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Foreword

The *SMASH Implementation Requirements* (DSP0217) was prepared by the Server Management Working Group of the DMTF.

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Introduction

This specification describes the conformance requirements for implementing the System Management Architecture for Server Hardware (SMASH) version 1.0.0.

1

SMASH Implementation Requirements

1 Scope

This document specifies the requirements for implementing the System Management Architecture for Server Hardware (SMASH) version 1.0. This document specifies those requirements by defining which other DMTF Specifications are required, conditional, and optional. In clause 4, the mandatory specifications to be implemented are defined. In clause 5, the optional and conditional specifications are defined.

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 DSP0214, *Server Management Command Line Protocol Specification 1.0*,
http://www.dmtf.org/standards/published_documents/DSP0214_1.0.pdf

DMTF DSP0215, *Server Management Managed Element (SM ME) Specification 1.0*,
http://www.dmtf.org/standards/published_documents/DSP0215_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

DMTF DSP0800, *Base Server Profile SM CLP Command Mapping Specification 1.0*,
http://www.dmtf.org/standards/published_documents/DSP0800_1.0.pdf

DMTF DSP0801, *CLP Service Profile SM CLP Command Mapping Specification 1.0*,
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DMTF DSP0802, *SMASH Collections Profile SM CLP Command Mapping Specification 1.0*,
http://www.dmtf.org/standards/published_documents/DSP0802_1.0.pdf

DMTF DSP0803, *SM CLP Admin Domain Profile SM CLP Command Mapping Specification 1.0*,
http://www.dmtf.org/standards/published_documents/DSP0803_1.0.pdf

DMTF DSP0804, *Modular System Profile SM CLP Command Mapping Specification 1.0*,
http://www.dmtf.org/standards/published_documents/DSP0804_1.0.pdf

DMTF DSP0805, *Sensors Profile SM CLP Command Mapping Specification 1.0*,
http://www.dmtf.org/standards/published_documents/DSP0805_1.0.pdf

DMTF DSP0806, *Device Tray Profile SM CLP Command Mapping Specification 1.0*,
http://www.dmtf.org/standards/published_documents/DSP0806_1.0.pdf

DMTF DSP0807, *Pass-Through Module Profile SM CLP Command Mapping Specification 1.0*,
http://www.dmtf.org/standards/published_documents/DSP0807_1.0.pdf

DMTF DSP0808, *CPU Profile SM CLP Command Mapping Specification 1.0*,
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- 37 DMTF DSP0809, *System Memory Profile SM CLP Command Mapping Specification 1.0*,
38 http://www.dmtf.org/standards/published_documents/DSP0809_1.0.pdf
- 39 DMTF DSP0810, *Record Log Profile SM CLP Command Mapping Specification 1.0*,
40 http://www.dmtf.org/standards/published_documents/DSP0810_1.0.pdf
- 41 DMTF DSP0811, *Simple Identity Management Profile SM CLP Command Mapping Specification 1.0*,
42 http://www.dmtf.org/standards/published_documents/DSP0811_1.0.pdf
- 43 DMTF DSP0812, *Physical Asset Profile SM CLP Command Mapping Specification 1.0*,
44 http://www.dmtf.org/standards/published_documents/DSP0812_1.0.pdf
- 45 DMTF DSP0813, *Boot Control Profile SM CLP Command Mapping Specification 1.0*,
46 http://www.dmtf.org/standards/published_documents/DSP0813_1.0.pdf
- 47 DMTF DSP0814, *Fan Profile SM CLP Command Mapping Specification 1.0*,
48 http://www.dmtf.org/standards/published_documents/DSP0814_1.0.pdf
- 49 DMTF DSP0815, *Ethernet Port Profile SM CLP Command Mapping Specification 1.0*,
50 http://www.dmtf.org/standards/published_documents/DSP0815_1.0.pdf
- 51 DMTF DSP0817, *IP Interface Profile SM CLP Command Mapping Specification 1.0*,
52 http://www.dmtf.org/standards/published_documents/DSP0817_1.0.pdf
- 53 DMTF DSP0818, *DHCP Client Profile SM CLP Command Mapping Specification 1.0*,
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- 55 DMTF DSP0819, *DNS Client Profile SM CLP Command Mapping Specification 1.0*,
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- 63 DMTF DSP0823, *Power State Management Profile SM CLP Command Mapping Specification 1.0*,
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- 65 DMTF DSP0824, *Service Processor Profile SM CLP Command Mapping Specification 1.0*,
66 http://www.dmtf.org/standards/published_documents/DSP0824_1.0.pdf
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- 69 DMTF DSP0826, *Software Inventory Profile SM CLP Command Mapping Specification 1.0*,
70 http://www.dmtf.org/standards/published_documents/DSP0826_1.0.pdf
- 71 DMTF DSP0827, *Software Update Profile SM CLP Command Mapping Specification 1.0*,
72 http://www.dmtf.org/standards/published_documents/DSP0827_1.0.pdf
- 73 DMTF DSP0828, *Text Console Redirection Profile SM CLP Command Mapping Specification 1.0*,
74 http://www.dmtf.org/standards/published_documents/DSP0828_1.0.pdf
- 75 DMTF DSP0830, *Role Based Authorization Profile SM CLP Command Mapping Specification 1.0*,
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- 79 DMTF DSP1005, *CLP Service Profile 1.0*,
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82 http://www.dmtf.org/standards/published_documents/DSP1006_1.0.pdf
- 83 DMTF DSP1007, *SM CLP Admin Domain Profile 1.0*,
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- 109 DMTF DSP1020, *Pass-Through Module Profile 1.0*,
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125 DMTF DSP1034, *Simple Identity Management Profile 1.0*,
126 http://www.dmtf.org/standards/published_documents/DSP1034_1.0.pdf

127 DMTF DSP1036, *IP Interface Profile 1.0*,
128 http://www.dmtf.org/standards/published_documents/DSP1036_1.0.pdf

129 DMTF DSP1037, *DHCP Client Profile 1.0*,
130 http://www.dmtf.org/standards/published_documents/DSP1037_1.0.pdf

131 DMTF DSP1038, *DNS Client Profile 1.0*,
132 http://www.dmtf.org/standards/published_documents/DSP1038_1.0.pdf

133 DMTF DSP1039, *Role Based Authorization Profile 1.0*,
134 http://www.dmtf.org/standards/published_documents/DSP1039_1.0.pdf

135 2.2 Other References

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

138 3 Terms and Definitions

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

140 3.1

141 **can**

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

143 3.2

144 **cannot**

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

146 3.3

147 **conditional**

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

150 3.4

151 **mandatory**

152 indicates requirements to be followed strictly in order to conform to the document and from which no
153 deviation is permitted

- 154 **3.5**
155 **may**
156 indicates a course of action permissible within the limits of the document
- 157 **3.6**
158 **need not**
159 indicates a course of action permissible within the limits of the document
- 160 **3.7**
161 **optional**
162 indicates a course of action permissible within the limits of the document
- 163 **3.8**
164 **shall**
165 indicates requirements to be followed strictly in order to conform to the document and from which no
166 deviation is permitted
- 167 **3.9**
168 **shall not**
169 indicates requirements to be followed in order to conform to the document and from which no deviation is
170 permitted
- 171 **3.10**
172 **should**
173 indicates that among several possibilities, one is recommended as particularly suitable, without
174 mentioning or excluding others, or that a certain course of action is preferred but not necessarily required
- 175 **3.11**
176 **should not**
177 indicates that a certain possibility or course of action is deprecated but not prohibited

178 **4 Mandatory Specification Requirements**

179 The following specifications shall be implemented:

- 180 • DMTF [DSP0214](#), *Server Management Command Line Protocol Specification*, 1.0
- 181 • DMTF [DSP0215](#), *Server Management Managed Element Addressing Specification*, 1.0
- 182 • DMTF [DSP0216](#), *SM CLP to CIM Common Mapping Specification*, 1.0
- 183 • DMTF [DSP1005](#), *CLP Service Profile*, 1.0

184 **5 Conditional Specification Requirements**

185 This section details the requirements for profiles and their associated mapping specifications.

186 At least one of the following profiles shall be implemented:

- 187 • DMTF [DSP1004](#), *Base Server Profile*, 1.0
- 188 • DMTF [DSP1008](#), *Modular System Profile*, 1.0
- 189 • DMTF [DSP1018](#), *Service Processor Profile*, 1.0

190 5.1 Base Server Profile

191 The [Base Server Profile](#) may be implemented. If the [Base Server Profile](#) is implemented, the following
192 requirements specified in the remainder of this section shall be met.

193 The optional behavior of implementing the [SMASH Collections Profile](#) specified in the [Base Server Profile](#)
194 shall be implemented. The [Base Server Profile SM CLP Command Mapping Specification](#) shall be
195 implemented.

196 5.2 Boot Control Profile

197 The [Boot Control Profile](#) may be implemented. If the [Boot Control Profile](#) is implemented, the following
198 requirements specified in the remainder of this section shall be met.

199 The [Boot Control Profile SM CLP Command Mapping Specification](#) shall be implemented.

200 5.3 Service Processor Profile

201 The [Service Processor Profile](#) may be implemented. If the [Service Processor Profile](#) is implemented, the
202 following requirements specified in the remainder of this section shall be met.

203 The optional behavior of implementing the [SMASH Collections Profile](#) specified in the [Service Processor](#)
204 [Profile](#) shall be implemented. The [Service Processor Profile SM CLP Command Mapping Specification](#)
205 shall be implemented.

206 5.4 CLP Service Profile

207 The [CLP Service Profile](#) shall be implemented.

208 Either the optional behavior of implementing the [SSH Service Profile](#) specified in the [CLP Service Profile](#)
209 or the optional behavior of implementing the [Telnet Service Profile](#) specified in the [CLP Service Profile](#)
210 should be implemented. The [CLP Service Profile SM CLP Command Mapping Specification](#) shall be
211 implemented.

212 5.5 CPU Profile

213 The [CPU Profile](#) may be implemented. If the [CPU Profile](#) is implemented, the following requirements
214 specified in the remainder of this section shall be met.

215 The [CPU Profile SM CLP Command Mapping Specification](#) shall be implemented.

216 5.6 Device Tray Profile

217 The [Device Tray Profile](#) may be implemented. If the [Device Tray Profile](#) is implemented, the following
218 requirements specified in the remainder of this section shall be met.

219 The [Device Tray Profile SM CLP Command Mapping Specification](#) shall be implemented.

220 5.7 DHCP Client Profile

221 The [DHCP Client Profile](#) may be implemented. If the [DHCP Client Profile](#) is implemented, the following
222 requirements specified in the remainder of this section shall be met.

223 The [DHCP Client Profile SM CLP Command Mapping Specification](#) shall be implemented.

224 5.8 DNS Client Profile

225 The [DNS Client Profile](#) may be implemented. If the [DNS Client Profile](#) is implemented, the following
226 requirements specified in the remainder of this section shall be met.

227 The [DNS Client Profile SM CLP Command Mapping Specification](#) shall be implemented.

228 5.9 Ethernet Port Profile

229 The [Ethernet Port Profile](#) may be implemented. If the [Ethernet Port Profile](#) is implemented, the following
230 requirements specified in the remainder of this section shall be met.

231 The [Ethernet Port Profile SM CLP Command Mapping Specification](#) shall be implemented.

232 5.10 Fan Profile

233 The [Fan Profile](#) may be implemented. If the [Fan Profile](#) is implemented, the following requirements
234 specified in the remainder of this section shall be met.

235 The [Fan Profile SM CLP Command Mapping Specification](#) shall be implemented.

236 5.11 IP Interface Profile

237 The [IP Interface Profile](#) may be implemented. If the [IP Interface Profile](#) is implemented, the following
238 requirements specified in the remainder of this section shall be met.

239 The [IP Interface Profile SM CLP Command Mapping Specification](#) shall be implemented.

240 5.12 Modular System Profile

241 The [Modular System Profile](#) may be implemented. If the [Modular System Profile](#) is implemented, the
242 following requirements specified in the remainder of this section shall be met.

243 The [Modular System Profile SM CLP Command Mapping Specification](#) shall be implemented.

244 5.13 Pass-Through Module Profile

245 The [Pass-Through Module Profile](#) may be implemented. If the [Pass-Through Module Profile](#) is
246 implemented, the following requirements specified in the remainder of this section shall be met.

247 The [Pass-Through Module Profile SM CLP Command Mapping Specification](#) shall be implemented.

248 5.14 Physical Asset Profile

249 The [Physical Asset Profile](#) may be implemented. If the [Physical Asset Profile](#) is implemented, the
250 following requirements specified in the remainder of this section shall be met.

251 The [Physical Asset Profile SM CLP Command Mapping Specification](#) shall be implemented.

252 5.15 Power State Management Profile

253 The [Power State Management Profile](#) may be implemented. If the [Power State Management Profile](#) is
254 implemented, the following requirements specified in the remainder of this section shall be met.

255 The [Power State Management Profile SM CLP Command Mapping Specification](#) shall be implemented.

256 5.16 Power Supply Profile

257 The [Power Supply Profile](#) may be implemented. If the [Power Supply Profile](#) is implemented, the following
258 requirements specified in the remainder of this section shall be met.

259 The [Power Supply Profile SM CLP Command Mapping Specification](#) shall be implemented.

260 5.17 Record Log Profile

261 The [Record Log Profile](#) may be implemented. If the [Record Log Profile](#) is implemented, the following
262 requirements specified in the remainder of this section shall be met.

263 The [Record Log Profile SM CLP Command Mapping Specification](#) shall be implemented.

264 5.18 Role Based Authorization Profile

265 The [Role Based Authorization Profile](#) may be implemented. If the [Role Based Authorization Profile](#) is
266 implemented, the following requirements specified in the remainder of this section shall be met.

267 The [Role Based Authorization Profile SM CLP Command Mapping Specification](#) shall be implemented.

268 5.19 Sensors Profile

269 The [Sensors Profile](#) may be implemented. If the [Sensors Profile](#) is implemented, the following
270 requirements specified in the remainder of this section shall be met.

271 The [Sensors Profile SM CLP Command Mapping Specification](#) shall be implemented.

272 5.20 Shared Device Management Profile

273 The [Shared Device Management Profile](#) may be implemented. If the [Shared Device Management Profile](#)
274 is implemented, the following requirements specified in the remainder of this section shall be met.

275 The [Shared Device Management Profile SM CLP Command Mapping Specification](#) shall be implemented.

276 5.21 Simple Identity Management Profile

277 The [Simple Identity Management Profile](#) may be implemented. If the [Simple Identity Management Profile](#)
278 is implemented, the following requirements specified in the remainder of this section shall be met.

279 The [Simple Identity Management Profile SM CLP Command Mapping Specification](#) shall be implemented.

280 5.22 SM CLP Admin Domain Profile

281 The [SM CLP Admin Domain Profile](#) is mandatory in the [CLP Service Profile](#). Therefore, it will always be
282 implemented.

283 The [SM CLP Admin Domain Profile SM CLP Command Mapping Specification](#) shall be implemented.

284 5.23 SMASH Collections Profile

285 The [SMASH Collections Profile](#) will be implemented for autonomous profiles and is mandatory in the [CLP](#)
286 [Service Profile](#). Therefore, it will always be implemented.

287 The [SMASH Collections Profile SM CLP Command Mapping Specification](#) shall be implemented.

288 5.24 Software Inventory Profile

289 The [Software Inventory Profile](#) may be implemented. If the [Software Inventory Profile](#) is implemented, the
290 following requirements specified in the remainder of this section shall be met.

291 The [Software Inventory Profile SM CLP Command Mapping Specification](#) shall be implemented.

292 5.25 Software Update Profile

293 The [Software Update Profile](#) may be implemented. If the [Software Update Profile](#) is implemented, the
294 following requirements specified in the remainder of this section shall be met.

295 The [Software Update Profile SM CLP Command Mapping Specification](#) shall be implemented.

296 5.26 SSH Service Profile

297 The [SSH Service Profile](#) may be implemented. If the [SSH Service Profile](#) is implemented, the following
298 requirements specified in the remainder of this section shall be met.

299 The [SSH Service Profile SM CLP Command Mapping Specification](#) shall be implemented.

300 5.27 System Memory Profile

301 The [System Memory Profile](#) may be implemented. If the [System Memory Profile](#) is implemented, the
302 following requirements specified in the remainder of this section shall be met.

303 The [System Memory Profile SM CLP Command Mapping Specification](#) shall be implemented.

304 5.28 Telnet Service Profile

305 The [Telnet Service Profile](#) may be implemented. If the [Telnet Service Profile](#) is implemented, the following
306 requirements specified in the remainder of this section shall be met.

307 The [Telnet Service Profile SM CLP Command Mapping Specification](#) shall be implemented.

308 5.29 Text Console Redirection Profile

309 The [Text Console Redirection Profile](#) may be implemented. If the [Text Console Redirection Profile](#) is
310 implemented, the following requirements specified in the remainder of this section shall be met.

311 The [Text Console Redirection Profile SM CLP Command Mapping Specification](#) shall be implemented.

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ANNEX A (informative)

Change Log

Version	Date	Author	Description
1.0.0a	11/02/2006		Preliminary Standard
1.0.0	10/14/2009		DMTF Standard Release

318

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322

323