command Form**
- show <CIM_SettingsDefineCapabilities multiple objects>
- 1821 **6.18.2.2.2 CIM Requirements**
- See CIM SettingsDefineCapabilities in the "CIM Elements" section of the Simple Identify Management
- 1823 <u>Profile</u> for the list of mandatory properties.
- 1824 **6.18.2.2.3 Behavior Requirements**
- 1825 **6.18.2.2.3.1 Preconditions**
- 1826 \$instance contains the instance of IM EnabledLogicalElementCapabilities.
- 1827 #all is true if the "-all" option was specified with the command; otherwise, #all is false.

6.18.2.2.3.2 Pseudo Code

1837 6.18.2.3 Show Multiple Instances – CIM_AccountSettingData Reference

- 1838 This command form is for the show verb applied to multiple instances. This command form corresponds
- 1839 to a show command issued against CIM_SettingsDefineCapabilities where only one reference is
- 1840 specified and the reference is to an instance of CIM AccountSettingData.

1841 **6.18.2.3.1 Command Form**

show <CIM_SettingsDefineCapabilities multiple objects>

1843 **6.18.2.3.2 CIM Requirements**

- 1844 See CIM SettingsDefineCapabilities in the "CIM Elements" section of the Simple Identify Management
- 1845 *Profile* for the list of mandatory properties.

1846 **6.18.2.3.3 Behavior Requirements**

1847 **6.18.2.3.3.1 Preconditions**

- 1848 \$instance contains the instance of CIM_AccountSettingData which is referenced by
- 1849 CIM SettingsDefineCapabilities.
- 1850 #all is true if the "-all" option was specified with the command; otherwise, #all is false.

1851 **6.18.2.3.3.2 Pseudo Code**

6.18.2.4 Show Single Instances – CIM_AccountManagementCapabilities Reference with Other Reference to CIM_AccountSettingData

This command form is for the show verb applied to multiple instances. This command form corresponds to a show command issued against CIM_SettingsDefineCapabilities where a reference is specified to an instance of CIM_AccountManagementCapabilities and the other reference is to an instance of CIM AccountSettingData.

1866 **6.18.2.4.1 Command Form**

1860

1861

1867 show <CIM_SettingsDefineCapabilities multiple objects>

- 1868 6.18.2.4.2 CIM Requirements 1869 See CIM_SettingsDefineCapabilities in the "CIM Elements" section of the Simple Identify Management 1870 **Profile** for the list of mandatory properties. 1871 6.18.2.4.3 Behavior Requirements 1872 6.18.2.4.3.1 **Preconditions** 1873 \$instanceA contains the instance of CIM AccountManagementCapabilities which is referenced by CIM SettingsDefineCapabilities. 1874 \$instanceB contains the instance of CIM AccountSettingData that is referenced by 1875 CIM SettingsDefineCapabilities. 1876 1877 6.18.2.4.3.2 Pseudo Code 1878 &smShowAssociationInstance ("CIM_SettingsDefineCapabilities", 1879 \$instanceA.getObjectPath(), \$instanceB.getObjectPath()); 1880 &smEnd; 1881 6.18.2.5 Show Single Instances – CIM EnabledLogicalElementCapabilities Reference with Other Reference to CIM AccountSettingData 1882 This command form is for the show verb applied to multiple instances. This command form corresponds 1883 1884 to a show command issued against CIM SettingsDefineCapabilities where a reference is specified to an 1885 instance of CIM_EnabledLogicalElementCapabilities and the other reference is to an instance of 1886 CIM AccountSettingData. 1887 6.18.2.5.1 Command Form 1888 show <CIM_SettingsDefineCapabilities multiple objects> 1889 6.18.2.5.2 CIM Requirements 1890 See CIM_SettingsDefineCapabilities in the "CIM Elements" section of the Simple Identify Management 1891 **Profile** for the list of mandatory properties. 6.18.2.5.3 Behavior Requirements 1892 1893 6.18.2.5.3.1 Preconditions 1894 \$instanceA contains the instance of CIM_EnabledLogicalElementCapabilities which is referenced by 1895 CIM_SettingsDefineCapabilities. 1896 \$instanceB contains the instance of CIM_AccountSettingData that is referenced by 1897 CIM_SettingsDefineCapabilities. 1898 6.18.2.5.3.2 Pseudo Code
- &smEnd;

6.19 CIM UserContact

1899

1900

1901

1902

1903 The cd and help verbs shall be supported as described in <u>DSP0216</u>.

&smShowAssociationInstance ("CIM_SettingsDefineCapabilities",

\$instanceA.getObjectPath(), \$instanceB.getObjectPath());

1904 Table 20 lists each SM CLP verb, the required level of support for the verb in conjunction with the target class, and, when appropriate, a cross-reference to the section detailing the mapping for the verb and 1905

1906 target. Table 20 is for informational purposes only; in case of a conflict between Table 20 and

1907 requirements detailed in the following sections, the text detailed in the following sections supersedes the 1908 information in Table 20.

Table 20 – Command Verb Requirements for CIM UserContact

Command Verb	Requirement	Comments
create	Not supported	None
delete	Not supported	None
dump	Not supported	None
load	Not supported	None
reset	Not supported	None
set	Not supported	None
show	Shall	See 6.19.2.
start	Not supported	None
stop	Not supported	None

1910 No mapping is defined for the following verbs for the specified target: create, delete, dump, load, 1911 reset, set, start, and stop.

6.19.1 Ordering of Results 1912

- 1913 When results are returned for multiple instances of CIM UserContact, implementations shall utilize the 1914 following algorithm to produce the natural (that is, default) ordering:
 - Results for CIM UserContact are unordered: therefore, no algorithm is defined.

6.19.2 Show 1916

1915

- 1917 This section describes how to implement the show verb when applied to an instance of
- 1918 CIM UserContact. Implementations shall support the use of the show verb with CIM UserContact.

1919 6.19.2.1 **Show a Single Instance**

- 1920 Show a single instance of CIM_UserContact.
- 1921 6.19.2.1.1 Command Form
- 1922 show <CIM_UserContact single instance>

1923 6.19.2.1.2 CIM Requirements

- 1924 See CIM_UserContact in the "CIM Elements" section of the Simple Identify Management Profile for the
- 1925 list of mandatory properties.

1926 6.19.2.1.3 Behavior Requirements

1927 6.19.2.1.3.1 Preconditions

#all is true if the "-all" option was specified with the command; otherwise, #all is false. 1928

1929 **6.19.2.1.3.2 Pseudo Code**

1938 **6.19.2.2 Show Multiple Instances**

- 1939 Show multiple instances of CIM_UserContact.
- 1940 **6.19.2.2.1 Command Form**
- 1941 show <CIM_UserContact multiple instances>
- 1942 **6.19.2.2.2 CIM Requirements**
- 1943 See CIM_UserContact in the "CIM Elements" section of the <u>Simple Identify Management Profile</u> for the
- 1944 list of mandatory properties.
- 1945 6.19.2.2.3 Behavior Requirements
- 1946 **6.19.2.2.3.1 Preconditions**
- 1947 \$containerInstance contains the instance of CIM_Identity for which related CIM_UserContact
- 1948 instances are displayed.
- 1949 #all is true if the "-all" option was specified with the command; otherwise, #all is false.
- 1950 **6.19.2.2.3.2 Pseudo Code**

1959

DSP0811	Simple Identity Management Profile SM CLP	Command Mapping Specification
	, ,	11 5 1

1960	ANNEX A
1961	(informative)
1962	

1963 1964 Change Log

Version	Date	Author	Description
1.0.0	2009-06-04		DMTF Standard Release

1965