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63

Foreword

64 The *Computer System Profile SM CLP Command Mapping Specification* (DSP0834) was prepared by the
65 DMTF Server Management Working Group.

66 Conventions

67 The pseudo-code conventions utilized in this document are the Recipe Conventions as defined in SNIA
68 [SMI-S 1.1.0](#), section 7.6.

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79

80

Introduction

- 81 This document defines the SM CLP mapping for CIM elements described in the [Computer System Profile](#).
82 The information in this specification, combined with the *SM CLP-to-CIM Common Mapping*
83 *Specification 1.0* ([DSP0216](#)), is intended to be sufficient to implement SM CLP commands relevant to the
84 classes, properties, and methods described in the [Computer System Profile](#) using CIM operations.
85 The target audience for this specification is implementers of the SM CLP support for the [Computer](#)
86 [System Profile](#).

Computer System Profile SM CLP Command Mapping Specification

1 Scope

This specification contains the requirements for an implementation of the SM CLP to provide access to, and implement the behaviors of, the [Computer System Profile](#).

2 Normative References

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

2.1 Approved References

DMTF DSP1052, *Computer System Profile 1.0*,
http://www.dmtf.org/standards/published_documents/DSP1052_1.0.pdf

DMTF DSP0216, *SM CLP-to-CIM Common Mapping Specification 1.0*,
http://www.dmtf.org/standards/published_documents/DSP0216_1.0.pdf

SNIA, *Storage Management Initiative Specification (SMI-S) 1.1.0*,
http://www.snia.org/tech_activities/standards/curr_standards/smi

2.2 Other References

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

3 Terms and Definitions

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

3.1

can

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

3.2

cannot

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

3.3

conditional

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

- 118 **3.4**
119 **mandatory**
120 indicates requirements to be followed strictly in order to conform to the document and from which no
121 deviation is permitted
- 122 **3.5**
123 **may**
124 indicates a course of action permissible within the limits of the document
- 125 **3.6**
126 **need not**
127 indicates a course of action permissible within the limits of the document
- 128 **3.7**
129 **optional**
130 indicates a course of action permissible within the limits of the document
- 131 **3.8**
132 **shall**
133 indicates requirements to be followed strictly in order to conform to the document and from which no
134 deviation is permitted
- 135 **3.9**
136 **shall not**
137 indicates requirements to be followed strictly in order to conform to the document and from which no
138 deviation is permitted
- 139 **3.10**
140 **should**
141 indicates that among several possibilities, one is recommended as particularly suitable, without
142 mentioning or excluding others, or that a certain course of action is preferred but not necessarily required
- 143 **3.11**
144 **should not**
145 indicates that a certain possibility or course of action is deprecated but not prohibited

146 **4 Symbols and Abbreviated Terms**

147 The following symbols and abbreviations are used in this document.

- 148 **4.1**
149 **CIM**
150 Common Information Model
- 151 **4.2**
152 **CLP**
153 Command Line Protocol
- 154 **4.3**
155 **DMTF**
156 Distributed Management Task Force

157 4.4

158 SM

159 Server Management

160 4.5

161 SMI-S

162 Storage Management Initiative Specification

163 4.6

164

165 Storage Networking Industry Association

166 4.7

167 UFst

168 User Friendly selection Tag

169 **5 Recipes**

170 The following is a list of the common recipes used by the mappings in this specification. For a definition of
171 each recipe, see *SM CLP-to-CIM Common Mapping Specification 1.0* ([DSP0216](#)).

- smResetRSC
 - smShowInstance
 - smShowInstances
 - smShowAssociationInstance
 - smShowAssociationInstances
 - smStartRSC
 - smStopRSC

179 For convenience, Table 1 lists each recipe defined in this mapping which is used for more than one verb
180 or class mapping.

Table 1 – Local Recipes

Recipe Name	Description	Definition
IAddReferencedProperties	Add associated property to an instance of CIM_LogicalDevice.	See 5.1.

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

183 5.1 IAddReferencedProperties

184 5.1.1 Description

185 Add the relevant associated properties to the instance of CIM_LogicalDevice.

186 5.1.2 Pseudo Code

```
187 // $device contains the instance of CIM_LogicalDevice to which associated properties  
188 // should be added  
189 //##all indicates whether or not the all option was specified for the command  
190 sub lAddReferencedProperties($instance, #ReferencedPropertyNames[]) {
```

```
191     #propertylist[] = NULL;
192 // find the associated service, call the method as a query, insert the time as a
193 // referenced property
194 // Find the TimeService associated to the target system
195 #Error = smOpAssociators(
196     $instance.getObjectPath(),
197     "CIM_ServiceAffectsElement",
198     "CIM_TimeService",
199     NULL,
200     NULL,
201     $Services[]);
202 //if there isn't a service associated the function is not supported.
203 if (0 == $Services[].length){
204     //not supported, don't add property
205     return;
206 }
207 $Service-> = $Services[0].getObjectPath();
208 %InArguments[] = { newArgument("GetRequest", TRUE)
209                     newArgument("ManagedElement", $instance.getObjectPath())}
210 %OutArguments[] = { newArgument("TimeData", #timedata)};
211 //invoke method
212 #returnStatus = smOpInvokeMethod ($Service.GetObjectPath(),
213     "ManageTime",
214     %InArguments[],
215     %OutArguments[]);
216 // process return code to CLP Command Status
217 if (0 != #Error.code) {
218     //method invocation failed
219     if ( (null != #Error.$error) && (null != #Error.$error[0]) )      {
220         // if the method invocation contains an embedded error
221         // use it for the Error for the overall job
222         &smAddError($job, #Error.$error[0]);
223         &smMakeCommandStatus($job);
224         &smEnd;
225     }
226     else if (#Error.code == 17)    {
227         //not supported, so don't add property
228         return;
229     }
230     else {
231         //operation failed, but no detailed error instance, need to make one up
232         //make an Error instance and associate with job for Operation
233         $OperationError = smNewInstance("CIM_Error");
234         //CIM_ERR_FAILED
235         $OperationError.CIMStatusCode = 1;
236         //Software Error
237         $OperationError.ErrorType = 4;
238         //Unknown
239         $OperationError.PerceivedSeverity = 0;
```

```

240     $OperationError.OwningEntity = DMTF:SMCLP;
241     $OperationError.MessageID = 0x00000009;
242     $OperationError.Message = "An internal software error has occurred.";
243     &smAddError($job, $OperationError);
244     &smMakeCommandStatus($job);
245     &smEnd;
246 }
247 //if CIM op failed
248 else if (0 == #returnStatus) {
249     //completed successfully
250     $instance.CurrentTime = #timedata;
251     #ReferencedPropertyNames = {"CurrentTime"};
252 }
253 else if (1 == #returnStatus) {
254     //not supported, so don't add
255     return;
256 }
257 else {
258     //generic failure
259     $OperationError = smNewInstance("CIM_Error");
260     //CIM_ERR_FAILED
261     $OperationError.CIMStatusCode = 1;
262     //Other
263     $OperationError.ErrorType = 1;
264     //Low
265     $OperationError.PerceivedSeverity = 2;
266     $OperationError.OwningEntity = DMTF:SMCLP;
267     $OperationError.MessageID = 0x00000002;
268     $OperationError.Message = "Failed. No further information is available.";
269     &smAddError($job, $OperationError);
270     &smMakeCommandStatus($job);
271 }
272 } //lAddReferencedProperties()

```

273 6 Mappings

274 The following sections detail the mapping of CLP verbs to CIM Operations for each CIM class defined in
275 [Computer System Profile](#). Requirements specified here related to the support for a CLP verb for a
276 particular class are solely within the context of this profile.

277 6.1 CIM_ComputerSystem

278 The cd, exit, help, and version verbs shall be supported as described in [DSP0216](#).

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

284

Table 2 – Command Verb Requirements for CIM_ComputerSystem

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

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

286 **6.1.1 Ordering of Results**

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

- 289 • Results for CIM_ComputerSystem are unordered; therefore, no algorithm is defined.

290 **6.1.2 Reset**

291 This section describes how to implement the `reset` verb when applied to an instance of
292 CIM_ComputerSystem. Implementations may support the use of the `reset` verb with
293 CIM_ComputerSystem.

294 **6.1.2.1 Command Form**

295 `reset <CIM_ComputerSystem single instance>`

296 **6.1.2.2 CIM Requirements**

```
297 uint16 EnabledState;
298 uint16 RequestedState;
299 uint32 CIM_ComputerSystem.RequestStateChange (
300     [IN] uint16 RequestedState,
301     [OUT] REF CIM_ConcreteJob Job,
302     [IN] datetime TimeoutPeriod );
```

303 **6.1.2.3 Behavior Requirements**

304 **6.1.2.3.1 Preconditions**

305 In this section \$instance represents the targeted instance of CIM_ComputerSystem.

306 `$instance=<CIM_ComputerSystem single instance>;`

307 **6.1.2.3.1.1 Pseudo Code**

```
308 &smResetRSC ( $instance.getObjectName() );
309 &smEnd;
```

310 6.1.3 Set

311 This section describes how to implement the `set` verb when it is applied to an instance of
312 `CIM_ComputerSystem`. Implementations may support the use of the `set` verb with
313 `CIM_ComputerSystem`.

314 The `set` verb is used to modify descriptive properties of the `CIM_ComputerSystem` instance.

315 6.1.3.1 General Usage of Set for a Single Property

316 This command form corresponds to the general usage of the `set` verb to modify a single property of a
317 target instance. This is the most common case.

318 The requirement for supporting modification of a property using this command form shall be equivalent to
319 the requirement for supporting modification of the property using the `ModifyInstance` operation as defined
320 in the [Computer System Profile](#).

321 6.1.3.1.1 Command Form

```
322 set <CIM_ComputerSystem single object> <propertynamename>=<propertyvalue>
```

323 6.1.3.1.2 CIM Requirements

324 See `CIM_ComputerSystem` in the “CIM Elements” section of the [Computer System Profile](#) for the list of
325 mandatory properties.

326 6.1.3.1.3 Behavior Requirements

```
327 $instance=<CIM_ComputerSystem single object>
328 #propertyNames[] = {<propertynamename>};
329 #propertyValues[] = {<propertyvalue>};
330 &smSetInstance ( $instance, #propertyNames[], #propertyValues[] );
331 &smEnd;
```

332 6.1.3.2 General Usage of Set for Multiple Properties

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

336 The requirement for supporting modification of a property using this command form shall be equivalent to
337 the requirement for supporting modification of the property using the `ModifyInstance` operation as defined
338 in the [Computer System Profile](#).

339 6.1.3.2.1 Command Form

```
340 set <CIM_ComputerSystem multiple objects> <propertynamename1>=<propertyvalue1>
341 <propertynamename2>=<propertyvalue2>
```

342 6.1.3.2.2 CIM Requirements

343 See `CIM_ComputerSystem` in the “CIM Elements” section of the [Computer System Profile](#) for the list of
344 mandatory properties.

345 **6.1.3.2.3 Behavior Requirements**

```

346 $instance=<CIM_ComputerSystem multiple objects>
347 #propertyNames[] = {<propertynames>};
348 for #i < n
349 {
350     #propertyNames[#i] = <propertname#i>
351     #propertyValues[#i] = <propertyvalue#i>
352 }
353 &smSetInstance ( $instance, #propertyNames[], #propertyValues[] );
354 &smEnd;

```

355 **6.1.3.3 Set Base System Time**

356 This section describes how to set the time on the base system. There are two possible property
 357 name/value pairs that will result in the setting of the base system time. When the `currenttime` property
 358 is specified, the format is expected to be in regular date-time format as defined in [DSP0216](#). When the
 359 `currenttime#time` property is specified, the format for the property value is defined in [DSP0216](#).

360 **6.1.3.3.1 Command Form**

```

361 set <CIM_ComputerSystem single object> ( currenttime=<mof time value> /
362 currenttime#time=<friendly time value>)

```

363 **6.1.3.3.2 CIM Requirements**

364 See `CIM_ComputerSystem` and `CIM_TimeService.ManageTime()` in the “CIM Elements” section of the
 365 [Computer System Profile](#) for the list of mandatory properties.

366 **6.1.3.3.3 Behavior Requirements**367 **6.1.3.3.3.1 Preconditions**

368 `#requestedtime` contains the datetime which corresponds to the value of the `currenttime` or
 369 `currenttime#time` property value.

370 **6.1.3.3.3.2 Pseudo Code**

```

371 $instance=<CIM_ComputerSystem single object>
372 //Find the TimeService associated to the target system
373 #Error = smOpAssociators(
374     $instance.getFullPath(),
375     "CIM_ServiceAffectsElement",
376     "CIM_TimeService",
377     NULL,
378     NULL,
379     $Services[]);
380 //if there isn't a service associated the function is not supported.
381 if (0 == $Services[].length){
382     //unsupported
383     $OperationError = smNewInstance("CIM_Error");
384     //CIM_ERR_NOT_SUPPORTED
385     $OperationError.CIMStatusCode = 7;
386     //Other

```

```
387     $OperationError.ErrorType = 1;
388     //Low
389     $OperationError.PerceivedSeverity = 2;
390     $OperationError.OwningEntity = DMTF:SMCLP;
391     $OperationError.MessageID = 0x00000001;
392     $OperationError.Message = "Operation is not supported.";
393     &smAddError($job, $OperationError);
394     &smMakeCommandStatus($job);
395     &smEnd;
396 }
397 $Service-> = $Services[0].getObjectType();
398 %InArguments[] = { newArgument("GetRequest", FALSE)
399                     newArgument("TimeData", #time),
400                     newArgument("ManagedElement", $instance.get objectType())}
401 %OutArguments[] = { };
402 //invoke method
403 #returnStatus = smOpInvokeMethod ($Service.GetObjectPath(),
404     "ManageTime",
405     %InArguments[],
406     %OutArguments[]);
407 // process return code to CLP Command Status
408 if (0 != #Error.code) {
409     //method invocation failed
410     if ( (null != #Error.$error) && (null != #Error.$error[0]) )
411     {
412         // if the method invocation contains an embedded error
413         // use it for the Error for the overall job
414         &smAddError($job, #Error.$error[0]);
415         &smMakeCommandStatus($job);
416         &smEnd;
417     }
418     else if (#Error.code == 17)
419     {
420         //trap for CIM_METHOD_NOT_FOUND
421         //and make nice Unsupported msg.
422         //unsupported
423         $OperationError = smNewInstance("CIM_Error");
424         //CIM_ERR_NOT_SUPPORTED
425         $OperationError.CIMStatusCode = 7;
426         //Other
427         $OperationError.ErrorType = 1;
428         //Low
429         $OperationError.PerceivedSeverity = 2;
430         $OperationError.OwningEntity = DMTF:SMCLP;
431         $OperationError.MessageID = 0x00000001;
432         $OperationError.Message = "Operation is not supported.";
433         &smAddError($job, $OperationError);
434         &smMakeCommandStatus($job);
435         &smEnd;
```

```
436     }
437     Else
438     {
439         //operation failed, but no detailed error instance, need to make one up
440         //make an Error instance and associate with job for Operation
441         $OperationError = smNewInstance("CIM_Error");
442         //CIM_ERR_FAILED
443         $OperationError.CIMStatusCode = 1;
444         //Software Error
445         $OperationError.ErrorType = 4;
446         //Unknown
447         $OperationError.PerceivedSeverity = 0;
448         $OperationError.OwningEntity = DMTF:SMCLP;
449         $OperationError.MessageID = 0x00000009;
450         $OperationError.Message = "An internal software error has occurred.";
451         &smAddError($job, $OperationError);
452         &smMakeCommandStatus($job);
453         &smEnd;
454     }
455 } //if CIM op failed
456 else if (0 == #returnStatus){
457     //completed successfully
458     %InArguments[] = { newArgument("GetRequest", TRUE)
459                         newArgument("ManagedElement", $instance.GetObjectPath()) };
460     %OutArguments[] = { newArgument("TimeData", #timedata) };
461 //invoke method
462     #returnStatus = smOpInvokeMethod ($Service.GetObjectPath(),
463                                     "ManageTime",
464                                     %InArguments[],
465                                     %OutArguments[]);
466     if (0 != #Error.code)
467     {
468         //method invocation failed
469         if ( (null != #Error.$error) && (null != #Error.$error[0]) )
470         {
471             // if the method invocation contains an embedded error
472             // use it for the Error for the overall job
473             &smAddError($job, #Error.$error[0]);
474             &smMakeCommandStatus($job);
475             &smEnd;
476         }
477     }
478 Else
479 {
480     //generic failure
481     $OperationError = smNewInstance("CIM_Error");
482     //CIM_ERR_FAILED
483     $OperationError.CIMStatusCode = 1;
484     //Other
```

```

485     $OperationError.ErrorType = 1;
486     //Low
487     $OperationError.PerceivedSeverity = 2;
488     $OperationError.OwningEntity = DMTF:SMCLP;
489     $OperationError.MessageID = 0x00000002;
490     $OperationError.Message = "Failed. No further information is available.";
491     &smAddError($job, $OperationError);
492     &smMakeCommandStatus($job);
493 }
494 &smEnd;
495 }
496 else if (1 == #returnStatus)
497 {
498     //unsupported
499     $OperationError = smNewInstance("CIM_Error");
500     //CIM_ERR_NOT_SUPPORTED
501     $OperationError.CIMStatusCode = 7;
502     //Other
503     $OperationError.ErrorType = 1;
504     //Low
505     $OperationError.PerceivedSeverity = 2;
506     $OperationError.OwningEntity = DMTF:SMCLP;
507     $OperationError.MessageID = 0x00000001;
508     $OperationError.Message = "Operation is not supported.";
509     &smAddError($job, $OperationError);
510     &smMakeCommandStatus($job);
511     &smEnd;
512 }
513 Else
514 {
515     //generic failure
516     $OperationError = smNewInstance("CIM_Error");
517     //CIM_ERR_FAILED
518     $OperationError.CIMStatusCode = 1;
519     //Other
520     $OperationError.ErrorType = 1;
521     //Low
522     $OperationError.PerceivedSeverity = 2;
523     $OperationError.OwningEntity = DMTF:SMCLP;
524     $OperationError.MessageID = 0x00000002;
525     $OperationError.Message = "Failed. No further information is available.";
526     &smAddError($job, $OperationError);
527     &smMakeCommandStatus($job);
528 }

```

529 6.1.4 Show

530 This section describes how to implement the `show` verb when applied to an instance of
 531 `CIM_ComputerSystem`. Implementations shall support the use of the `show` verb with
 532 `CIM_ComputerSystem`.

533 **6.1.4.1 Show Command Form for Multiple Instances Target**

534 This command form is used to show many instances of CIM_ComputerSystem.

535 **6.1.4.1.1 Command Form**

```
536 show <CIM_ComputerSystem multiple instances>
```

537 **6.1.4.1.2 CIM Requirements**

538 See CIM_ComputerSystem in the “CIM Elements” section of the [Computer System Profile](#) for the list of
539 mandatory properties.

540 **6.1.4.1.3 Behavior Requirements**

541 **6.1.4.1.3.1 Preconditions**

542 \$containerInstance represents the instance of a sub-class of CIM_System which represents the
543 container system and is associated to the targeted instances of CIM_ComputerSystem through the
544 CIM_SystemComponent association.

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

546 **6.1.4.1.3.2 Pseudo Code**

```
547 #propertylist[] = NULL;
548 if (false == #all)
549 {
550     #propertylist[] = {<all mandatory non-key properties>}
551 }
552 // Step 1 - find all the scoped instances
553     #Error = &smOpAssociators (
554         $containerInstance.getObjectPath(),
555         "SystemComponent",
556         "CIM_ComputerSystem",
557         NULL,
558         NULL,
559         NULL,
560         $instances[] );
561 if (0 != #Error.code)
562 {
563     &smProcessOpError (#Error);
564     //includes &smEnd;
565 }
566 // Step 2 - add their referenced properties
567 for $instance in $instances[]
568 {
569     &lAddReferencedProperties ( $instance, #referencedPropertyNames[] );
570 }
571 //step 3 - display them
572 &smShowInstancesWithReferencedProperties (
573     $instances[],
574     #propertyList[],
575     #referencedPropertyNames[] );
576 &smEnd;
```

577 6.1.4.2 Show Command Form for a Single Instance Target

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

579 6.1.4.2.1 Command Form

```
580 show <CIM_ComputerSystem single instance>
```

581 6.1.4.2.2 CIM Requirements

582 See CIM_ComputerSystem in the “CIM Elements” section of the [Computer System Profile](#) for the list of
583 mandatory properties.

584 6.1.4.2.3 Behavior Requirements**585 6.1.4.2.3.1 Preconditions**

586 \$instance represents the targeted instance of CIM_ComputerSystem.

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

588 6.1.4.2.3.2 Pseudo Code

```
589 $instance=<CIM_ComputerSystem single instance>;  
590 #propertylist[] = NULL;  
591 if (false == #all)  
592 {  
593     #propertylist[] = <array of mandatory non-key property names (see CIM  
594     Requirements)>;  
595 }  
596 &lAddReferencedProperties ($instance, $referencedPropertyName[], #all );  
597 &smShowInstanceWithReferencedProperties ( $device, #propertyList[],  
598     $referencedPropertyName[] );  
599 &smEnd;
```

600 6.1.5 Start

601 This section describes how to implement the start verb when applied to an instance of
602 CIM_ComputerSystem. Implementations may support the use of the start verb with
603 CIM_ComputerSystem.

604 6.1.5.1 Command Form

```
605 start <CIM_ComputerSystem single instance>
```

606 6.1.5.2 CIM Requirements

```
607 uint16 EnabledState;  
608 uint16 RequestedState;  
609 uint32 CIM_ComputerSystem.RequestStateChange ( [IN] uint16 RequestedState,  
610     [OUT] REF CIM_ConcreteJob Job,  
611     [IN] datetime TimeoutPeriod );
```

613 **6.1.5.3 Behavior Requirements**

614 **6.1.5.3.1.1 Preconditions**

615 \$instance represents the targeted instance of CIM_ComputerSystem.

616 **6.1.5.3.1.2 Pseudo Code**

```
617 $instance=<CIM_ComputerSystem single instance>;  
618 &smStartRSC ( $instance.getObjectPath() );  
619 &smEnd;
```

620 **6.1.6 Stop**

621 This section describes how to implement the `stop` verb when applied to an instance of
622 CIM_ComputerSystem. Implementations may support the use of the `stop` verb with
623 CIM_ComputerSystem.

624 **6.1.6.1 Command Form**

```
625 stop <CIM_ComputerSystem single instance>
```

626 **6.1.6.2 CIM Requirements**

```
627 uint16 EnabledState;  
628 uint16 RequestedState;  
629 uint32 CIM_ComputerSystem.RequestStateChange ( [IN] uint16 RequestedState,  
630 [OUT] REF CIM_ConcreteJob Job,  
631 [IN] datetime TimeoutPeriod );
```

633 **6.1.6.3 Behavior Requirements**

634 **6.1.6.3.1 Preconditions**

635 \$instance represents the targeted instance of CIM_ComputerSystem.

636 **6.1.6.3.2 Pseudo Code**

```
637 $instance=<CIM_ComputerSystem single instance>;  
638 &smStopRSC ( $instance.getObjectPath() );  
639 &smEnd;
```

640 **6.2 CIM_ElementCapabilities**

641 The `cd`, `exit`, `help`, and `version` verbs shall be supported as described in [DSP0216](#).

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

647

Table 3 – 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	
show	Shall	See 6.2.2.
start	Not supported	
Stop	Not supported	

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

650 **6.2.1 Ordering of Results**

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

- 653 • Results for `CIM_ElementCapabilities` are unordered; therefore, no algorithm is defined.

654 **6.2.2 Show**

655 This section describes how to implement the `show` verb when applied to an instance of
 656 `CIM_ElementCapabilities`. Implementations shall support the use of the `show` verb with
 657 `CIM_ElementCapabilities`.

658 **6.2.2.1 Show Command Form for Multiple Instances Target –** 659 **`CIM_EnabledLogicalElementCapabilities` Reference**

660 This command form is used to show many instances of `CIM_ElementCapabilities`. This command form
 661 corresponds to a `show` command issued against instances of `CIM_ElementCapabilities` where only one
 662 reference is specified and the reference is to an instance of `CIM_EnabledLogicalElementCapabilities`.

663 **6.2.2.1.1 Command Form**

664 `show <CIM_ElementCapabilities multiple instances>`

665 **6.2.2.1.2 CIM Requirements**

666 See `CIM_ElementCapabilities` in the “CIM Elements” section of the [Computer System Profile](#) for the list of
 667 mandatory properties.

668 **6.2.2.1.3 Behavior Requirements**

669 **6.2.2.1.3.1 Preconditions**

670 \$instance represents the instance of `CIM_EnabledLogicalElementCapabilities` which is referenced by
 671 `CIM_ElementCapabilities`.

672 **6.2.2.1.3.2 Pseudo Code**

```
673 &smShowAssociationInstances ( "CIM_ElementCapabilities", $instance.getObjectPath() );  
674 &smEnd;
```

675 **6.2.2.2 Show Command Form for a Single Instance – CIM_ComputerSystem Reference**

676 This command form is used to show a single instance of CIM_ElementCapabilities. This command form
677 corresponds to a `show` command issued against a single instance of CIM_ElementCapabilities where
678 only one reference is specified and the reference is to the instance of CIM_ComputerSystem.

679 **6.2.2.2.1 Command Form**

```
680 show <CIM_ElementCapabilities single instance>
```

681 **6.2.2.2.2 CIM Requirements**

682 See CIM_ElementCapabilities in the “CIM Elements” section of the [Computer System Profile](#) for the list of
683 mandatory properties.

684 **6.2.2.2.3 Behavior Requirements**

685 **6.2.2.2.3.1 Preconditions**

686 \$instance represents the instance of CIM_ComputerSystem which is referenced by
687 CIM_ElementCapabilities.

688 **6.2.2.2.3.2 Pseudo Code**

```
689 &smShowAssociationInstances ( "CIM_ElementCapabilities", $instance.getObjectPath() );  
690 &smEnd;
```

691 **6.2.2.3 Show Command Form for a Single Instance Target – Both References**

692 This command form is for the `show` verb applied to a single instance. This command form corresponds to
693 the `show` command issued against CIM_ElementCapabilities where both references are specified;
694 therefore, the desired instance is unambiguously identified.

695 **6.2.2.3.1 Command Form**

```
696 show <CIM_ElementCapabilities single instance>
```

697 **6.2.2.3.2 CIM Requirements**

698 See CIM_ElementCapabilities in the “CIM Elements” section of the [Computer System Profile](#) for the list of
699 mandatory properties.

700 **6.2.2.3.3 Behavior Requirements**

701 **6.2.2.3.3.1 Preconditions**

702 \$instanceA represents the referenced instance of CIM_ComputerSystem through
703 CIM_ElementCapabilities association.

704 \$instanceB represents the instance of CIM_EnabledLogicalElementCapabilities which is referenced by
705 CIM_ElementCapabilities.

706 **6.2.2.3.3.2 Pseudo Code**

```
707 &smShowAssociationInstance ( "CIM_ElementCapabilities", $instanceA.getObjectPath() ,
708   $instanceB.getObjectPath() );
709 &smEnd;
```

710 **6.3 CIM_EnabledLogicalElementCapabilities**

711 The cd, exit, help, and version verbs shall be supported as described in [DSP0216](#).

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

717 **Table 4 – 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 6.3.2.
start	Not supported	
stop	Not supported	

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

720 **6.3.1 Ordering of Results**

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

- 723 • Results for CIM_EnabledLogicalElementCapabilities are unordered; therefore, no algorithm is
 724 defined.

725 **6.3.2 Show**

726 This section describes how to implement the show verb when applied to an instance of
 727 CIM_EnabledLogicalElementCapabilities. Implementations shall support the use of the show verb with
 728 CIM_EnabledLogicalElementCapabilities.

729 **6.3.2.1 Show Command Form for Multiple Instances Target**

730 This command form is used to show many instances of CIM_EnabledLogicalElementCapabilities.

731 **6.3.2.1.1 Command Form**

732 `show <CIM_EnabledLogicalElementCapabilities multiple instances>`

733 **6.3.2.1.2 CIM Requirements**

734 See CIM_EnabledLogicalElementCapabilities in the “CIM Elements” section of the [Computer System Profile](#) for the list of mandatory properties.

736 **6.3.2.1.3 Behavior Requirements**

737 **6.3.2.1.3.1 Preconditions**

738 \$containerInstance represents the instance of CIM_ConcreteCollection with ElementName property
739 that contains “Capabilities” and is associated to the targeted instances of
740 CIM_EnabledLogicalElementCapabilities through the CIM_MemberOfCollection association.

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

742 **6.3.2.1.3.2 Pseudo Code**

```
743 #propertylist[] = NULL;  
744 if (false == #all)  
745 {  
746     #propertylist[] = <array of mandatory non-key property names (see CIM  
747     Requirements)>;  
748 }  
749 &smShowInstances ( "CIM_EnabledLogicalElementCapabilities", "CIM_MemberOfCollection",  
750     $containerInstance.getObjectPath(), #propertylist[] );  
751 &smEnd;
```

752 **6.3.2.2 Show Command Form for a Single Instance Target**

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

754 **6.3.2.2.1 Command Form**

755 `show <CIM_EnabledLogicalElementCapabilities single instance>`

756 **6.3.2.2.2 CIM Requirements**

757 See CIM_EnabledLogicalElementCapabilities in the “CIM Elements” section of the [Computer System Profile](#) for the list of mandatory properties.

759 **6.3.2.2.3 Behavior Requirements**

760 **6.3.2.2.3.1 Preconditions**

761 \$instance represents the targeted instance of CIM_EnabledLogicalElementCapabilities.

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

763 **6.3.2.2.3.2 Pseudo Code**

```

764 $instance=<CIM_EnabledLogicalElementCapabilities single instance>;
765 #propertylist[] = NULL;
766 if (false == #all)
767 {
768     #propertylist[] = <array of mandatory non-key property names (see CIM
769     Requirements)>;
770 }
771 &smShowInstance ( $instance.getObjectPath(), #propertylist[] );
772 &smEnd;

```

773 **6.4 CIM_HostedService**

774 The `cd` and `help` verbs shall be supported as described in [DSP0216](#).

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

780 **Table 5 – 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 6.4.2.
start	Not supported	
stop	Not supported	

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

783 **6.4.1 Ordering of Results**

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

- Results for `CIM_HostedService` are unordered; therefore, no algorithm is defined.

787 **6.4.2 Show**

788 This section describes how to implement the `show` verb when applied to an instance of
 789 `CIM_HostedService`. Implementations shall support the use of the `show` verb with `CIM_HostedService`.

790 The `show` command is used to display information about the `CIM_HostedService` instance or instances.

791 **6.4.2.1 Show Multiple Instances**

792 This command form is for the `show` verb applied to multiple instances. This command form corresponds
793 to a `show` command issued against `CIM_HostedService` where only one reference is specified and the
794 reference is to an instance of `CIM_ComputerSystem`.

795 **6.4.2.1.1 Command Form**

796 `show <CIM_HostedService multiple instances>`

797 **6.4.2.1.2 CIM Requirements**

798 See `CIM_HostedService` in the “CIM Elements” section of the [Computer System Profile](#) for the list of
799 mandatory properties.

800 **6.4.2.1.3 Behavior Requirements**

801 **6.4.2.1.4 Preconditions**

802 `$instance` contains the instance of `CIM_ComputerSystem` which is referenced by `CIM_HostedService`.

803 **6.4.2.1.5 Pseudo Code**

804 `&smShowAssociationInstances ("CIM_HostedService", $instance.getObjectName());`
805 `&smEnd;`

806 **6.4.2.2 Show a Single Instance – CIM_TimeService Reference**

807 This command form is for the `show` verb applied to a single instance. This command form corresponds to
808 the `show` command issued against `CIM_HostedService` where the reference specified is to an instance of
809 `CIM_TimeService`. An instance of `CIM_TimeService` is referenced by exactly one instance of
810 `CIM_HostedService`. Therefore, a single instance will be returned.

811 **6.4.2.2.1 Command Form**

812 `show <CIM_HostedService single instance>`

813 **6.4.2.2.2 CIM Requirements**

814 See `CIM_HostedService` in the “CIM Elements” section of the [Computer System Profile](#) for the list of
815 mandatory properties.

816 **6.4.2.2.3 Behavior Requirements**

817 **6.4.2.2.3.1 Preconditions**

818 `$instance` contains the instance of `CIM_TimeService` which is referenced by `CIM_HostedService`.

819 **6.4.2.2.3.2 Pseudo Code**

820 `&smShowAssociationInstances ("CIM_HostedService", $instance.getObjectName());`
821 `&smEnd;`

822 **6.4.2.3 Show a Single Instance – Both References**

823 This command form is for the `show` verb applied to a single instance. This command form corresponds to
824 the `show` command issued against `CIM_HostedService` where both references are specified; therefore,
825 the desired instance is unambiguously identified.

826 **6.4.2.3.1 Command Form**

```
827 show <CIM_HostedService single instance>
```

828 **6.4.2.3.2 CIM Requirements**

829 See CIM_HostedService in the “CIM Elements” section of the [Computer System Profile](#) for the list of
830 mandatory properties.

831 **6.4.2.3.3 Behavior Requirements**

832 **6.4.2.3.3.1 Preconditions**

833 \$instanceA contains the instance of CIM_ComputerSystem which is referenced by
834 CIM_HostedService.

835 \$instanceB contains the instance of CIM_TimeService which is referenced by CIM_HostedService.

836 **6.4.2.3.3.2 Pseudo Code**

```
837 &smShowAssociationInstance ( "CIM_HostedService" , $instanceA.getObjectPath() ,  
838     $instanceB.getObjectPath() );  
839 &smEnd;
```

840 **6.5 CIM_ServiceAffectsElement**

841 The cd and help verbs shall be supported as described in [DSP0216](#).

842 Table 6 lists each SM CLP verb, the required level of support for the verb in conjunction with the target
843 class, and, when appropriate, a cross-reference to the section detailing the mapping for the verb and
844 target. Table 6 is for informational purposes only; in case of a conflict between Table 6 and requirements
845 detailed in the following sections, the text detailed in the following sections supersedes the information in
846 Table 6.

847 **Table 6 – 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 6.5.2.
start	Not supported	
stop	Not supported	

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

850 **6.5.1 Ordering of Results**

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

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

854 **6.5.2 Show**

855 This section describes how to implement the `show` verb when applied to an instance of
856 CIM_ServiceAffectsElement. Implementations shall support the use of the `show` verb with
857 CIM_ServiceAffectsElement.

858 The `show` command is used to display information about the CIM_ServiceAffectsElement instance or
859 instances.

860 **6.5.2.1 Show a Single Instance – CIM_TimeService Reference**

861 This command form is for the `show` verb applied to a single instance. This command form corresponds to
862 a `show` command issued against CIM_ServiceAffectsElement where only one reference is specified and
863 the reference is to an instance of CIM_TimeService.

864 **6.5.2.1.1 Command Form**

865 `show <CIM_ServiceAffectsElement single instance>`

866 **6.5.2.1.2 CIM Requirements**

867 See CIM_ServiceAffectsElement in the “CIM Elements” section of the [Computer System Profile](#) for the list
868 of mandatory properties.

869 **6.5.2.1.3 Behavior Requirements**

870 **6.5.2.1.3.1 Preconditions**

871 \$instance contains the instance of CIM_TimeService which is referenced by
872 CIM_ServiceAffectsElement.

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

874 **6.5.2.1.3.2 Pseudo Code**

```
875 #propertylist[] = NULL;
876 if (false == #all)
877 {
878     #propertylist[] = { //all mandatory non-key properties};
879 }
880 &smShowAssociationInstances ( "CIM_ServiceAffectsElement", $instance.getObjectPath(),
881     #propertylist[] );
882 &smEnd;
```

883 **6.5.2.2 Show a Single Instance – CIM_ComputerSystem Reference**

884 This command form is for the `show` verb applied to a single instance. This command form corresponds to
885 the `show` command issued against CIM_ServiceAffectsElement where the reference specified is to an
886 instance of CIM_ComputerSystem. An instance of CIM_TimeService is associated with exactly one
887 CIM_ComputerSystem instance; thus, a single instance will be returned.

888 **6.5.2.2.1 Command Form**

889 `show <CIM_ServiceAffectsElement single instance>`

890 **6.5.2.2.2 CIM Requirements**

891 See CIM_ServiceAffectsElement in the “CIM Elements” section of the [Computer System Profile](#) for the list
892 of mandatory properties.

893 **6.5.2.2.3 Behavior Requirements**

894 **6.5.2.2.3.1 Preconditions**

895 \$instance contains the instance of CIM_ComputerSystem which is referenced by
896 CIM_ServiceAffectsElement.

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

898 **6.5.2.2.3.2 Pseudo Code**

```
899 #propertylist[] = NULL;  
900 if (false == #all)  
901 {  
902     #propertylist[] = { //all mandatory non-key properties};  
903 }  
904 &smShowAssociationInstances ( "CIM_ServiceAffectsElement", $instance.getObjectPath(),  
905     #propertylist[] );  
906 &smEnd;
```

907 **6.5.2.3 Show a Single Instance – Both References**

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

911 **6.5.2.3.1 Command Form**

912 `show <CIM_ServiceAffectsElement single instance>`

913 **6.5.2.3.2 CIM Requirements**

914 See CIM_ServiceAffectsElement in the “CIM Elements” section of the [Computer System Profile](#) for the list
915 of mandatory properties.

916 **6.5.2.3.3 Behavior Requirements**

917 **6.5.2.3.3.1 Preconditions**

918 \$instanceA contains the instance of CIM_ServiceAvailableToElement which is referenced by
919 CIM_ServiceAffectsElement.

920 \$instanceB contains the instance of CIM_ComputerSystem which is referenced by
921 CIM_ServiceAffectsElement.

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

923 **6.5.2.3.3.2 Pseudo Code**

```

924 #propertylist[] = NULL;
925 if (false == #all)
926 {
927     #propertylist[] = { //all mandatory non-key properties};
928 }
929 &smShowAssociationInstance ( "CIM_ServiceAffectsElement", $instanceA.getObjectPath(),
930     $instanceB.getObjectPath(), #propertylist[] );
931 &smEnd;

```

932 **6.6 CIM_TimeService**933 The cd and help verbs shall be supported as described in [DSP0216](#).

934 Table 7 lists each SM CLP verb, the required level of support for the verb in conjunction with the target
 935 class, and, when appropriate, a cross-reference to the section detailing the mapping for the verb and
 936 target. Table 7 is for informational purposes only; in case of a conflict between Table 7 and requirements
 937 detailed in the following sections, the text detailed in the following sections supersedes the information in
 938 Table 7.

939 **Table 7 – Command Verb Requirements for CIM_TimeService**

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	

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

942 **6.6.1 Ordering of Results**

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

- 945 • Results for CIM_TimeService are unordered; therefore, no algorithm is defined.

946 **6.6.2 Show**

947 This section describes how to implement the show verb when applied to an instance of
 948 CIM_TimeService. Implementations shall support the use of the show verb with CIM_TimeService.

949 The show verb is used to display information about the CIM_TimeService instance.

950 6.6.2.1 Show a Single Instance

951 This command form is for the `show` verb applied to a single instance of CIM_TimeService.

952 6.6.2.1.1 Command Form

```
953 show <CIM_TimeService single instance>
```

954 6.6.2.1.2 CIM Requirements

955 See CIM_TimeService in the “CIM Elements” section of the [Computer System Profile](#) for the list of
956 mandatory properties.

957 6.6.2.1.3 Behavior Requirements**958 6.6.2.1.3.1 Preconditions**

959 `#all` is true if the “-all” option was specified with the command; otherwise, `#all` is false.

960 6.6.2.1.3.2 Pseudo Code

```
961 $instance=<CIM_TimeService single instance>
962 #propertylist[] = NULL;
963 if (false == #all)
964 {
965     #propertylist[] = { //all mandatory non-key properties};
966 }
967 &smShowInstance ( $instance.getobjectPath(), #propertylist[] );
968 &smEnd;
```

969

970
971
972
973
974

ANNEX A (informative)

Change Log

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

975