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System Memory Profile SM CLP Mapping

Specification

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57	Foreword					
58 59	The System Memory Profile SM CLP Mapping Specification (DSP0809) was prepared by the Server Management Working Group.					
60	Conventions					
61 62	The pseudo-code conventions utilized in this document are the Recipe Conventions as defined in SNIA <u>SMI-S 1.1.0</u> , Section 7.6.					
63	Acknowledgements					
64 65	The authors wish to acknowledge the following participants from the DTMF Server Management Working Group:					
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	La tara alora di ara
75	Introduction

76	This document defines the SM CLP mapping for CIM elements described in the System Memory Profile .
77	The information in this specification, combined with the <u>SM CLP-to-CIM Common Mapping Specification</u>
78	1.0, is intended to be sufficient to implement SM CLP commands relevant to the classes, properties and
79	methods described in <u>System Memory Profile</u> using CIM operations.
30	The target audience for this specification is implementers of the SM CLP support for the System Memory
81	Profile.

System Memory Profile SM CLP Mapping Specification

83 **1 Scope**

- This specification contains the requirements for an implementation of the SM CLP to provide access to
- and implement the behaviors of the *System Memory Profile*.

86 2 Normative References

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

90 2.1 Approved References

- 91 DMTF DSP1026, System Memory Profile 1.0,
- 92 http://www.dmtf.org/standards/published_documents/DSP1026_1.0.pdf
- 93 DMTF DSP0216, SM CLP-to-CIM Common Mapping Specification 1.0,
- 94 http://www.dmtf.org/standards/published_documents/DSP0216_1.0.pdf
- 95 SNIA, Storage Management Initiative Specification (SMI-S) 1.1.0,
- 96 http://www.snia.org/tech_activities/standards/curr_standards/smi

97 2.2 Other References

- 98 ISO/IEC Directives, Part 2, Rules for the structure and drafting of International Standards,
- 99 http://isotc.iso.org/livelink/livelink.exe?func=ll&objld=4230456&objAction=browse&sort=subtype

100 3 Terms and Definitions

- For the purposes of this document, the following terms and definitions apply.
- 102 **3.1**
- 103 can
- used for statements of possibility and capability, whether material, physical, or causal
- 105 **3.2**
- 106 cannot
- 107 used for statements of possibility and capability, whether material, physical or causal
- 108 **3.3**
- 109 conditional
- indicates requirements to be followed strictly in order to conform to the document when the specified
- 111 conditions are met
- 112 **3.4**
- 113 mandatory
- indicates requirements to be followed strictly in order to conform to the document and from which no
- 115 deviation is permitted

116 3	3.5
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- 117 **may**
- indicates a course of action permissible within the limits of the document
- 119 **3.6**
- 120 need not
- indicates a course of action permissible within the limits of the document
- 122 **3.7**
- 123 optional
- 124 indicates a course of action permissible within the limits of the document
- 125 **3.8**
- 126 **shall**
- indicates requirements to be followed strictly in order to conform to the document and from which no
- 128 deviation is permitted
- 129 **3.9**
- 130 shall not
- indicates requirements to be followed strictly in order to conform to the document and from which no
- 132 deviation is permitted
- 133 **3.10**
- 134 should
- 135 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
- 137 **3.11**
- 138 should not
- 139 indicates that a certain possibility or course of action is deprecated but not prohibited

140 4 Symbols and Abbreviated Terms

- 141 The following symbols and abbreviations are used in this document.
- 142 **4.1**
- 143 **CIM**
- 144 Common Information Model
- 145 **4.2**
- 146 **CLP**
- 147 Command Line Protocol
- 148 **4.3**
- 149 **DMTF**
- 150 Distributed Management Task Force
- 151 **4.4**
- 152 **IETF**
- 153 Internet Engineering Task Force

- 154 **4.5**
- 155 **SM**
- 156 Server Management
- 157 **4.6**
- 158 **SMI**
- 159 Storage Management Initiative
- 160 **4.7**

- 161 **SNIA**
- 162 Storage Networking Industry Association

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
- smShowAssociationInstance
- smShowAssociationInstances
- 170 This mapping does not define any recipes for local reuse.

171 6 Mappings

- 172 The following sections detail the mapping of CLP verbs to CIM Operations for each CIM class defined in
- the <u>System Memory Profile</u>.

174 6.1 CIM_ElementCapabilities

- 175 The cd, exit, help, and version verbs shall be supported as described in <u>DSP0216</u>.
- 176 Table 1 lists each SM CLP verb, the required level of support for the verb in conjunction with the target
- 177 class, and, when appropriate, a cross-reference to the section detailing the mapping for the verb and
- target. Table 1 is for informational purposes only; in case of a conflict between Table 1 and requirements
- detailed in the following sections, the text detailed in the following sections supersedes the information in
- 180 Table 1.

181

Table 1 – Command Verb Requirements for CIM_ElementCapabilities

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 6.1.2
Start	Not supported	
Stop	Not supported	

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

184 6.1.1 Ordering of Results

- 185 When results are returned for multiple instances of CIM ElementCapabilities, implementations shall
- utilize the following algorithm to produce the natural (that is, default) ordering: 186
- 187 Results for CIM_ElementCapabilities are unordered; therefore, no algorithm is defined.

6.1.2 188 Show

- 189 This section describes how to implement the show verb when applied to an instance of
- 190 CIM ElementCapabilities. Implementations shall support the use of the show verb with
- 191 CIM_ElementCapabilities.

192 6.1.2.1 Show Command Form for a Single Instance Target – CIM_Memory Reference

- 193 This command form is used to show a single instance of CIM_ElementCapabilities. This command form
- corresponds to a show command issued against a single instance of CIM_ElementCapabilities where 194
- 195 only one reference is specified and the reference is to the instance of CIM Memory.

6.1.2.1.1 196 **Command Form**

197 show <CIM_ElementCapabilities single instance>

198 6.1.2.1.2 CIM Requirements

- 199 See CIM_ElementCapabilities in the "CIM Elements" section of the System Memory Profile for the list of
- 200 mandatory properties.

201 6.1.2.1.3 **Behavior Requirements**

202 6.1.2.1.3.1 **Preconditions**

- 203 In this section \$instance represents the instance of CIM_Memory which is referenced by
- 204 CIM ElementCapabilities.

205 6.1.2.1.3.2 **Pseudo Code**

```
206
      &smShowAssociationInstances ( "CIM_ElementCapabilities",
207
          $instance.getInstancePath() );
208
      &smEnd;
```

209 6.1.2.2 Show Command Form for Multiple Instances -CIM_EnabledLogicalElementCapabilities Reference 210

- 211 This command form is used to show multiple instances of CIM_ElementCapabilities. This command form
- corresponds to a show command issued against multiple instances of CIM_ElementCapabilities where 212
- 213 only one reference is specified and the reference is to the instance of
- 214 CIM_EnabledLogicalElementCapabilities.

215 **6.1.2.2.1 Command Form**

- 216 show <CIM_ElementCapabilities multiple instances>
- 217 **6.1.2.2.2 CIM Requirements**
- 218 See CIM ElementCapabilities in the "CIM Elements" section of the System Memory Profile for the list of
- 219 mandatory properties and CIM classes that can be referenced.
- 220 6.1.2.2.3 Behavior Requirements
- 221 6.1.2.2.3.1 Preconditions
- In this section \$instance represents the instance of CIM_EnabledLogicalElementCapabilities which is
- 223 referenced by CIM_ElementCapabilities.
- 224 **6.1.2.2.3.2** Pseudo Code

```
225  &smShowAssociationInstances ( "CIM_ElementCapabilities",
226  $instance.getInstancePath() );
```

- 227 &smEnd;
- 228 6.1.2.3 Show Command Form for a Single Instance Both References
- 229 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.
- 232 **6.1.2.3.1** Command Form
- 233 show <CIM_ElementCapabilities single instance>
- 234 **6.1.2.3.2 CIM Requirements**
- 235 See CIM_ElementCapabilities in the "CIM Elements" section of the System Memory Profile for the list of
- 236 mandatory properties and CIM classes that can be referenced.
- 237 6.1.2.3.3 Behavior Requirements
- 238 **6.1.2.3.3.1** Preconditions
- 239 In this section \$instanceA represents the referenced instance of CIM_Memory through
- 240 CIM_ElementCapabilities association. \$instanceB represents the instance of
- 241 CIM_EnabledLogicalElementCapabilities which is referenced by CIM_ElementCapabilities.
- 242 **6.1.2.3.3.2** Pseudo Code

```
243 &smShowAssociationInstance ( "CIM_ElementCapabilities", $instanceA.getInstancePath(), $instanceB.getInstancePath());
```

- 245 &smEnd;
- 246 **6.2 CIM_EnabledLogicalElementCapabilities**
- 247 The cd, exit, help, and version 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 the target
- 249 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_EnabledLogicalElementCapabilities

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, exit,
- 255 load, reset, set, start, and stop.

256 6.2.1 Ordering of Results

- When results are returned for multiple instances of CIM_ElementCapabilities, 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.

261 **6.2.2 Show**

253

- 262 This section describes how to implement the show verb when applied to an instance of
- 263 CIM_EnabledLogicalElementCapabilities. Implementations shall support the use of the show verb with
- 264 CIM EnabledLogicalElementCapabilities.

265 **6.2.2.1 Show Command Form for Multiple Instances Target**

- 266 This command form is used to show many instances of CIM EnabledLogicalElementCapabilities.
- 267 **6.2.2.1.1 Command Form**
- 268 show <CIM_EnabledLogicalElementCapabilities multiple instances>
- 269 **6.2.2.1.2 CIM Requirements**
- 270 See CIM EnabledLogicalElementCapabilities in the "CIM Elements" section of the System Memory
- 271 <u>Profile</u> for the list of mandatory properties.
- 272 6.2.2.1.3 Behavior Requirements
- 273 **6.2.2.1.3.1** Preconditions
- 274 In this section \$containerInstance represents the instance of CIM_ConcreteCollection, and is
- 275 associated to the targeted instances of CIM EnabledLogicalElementCapabilities through the
- 276 CIM MemberOfCollection association.

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

278 **6.2.2.1.3.2** Pseudo Code

287 6.2.2.2 Show Command Form for a Single Instance Target

288 This command form is used to show a single instance of CIM_EnabledLogicalElementCapabilities.

289 **6.2.2.2.1 Command Form**

290 show <CIM_EnabledLogicalElementCapabilities single instance>

291 **6.2.2.2.2 CIM Requirements**

- 292 See CIM_EnabledLogicalElementCapabilities in the "CIM Elements" section of the <u>System Memory</u>
- 293 *Profile* for the list of mandatory properties.
- 294 6.2.2.2.3 Behavior Requirements
- 295 **6.2.2.3.1** Preconditions
- 296 In this section \$instance represents the targeted instance of CIM_EnabledLogicalElementCapabilities.
- 297 \$instance=<CIM EnabledLogicalElementCapabilities single instance>;
- 298 #all is true if the "-all" option was specified with the command; otherwise, #all is false.

299 **6.2.2.2.3.2** Pseudo Code

6.3 CIM Memory

- 308 The cd, exit, help, and version 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 the target
- 310 class, and, when appropriate, a cross-reference to the section detailing the mapping for the verb and
- 311 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
- 313 Table 3.

Table 3 – Command Verb Requirements for CIM_Memory

Command Verb	Requirement	Comments
Create	Shall not	
Delete	Shall not	
Dump	Shall not	
Load	Shall not	
Reset	Shall not	
Set	May	See 6.3.2.
Show	Shall	See 6.3.3.
Start	Shall not	
Stop	Shall not	

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

317 **6.3.1 Ordering of Results**

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

321 **6.3.2 Set**

- 322 This section describes how to implement the set verb when it is applied to an instance of CIM_Memory.
- 323 Implementations may support the use of the set verb with CIM_Memory.
- 324 The set verb is used to modify descriptive properties of the CIM_Memory instance.

325 **6.3.2.1 General Usage of Set for a Single Property**

- 326 This command form corresponds to the general usage of the set verb to modify a single property of a
- 327 target instance. This is the most common case.
- 328 The requirement for supporting modification of a property using this command form shall be equivalent to
- 329 the requirement for supporting modification of the property using the ModifyInstance operation as defined
- 330 in the System Memory Profile.

331 **6.3.2.1.1 Command Form**

332 set <CIM_Memory single instance> propertyvalue>

333 **6.3.2.1.2 CIM Requirements**

The ModifyInstance operation is required.

335 6.3.2.1.3 Behavior Requirements

341 6.3.2.2 General Usage of Set for Multiple Properties

- 342 This command form corresponds to the general usage of the set verb to modify multiple properties of a
- 343 target instance where there isn't an explicit relationship between the properties. This is the most common
- 344 case.
- 345 The requirement for supporting modification of a property using this command form shall be equivalent to
- 346 the requirement for supporting modification of the property using the ModifyInstance operation as defined
- in the <u>System Memory Profile</u>.

348 **6.3.2.2.1** Command Form

```
349 set <CIM_Memory single instance> <propertyname1>=<propertyvalue1> 350 <propertynamen>=<propertyvaluen>
```

351 **6.3.2.2.2 CIM Requirements**

352 The ModifyInstance operation is required.

353 6.3.2.2.3 Behavior Requirements

```
354
      $instance=<CIM_Memory single instance>
355
      #propertyNames[] = {cpropertyname>};
356
      for #i < n
357
358
          #propertyNames[#i] = cpropertname#i>
359
          #propertyValues[#i] = cpropertyvalue#i>
360
361
      &smSetInstance ( $instance, #propertyNames[], #propertyValues[] );
362
      &smEnd;
```

363 **6.3.3 Show**

- This section describes how to implement the show verb when applied to an instance of CIM Memory.
- 365 Implementations shall support the use of the show verb with CIM_Memory.

366 6.3.3.1 Show Command Form for Multiple Instances Target

This command form is used to show many instances of CIM_Memory.

368 **6.3.3.1.1 Command Form**

369 show <CIM_Memory multiple instances>

370 **6.3.3.1.2 CIM Requirements**

- 371 See CIM_Memory in the "CIM Elements" section of the <u>System Memory Profile</u> for the list of mandatory
- 372 properties.

373 6.3.3.1.3 Behavior Requirements

374 **6.3.3.1.3.1** Preconditions

- 375 In this section \$containerInstance represents the instance of CIM_ComputerSystem which
- 376 represents the container system and is associated to the targeted instances of CIM_Memory through the
- 377 CIM SystemDevice association.
- 378 #all is true if the "-all" option was specified with the command; otherwise, #all is false.

379 **6.3.3.1.3.2** Pseudo Code

388 6.3.3.2 Show Command Form for a Single Instance Target

This command form is used to show a single instance of CIM_Memory.

390 **6.3.3.2.1 Command Form**

391 show <CIM_Memory single instance>

392 **6.3.3.2.2 CIM Requirements**

- 393 See CIM_Memory in the "CIM Elements" section of the <u>System Memory Profile</u> for the list of mandatory
- 394 properties.
- 395 **6.3.3.2.3 Behavior Requirements**
- 396 6.3.3.2.3.1 Preconditions
- 397 In this section \$instance represents the targeted instance of CIM_Memory.
- \$\instance=<CIM_Memory single instance>;
- 399 #all is true if the "-all" option was specified with the command; otherwise, #all is false.

400 6.3.3.2.3.2 Pseudo Code

6.4 CIM_SystemDevice

- 409 The cd, exit, help, and version verbs shall be supported as described in <u>DSP0216</u>.
- Table 4 lists each SM CLP verb, the required level of support for the verb in conjunction with the target
- 411 class, and, when appropriate, a cross-reference to the section detailing the mapping for the verb and
- 412 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
- 414 Table 4.

Table 4 - Command Verb Requirements for CIM_SystemDevice

Command Verb	Requirement	Comments
Create	Shall not	
Delete	Shall not	
Dump	Shall not	
Load	Shall not	
Reset	Shall not	
Set	Shall not	
Show	Shall	See 6.4.2.
Start	Shall not	
Stop	Shall not	

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

418 **6.4.1 Ordering of Results**

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

422 **6.4.2** Show

- 423 This section describes how to implement the show verb when applied to an instance of
- 424 CIM SystemDevice. Implementations shall support the use of the show verb with CIM SystemDevice.

425 6.4.2.1 Show Command Form for a Single Instance Target – CIM_ComputerSystem Reference

- 426 This command form is used to show many instances of CIM_SystemDevice. This command form
- 427 corresponds to a show command issued against the instance of CIM_SystemDevice where only one
- 428 reference is specified and the reference is to the scoping instance of CIM_ComputerSystem.

429 **6.4.2.1.1** Command Form

- 430 show <CIM SystemDevice single instance>
- 431 **6.4.2.1.2 CIM Requirements**
- 432 See CIM SystemDevice in the "CIM Elements" section of the System Memory Profile for the list of
- 433 mandatory properties and CIM classes that can be referenced.

434 6.4.2.1.3 Behavior Requirements

- 435 **6.4.2.1.3.1 Preconditions**
- 436 In this section \$instance represents the instance of a CIM_ComputerSystem, which is referenced by
- 437 CIM_SystemDevice.

438 **6.4.2.1.3.2** Pseudo Code

- 439 &smShowAssociationInstances ("CIM_SystemDevice", \$instance.getObjectPath());
- 440 &smEnd;

441 6.4.2.2 Show Command Form for a Single Instance – CIM_Memory Reference

- This command form is used to show a single instance of CIM_SystemDevice. This command form
- 443 corresponds to a show command issued against a single instance of CIM SystemDevice, where only one
- reference is specified and the reference is to the instance of CIM Memory.
- 445 **6.4.2.2.1 Command Form**
- 446 show <CIM_SystemDevice single instance>
- 447 **6.4.2.2.2 CIM Requirements**
- 448 See CIM SystemDevice in the "CIM Elements" section of the System Memory Profile for the list of
- 449 mandatory properties and CIM classes that can be referenced.
- 450 6.4.2.2.3 Behavior Requirements
- 451 6.4.2.2.3.1 Preconditions
- 452 In this section \$instance represents the instance of CIM_Memory which is referenced by
- 453 CIM_SystemDevice.
- 454 **6.4.2.2.3.2** Pseudo Code
- 455 &smShowAssociationInstances ("CIM_SystemDevice", \$instance.getObjectPath());
- 456 &smEnd;
- 457 6.4.2.3 Show Command Form for a Single Instance Both References
- 458 This command form is for the show verb applied to a single instance. This command form corresponds to
- 459 a show command issued against CIM SystemDevice where both references are specified and therefore
- the desired instance is unambiguously identified.
- 461 **6.4.2.3.1 Command Form**
- 462 show <CIM_SystemDevice single instance>
- 463 **6.4.2.3.2 CIM Requirements**
- See CIM_SystemDevice in the "CIM Elements" section of the System Memory Profile for the list of
- 465 mandatory properties and CIM classes that can be referenced.
- 466 6.4.2.3.3 Behavior Requirements
- 467 **6.4.2.3.3.1** Preconditions
- 468 In this section \$instanceA represents the referenced instance of CIM Memory through
- 469 CIM_SystemDevice association. \$instanceB represents the instance of CIM_Memory which is
- 470 referenced by CIM_SystemDevice.

475

471 **6.4.2.3.3.2** Pseudo Code

&smShowAssociationInstance ("CIM_SystemDevice", \$instanceA.getObjectPath(),
 \$instanceB.getObjectPath());
&smEnd;

476	ANNEX A
477	(informative)
478	
479	
480	Change Log

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