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5 **Media Redirection Profile SM CLP Command**
6 **Mapping Specification**

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Foreword

78 The *Media Redirection Profile SM CLP Command Mapping Specification* (DSP0843) was prepared by the
79 Server Management Working Group.

80 **Conventions**

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

83 **Acknowledgements**

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90

91

Introduction

92 This document defines the SM CLP mapping for CIM elements described in the [Media Redirection](#)
93 [Profile](#). The information in this specification, combined with the *SM CLP-to-CIM Common Mapping*
94 *Specification 1.0* ([DSP0216](#)), is intended to be sufficient to implement SM CLP commands relevant to the
95 classes, properties, and methods described in the [Media Redirection Profile](#) using CIM operations.

96 The target audience for this specification is implementers of the SM CLP support for the [Media](#)
97 [Redirection Profile](#).

Media Redirection 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 [Media Redirection 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 DSP1077, *Media Redirection Profile 1.0*,
http://www.dmtf.org/standards/published_documents/DSP1077_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

- 129 **3.4**
130 **mandatory**
131 indicates requirements to be followed strictly in order to conform to the document and from which no
132 deviation is permitted
- 133 **3.5**
134 **may**
135 indicates a course of action permissible within the limits of the document
- 136 **3.6**
137 **need not**
138 indicates a course of action permissible within the limits of the document
- 139 **3.7**
140 **optional**
141 indicates a course of action permissible within the limits of the document
- 142 **3.8**
143 **shall**
144 indicates requirements to be followed strictly in order to conform to the document and from which no
145 deviation is permitted
- 146 **3.9**
147 **shall not**
148 indicates requirements to be followed strictly in order to conform to the document and from which no
149 deviation is permitted
- 150 **3.10**
151 **should**
152 indicates that among several possibilities, one is recommended as particularly suitable, without
153 mentioning or excluding others, or that a certain course of action is preferred but not necessarily required
- 154 **3.11**
155 **should not**
156 indicates that a certain possibility or course of action is deprecated but not prohibited

157 **4 Symbols and Abbreviated Terms**

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

- 159 **4.1**
160 **CIM**
161 Common Information Model
- 162 **4.2**
163 **CLP**
164 Command Line Protocol
- 165 **4.3**
166 **DMTF**
167 Distributed Management Task Force

- 168 **4.4**
- 169 **SM**
- 170 Server Management
- 171 **4.5**
- 172 **SMI-S**
- 173 Storage Management Initiative Specification
- 174 **4.6**
- 175 **SNIA**
- 176 Storage Networking Industry Association
- 177 **4.7**
- 178 **UFsT**
- 179 User Friendly selection Tag

180 **5 Recipes**

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

- 183 • smShowInstance()
- 184 • smShowInstances()
- 185 • smSetInstance()
- 186 • smShowAssociationInstance()
- 187 • smShowAssociationInstances()
- 188 • smRequestStateChange()
- 189 • smStartRSC()
- 190 • smStopRSC()

191 This mapping does not define any recipes for local reuse.

192 **6 Mappings**

193 The following sections detail the mapping of CLP verbs to CIM Operations for each CIM class defined in
194 the [Media Redirection Profile](#). Requirements specified here related to support for a CLP verb for a
195 particular class are solely within the context of this profile.

196 **6.1 CIM_ElementCapabilities**

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

198 Table 1 lists each SM CLP verb, the required level of support for the verb in conjunction with instances of
199 the target class, and, when appropriate, a cross-reference to the section detailing the mapping for the
200 verb and target. Table 1 is for informational purposes only; in case of a conflict between Table 1 and
201 requirements detailed in the following sections, the text detailed in the following sections supersedes the
202 information in Table 1.

203

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	
show	Shall	See 6.1.2.
start	Not supported	
stop	Not supported	

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

206 6.1.1 Ordering of Results

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

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

210 6.1.2 Show

211 This section describes how to implement the `show` verb when applied to an instance of
212 CIM_ElementCapabilities. Implementations shall support the use of the `show` verb with
213 CIM_ElementCapabilities.

214 6.1.2.1 Show Command Form for a Single Instance – CIM_MediaRedirectionService or 215 CIM_MediaRedirectionSAP Reference

216 This command form is used when the `show` verb applies to a single instance. This command form
217 corresponds to the `show` command issued against instances of CIM_ElementCapabilities where only one
218 reference is specified and the reference is to the scoping instance of CIM_MediaRedirectionService or
219 CIM_MediaRedirectionSAP.

220 6.1.2.1.1 Command Form

```
221 show <CIM_ElementCapabilities single instance>
```

222 6.1.2.1.2 CIM Requirements

223 See CIM_ElementCapabilities in the “CIM Elements” section of the [Media Redirection Profile](#) for the list of
224 mandatory properties.

225 6.1.2.1.3 Behavior Requirements

226 6.1.2.1.3.1 Preconditions

227 `$instance` represents the instance of a CIM_MediaRedirectionService or CIM_MediaRedirectionSAP,
228 which is referenced by CIM_ElementCapabilities.

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

230 6.1.2.1.3.2 Pseudo Code

```
231 &smShowAssociationInstances ( "CIM_ElementCapabilities", $instance.getObjectPath() ) ;
232 &smEnd;
```

233 6.1.2.2 Show Command Form for Multiple Instances – CIM_MediaRedirectionCapabilities 234 Reference

235 This command form is used when the `show` verb applies to multiple instances. This command form
236 corresponds to the `show` command issued against instances of `CIM_ElementCapabilities` where only one
237 reference is specified and the reference is to the instance of `CIM_MediaRedirectionCapabilities`.

238 6.1.2.2.1 Command Form

```
239 show <CIM_ElementCapabilities multiple instances>
```

240 6.1.2.2.2 CIM Requirements

241 See `CIM_ElementCapabilities` in the “CIM Elements” section of the [Media Redirection Profile](#) for the list of
242 mandatory properties.

243 6.1.2.2.3 Behavior Requirements

244 6.1.2.2.3.1 Preconditions

245 `$instance` represents the instance of a `CIM_MediaRedirectionCapabilities`, which is referenced by
246 `CIM_ElementCapabilities`.

247 6.1.2.2.3.2 Pseudo Code

```
248 &smShowAssociationInstances ( "CIM_ElementCapabilities", $instance.getObjectPath(),
249     NULL );
250 &smEnd;
```

251 6.1.2.3 Show Command Form for Multiple Instances – CIM_EnabledLogicalElementCapabilities 252 Reference

253 This command form is used when the `show` verb applies to multiple instances. This command form
254 corresponds to the `show` command issued against instances of `CIM_ElementCapabilities` where only one
255 reference is specified and the reference is to an instance of `CIM_EnabledLogicalElementCapabilities`.

256 6.1.2.3.1 Command Form

```
257 show <CIM_ElementCapabilities multiple instances>
```

258 6.1.2.3.2 CIM Requirements

259 See `CIM_ElementCapabilities` in the “CIM Elements” section of the [Media Redirection Profile](#) for the list of
260 mandatory properties.

261 6.1.2.3.3 Behavior Requirements

262 6.1.2.3.3.1 Preconditions

263 `$instance` represents the instance of a `CIM_EnabledLogicalElementCapabilities`, which is referenced
264 by `CIM_ElementCapabilities`.

265 **6.1.2.3.3.2 Pseudo Code**

```
266 &smShowAssociationInstances ( "CIM_ElementCapabilities", $instance.getObjectPath(),
267     NULL );
268 &smEnd;
```

269 **6.1.2.4 Show a Single Instance Target – Both References**

270 This command form is used when the `show` verb applies to a single instance. This command form
 271 corresponds to the `show` command issued against instances of `CIM_ElementCapabilities` where both
 272 references are specified and therefore the desired instance is unambiguously identified.

273 **6.1.2.4.1 Command Form**

```
274 show <CIM_ElementCapabilities single instance>
```

275 **6.1.2.4.2 CIM Requirements**

276 See `CIM_ElementCapabilities` in the “CIM Elements” section of the [Media Redirection Profile](#) for the list of
 277 mandatory properties.

278 **6.1.2.4.3 Behavior Requirements**279 **6.1.2.4.3.1 Preconditions**

280 `$instanceA` represents the instance of a `CIM_MediaRedirectionService` or `CIM_MediaRedirectionSAP`
 281 which is referenced by the `CIM_ElementCapabilities`.

282 `$instanceB` represents the instance of a `CIM_MediaRedirectionCapabilities` or
 283 `CIM_EnabledLogicalElementCapabilities` which is referenced by the `CIM_ElementCapabilities`.

284 **6.1.2.4.3.2 Pseudo Code**

```
285 &smShowAssociationInstance("CIM_ElementCapabilities", $instanceA.getObjectPath(),
286     $instanceB.getObjectPath() );
287 &smEnd;
```

288 **6.2 CIM_HostedService**

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

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

295 **Table 2 – 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	

Command Verb	Requirement	Comments
set	Not supported	
show	Shall	See 6.2.2.
start	Not supported	
stop	Not supported	

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

298 6.2.1 Ordering of Results

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

- 301 • Results for `CIM_ControlledBy` are unordered; therefore, no algorithm is defined.

302 6.2.2 Show

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

305 6.2.2.1 Show Command Form for Multiple Instances – `CIM_ComputerSystem` Reference

306 This command form is used when the `show` verb applies to multiple instances. This command form
 307 corresponds to the `show` command issued against instances of `CIM_HostedService` where only one
 308 reference is specified and the reference is to an instance of `CIM_ComputerSystem`.

309 6.2.2.1.1 Command Form

```
310 show <CIM_HostedService multiple objects>
```

311 6.2.2.1.2 CIM Requirements

312 See `CIM_HostedService` in the “CIM Elements” section of the [Media Redirection Profile](#) for the list of
 313 mandatory properties.

314 6.2.2.1.3 Behavior Requirements

315 6.2.2.1.3.1 Preconditions

316 `$instance` represents the instance of `CIM_ComputerSystem`, which is referenced by
 317 `CIM_HostedService`.

318 6.2.2.1.3.2 Pseudo Code

```
319 &smShowAssociationInstances ( "CIM_HostedService", $instance.GetObjectPath() );  
320 &smEnd;
```

321 6.2.2.2 Show Command Form for a Single Instance – `CIM_MediaRedirectionService` Reference

322 This command form is used when the `show` verb applies to a single instance. The command form
 323 corresponds to the `show` verb issued against instances of `CIM_HostedService` where only one reference
 324 is specified and the reference is to an instance of `CIM_MediaRedirectionService`.

325 **6.2.2.2.1 Command Form**326

```
show <CIM_HostedService single object>
```

327 **6.2.2.2.2 CIM Requirements**328 See CIM_HostedService in the “CIM Elements” section of the [Media Redirection Profile](#) for the list of
329 mandatory properties.330 **6.2.2.2.3 Behavior Requirements**331 **6.2.2.2.3.1 Preconditions**332 \$instance represents the instance of CIM_MediaRedirectionService, which is referenced by
333 CIM_HostedService.334 **6.2.2.2.3.2 Pseudo Code**335

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


336

```
&smEnd;
```

337 **6.2.2.3 Show Command Form for a Single Instance – Both References**338 This command form is used when the show verb applies to a single instance. This command form
339 corresponds to the show command issued against CIM_HostedService where both references are
340 specified and therefore the desired instance is unambiguously identified.341 **6.2.2.3.1 Command Form**342

```
show <CIM_HostedService single object>
```

343 **6.2.2.3.2 CIM Requirements**344 See CIM_HostedService in the “CIM Elements” section of the [Media Redirection Profile](#) for the list of
345 mandatory properties.346 **6.2.2.3.3 Behavior Requirements**347 **6.2.2.3.3.1 Preconditions**348 \$instanceA represents the referenced instance of CIM_ComputerSystem through CIM_HostedService
349 association.350 \$instanceB represents the other instance of CIM_MediaRedirectionService which is referenced by
351 CIM_HostedService.352 **6.2.2.3.3.2 Pseudo Code**353

```
&smShowAssociationInstance ("CIM_HostedService", $instanceA.getObjectPath(),
```


354

```
    $instanceB.getObjectPath() );
```


355

```
&smEnd;
```

356 **6.3 CIM_HostedAccessPoint**357 The cd and help verbs shall be supported as described in [DSP0216](#).358 Table 3 lists each SM CLP verb, the required level of support for the verb in conjunction with instances of
359 the target class, and, when appropriate, a cross-reference to the section detailing the mapping for the
360 verb and target. Table 3 is for informational purposes only; in case of a conflict between Table 3 and

361 requirements detailed in the following sections, the text detailed in the following sections supersedes the
 362 information in Table 3.

363 **Table 3 – Command Verb Requirements for CIM_HostedAccessPoint**

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	

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

366 **6.3.1 Ordering of Results**

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

- 369 • Results for CIM_HostedAccessPoint are unordered; therefore, no algorithm is defined.

370 **6.3.2 Show**

371 This section describes how to implement the *show* verb when applied to an instance of
 372 CIM_HostedAccessPoint. Implementations shall support the use of the *show* verb with
 373 CIM_HostedAccessPoint.

374 **6.3.2.1 Show Command Form for Multiple Instances – CIM_ComputerSystem Reference**

375 This command form is used when the *show* verb applies to multiple instances. This command form
 376 corresponds to the *show* command issued against instances of CIM_HostedAccessPoint where only one
 377 reference is specified and the reference is to an instance of CIM_ComputerSystem.

378 **6.3.2.1.1 Command Form**

379 `show <CIM_HostedAccessPoint multiple objects>`

380 **6.3.2.1.2 CIM Requirements**

381 See CIM_HostedAccessPoint in the “CIM Elements” section of the [Media Redirection Profile](#) for the list of
 382 mandatory properties.

383 **6.3.2.1.3 Behavior Requirements**

384 **6.3.2.1.3.1 Preconditions**

385 *\$instance* represents the instance of CIM_ComputerSystem, which is referenced by
 386 CIM_HostedAccessPoint.

387 6.3.2.1.3.2 Pseudo Code

```
388 &smShowAssociationInstances ( "CIM_HostedAccessPoint", $instance.getObjectPath() );  
389 &smEnd;
```

390 6.3.2.2 Show Command Form for a Single Instance – CIM_MediaRedirectionSAP Reference

391 This command form is used when the `show` verb applies to a single instance. The command form
392 corresponds to the `show` verb issued against instances of `CIM_HostedAccessPoint` where only one
393 reference is specified and the reference is to an instance of `CIM_MediaRedirectionSAP`.

394 6.3.2.2.1 Command Form

```
395 show <CIM_HostedAccessPoint single object>
```

396 6.3.2.2.2 CIM Requirements

397 See `CIM_HostedAccessPoint` in the “CIM Elements” section of the [Media Redirection Profile](#) for the list of
398 mandatory properties.

399 6.3.2.2.3 Behavior Requirements**400 6.3.2.2.3.1 Preconditions**

401 `$instance` represents the instance of `CIM_MediaRedirectionSAP`, which is referenced by
402 `CIM_HostedAccessPoint`.

403 6.3.2.2.3.2 Pseudo Code

```
404 &smShowAssociationInstances ( "CIM_HostedAccessPoint", $instance.getObjectPath() );  
405 &smEnd;
```

406 6.3.2.3 Show Command Form for a Single Instance – Both References

407 This command form is used when the `show` verb applies to a single instance. This command form
408 corresponds to the `show` command issued against `CIM_HostedAccessPoint` where both references are
409 specified and therefore the desired instance is unambiguously identified.

410 6.3.2.3.1 Command Form

```
411 show <CIM_HostedAccessPoint single object>
```

412 6.3.2.3.2 CIM Requirements

413 See `CIM_HostedAccessPoint` in the “CIM Elements” section of the [Media Redirection Profile](#) for the list of
414 mandatory properties.

415 6.3.2.3.3 Behavior Requirements**416 6.3.2.3.3.1 Preconditions**

417 `$instanceA` represents the referenced instance of `CIM_ComputerSystem` through
418 `CIM_HostedAccessPoint` association.

419 `$instanceB` represents the other instance of `CIM_MediaRedirectionSAP` which is referenced by
420 `CIM_HostedAccessPoint`.

421 **6.3.2.3.2 Pseudo Code**

```

422 &smShowAssociationInstance ("CIM_HostedAccessPoint", $instanceA.getObjectPath(),
423     $instanceB.getObjectPath() );
424 &smEnd;

```

425 **6.4 CIM_ServiceAffectsElement**

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

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

432 **Table 4 – 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 6.4.2.
start	Not supported	
stop	Not supported	

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

435 **6.4.1 Ordering of Results**

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

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

439 **6.4.2 Show**

440 This section describes how to implement the `show` verb when applied to an instance of
 441 `CIM_ServiceAffectsElement`. Implementations shall support the use of the `show` verb with
 442 `CIM_ServiceAffectsElement`.

443 **6.4.2.1 Show Command Form for Multiple Instances – CIM_ComputerSystem Reference**

444 This command form is used when the `show` verb applies to multiple instances. This command form
 445 corresponds to the `show` command issued against instances of `CIM_ServiceAffectsElement` where only
 446 one reference is specified and the reference is to an instance of `CIM_ComputerSystem`.

447 6.4.2.1.1 Command Form

```
448 show <CIM_ServiceAffectsElement multiple instances>
```

449 6.4.2.1.2 CIM Requirements

450 See CIM_ServiceAffectsElement in the “CIM Elements” section of the [Media Redirection Profile](#) for the list
451 of mandatory properties.

452 6.4.2.1.3 Behavior Requirements

453 6.4.2.1.3.1 Preconditions

454 \$instance represents the instance of CIM_ComputerSystem, which is referenced by
455 CIM_ServiceAffectsElement.

456 6.4.2.1.3.2 Pseudo Code

```
457 &smShowAssociationInstances ( "CIM_ServiceAffectsElement",  
458     $instance.getObjectPath() );  
459 &smEnd;
```

460 6.4.2.2 Show Command Form for Multiple Instances – CIM_MediaAccessDevice Reference

461 This command form is used when the show verb applies to multiple instances. This command form
462 corresponds to the show command issued against instances of CIM_ServiceAffectsElement where only
463 one reference is specified and the reference is to an instance of CIM_MediaAccessDevice.

464 6.4.2.2.1 Command Form

```
465 show <CIM_ServiceAffectsElement multiple instances>
```

466 6.4.2.2.2 CIM Requirements

467 See CIM_ServiceAffectsElement in the “CIM Elements” section of the [Media Redirection Profile](#) for the list
468 of mandatory properties.

469 6.4.2.2.3 Behavior Requirements

470 6.4.2.2.3.1 Preconditions

471 \$instance represents the instance of CIM_MediaAccessDevice, which is referenced by
472 CIM_ServiceAffectsElement.

473 6.4.2.2.3.2 Pseudo Code

```
474 &smShowAssociationInstances ( "CIM_ServiceAffectsElement",  
475     $instance.getObjectPath() );  
476 &smEnd;
```

477 6.4.2.3 Show Command Form for Multiple Instances – CIM_MediaRedirectionService Reference

478 This command form is used when the show verb applies to multiple instances. This command form
479 corresponds to the show command issued against instances of CIM_ServiceAffectsElement where only
480 one reference is specified and the reference is to an instance of CIM_MediaRedirectionService.

481 6.4.2.3.1 Command Form

```
482 show <CIM_ServiceAffectsElement multiple instances>
```

483 6.4.2.3.2 CIM Requirements

484 See CIM_ServiceAffectsElement in the “CIM Elements” section of the [Media Redirection Profile](#) for the list
485 of mandatory properties.

486 6.4.2.3.3 Behavior Requirements

487 6.4.2.3.3.1 Preconditions

488 \$instance represents the instance of CIM_MediaRedirectionService, which is referenced by
489 CIM_ServiceAffectsElement.

490 6.4.2.3.3.2 Pseudo Code

```
491 &smShowAssociationInstances ( "CIM_ServiceAffectsElement",
492     $instance.getObjectPath() );
493 &smEnd;
```

494 6.4.2.4 Show Command Form for a Single Instance – Both References

495 This command form is used when the `show` verb applies to a single instance. This command form
496 corresponds to the `show` verb issued against instances of CIM_ServiceAffectsElement where both
497 references are specified and therefore the desired instance is unambiguously identified.

498 6.4.2.4.1 Command Form

```
499 show <CIM_ServiceAffectsElement single instance>
```

500 6.4.2.4.2 CIM Requirements

501 See CIM_ServiceAffectsElement in the “CIM Elements” section of the [Media Redirection Profile](#) for the list
502 of mandatory properties.

503 6.4.2.4.3 Behavior Requirements

504 6.4.2.4.3.1 Preconditions

505 \$instanceA represents the instance of CIM_MediaRedirectionService, which is referenced by
506 CIM_ServiceAffectsElement.

507 \$instanceB represents the instance of CIM_ComputerSystem or CIM_MediaDevice which is referenced
508 by CIM_ServiceAffectsElement.

509 6.4.2.4.3.2 Pseudo Code

```
510 &smShowAssociationInstance ( "CIM_ServiceAffectsElement", $instanceA.getObjectPath(),
511     $instanceB.getObjectPath() );
512 &smEnd;
```

513 6.5 CIM_SAPAvailableForElement

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

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

520

Table 5 – Command Verb Requirements for CIM_SAPAvailableForElement

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	

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

523 6.5.1 Ordering of Results

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

- 526 • Results for `CIM_SAPAvailableForElement` are unordered; therefore, no algorithm is defined.

527 6.5.2 Show

528 This section describes how to implement the `show` verb when applied to an instance of
 529 `CIM_SAPAvailableForElement`. Implementations shall support the use of the `show` verb with
 530 `CIM_SAPAvailableForElement`.

531 6.5.2.1 Show Command Form for Multiple Instances – CIM_ComputerSystem Reference

532 This command form is used when the `show` verb applies to multiple instances. This command form
 533 corresponds to the `show` command issued against instances of `CIM_SAPAvailableForElement` where
 534 only one reference is specified and the reference is to an instance of `CIM_ComputerSystem`.

535 6.5.2.1.1 Command Form

536 `show <CIM_SAPAvailableForElement multiple instances>`

537 6.5.2.1.2 CIM Requirements

538 See `CIM_SAPAvailableForElement` in the “CIM Elements” section of the [Media Redirection Profile](#) for the
 539 list of mandatory properties.

540 6.5.2.1.3 Behavior Requirements

541 6.5.2.1.3.1 Preconditions

542 `$instance` represents the instance of `CIM_ComputerSystem`, which is referenced by
 543 `CIM_SAPAvailableForElement`.

544 **6.5.2.1.3.2 Pseudo Code**

```
545 &smShowAssociationInstances ( "CIM_SAPAvailableForElement",
546     $instance.getObjectPath() );
547 &smEnd;
```

548 **6.5.2.2 Show Command Form for a Single Instance – CIM_MediaAccessDevice Reference**

549 This command form is used when the `show` verb applies to a single instance. This command form
 550 corresponds to the `show` command issued against instances of `CIM_SAPAvailableForElement` where
 551 only one reference is specified and the reference is to an instance of `CIM_MediaAccessDevice`.

552 **6.5.2.2.1 Command Form**

```
553 show <CIM_SAPAvailableForElement single instance>
```

554 **6.5.2.2.2 CIM Requirements**

555 See `CIM_SAPAvailableForElement` in the “CIM Elements” section of the [Media Redirection Profile](#) for the
 556 list of mandatory properties.

557 **6.5.2.2.3 Behavior Requirements**558 **6.5.2.2.3.1 Preconditions**

559 `$instance` represents the instance of `CIM_MediaAccessDevice`, which is referenced by
 560 `CIM_SAPAvailableForElement`.

561 **6.5.2.2.3.2 Pseudo Code**

```
562 &smShowAssociationInstances ( "CIM_SAPAvailableForElement",
563     $instance.getObjectPath() );
564 &smEnd;
```

565 **6.5.2.3 Show Command Form for Multiple Instances – CIM_MediaRedirectionSAP Reference**

566 This command form is used when the `show` verb applies to multiple instances. This command form
 567 corresponds to the `show` command issued against instances of `CIM_SAPAvailableForElement` where
 568 only one reference is specified and the reference is to an instance of `CIM_MediaRedirectionSAP`.

569 **6.5.2.3.1 Command Form**

```
570 show <CIM_SAPAvailableForElement multiple instances>
```

571 **6.5.2.3.2 CIM Requirements**

572 See `CIM_SAPAvailableForElement` in the “CIM Elements” section of the [Media Redirection Profile](#) for the
 573 list of mandatory properties.

574 **6.5.2.3.3 Behavior Requirements**575 **6.5.2.3.3.1 Preconditions**

576 `$instance` represents the instance of `CIM_MediaRedirectionSAP`, which is referenced by
 577 `CIM_SAPAvailableForElement`.

578 **6.5.2.3.3.2 Pseudo Code**

```
579 &smShowAssociationInstances ( "CIM_SAPAvailableForElement",
580     $instance.GetObjectPath() );
581 &smEnd;
```

582 **6.5.2.4 Show Command Form for a Single Instance – Both References**

583 This command form is used when the `show` verb applies to a single instance. This command form
 584 corresponds to the `show` verb issued against instances of `CIM_SAPAvailableForElement` where both
 585 references are specified and therefore the desired instance is unambiguously identified.

586 **6.5.2.4.1 Command Form**

```
587 show <CIM_SAPAvailableForElement single instance>
```

588 **6.5.2.4.2 CIM Requirements**

589 See `CIM_SAPAvailableForElement` in the “CIM Elements” section of the [Media Redirection Profile](#) for the
 590 list of mandatory properties.

591 **6.5.2.4.3 Behavior Requirements**592 **6.5.2.4.3.1 Preconditions**

593 `$instanceA` represents the instance of `CIM_MediaRedirectionSAP`, which is referenced by
 594 `CIM_SAPAvailableForElement`.

595 `$instanceB` represents the instance `CIM_ComputerSystem` or `CIM_MediaAccessDevice` which is
 596 referenced by `CIM_SAPAvailableForElement`.

597 **6.5.2.4.3.2 Pseudo Code**

```
598 &smShowAssociationInstance ( "CIM_SAPAvailableForElement", $instanceA.GetObjectPath(),
599     $instanceB.GetObjectPath() );
600 &smEnd;
```

601 **6.6 CIM_ServiceAccessBySAP**

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

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

608 **Table 6 – Command Verb Requirements for CIM_ServiceAccessBySAP**

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

Command Verb	Requirement	Comments
set	Not supported	
show	Shall	See 6.6.2.
start	Not supported	
stop	Not supported	

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

611 **6.6.1 Ordering of Results**

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

- 614 • Results for `CIM_ServiceAccessBySAP` are unordered; therefore, no algorithm is defined.

615 **6.6.2 Show**

616 This section describes how to implement the `show` verb when applied to an instance of
617 `CIM_ServiceAccessBySAP`. Implementations shall support the use of the `show` verb with
618 `CIM_ServiceAccessBySAP`.

619 **6.6.2.1 Show Command Form for a Single Instance – CIM_MediaRedirectionSAP Reference**

620 This command form is used when the `show` verb applies to a single instance. This command form
621 corresponds to the `show` command issued against instances of `CIM_ServiceAccessBySAP` where only
622 one reference is specified and the reference is to an instance of `CIM_MediaRedirectionSAP`.

623 **6.6.2.1.1 Command Form**

```
624 show <CIM_ServiceAccessBySAP single instance>
```

625 **6.6.2.1.2 CIM Requirements**

626 See `CIM_ServiceAccessBySAP` in the “CIM Elements” section of the [Media Redirection Profile](#) for the list
627 of mandatory properties.

628 **6.6.2.1.3 Behavior Requirements**

629 **6.6.2.1.3.1 Preconditions**

630 `$instance` represents the instance of `CIM_MediaRedirectionSAP`, which is referenced by
631 `CIM_ServiceAccessBySAP`.

632 **6.6.2.1.3.2 Pseudo Code**

```
633 &smShowAssociationInstances ( "CIM_ServiceAccessBySAP", $instance.getObjectPath() );  
634 &smEnd;
```

635 **6.6.2.2 Show Command Form for Multiple Instances – CIM_MediaRedirectionService Reference**

636 This command form is used when the `show` verb applies to multiple instances. The command form
637 corresponds to the `show` verb issued against instances of `CIM_ServiceAccessBySAP` where only one
638 reference is specified and the reference is to an instance of `CIM_MediaRedirectionService`.

639 6.6.2.2.1 Command Form

```
640 show <CIM_ServiceAccessBySAP multiple instances>
```

641 6.6.2.2.2 CIM Requirements

642 See CIM_ServiceAccessBySAP in the “CIM Elements” section of the [Media Redirection Profile](#) for the list
643 of mandatory properties.

644 6.6.2.2.3 Behavior Requirements

645 6.6.2.2.3.1 Preconditions

646 \$instance represents the instance of CIM_MediaRedirectionService, which is referenced by
647 CIM_ServiceAccessBySAP.

648 6.6.2.2.3.2 Pseudo Code

```
649 &smShowAssociationInstances ("CIM_ServiceAccessBySAP", $instance.getObjectPath() );  
650 &smEnd;
```

651 6.6.2.3 Show Command Form for a Single Instance – Both References

652 This command form is used when the show verb applies to a single instance. This command form
653 corresponds to the show command issued against CIM_ServiceAccessBySAP where both references are
654 specified and therefore the desired instance is unambiguously identified.

655 6.6.2.3.1 Command Form

```
656 show <CIM_ServiceAccessBySAP single instance>
```

657 6.6.2.3.2 CIM Requirements

658 See CIM_ServiceAccessBySAP in the “CIM Elements” section of the [Media Redirection Profile](#) for the list
659 of mandatory properties.

660 6.6.2.3.3 Behavior Requirements

661 6.6.2.3.3.1 Preconditions

662 \$instanceA represents the referenced instance of CIM_MediaRedirectionService through
663 CIM_ServiceAccessBySAP association.

664 \$instanceB represents the other instance of CIM_MediaRedirectionSAP which is referenced by
665 CIM_ServiceAccessBySAP.

666 6.6.2.3.3.2 Pseudo Code

```
667 &smShowAssociationInstance ("CIM_ServiceAccessBySAP", $instanceA.getObjectPath(),  
668     $instanceB.getObjectPath() );  
669 &smEnd;
```

670 6.7 CIM_RemoteAccessAvailableToElement

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

672 Table 7 lists each SM CLP verb, the required level of support for the verb in conjunction with instances of
673 the target class, and, when appropriate, a cross-reference to the section detailing the mapping for the
674 verb and target. Table 7 is for informational purposes only; in case of a conflict between Table 7 and

675 requirements detailed in the following sections, the text detailed in the following sections supersedes the
 676 information in Table 7.

677 **Table 7 – Command Verb Requirements for CIM_RemoteAccessAvailableToElement**

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 6.7.2.
start	Not supported	
stop	Not supported	

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

680 **6.7.1 Ordering of Results**

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

- 683 • Results for CIM_RemoteAccessAvailableToElement are unordered; therefore, no algorithm is
 684 defined.

685 **6.7.2 Show**

686 This section describes how to implement the `show` verb when applied to an instance of
 687 CIM_RemoteAccessAvailableToElement. Implementations shall support the use of the `show` verb with
 688 CIM_RemoteAccessAvailableToElement.

689 **6.7.2.1 Show Command Form for a Single Instance – CIM_RemoteServiceAccessPoint**
 690 **Reference**

691 This command form is used when the `show` verb applies to a single instance. This command form
 692 corresponds to the `show` command issued against instances of CIM_RemoteAccessAvailableToElement
 693 where only one reference is specified and the reference is to an instance of
 694 CIM_RemoteServiceAccessPoint.

695 **6.7.2.1.1 Command Form**

696 `show <CIM_RemoteAccessAvailableToElement single instance>`

697 **6.7.2.1.2 CIM Requirements**

698 See CIM_RemoteAccessAvailableToElement in the “CIM Elements” section of the [Media Redirection](#)
 699 [Profile](#) for the list of mandatory properties.

700 6.7.2.1.3 Behavior Requirements

701 6.7.2.1.3.1 Preconditions

702 \$instance represents the instance of CIM_RemoteServiceAccessPoint, which is referenced by
703 CIM_RemoteAccessAvailableToElement.

704 6.7.2.1.3.2 Pseudo Code

```
705 &smShowAssociationInstances ( "CIM_RemoteAccessAvailableToElement",  
706     $instance.GetObjectPath() );  
707 &smEnd;
```

708 6.7.2.2 Show Command Form for a Single Instance – CIM_MediaRedirectionSAP Reference

709 This command form is used when the `show` verb applies to a single instance. The command form
710 corresponds to the `show` verb issued against instances of CIM_RemoteAccessAvailableToElement where
711 only one reference is specified and the reference is to an instance of CIM_MediaRedirectionSAP.

712 6.7.2.2.1 Command Form

```
713 show <CIM_RemoteAccessAvailableToElement single instance>
```

714 6.7.2.2.2 CIM Requirements

715 See CIM_RemoteAccessAvailableToElement in the “CIM Elements” section of the [Media Redirection](#)
716 [Profile](#) for the list of mandatory properties.

717 6.7.2.2.3 Behavior Requirements

718 6.7.2.2.3.1 Preconditions

719 \$instance represents the instance of CIM_MediaRedirectionSAP, which is referenced by
720 CIM_RemoteAccessAvailableToElement.

721 6.7.2.2.3.2 Pseudo Code

```
722 &smShowAssociationInstances ( "CIM_RemoteAccessAvailableToElement",  
723     $instance.GetObjectPath() );  
724 &smEnd;
```

725 6.7.2.3 Show Command Form for a Single Instance – Both References

726 This command form is used when the `show` verb applies to a single instance. This command form
727 corresponds to the `show` command issued against CIM_RemoteAccessAvailableToElement where both
728 references are specified and therefore the desired instance is unambiguously identified.

729 6.7.2.3.1 Command Form

```
730 show <CIM_RemoteAccessAvailableToElement single instance>
```

731 6.7.2.3.2 CIM Requirements

732 See CIM_RemoteAccessAvailableToElement in the “CIM Elements” section of the [Media Redirection](#)
733 [Profile](#) for the list of mandatory properties.

734 **6.7.2.3.3 Behavior Requirements**

735 **6.7.2.3.3.1 Preconditions**

736 \$instanceA represents the referenced instance of CIM_RemoteServiceAccessPoint through
737 CIM_RemoteAccessAvailableToElement association.

738 \$instanceB represents the other instance of CIM_MediaRedirectionSAP which is referenced by
739 CIM_RemoteAccessAvailableToElement.

740 **6.7.2.3.3.2 Pseudo Code**

```
741 &smShowAssociation ( "CIM_RemoteAccessAvailableToElement" ,
742     $instanceA.getObjectPath(), $instanceB.getObjectPath() );
743 &smEnd;
```

744 **6.8 CIM_BindsTo**

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

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

751 **Table 8 – Command Verb Requirements for CIM_BindsTo**

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 6.8.2.
start	Not supported	
stop	Not supported	

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

754 **6.8.1 Ordering of Results**

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

- 757 • Results for CIM_BindsTo are unordered; therefore, no algorithm is defined.

758 6.8.2 Show

759 This section describes how to implement the `show` verb when applied to an instance of `CIM_BindsTo`.
760 Implementations shall support the use of the `show` verb with `CIM_BindsTo`.

761 6.8.2.1 Show Command Form for Multiple Instances – `CIM_ProtocolEndpoint` Reference

762 This command form is used when the `show` verb applies to multiple instances. This command form
763 corresponds to the `show` command issued against instances of `CIM_BindsTo` where only one reference
764 is specified and the reference is to an instance of `CIM_ProtocolEndpoint`.

765 6.8.2.1.1 Command Form

```
766 show <CIM_BindsTo multiple instances>
```

767 6.8.2.1.2 CIM Requirements

768 See `CIM_BindsTo` in the “CIM Elements” section of the [Media Redirection Profile](#) for the list of mandatory
769 properties.

770 6.8.2.1.3 Behavior Requirements

771 6.8.2.1.3.1 Preconditions

772 `$instance` represents the instance of `CIM_ProtocolEndpoint`, which is referenced by `CIM_BindsTo`.

773 6.8.2.1.3.2 Pseudo Code

```
774 &smShowAssociationInstances ( "CIM_BindsTo", $instance.GetObjectPath() );  
775 &smEnd;
```

776 6.8.2.2 Show Command Form for a Single Instance – `CIM_MediaRedirectionSAP` Reference

777 This command form is used when the `show` verb applies to a single instance. This command form
778 corresponds to the `show` command issued against instances of `CIM_BindsTo` where only one reference
779 is specified and the reference is to an instance of `CIM_MediaRedirectionSAP`.

780 6.8.2.2.1 Command Form

```
781 show <CIM_BindsTo single instance>
```

782 6.8.2.2.2 CIM Requirements

783 See `CIM_BindsTo` in the “CIM Elements” section of the [Media Redirection Profile](#) for the list of mandatory
784 properties.

785 6.8.2.2.3 Behavior Requirements

786 6.8.2.2.3.1 Preconditions

787 `$instance` represents the instance of `CIM_MediaRedirectionSAP`, which is referenced by `CIM_BindsTo`.

788 6.8.2.2.3.2 Pseudo Code

```
789 &smShowAssociationInstances ( "CIM_BindsTo", $instance.GetObjectPath() );  
790 &smEnd;
```

791 **6.8.2.3 Show Command Form for a Single Instance – Both References**

792 This command form is used when the `show` verb applies to a single instance. This command form
 793 corresponds to the `show` command issued against `CIM_BindsTo` where both references are specified and
 794 therefore the desired instance is unambiguously identified.

795 **6.8.2.3.1 Command Form**

```
796 show <CIM_BindsTo single instance>
```

797 **6.8.2.3.2 CIM Requirements**

798 See `CIM_BindsTo` in the “CIM Elements” section of the [Media Redirection Profile](#) for the list of mandatory
 799 properties.

800 **6.8.2.3.3 Behavior Requirements**

801 **6.8.2.3.3.1 Preconditions**

802 `$instanceA` represents the referenced instance of `CIM_ProtocolEndpoint` through `CIM_BindsTo`
 803 association.

804 `$instanceB` represents the other instance of `CIM_MediaRedirectionSAP` which is referenced by
 805 `CIM_BindsTo`.

806 **6.8.2.3.3.2 Pseudo Code**

```
807 &smShowAssociationInstance ("CIM_BindsTo", $instanceA.getObjectPath(),  
808     $instanceB.getObjectPath() );  
809 &smEnd;
```

810 **6.9 CIM_MediaAccessDevice**

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

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

817 **Table 9 – Command Verb Requirements for CIM_MediaAccessDevice**

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 6.9.2.
start	Not supported	
stop	Not supported	

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

820 6.9.1 Ordering of Results

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

- 823 • Results for CIM_MediaAccessDevice are unordered; therefore, no algorithm is defined.

824 6.9.2 Show

825 This section describes how to implement the `show` verb when applied to an instance of
826 CIM_MediaAccessDevice. Implementations shall support the use of the `show` verb with
827 CIM_MediaAccessDevice.

828 6.9.2.1 Show a Single Instance

829 This command form is used to display the information about a single instance of
830 CIM_MediaAccessDevice.

831 6.9.2.1.1 Command Form

```
832 show <CIM_MediaAccessDevice single instance>
```

833 6.9.2.1.2 CIM Requirements

834 See CIM_MediaAccessDevice in the “CIM Elements” section of the [Media Redirection Profile](#) for the list of
835 mandatory properties.

836 6.9.2.1.3 Behavior Requirements

837 6.9.2.1.3.1 Preconditions

838 `$instance` represents the instance of CIM_MediaAccessDevice.

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

840 `#propertylist[]` is an array of mandatory non-key property names.

841 6.9.2.1.3.2 Pseudo Code

```
842 if (false != #all) { #propertylist[] = NULL; }  
843 &smShowInstance ( $instance.getObjectPath(), #propertylist[] );  
844 &smEnd;
```

845 6.9.2.2 Show Multiple Instances – CIM_ServiceAffectsElement

846 This command form is used to display the information about multiple instances of
847 CIM_MediaAccessDevice. This command form corresponds to UFsT-based selection within a scoping
848 system.

849 6.9.2.2.1 Command Form

```
850 show <CIM_MediaAccessDevice multiple instances>
```

851 6.9.2.2.2 CIM Requirements

852 See CIM_MediaAccessDevice in the “CIM Elements” section of the [Media Redirection Profile](#) for the list of
853 mandatory properties.

854 6.9.2.2.3 Behavior Requirements

855 6.9.2.2.3.1 Preconditions

856 \$containerInstance represents the instance of CIM_MediaRedirectionService for which the scoped
857 instance of CIM_MediaAccessDevice is being displayed. The CIM_MediaRedirectionService is
858 associated to targeted instances of CIM_MediaAccessDevice via a CIM_ServiceAffectsElement
859 association.

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

861 #propertylist[] is an array of mandatory non-key property names.

862 6.9.2.2.3.2 Pseudo Code

```
863 if (false != #all) { #propertylist[] = NULL; }
864 &smShowInstances ( "CIM_MediaAccessDevice", "CIM_ServiceAffectsElement",
865     $containerInstance.getObjectPath(), #propertylist[] );
866 &smEnd;
```

867 6.9.2.3 Show Multiple Instances – CIM_ServiceAvailableForElement

868 This command form is used to display the information about multiple instances of
869 CIM_MediaAccessDevice. This command form corresponds to UFsT-based selection within a scoping
870 system.

871 6.9.2.3.1 Command Form

```
872 show <CIM_MediaAccessDevice multiple instances>
```

873 6.9.2.3.2 CIM Requirements

874 See CIM_MediaAccessDevice in the “CIM Elements” section of the [Media Redirection Profile](#) for the list of
875 mandatory properties.

876 6.9.2.3.3 Behavior Requirements

877 6.9.2.3.3.1 Preconditions

878 \$containerInstance represents the instance of CIM_MediaRedirectionSAP for which the scoped
879 instance of CIM_MediaAccessDevice is being displayed. The CIM_MediaRedirectionSAP is associated to
880 targeted instances of CIM_MediaAccessDevice via a CIM_ServiceAvailableForElement association.

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

882 #propertylist[] is an array of mandatory non-key property names.

883 6.9.2.3.3.2 Pseudo Code

```
884 if (false != #all) { #propertylist[] = NULL; }
885 &smShowInstances ( "CIM_MediaAccessDevice", "CIM_ServiceAvailableForElement",
886     $containerInstance.getObjectPath(), #propertylist[] );
887 &smEnd;
```

888 6.10 CIM_RemoteServiceAccessPoint

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

890 Table 10 lists each SM CLP verb, the required level of support for the verb in conjunction with instances
 891 of the target class, and, when appropriate, a cross-reference to the section detailing the mapping for the
 892 verb and target. Table 10 is for informational purposes only; in case of a conflict between Table 10 and
 893 requirements detailed in the following sections, the text detailed in the following sections supersedes the
 894 information in Table 10.

895 **Table 10 – Command Verb Requirements for CIM_RemoteServiceAccessPoint**

Command Verb	Requirement	Comments
create	Not supported	
delete	Not supported	
dump	Not supported	
load	Not supported	
reset	Not supported	
set	May	See 6.10.2.
show	Shall	See 6.10.3.
start	Not supported	
stop	Not supported	

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

898 6.10.1 Ordering of Results

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

- 901 • Results for `CIM_RemoteServiceAccessPoint` are unordered; therefore, no algorithm is defined.

902 6.10.2 Set

903 6.10.2.1 General Usage of Set for a Single Property

904 This command form corresponds to the general usage of the `set` verb to modify a single property of a
 905 target instance. The setting of a single property shall be deterministic.

906 The requirements for supporting modification of a property using this command form shall be equivalent
 907 to the requirement for supporting modification of the property using the `ModifyInstance` operation as
 908 defined in the [Media Redirection Profile](#).

909 6.10.2.1.1 Command Form

```
910 set <CIM_RemoteServiceAccessPoint single object> <propertyname>=<propertyvalue>
```

911 6.10.2.1.2 CIM Requirements

912 See `CIM_RemoteServiceAccessPoint` in the “CIM Elements” section of the [Media Redirection Profile](#) for
 913 the list of mandatory properties.

914 6.10.2.1.3 Behavior Requirements

915 6.10.2.1.3.1 Preconditions

916 `$instance` represents the instance of `CIM_RemoteServiceAccessPoint`.

```
917 $instance=<CIM_RemoteServiceAccessPoint single object>;
```

918 6.10.2.1.3.2 Pseudo Code

```
919 #propertyName[] = <propertyname>;
920 #propertyValues[] = <propertyvalue>;
921 &smSetInstance ( $instance, #propertyNames, #propertyValues );
922 &smEnd;
```

923 6.10.2.2 General Usage of Set for Multiple Properties

924 This command form corresponds to the general usage of the set verb to modify multiple properties of a
925 target instance. The setting of multiple properties may be deterministic.

926 The requirements for supporting modification of a property using this command form shall be equivalent
927 to the requirement for supporting modification of the property using the `ModifyInstance` operation as
928 defined in the [Media Redirection Profile](#).

929 6.10.2.2.1 Command Form

```
930 set <CIM_RemoteServiceAccessPoint multiple objects> <propertyname1>=<propertyvalue1>
931 <propertynameN>=<propertyvalueN>
```

932 6.10.2.2.2 CIM Requirements

933 See `CIM_RemoteServiceAccessPoint` in the “CIM Elements” section of the [Media Redirection Profile](#) for
934 the list of mandatory properties.

935 6.10.2.2.3 Behavior Requirements

936 6.10.2.2.3.1 Preconditions

937 `$instance` represents the instance of `CIM_RemoteServiceAccessPoint`.

938 6.10.2.2.3.2 Pseudo Code

```
939 for #i < n
940 {
941   #propertyName[#i] = <propertyname#i>
942   #propertyValues[#i] = <propertyvalue#i>
943 }
944 &smSetInstance ( $instance, #propertyNames[], #propertyValues[] );
945 &smEnd;
```

946 6.10.3 Show

947 The `show` verb is used to display information about instances of `CIM_RemoteServiceAccessPoint`.
948 Implementations shall support the use of the `show` verb with `CIM_RemoteServiceAccessPoint`.

949 6.10.3.1 Show a Single Instance

950 This command form is used to display the information about a single instance of
951 CIM_RemoteServiceAccessPoint.

952 6.10.3.1.1 Command Form

```
953 show <CIM_RemoteServiceAccessPoint single instance>
```

954 6.10.3.1.2 CIM Requirements

955 See CIM_RemoteServiceAccessPoint in the “CIM Elements” section of the [Media Redirection Profile](#) for
956 the list of mandatory properties.

957 6.10.3.1.3 Behavior Requirements

958 6.10.3.1.3.1 Preconditions

959 \$instance represents the instance of CIM_RemoteServiceAccessPoint.

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

961 #propertylist[] is an array of mandatory non-key property names.

962 6.10.3.1.3.2 Pseudo Code

```
963 if (false != #all) { #propertylist[] = NULL; }  
964 &smShowInstance ( $instance.getObjectPath(), #propertylist[] );  
965 &smEnd;
```

966 6.10.3.2 Show Multiple Instances – CIM_RemoteAccessAvailableToElement

967 This command form is used to display the information about multiple instances of
968 CIM_RemoteServiceAccessPoint. This command form corresponds to UFsT-based selection within a
969 scoping system.

970 6.10.3.2.1 Command Form

```
971 show <CIM_RemoteServiceAccessPoint multiple instances>
```

972 6.10.3.2.2 CIM Requirements

973 See CIM_RemoteServiceAccessPoint in the “CIM Elements” section of the [Media Redirection Profile](#) for
974 the list of mandatory properties.

975 6.10.3.2.3 Behavior Requirements

976 6.10.3.2.3.1 Preconditions

977 \$containerInstance represents the instance of CIM_MediaRedirectionSAP for which the scoped
978 instance of CIM_RemoteServiceAccessPoint is being displayed. The CIM_MediaRedirectionSAP is
979 associated to targeted instances of CIM_RemoteServiceAccessPoint via a
980 CIM_RemoteAccessAvailableToElement association.

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

982 #propertylist[] is an array of mandatory non-key property names.

983 **6.10.3.2.3.2 Pseudo Code**

```

984 if (false != #all) { #propertylist[] = NULL; }
985 &smShowInstances ( "CIM_RemoteServiceAccessPoint",
986     "CIM_RemoteAccessAvailableToElement", $containerInstance.getObjectPath(),
987     #propertylist[] );
988 &smEnd;
    
```

989 **6.11 CIM_EnabledLogicalElementCapabilities**

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

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

996 **Table 11 – 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 6.11.2.
start	Not supported	
stop	Not supported	

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

999 **6.11.1 Ordering of Results**

1000 When results are returned for multiple instances of `CIM_EnabledLogicalElementCapabilities`,
 1001 implementations shall utilize the following algorithm to produce the natural (that is, default) ordering:

- 1002 • Results for `CIM_EnabledLogicalElementCapabilities` are unordered; therefore, no algorithm is
 1003 defined.

1004 **6.11.2 Show**

1005 The `show` verb is used to display information about instances of
 1006 `CIM_EnabledLogicalElementCapabilities`. Implementations shall support the use of the `show` verb with
 1007 `CIM_EnabledLogicalElementCapabilities`.

1008 **6.11.2.1 Show a Single Instance**

1009 This command form is used to display the information about a single instance of
 1010 `CIM_EnabledLogicalElementCapabilities`.

1011 6.11.2.1.1 Command Form

```
1012 show <CIM_EnabledLogicalElementCapabilities single instance>
```

1013 6.11.2.1.2 CIM Requirements

1014 See CIM_EnabledLogicalElementCapabilities in the “CIM Elements” section of the [Media Redirection Profile](#) for the list of mandatory properties.

1016 6.11.2.1.3 Behavior Requirements

1017 6.11.2.1.3.1 Preconditions

1018 \$instance represents the instance of CIM_EnabledLogicalElementCapabilities.

1019 #all is true, if the “-all” option was specified with the command; otherwise, #all is false.

1020 #propertylist[] is an array of mandatory non-key property names.

1021 6.11.2.1.3.2 Pseudo Code

```
1022 if (false != #all) { #propertylist[] = NULL; }
1023 &smShowInstance ( $instance.getObjectPath(), #propertylist[] );
1024 &smEnd;
```

1025 6.11.2.2 Show Multiple Instances

1026 This command form is used to display the information about multiple instances of
1027 CIM_EnabledLogicalElementCapabilities. This command form corresponds to UFST-based selection
1028 within a scoping system.

1029 6.11.2.2.1 Command Form

```
1030 show <CIM_EnabledLogicalElementCapabilities multiple instances>
```

1031 6.11.2.2.2 CIM Requirements

1032 See CIM_EnabledLogicalElementCapabilities in the “CIM Elements” section of the [Media Redirection Profile](#) for the list of mandatory properties.

1034 6.11.2.2.3 Behavior Requirements

1035 6.11.2.2.3.1 Preconditions

1036 \$containerInstance represents the instance of CIM_ConcreteCollection with ElementName property
1037 that contains “Capabilities” and is associated to the targeted instances of
1038 CIM_EnabledLogicalElementCapabilities through the CIM_MemberOfCollection association.

1039 #all is true, if the “-all” option was specified with the command; otherwise, #all is false.

1040 #propertylist[] is an array of mandatory non-key property names.

1041 6.11.2.2.3.2 Pseudo Code

```
1042 if (false != #all) { #propertylist[] = NULL; }
1043 &smShowInstances ( "CIM_EnabledLogicalElementCapabilities", "CIM_ConcreteCollection",
1044   $containerInstance.getObjectPath(), #propertylist[] );
1045 &smEnd;
```

1046 **6.12 CIM_MediaRedirectionCapabilities**

1047 The `cd` and `help` verbs shall be supported as described in [DSP0216](#).

1048 Table 12 lists each SM CLP verb, the required level of support for the verb in conjunction with instances
 1049 of the target class, and, when appropriate, a cross-reference to the section detailing the mapping for the
 1050 verb and target. Table 12 is for informational purposes only; in case of a conflict between Table 12 and
 1051 requirements detailed in the following sections, the text detailed in the following sections supersedes the
 1052 information in Table 12.

1053 **Table 12 – Command Verb Requirements for CIM_MediaRedirectionCapabilities**

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	

1054 No mapping is defined for the following verbs for the specified target: `create`, `delete`, `dump`, `load`,
 1055 `reset`, `set`, `start`, and `stop`.

1056 **6.12.1 Ordering of Results**

1057 When results are returned for multiple instances of `CIM_MediaRedirectionCapabilities`, implementations
 1058 shall utilize the following algorithm to produce the natural (that is, default) ordering:

- 1059 • Results for `CIM_MediaRedirectionCapabilities` are unordered; therefore, no algorithm is defined.

1060 **6.12.2 Show**

1061 This section describes how to implement the `show` verb when applied to an instance of
 1062 `CIM_MediaRedirectionCapabilities`. Implementations shall support the use of the `show` verb with
 1063 `CIM_MediaRedirectionCapabilities`.

1064 The `show` verb is used to display information about an instance or instances of the
 1065 `CIM_MediaRedirectionCapabilities` class.

1066 **6.12.2.1 Show a Single Instance**

1067 This command form is for the `show` verb applied to a single instance of
 1068 `CIM_MediaRedirectionCapabilities`.

1069 **6.12.2.1.1 Command Form**

1070 `show <CIM_MediaRedirectionCapabilities single instance>`

1071 **6.12.2.1.2 CIM Requirements**

1072 See `CIM_MediaRedirectionCapabilities` in the “CIM Elements” section of the [Media Redirection Profile](#) for
 1073 the list of mandatory properties.

1074 **6.12.2.1.3 Behavior Requirements**1075 **6.12.2.1.3.1 Preconditions**

1076 \$instance represents the instance of CIM_MediaRedirectionCapabilities.

```
1077 $instance=<CIM_MediaRedirectionCapabilities single instance>;
```

1078 #all is true if the all option was specified with the command; otherwise, #all is false.

1079 **6.12.2.1.3.2 Pseudo Code**

```
1080 #propertylist[] = null;
1081 if ( false == #all)
1082     {
1083         #propertylist[] = { //all mandatory non-key properties }
1084     }
1085 &smShowInstance ( $instance.getObjectPath(), #propertylist[] );
1086 &smEnd;
```

1087 **6.12.2.2 Show Multiple Instances**

1088 This command form is for the show verb applied to multiple instances of
1089 CIM_MediaRedirectionCapabilities. This command form corresponds to UFsT-based selection within a
1090 capabilities collection.

1091 **6.12.2.2.1 Command Form**

```
1092 show <CIM_MediaRedirectionCapabilities multiple instances>
```

1093 **6.12.2.2.2 CIM Requirements**

1094 See CIM_MediaRedirectionCapabilities in the “CIM Elements” section of the [Media Redirection Profile](#) for
1095 the list of mandatory properties.

1096 **6.12.2.2.3 Behavior Requirements**1097 **6.12.2.2.3.1 Preconditions**

1098 \$containerInstance represents the instance of CIM_ConcreteCollection with ElementName property
1099 that contains “Capabilities” and is associated to the targeted instances of
1100 CIM_MediaRedirectionCapabilities through the CIM_MemberOfCollection association.

1101 #all is true if the all option was specified with the command; otherwise, #all is false.

1102 **6.12.2.2.3.2 Pseudo Code**

```
1103 #propertylist[] = NULL;
1104 if ( false == #all)
1105     {
1106         #propertylist[] = { //all mandatory non-key properties }
1107     }
1108 &smShowInstances ( "CIM_MediaRedirectionCapabilities", "CIM_MemberOfCollection",
1109     $containerInstance.getObjectPath(), #propertylist[] );
1110 &smEnd;
```

1111 **6.13 CIM_MediaRedirectionSAP**

1112 The `cd` and `help` verbs shall be supported as described in [DSP0216](#).

1113 Table 13 lists each SM CLP verb, the required level of support for the verb in conjunction with instances
 1114 of the target class, and, when appropriate, a cross-reference to the section detailing the mapping for the
 1115 verb and target. Table 13 is for informational purposes only; in case of a conflict between Table 13 and
 1116 requirements detailed in the following sections, the text detailed in the following sections supersedes the
 1117 information in Table 13.

1118 **Table 13 – Command Verb Requirements for CIM_MediaRedirectionSAP**

Command Verb	Requirement	Comments
create	Not supported	
delete	Not supported	
dump	Not supported	
load	Not supported	
reset	Not supported	
set	May	See 6.13.2.
show	Shall	See 6.13.3.
start	May	See 6.13.4.
stop	May	See 6.13.5.

1119 No mapping is defined for the following verbs for the specified target: `create`, `delete`, `dump`, `load`, and
 1120 `reset`.

1121 **6.13.1 Ordering of Results**

1122 When results are returned for multiple instances of CIM_MediaRedirectionSAP, implementations shall
 1123 utilize the following algorithm to produce the natural (that is, default) ordering:

- 1124 • Results for CIM_MediaRedirectionSAP are unordered; therefore, no algorithm is defined.

1125 **6.13.2 Set**

1126 The `set` verb is used to set properties on an instance of CIM_MediaRedirectionSAP. Implementations
 1127 may support the use of the `set` verb with CIM_MediaRedirectionSAP.

1128 **6.13.2.1 General Usage of Set for a Single Property**

1129 This command form corresponds to the general usage of the `set` verb to modify a single property of a
 1130 target instance. The setting of a single property shall be deterministic.

1131 The requirements for supporting modification of a property using this command form shall be equivalent
 1132 to the requirement for supporting modification of the property using the ModifyInstance operation as
 1133 defined in the [Media Redirection Profile](#).

1134 **6.13.2.1.1 Command Form**

1135 `set <CIM_MediaRedirectionSAP single object> <propertyname>=<propertyvalue>`

1136 **6.13.2.1.2 CIM Requirements**

1137 See CIM_MediaRedirectionSAP in the “CIM Elements” section of the [Media Redirection Profile](#) for the list
1138 of mandatory properties.

1139 **6.13.2.1.3 Behavior Requirements**1140 **6.13.2.1.3.1 Preconditions**

1141 \$instance represents the targeted instance of CIM_MediaRedirectionSAP.

```
1142 $instance=<CIM_MediaRedirectionSAP single object>;
```

1143 **6.13.2.1.3.2 Pseudo Code**

```
1144 #propertyName[] = <propertyname>;
1145 #propertyValues[] = <propertyvalue>;
1146 &smSetInstance ( $instance, #propertyName, #propertyValues );
1147 &smEnd;
```

1148 **6.13.2.2 General Usage of Set for Multiple Properties**

1149 This command form corresponds to the general usage of the set verb to modify multiple properties of a
1150 target instance. The setting of multiple properties may be deterministic.

1151 The requirements for supporting modification of a property using this command form shall be equivalent
1152 to the requirement for supporting modification of the property using the ModifyInstance operation as
1153 defined in the [Media Redirection Profile](#).

1154 **6.13.2.2.1 Command Form**

```
1155 set <CIM_MediaRedirectionSAP multiple objects> <propertyname1>=<propertyvalue1>  
1156 <propertynameN>=<propertyvalueN>
```

1157 **6.13.2.2.2 CIM Requirements**

1158 See CIM_MediaRedirectionSAP in the “CIM Elements” section of the [Media Redirection Profile](#) for the list
1159 of mandatory properties.

1160 **6.13.2.2.3 Behavior Requirements**1161 **6.13.2.2.3.1 Preconditions**

1162 \$instance represents the instance of CIM_MediaRedirectionSAP.

1163 **6.13.2.2.3.2 Pseudo Code**

```
1164 for #i < n
1165 {
1166     #propertyName[#i] = <propertyname#i>
1167     #propertyValues[#i] = <propertyvalue#i>
1168 }
1169 &smSetInstance ( $instance, #propertyName[], #propertyValues[] );
1170 &smEnd;
```


1171 **6.13.3 Show**

1172 The `show` verb is used to display information about instances of CIM_MediaRedirectionSAP.
 1173 Implementations shall support the use of the `show` verb with CIM_MediaRedirectionSAP.

1174 **6.13.3.1 Show a Single Instance**

1175 This command form is used to display information about a single instance of CIM_MediaRedirectionSAP.

1176 **6.13.3.1.1 Command Form**

```
1177 show <CIM_MediaRedirectionSAP single instance>
```

1178 **6.13.3.1.2 CIM Requirements**

1179 See CIM_MediaRedirectionSAP in the “CIM Elements” section of the [Media Redirection Profile](#) for the list
 1180 of mandatory properties.

1181 **6.13.3.1.3 Behavior Requirements**

1182 **6.13.3.1.3.1 Preconditions**

1183 `$instance` represents the instance of CIM_MediaRedirectionSAP.

1184 `#all` is true, if the “-all” option was specified with the command; otherwise, `#all` is false.

1185 `#propertylist[]` is an array of mandatory non-key property names.

1186 **6.13.3.1.3.2 Pseudo Code**

```
1187 if (false != #all) { #propertylist[] = NULL; }  

  1188 &smShowInstance ( $instance.getObjectPath(), #propertylist[] );  

  1189 &smEnd;
```

1190 **6.13.3.2 Show Multiple Instances – CIM_HostedAccessPoint**

1191 This command form is used to display information about multiple instances of
 1192 CIM_MediaRedirectionSAP.

1193 **6.13.3.2.1 Command Form**

```
1194 show <CIM_MediaRedirectionSAP multiple instances>
```

1195 **6.13.3.2.2 CIM Requirements**

1196 See CIM_MediaRedirectionSAP in the “CIM Elements” section of the [Media Redirection Profile](#) for the list
 1197 of mandatory properties.

1198 **6.13.3.2.3 Behavior Requirements**

1199 **6.13.3.2.3.1 Preconditions**

1200 `$containerInstance` represents the instance of CIM_ComputerSystem for which the scoped instance
 1201 of CIM_MediaRedirectionSAP is being displayed. The CIM_MediaRedirectionSAP is associated to
 1202 CIM_ComputerSystem via a CIM_HostedAccessPoint association.

1203 `#all` is true, if the “-all” option was specified with the command; otherwise, `#all` is false.

1204 `#propertylist[]` is an array of mandatory non-key property names.

1205 **6.13.3.2.3.2 Pseudo Code**

```
1206 if (false != #all) { #propertylist[] = NULL; }
1207 &smShowInstances ( "CIM_MediaRedirectionSAP", "CIM_HostedAccessPoint",
1208     $containerInstance.getObjectPath(), #propertylist[] );
1209 &smEnd;
```

1210 **6.13.3.3 Show Multiple Instances – CIM_SAPAvailableForElement**

1211 This command form is used to display information about multiple instances of
1212 CIM_MediaRedirectionSAP.

1213 **6.13.3.3.1 Command Form**

```
1214 show <CIM_MediaRedirectionSAP multiple instances>
```

1215 **6.13.3.3.2 CIM Requirements**

1216 See CIM_MediaRedirectionSAP in the “CIM Elements” section of the [Media Redirection Profile](#) for the list
1217 of mandatory properties.

1218 **6.13.3.3.3 Behavior Requirements**1219 **6.13.3.3.3.1 Preconditions**

1220 \$containerInstance represents the instance of CIM_ComputerSystem for which the scoped instance
1221 of CIM_MediaRedirectionSAP is being displayed. The CIM_MediaRedirectionSAP is associated to
1222 CIM_ComputerSystem via a CIM_SAPAvailableForElement association.

1223 #all is true, if the “-all” option was specified with the command; otherwise, #all is false.

1224 #propertylist[] is an array of mandatory non-key property names.

1225 **6.13.3.3.3.2 Pseudo Code**

```
1226 if (false != #all) { #propertylist[] = NULL; }
1227 &smShowInstances ( "CIM_MediaRedirectionSAP", "CIM_SAPAvailableForElement",
1228     $containerInstance.getObjectPath(), #propertylist[] );
1229 &smEnd;
```

1230 **6.13.3.4 Show Multiple Instances – CIM_ServiceAccessBySAP**

1231 This command form is used to display information about multiple instances of
1232 CIM_MediaRedirectionSAP.

1233 **6.13.3.4.1 Command Form**

```
1234 show <CIM_MediaRedirectionSAP multiple instances>
```

1235 **6.13.3.4.2 CIM Requirements**

1236 See CIM_MediaRedirectionSAP in the “CIM Elements” section of the [Media Redirection Profile](#) for the list
1237 of mandatory properties.

1238 6.13.3.4.3 Behavior Requirements

1239 6.13.3.4.3.1 Preconditions

1240 \$containerInstance represents the instance of CIM_MediaRedirectionService for which the scoped
1241 instance of CIM_MediaRedirectionSAP is being displayed. The CIM_MediaRedirectionSAP is associated
1242 to CIM_MediaRedirectionService via a CIM_ServiceAccessBySAP association.

1243 #all is true, if the “-all” option was specified with the command; otherwise, #all is false.

1244 #propertylist[] is an array of mandatory non-key property names.

1245 6.13.3.4.3.2 Pseudo Code

```
1246 if (false != #all) { #propertylist[] = NULL; }
1247 &smShowInstances ( "CIM_MediaRedirectionSAP", "CIM_ServiceAccessBySAP",
1248     $containerInstance.getObjectPath(), #propertylist[] );
1249 &smEnd;
```

1250 6.13.4 Start

1251 This section describes how to implement the `start` verb when applied to an instance of
1252 CIM_MediaRedirectionSAP. Implementations may support the use of the `start` verb with
1253 CIM_MediaRedirectionSAP.

1254 The `start` verb is used to enable a Media Redirection Session.

1255 6.13.4.1 Start a Single Instance

1256 This command form is for the `start` verb applied to a single instance of CIM_MediaRedirectionSAP, in
1257 which the CIM_MediaRedirectionSAP does not use CLP session for the Media Redirection session.

1258 6.13.4.1.1 Command Form

```
1259 start <CIM_MediaRedirectionSAP single instance>
```

1260 6.13.4.1.2 CIM Requirements

1261 See CIM_MediaRedirectionSAP in the “CIM Elements” section of the [Media Redirection Profile](#) for the list
1262 of mandatory properties.

1263 6.13.4.1.3 Behavior Requirements

1264 6.13.4.1.3.1 Preconditions

1265 \$instance represents the targeted instance of CIM_MediaRedirectionSAP.

```
1266 $instance=<CIM_MediaRedirectionSAP single instance>;
```

1267 6.13.4.1.3.2 Pseudo Code

```
1268 &smStartRSC ( $instance.getObjectPath() );
1269 &smEnd;
```

1270 6.13.5 Stop

1271 This section describes how to implement the `stop` verb when applied to an instance of
1272 CIM_MediaRedirectionSAP. Implementations may support the use of the `stop` verb with
1273 CIM_MediaRedirectionSAP.

1274 The `stop` verb is used to place a Media Redirection session into a 6 (Enabled but Offline) state.

1275 6.13.5.1 Stop a Single Instance

1276 This command form is for the `stop` verb applied to a single instance of `CIM_MediaRedirectionSAP`.

1277 6.13.5.1.1 Command Form

```
1278 stop <CIM_MediaRedirectionSAP single instance>
```

1279 6.13.5.1.2 CIM Requirements

1280 See `CIM_MediaRedirectionSAP` in the “CIM Elements” section of the [Media Redirection Profile](#) for the list
1281 of mandatory properties.

1282 6.13.5.1.3 Behavior Requirements

1283 6.13.5.1.3.1 Preconditions

1284 `$instance` represents the targeted instance of `CIM_MediaRedirectionSAP`.

```
1285 $instance=<CIM_MediaRedirectionSAP single instance>;
```

1286 6.13.5.1.3.2 Pseudo Code

```
1287 "Offline" is valuemap 6  
1288 &smRequestStateChange ( $instance.getObjectPath(), "Offline" );  
1289 &smEnd;
```

1290 6.13.5.2 Set RequestedState to “Disabled”

1291 This section describes how to change the state of the Redirection Session represented by
1292 `CIM_MediaRedirectionSAP` to “Disabled”.

1293 6.13.5.2.1 Command Form

```
1294 set <CIM_MediaRedirectionSAP single instance> RequestedState="Disabled"
```

1295 6.13.5.2.2 CIM Requirements

1296 See `CIM_MediaRedirectionSAP` in the “CIM Elements” section of the [Media Redirection Profile](#) for the list
1297 of mandatory properties.

1298 6.13.5.2.3 Behavior Requirements

1299 6.13.5.2.3.1 Preconditions

1300 `$instance` represents the targeted instance of `CIM_MediaRedirectionSAP`.

```
1301 $instance=<CIM_MediaRedirectionSAP single instance>;
```

1302 6.13.5.2.3.2 Pseudo Code

```
1303 &smStopRSC ( $instance.getObjectPath() );  
1304 &smEnd;
```

1305 6.14 CIM_MediaRedirectionService

1306 The `cd` and `help` verbs shall be supported as described in [DSP0216](#).

1307 Table 14 lists each SM CLP verb, the required level of support for the verb in conjunction with instances
 1308 of the target class, and, when appropriate, a cross-reference to the section detailing the mapping for the
 1309 verb and target. Table 14 is for informational purposes only; in case of a conflict between Table 14 and
 1310 requirements detailed in the following sections, the text detailed in the following sections supersedes the
 1311 information in Table 14.

1312 **Table 14 – Command Verb Requirements for CIM_MediaRedirectionService**

Command Verb	Requirement	Comments
create	Not supported	
delete	Not supported	
dump	Not supported	
load	Not supported	
reset	Not supported	
set	May	See 6.14.2.
show	Shall	See 6.14.3.
start	May	See 6.14.5.
stop	May	See 6.14.5.

1313 No mapping is defined for the following verbs for the specified target: `create`, `delete`, `dump`, `load`, and
 1314 `reset`.

1315 6.14.1 Ordering of Results

1316 When results are returned for multiple instances of `CIM_MediaRedirectionService`, implementations shall
 1317 utilize the following algorithm to produce the natural (that is, default) ordering:

- 1318 • Results for `CIM_MediaRedirectionService` are unordered; therefore, no algorithm is defined.

1319 6.14.2 Set

1320 This section describes how to implement the `set` verb when it is applied to an instance of
 1321 `CIM_MediaRedirectionService`. The `set` verb is used to set properties on an instance of
 1322 `CIM_MediaRedirectionService`.

1323 Implementations may support the use of the `set` verb with `CIM_MediaRedirectionService`.

1324 6.14.2.1 General Usage of Set for a Single Property

1325 This command form corresponds to the general usage of the `set` verb to modify a single property of a
 1326 target instance. The setting of a single property shall be deterministic.

1327 The requirements for supporting modification of a property using this command form shall be equivalent
 1328 to the requirement for supporting modification of the property using the `ModifyInstance` operation as
 1329 defined in the [Media Redirection Profile](#).

1330 6.14.2.1.1 Command Form

1331 `set <CIM_MediaRedirectionService single object> <propertyname>=<propertyvalue>`

1332 **6.14.2.1.2 CIM Requirements**

1333 See CIM_MediaRedirectionService in the “CIM Elements” section of the [Media Redirection Profile](#) for the
1334 list of mandatory properties.

1335 **6.14.2.1.3 Behavior Requirements**1336 **6.14.2.1.3.1 Preconditions**

1337 \$instance represents the instance of CIM_MediaRedirectionService.

```
1338 $instance=<CIM_MediaRedirectionService single object>;
```

1339 **6.14.2.1.3.2 Pseudo Code**

```
1340 #propertyNames[] = <propertname>;
1341 #propertyValues[] = <propertyvalue>;
1342 &smSetInstance ( $instance, #propertyNames[], #propertyValues[] );
1343 &smEnd;
```

1344 **6.14.2.2 General Usage of Set for Multiple Properties**

1345 This command form corresponds to the general usage of the set verb to modify multiple properties of a
1346 target instance. The setting of multiple properties may be deterministic.

1347 The requirements for supporting modification of a property using this command form shall be equivalent
1348 to the requirement for supporting modification of the property using the ModifyInstance operation as
1349 defined in the [Media Redirection Profile](#).

1350 **6.14.2.2.1 Command Form**

```
1351 set <CIM_MediaRedirectionService multiple objects> <propertyname1>=<propertyvalue1>
1352 <propertynameN>=<propertyvalueN>
```

1353 **6.14.2.2.2 CIM Requirements**

1354 See CIM_MediaRedirectionService in the “CIM Elements” section of the [Media Redirection Profile](#) for the
1355 list of mandatory properties.

1356 **6.14.2.2.3 Behavior Requirements**1357 **6.14.2.2.3.1 Preconditions**

1358 \$instance represents the instance of CIM_MediaRedirectionService.

1359 **6.14.2.2.3.2 Pseudo Code**

```
1360 for #i < n
1361 {
1362     #propertyNames[#i] = <propertname#i>
1363     #propertyValues[#i] = <propertyvalue#i>
1364 }
1365 &smSetInstance ( $instance, #propertyNames[], #propertyValues[] );
1366 &smEnd;
```

1367 **6.14.3 Show**

1368 The `show` verb is used to display information about instances of `CIM_MediaRedirectionService`.
 1369 Implementations shall support the use of the `show` verb with `CIM_MediaRedirectionService`.

1370 **6.14.3.1 Show Command Form for a Single Instance**

1371 This command form is to show a single instance of `CIM_MediaRedirectionService`.

1372 **6.14.3.1.1 Command Form**

```
1373 show <CIM_MediaRedirectionService single instance>
```

1374 **6.14.3.1.2 CIM Requirements**

1375 See `CIM_MediaRedirectionService` in the “CIM Elements” section of the [Media Redirection Profile](#) for the
 1376 list of mandatory properties.

1377 **6.14.3.1.3 Behavior Requirements**

1378 **6.14.3.1.3.1 Preconditions**

1379 `$instance` represents the instance of `CIM_MediaRedirectionService`.

1380 `#all` is true, if the “-all” option was specified with the command; otherwise, `#all` is false.

1381 `#propertylist[]` is an array of mandatory non-key property names.

1382 **6.14.3.1.3.2 Pseudo Code**

```
1383 if (false != #all) { #propertylist[] = NULL; }  

  1384 &smShowInstance ( $instance.getObjectPath(), #propertylist[] );  

  1385 &smEnd;
```

1386 **6.14.4 Start**

1387 This section describes how to implement the `start` verb when applied to an instance of
 1388 `CIM_MediaRedirectionService`. Implementations may support the use of the `start` verb with
 1389 `CIM_MediaRedirectionService`.

1390 Implementations may support the use of the `start` verb with `CIM_MediaRedirectionService`.

1391 **6.14.4.1 Start Command Form for a Single Instance**

1392 This command form is for the `start` verb applied to a single instance of `CIM_MediaRedirectionService`.
 1393 Implementations may support the use of the `start` verb with `CIM_MediaRedirectionService`.

1394 The `start` verb is used to enable a Media Redirection Service.

1395 **6.14.4.1.1 Command Form**

```
1396 start <CIM_MediaRedirectionService single instance>
```

1397 **6.14.4.1.2 CIM Requirements**

1398 See `CIM_MediaRedirectionService` in the “CIM Elements” section of the [Media Redirection Profile](#) for the
 1399 list of mandatory properties.

1400 6.14.4.1.3 Behavior Requirements

1401 6.14.4.1.3.1 Preconditions

1402 \$instance represents the instance of CIM_MediaRedirectionService.

```
1403 $instance=<CIM_MediaRedirectionService single instance>;
```

1404 6.14.4.1.3.2 Pseudo Code

```
1405 &smStartRSC ( $instance.GetObjectPath() );
```

```
1406 &smEnd;
```

1407 6.14.5 Stop

1408 This section describes how to implement the `stop` verb when applied to an instance of
1409 CIM_MediaRedirectionService. Implementations may support the use of the `stop` verb with
1410 CIM_MediaRedirectionService.

1411 The `stop` verb is used to place a Media Redirection Service in a 3 (Disabled) state.

1412 6.14.5.1 Stop Command Form for a Single Instance

1413 This command form is for the `stop` verb applied to a single instance of CIM_MediaRedirectionService.

1414 6.14.5.1.1 Command Form

```
1415 stop <CIM_MediaRedirectionService single instance>
```

1416 6.14.5.1.2 CIM Requirements

1417 See CIM_MediaRedirectionService in the “CIM Elements” section of the [Media Redirection Profile](#) for the
1418 list of mandatory properties.

1419 6.14.5.1.3 Behavior Requirements

1420 6.14.5.1.3.1 Preconditions

1421 \$instance represents the instance of CIM_MediaRedirectionService.

```
1422 $instance=<CIM_MediaRedirectionService single instance>;
```

1423 6.14.5.1.3.2 Pseudo Code

```
1424 &smRequestStateChange ( $instance.GetObjectPath(), "Disabled" );
```

```
1425 &smEnd;
```

1426

**ANNEX A
(informative)**

Change Log

1427
1428
1429
1430
1431

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

1432