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5 **DHCP Client Profile**

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113

Foreword

114 The *DHCP Client Profile* (DSP1037) was prepared by the Server Management Working Group, the
115 Physical Platform Profiles Working Group and the Server Desktop Mobile Platforms Working Group of the
116 DMTF.

117 DMTF is a not-for-profit association of industry members dedicated to promoting enterprise and systems
118 management and interoperability. For information about the DMTF, see <http://www.dmtf.org>.

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134

135

Introduction

136 The information in this specification should be sufficient for a provider or consumer of this data to identify
137 unambiguously the classes, properties, methods, and values that shall be instantiated and manipulated to
138 represent and manage a DHCP client.

139 The target audience for this specification is implementers who are writing CIM-based providers or
140 consumers of management interfaces that represent the component described in this document.

141 **Document conventions**

142 **Typographical conventions**

143 The following typographical conventions are used in this document:

- 144 • Document titles are marked in *italics*.

145

146

DHCP Client Profile

147 1 Scope

148 The *DHCP Client Profile* extends the management capability of referencing profiles by adding the
149 capability to represent a DHCP client that is associated with an IP interface.

150 2 Normative references

151 The following referenced documents are indispensable for the application of this document. For dated or
152 versioned references, only the edition cited (including any corrigenda or DMTF update versions) applies.
153 For references without a date or version, the latest published edition of the referenced document
154 (including any corrigenda or DMTF update versions) applies.

155 DMTF DSP0004, *CIM Infrastructure Specification 2.6*,
156 http://www.dmtf.org/standards/published_documents/DSP0004_2.6.pdf

157 DMTF DSP0200, *CIM Operations over HTTP 1.3*,
158 http://www.dmtf.org/standards/published_documents/DSP0200_1.3.pdf

159 DMTF DSP0223, *Generic Operations 1.0*,
160 http://www.dmtf.org/standards/published_documents/DSP0223_1.0.pdf

161 DMTF DSP1001, *Management Profile Specification Usage Guide 1.0*,
162 http://www.dmtf.org/standards/published_documents/DSP1001_1.0.pdf

163 DMTF DSP1004, *Base Server Profile 1.0*,
164 http://www.dmtf.org/standards/published_documents/DSP1004_1.0.pdf

165 DMTF DSP1033, *Profile Registration Profile 1.0*,
166 http://www.dmtf.org/standards/published_documents/DSP1033_1.0.pdf

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

169 IETF RFC 1208, *A Glossary of Networking Terms*, March 1991, <http://www.ietf.org/rfc/rfc1208.txt>

170 IETF RFC 2131, *Dynamic Host Configuration Protocol*, March 1997, <http://www.ietf.org/rfc/rfc2131.txt>

171 IETF RFC 3315, *Dynamic Host Configuration Protocol for IPv6 (DHCPv6)*, July 2003,
172 <http://www.ietf.org/rfc/rfc3315.txt>

173 IETF RFC 4291, *IP Version 6 Addressing Architecture*, February 2006, <http://www.ietf.org/rfc/rfc4291.txt>

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

176 3 Terms and definitions

177 In this document, some terms have a specific meaning beyond the normal English meaning. Those terms
178 are defined in this clause.

179 The terms "shall" ("required"), "shall not," "should" ("recommended"), "should not" ("not recommended"),
180 "may," "need not" ("not required"), "can" and "cannot" in this document are to be interpreted as described
181 in [ISO/IEC Directives, Part 2](#), Annex H. The terms in parenthesis are alternatives for the preceding term,
182 for use in exceptional cases when the preceding term cannot be used for linguistic reasons. Note that

- 183 [ISO/IEC Directives, Part 2](#), Annex H specifies additional alternatives. Occurrences of such additional
184 alternatives shall be interpreted in their normal English meaning.
- 185 The terms "clause," "subclause," "paragraph," and "annex" in this document are to be interpreted as
186 described in [ISO/IEC Directives, Part 2](#), Clause 5.
- 187 The terms "normative" and "informative" in this document are to be interpreted as described in [ISO/IEC](#)
188 [Directives, Part 2](#), Clause 3. In this document, clauses, subclauses, or annexes labeled "(informative)" do
189 not contain normative content. Notes and examples are always informative elements.
- 190 The terms defined in [DSP0004](#), [DSP0223](#), and [DSP1001](#) apply to this document. The following additional
191 terms are used in this document.
- 192 **3.1**
193 **can**
194 used for statements of possibility and capability, whether material, physical, or causal
- 195 **3.1**
196 **cannot**
197 used for statements of possibility and capability, whether material, physical, or causal
- 198 **3.2**
199 **conditional**
200 indicates requirements to be followed strictly to conform to the document when the specified conditions
201 are met
- 202 **3.3**
203 **mandatory**
204 indicates requirements to be followed strictly to conform to the document and from which no deviation is
205 permitted
- 206 **3.4**
207 **may**
208 indicates a course of action permissible within the limits of the document
- 209 **3.5**
210 **need not**
211 indicates a course of action permissible within the limits of the document
- 212 **3.6**
213 **optional**
214 indicates a course of action permissible within the limits of the document
- 215 **3.7**
216 **referencing profile**
217 indicates a profile that owns the definition of this class and can include a reference to this profile in its
218 "Referenced Profiles" table
- 219 **3.8**
220 **shall**
221 indicates requirements to be followed strictly to conform to the document and from which no deviation is
222 permitted
- 223 **3.9**

224 **shall not**
 225 indicates requirements to be followed strictly to conform to the document and from which no deviation is
 226 permitted

227 **3.10**
 228 **should**
 229 indicates that among several possibilities, one is recommended as particularly suitable, without
 230 mentioning or excluding others, or that a certain course of action is preferred but not necessarily required

231 **3.11**
 232 **should not**
 233 indicates that a certain possibility or course of action is deprecated but not prohibited

234 **3.12**
 235 **unspecified**
 236 indicates that this profile does not define any constraints for the referenced CIM element or operation

237 **4 Symbols and abbreviated terms**

238 The following abbreviations are used in this document.

239 **4.1**
 240 **DHCP**
 241 Dynamic Host Configuration Protocol

242 **4.2**
 243 **IP**
 244 Internet Protocol

245 **5 Synopsis**

246 **Profile name:** DHCP Client

247 **Version:** 1.0.3

248 **Organization:** DMTF

249 **CIM Schema version:** 2.27

250 **Central class:** CIM_DHCPProtocolEndpoint

251 **Scoping class:** CIM_ComputerSystem

252 The *DHCP Client Profile* extends the capability of referencing profiles by adding the capability to manage
 253 a DHCP client and its associated capabilities and configuration. Table 1 identifies profiles on which this
 254 profile has a dependency.

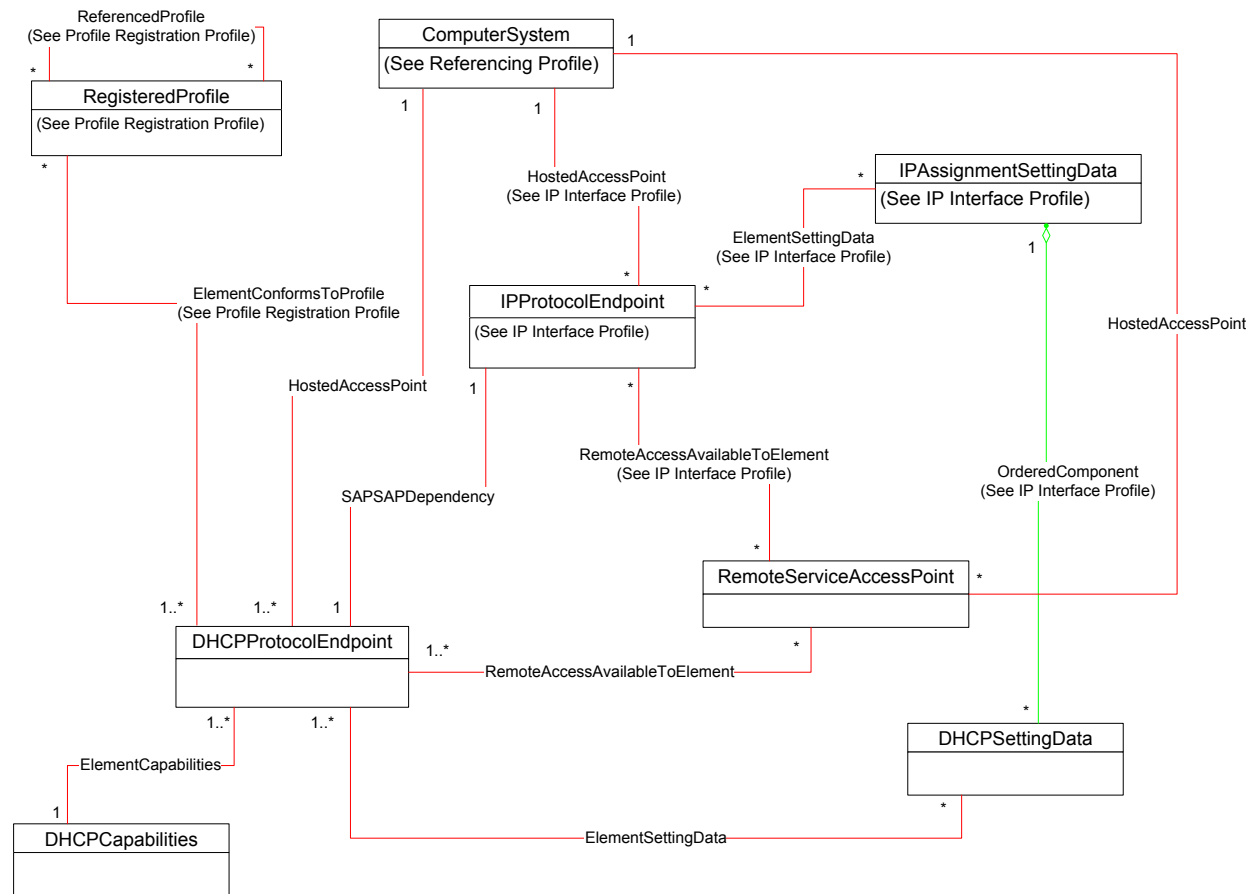
255 **Table 1 – Referenced profiles**

Profile Name	Organization	Version	Requirement	Description
A. Profile Registration	DMTF	1.0	Mandatory	None
B. IP Interface	DMTF	1.0	Mandatory	See 7.2.1.

256 **6 Description**

257 The *DHCP Client Profile* extends the management capability of referencing profiles by adding the
 258 capability to represent a DHCP client and its associated capabilities and configuration. The DHCP client
 259 is modeled with an instance of CIM_DHCPProtocolEndpoint. The DHCP client's capabilities are modeled
 260 with an instance of CIM_DHCPCapabilities. Aspects of the DHCP client's configuration are modeled with
 261 properties of DHCPProtocolEndpoint as well as with CIM_DHCPSettingData.

262 Figure 1 represents the class schema for the *DHCP Client Profile*. For simplicity, the prefix CIM_ has
 263 been removed from the names of the classes.



264

265 **Figure 1 – DHCP Client Profile: Class diagram**

266 **7 Implementation**

267 This clause details the requirements related to the arrangement of instances and properties of instances
 268 for implementations of this profile.

269 **7.1 DHCP server representation**

270 When the DHCP client successfully acquires a configuration from a DHCP server, an instance of
 271 CIM_RemoteServiceAccessPoint shall represent the DHCP server from which the DHCP client received
 272 its configuration.

273 7.1.1 CIM_RemoteServiceAccessPoint.AccessInfo

274 The value of the AccessInfo property of each instance of CIM_RemoteServiceAccessPoint shall be the IP
275 address of the DHCP server. If the value of CIM_RemoteServiceAccessPoint.InfoFormat is 3 (IPv4
276 Address), then the value of the property shall be expressed in dotted decimal notation as defined in IETF
277 [RFC 1208](#).

278 If the value of CIM_RemoteServiceAccessPoint.InfoFormat is 4 (IPv6 Address), then the value of the
279 property shall be expressed in the notation as defined in IETF [RFC 4291](#), section 2.2.

280 7.1.2 CIM_RemoteServiceAccessPoint.InfoFormat

281 The value of the InfoFormat property shall be a value of 3 (IPv4 Address) or a value of 4 (IPv6 Address).

282 7.1.3 Representing multiple DHCP servers

283 An instance of CIM_RemoteServiceAccessPoint may represent each DHCP server that responded to the
284 client's DHCPDISCOVER message.

285 7.2 DHCP client representation

286 The DHCP client shall be modeled using an instance of CIM_DHCPProtocolEndpoint.

287 7.2.1 Relationship with CIM_IPProtocolEndpoint

288 The DHCP client is associated with a single IP interface, which is instrumented according to the [IP](#)
289 [Interface Profile](#). A single instance of CIM_SAPSAPDependency shall associate the Central Instance with
290 the CIM_IPProtocolEndpoint defined in the [IP Interface Profile](#).

291 7.2.1.1 CIM_SAPSAPDependency.Dependent

292 A reference to the CIM_DHCPProtocolEndpoint instance shall be the value of the Dependent property of
293 the CIM_SAPSAPDependency instance.

294 7.2.1.2 CIM_SAPSAPDependency.Antecedent

295 A reference to the CIM_IPProtocolEndpoint instance shall be the value of the Antecedent property of the
296 CIM_SAPSAPDependency instance.

297 7.3 Managing the DHCP client's state

298 This clause describes the use of the EnabledState property to represent the state of an instance of
299 CIM_DHCPProtocolEndpoint.

300 7.3.1 CIM_DHCPProtocolEndpoint.RequestedState

301 When the last configuration process of the associated IP interface includes the use of the DHCP client to
302 acquire all or part of the configuration, the value of the RequestedState property of the
303 CIM_DHCPProtocolEndpoint instance shall be 2 (Enabled), regardless of whether the configuration was
304 successfully obtained. This value indicates that the configuration process included an attempt to use
305 DHCP.

306 When the last configuration process of the associated IP interface does not include an attempt to use the
307 DHCP client, the value of the RequestedState property of the CIM_DHCPProtocolEndpoint instance shall
308 be 3 (Disabled). This value indicates that the configuration process did not include an attempt to use
309 DHCP.

310 Before a configuration is applied to the associated IP interface, the value of the
311 CIM_DHCPProtocolEndpoint.RequestedState property shall be 5 (No Change).

312 **7.3.2 CIM_DHCPProtocolEndpoint.EnabledState**

313 Valid values for the CIM_DHCPProtocolEndpoint.EnabledState property shall be 2 (Enabled), 3
314 (Disabled), or 6 (Enabled but Offline).

315 **7.3.2.1 Enabled**

316 The EnabledState property shall have a value of 2 (Enabled) when the
317 CIM_DHCPProtocolEndpoint.ClientState property has a value of 8 (Bound).

318 **7.3.2.2 Enabled but Offline**

319 The EnabledState property shall have a value of 6 (Enabled but Offline) when the
320 CIM_DHCPProtocolEndpoint.ClientState property has a value other than 8 (Bound) or 0 (Unknown). This
321 value shall indicate that the DHCP client is actively attempting to acquire a configuration for the
322 associated IP interface.

323 **7.3.2.3 Disabled**

324 The EnabledState property shall have a value of 3 (Disabled) when the DHCP client is disabled for the
325 associated IP interface. This value is appropriate when the DHCP client is not actively attempting to
326 acquire a configuration either because the last configuration applied to the associated IP interface did not
327 use DHCP or because the DHCP client failed to acquire a configuration and was disabled.

328 **7.3.3 CIM_DHCPProtocolEndpoint.ClientState**

329 When the CIM_DHCPProtocolEndpoint.EnabledState property has a value other than 3 (Disabled), the
330 CIM_DHCPProtocolEndpoint.ClientState property shall identify the current status of the DHCP client
331 following the state diagram illustrated in Figure 5 of IETF [RFC 2131](#).

332 When the CIM_DHCPProtocolEndpoint.EnabledState property has a value of 3 (Disabled), the
333 CIM_DHCPProtocolEndpoint.ClientState property shall have the value 0 (Unknown).

334 **7.3.4 Modifying ElementName is supported**

335 This clause describes the CIM elements and behaviors that shall be implemented when the
336 CIM_DHCPProtocolEndpoint.ElementName property supports being modified by the ModifyInstance
337 operation.

338 **7.3.4.1 CIM_DHPCCapabilities**

339 For the instance of CIM_DHPCCapabilities that is associated with the Central Instance through an
340 instance of CIM_ElementCapabilities, the CIM_DHPCCapabilities.ElementNameEditSupported property
341 shall have a value of TRUE when the implementation supports client modification of the
342 CIM_DHCPProtocolEndpoint.ElementName property. The CIM_DHPCCapabilities.MaxElementNameLen
343 property shall be implemented.

344 **7.3.5 Modifying ElementName is not supported**

345 This clause describes the CIM elements and behaviors that shall be implemented when the
346 CIM_DHCPProtocolEndpoint.ElementName property does not support being modified by the
347 ModifyInstance operation.

348 7.3.5.1 CIM_DHCPCapabilities

349 For the instance of CIM_DHCPCapabilities that is associated with the Central Instance through an
350 instance of CIM_ElementCapabilities, the CIM_DHCPCapabilities.ElementNameEditSupported property
351 shall have a value of FALSE when the implementation does not support client modification of the
352 CIM_DHCPProtocolEndpoint.ElementName property. The CIM_DHCPCapabilities.MaxElementNameLen
353 property may be implemented. The MaxElementNameLen property is irrelevant in this context.

354 7.4 DHCP client capabilities

355 Exactly one instance of CIM_DHCPCapabilities shall be associated with the Central Instance through an
356 instance of CIM_ElementCapabilities.

357 7.5 DHCP client-server relationship

358 A DHCP client will receive its configuration from exactly one DHCP server. An instance of
359 CIM_RemoteAccessAvailableToElement shall associate each CIM_RemoteServiceAccessPoint instance
360 that represents a DHCP server to the CIM_DHCPProtocolEndpoint instance that represents the DHCP
361 client. Instrumentation of CIM_RemoteAccessAvailableToElement is conditional upon instrumentation of
362 CIM_RemoteServiceAccessPoint.

363 7.5.1 Identifying the DHCP server that provides configuration

364 When more than one instance of CIM_RemoteServiceAccessPoint is associated with the
365 CIM_DHCPProtocolEndpoint instance through an instance of CIM_RemoteAccessAvailableToElement,
366 the CIM_RemoteAccessAvailableToElement.OrderOfAccess property shall be implemented. For each
367 instance of CIM_RemoteAccessAvailableToElement that associates the CIM_DHCPProtocolEndpoint
368 instance with an instance of CIM_RemoteServiceAccessPoint that represents a DHCP server from which
369 the DHCP client did not receive the IP configuration, the OrderOfAccess property shall have the value 0
370 (zero). For the instance of CIM_RemoteAccessAvailableToElement that associates the
371 CIM_DHCPProtocolEndpoint instance with the instance of CIM_RemoteServiceAccessPoint that
372 represents the DHCP server from which the DHCP client received the IP configuration, the
373 OrderOfAccess property shall have the value 1.

374 When exactly one instance of CIM_RemoteServiceAccessPoint is associated with the instance of
375 CIM_DHCPProtocolEndpoint through an instance of CIM_RemoteAccessAvailableToElement, the
376 CIM_RemoteAccessAvailableToElement.OrderOfAccess property may be implemented. If the
377 CIM_RemoteAccessAvailableToElement.OrderOfAccess property is implemented, the property shall have
378 the value 1.

379 7.6 Alternate DHCP configuration

380 An implementation may support the management of alternate configurations for the associated IP
381 interface that uses DHCP. The representation of alternate configurations is described in general in the [IP](#)
382 [Interface Profile](#). The configuration of the DHCP client as part of an alternate configuration for the
383 associated IP interface is optional behavior that is defined in this clause.

384 When an alternate configuration for the associated IP interface includes the configuration of the DHCP
385 client, at least one instance of CIM_DHCPSettingData shall be associated with the
386 CIM_DHCPProtocolEndpoint instance through an instance of CIM_ElementSettingData. The
387 CIM_ElementSettingData instance is conditional on the existence of an instance of
388 CIM_DHCPSettingData.

389 7.6.1 Applying an alternate configuration

390 When an instance of CIM_DHCPSettingData is applied to the CIM_DHCPProtocolEndpoint instance, the
391 DHCP client shall transition to the INIT state and the value of the ClientState property of the

392 CIM_DHCPProtocolEndpoint instance shall be 2 (Init). The values specified in applicable properties of the
393 CIM_DHCPSettingData shall be used by the DHCP client during the binding acquisition process.

394 7.6.1.1 Successful application of settings

395 DHCP settings shall be considered to be successfully applied if the DHCP client transitions to a client
396 state of Bound and the ClientState property of the CIM_DHCPProtocolEndpoint has the value 8 (Bound).

397 8 Methods

398 This clause details the requirements for supporting intrinsic operations for the CIM elements defined by
399 this profile. No extrinsic methods are specified by this profile.

400 8.1 Profile conventions for operations

401 For each profile class (including associations), the implementation requirements for operations, including
402 those in the following default list, are specified in class-specific subclauses of this clause.

403 The default list of operations is as follows:

- 404 • GetInstance
- 405 • EnumerateInstances
- 406 • EnumerateInstanceNames
- 407 • Associators
- 408 • AssociatorNames
- 409 • References
- 410 • ReferenceNames

411 8.2 CIM_DHCPCapabilities

412 All operations in the default list in 8.1 shall be implemented as defined in [DSP0200](#).

413 NOTE Related profiles may define additional requirements on operations for the profile class.

414 8.3 CIM_DHCPProtocolEndpoint

415 Table 2 lists implementation requirements for operations. If implemented, these operations shall be
416 implemented as defined in [DSP0200](#). In addition, and unless otherwise stated in Table 2, all operations in
417 the default list in 8.1 shall be implemented as defined in [DSP0200](#).

418 NOTE Related profiles may define additional requirements on operations for the profile class.

419 **Table 2 – Operations: CIM_DHCPProtocolEndpoint**

Operation	Requirement	Messages
ModifyInstance	Optional. See 8.3.1.	None

420 8.3.1 CIM_DHCPProtocolEndpoint — ModifyInstance operation

421 This clause details the specific requirements for the ModifyInstance operation applied to an instance of
422 CIM_DHCPProtocolEndpoint.

423 **8.3.1.1 CIM_DHCPProtocolEndpoint.ElementName property**

424 When an instance of CIM_DHCPCapabilities is associated with the CIM_DHCPProtocolEndpoint instance
 425 and the CIM_DHCPCapabilities.ElementNameEditSupported property has a value of TRUE, the
 426 implementation shall allow the ModifyInstance operation to change the value of the ElementName
 427 property of the CIM_DHCPProtocolEndpoint instance. The ModifyInstance operation shall enforce the
 428 length restriction specified in the MaxElementNameLen property of the CIM_DHCPCapabilities instance.

429 When no instance of CIM_DHCPCapabilities is associated with the CIM_DHCPProtocolEndpoint
 430 instance, or the ElementNameEditSupported property of the CIM_DHCPCapabilities has a value of
 431 FALSE, the implementation shall not allow the ModifyInstance operation to change the value of the
 432 ElementName property of the CIM_DHCPProtocolEndpoint instance.

433 **8.4 CIM_DHCPSettingData**

434 All operations in the default list in 8.1 shall be implemented as defined in [DSP0200](#).

435 NOTE Related profiles may define additional requirements on operations for the profile class.

436 **8.5 CIM_ElementCapabilities**

437 Table 3 lists implementation requirements for operations. If implemented, these operations shall be
 438 implemented as defined in [DSP0200](#). In addition, and unless otherwise stated in Table 3, all operations in
 439 the default list in 8.1 shall be implemented as defined in [DSP0200](#).

440 NOTE Related profiles may define additional requirements on operations for the profile class.

441 **Table 3 – Operations: CIM_ElementCapabilities**

Operation	Requirement	Messages
Associators	Unspecified	None
AssociatorNames	Unspecified	None
References	Unspecified	None
ReferenceNames	Unspecified	None

442 **8.6 CIM_ElementSettingData**

443 Table 4 lists implementation requirements for operations. If implemented, these operations shall be
 444 implemented as defined in [DSP0200](#). In addition, and unless otherwise stated in Table 4, all operations in
 445 the default list in 8.1 shall be implemented as defined in [DSP0200](#).

446 NOTE Related profiles may define additional requirements on operations for the profile class.

447 **Table 4 – Operations: CIM_ElementSettingData**

Operation	Requirement	Messages
Associators	Unspecified	None
AssociatorNames	Unspecified	None
References	Unspecified	None
ReferenceNames	Unspecified	None

448 8.7 CIM_SAPSAPDependency

449 Table 5 lists implementation requirements for operations. If implemented, these operations shall be
 450 implemented as defined in [DSP0200](#). In addition, and unless otherwise stated in Table 5, all operations in
 451 the default list in 8.1 shall be implemented as defined in [DSP0200](#).

452 NOTE Related profiles may define additional requirements on operations for the profile class.

453 **Table 5 – Operations: CIM_SAPSAPDependency**

Operation	Requirement	Messages
Associators	Unspecified	None
AssociatorNames	Unspecified	None
References	Unspecified	None
ReferenceNames	Unspecified	None

454 8.8 CIM_HostedAccessPoint

455 Table 6 lists implementation requirements for operations. If implemented, these operations shall be
 456 implemented as defined in [DSP0200](#). In addition, and unless otherwise stated in Table 6, all operations in
 457 the default list in 8.1 shall be implemented as defined in [DSP0200](#).

458 NOTE Related profiles may define additional requirements on operations for the profile class.

459 **Table 6 – Operations: CIM_HostedAccessPoint**

Operation	Requirement	Messages
Associators	Unspecified	None
AssociatorNames	Unspecified	None
References	Unspecified	None
ReferenceNames	Unspecified	None

460 8.9 CIM_RemoteAccessAvailableToElement

461 Table 7 lists implementation requirements for operations. If implemented, these operations shall be
 462 implemented as defined in [DSP0200](#). In addition, and unless otherwise stated in Table 7, all operations in
 463 the default list in 8.1 shall be implemented as defined in [DSP0200](#).

464 NOTE Related profiles may define additional requirements on operations for the profile class.

465 **Table 7 – Operations: CIM_RemoteAccessAvailableToElement**

Operation	Requirement	Messages
Associators	Unspecified	None
AssociatorNames	Unspecified	None
References	Unspecified	None
ReferenceNames	Unspecified	None

466 8.10 CIM_RemoteServiceAccessPoint

467 All operations in the default list in 8.1 shall be implemented as defined in [DSP0200](#).

468 NOTE Related profiles may define additional requirements on operations for the profile class.

469 **9 Use cases**

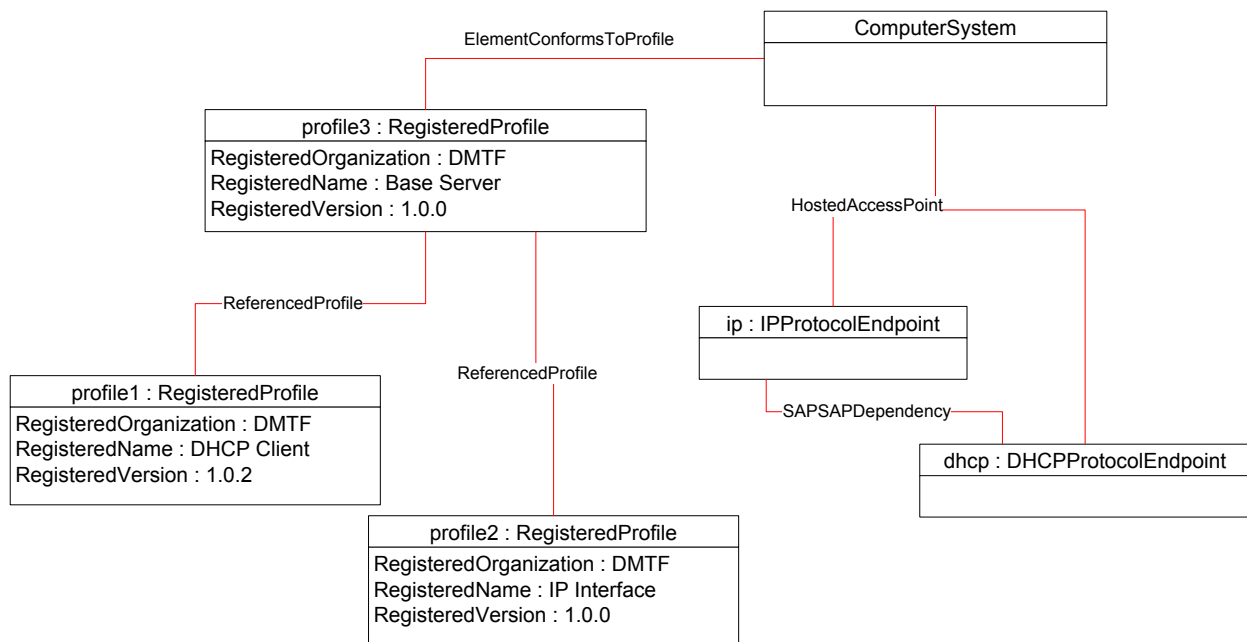
470 This clause contains object diagrams and use cases for the *DHCP Client Profile*.

471 **9.1 Object diagrams**

472 The object diagram in Figure 2 shows one method for advertising conformance with the *DHCP Client Profile*.
 473 The instance of CIM_RegisteredProfile is used to identify the version of the *DHCP Client Profile*
 474 with which an instance of CIM_DHCPProtocolEndpoint and its associated instances are conformant. An
 475 instance of CIM_RegisteredProfile exists for each profile instrumented in the system.

- 476 • profile3 identifies the DMTF [Base Server Profile](#) version 1.0.0.
- 477 • profile1 identifies the DMTF *DHCP Client Profile* version 1.0.2.
- 478 • profile2 identifies the DMTF [IP Interface Profile](#) version 1.0.0.

479 The [IP Interface Profile](#) is specified as mandatory to be implemented when this profile is implemented.
 480 The CIM_DHCPProtocolEndpoint instance is scoped to an instance of CIM_ComputerSystem. This
 481 instance of CIM_ComputerSystem is conformant with the DMTF [Base Server Profile](#) version 1.0.0 as
 482 indicated by the CIM_ElementConformsToProfile association with the CIM_RegisteredProfile instance.
 483 The CIM_ComputerSystem instance is the Scoping Instance for the CIM_DHCPProtocolEndpoint. By
 484 following the CIM_ReferencedProfile association, a client can determine that the
 485 CIM_DHCPProtocolEndpoint instance is conformant with the version of the *DHCP Client Profile* identified
 486 by profile1.

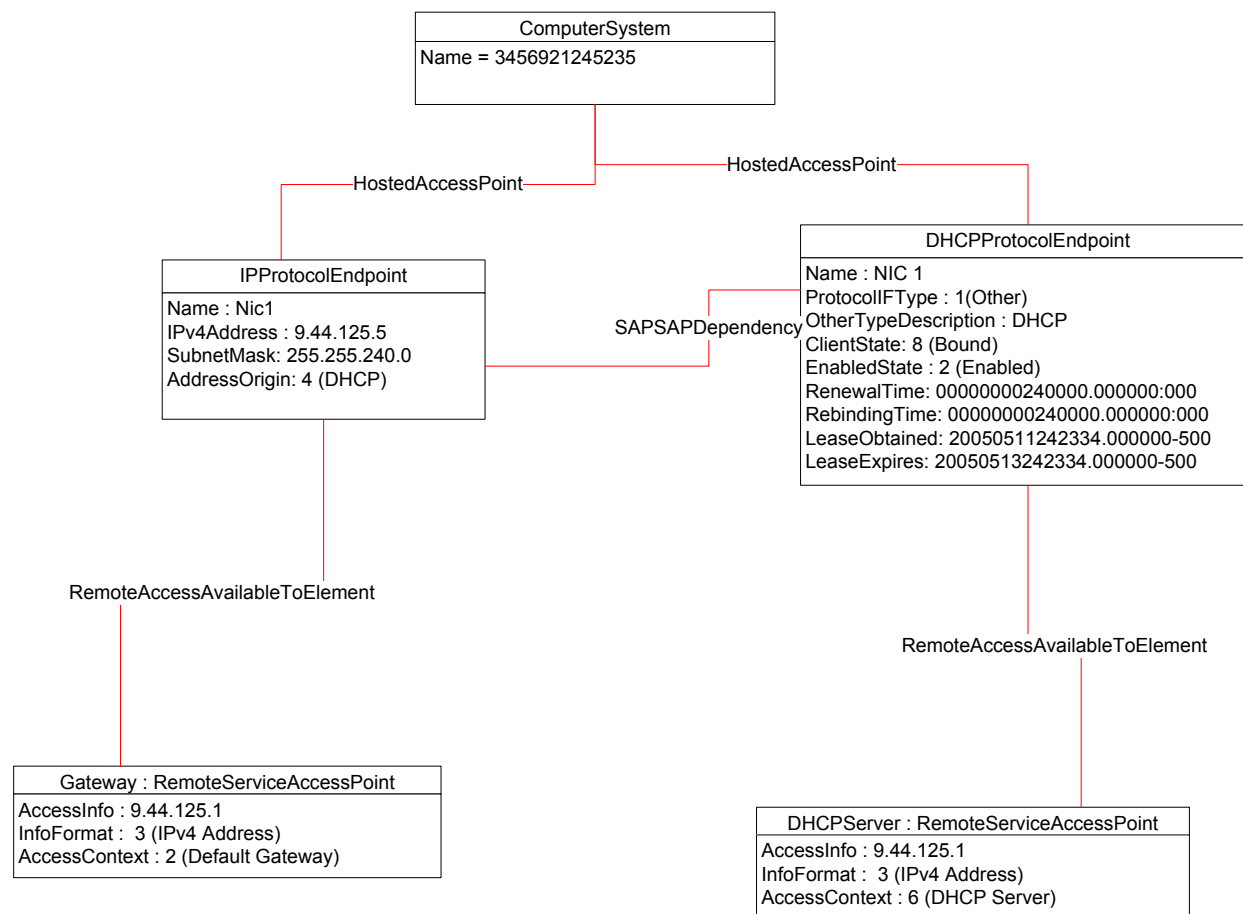


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Figure 2 – Registered profile

489 The object diagram in Figure 3 illustrates an implementation in which an IP interface was successfully
 490 configured through DHCP. The CIM_DHCPProtocolInstance.ClientState property has a value of "Bound"
 491 indicating that a configuration was successfully obtained. DHCPServer is the instance of
 492 CIM_RemoteServiceAccessPoint that represents the DHCP server contacted by the DHCP client. The
 493 value of the CIM_IPProtocolEndpoint.AddressOrigin property is "DHCP" indicating that the IP
 494 configuration was obtained through DHCP.

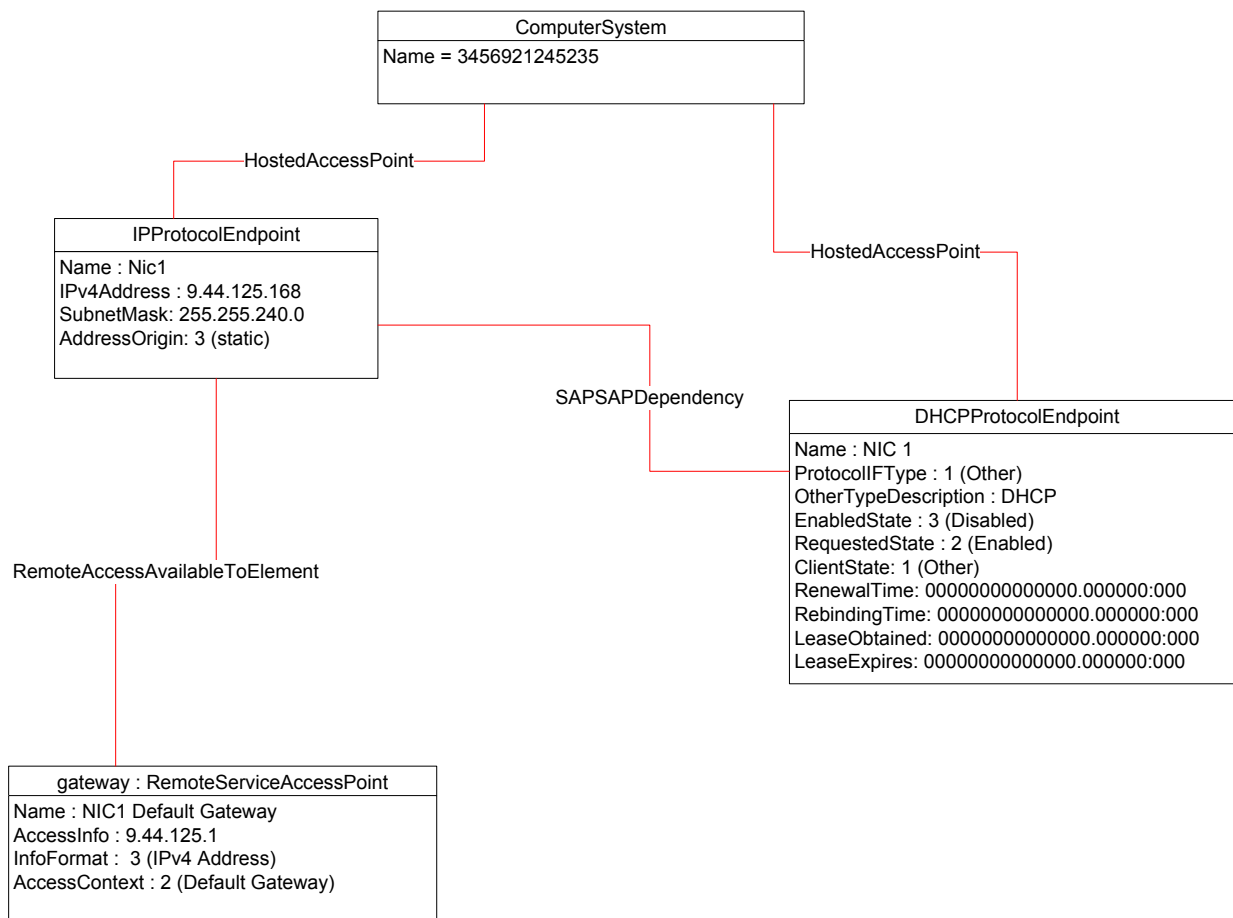


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Figure 3 – DHCP assigned IP configuration

497 The object diagram in Figure 4 illustrates an implementation similar to that of Figure 3, with the addition of
 498 the optional configuration management functionality of the *IP Interface Profile*. The
 499 CIM_DHCPProtocolEndpoint.ClientState property has a value of "Bound", indicating that a configuration
 500 was successfully obtained. DHCPServer is the instance of CIM_RemoteServiceAccessPoint that
 501 represents the DHCP server contacted by the DHCP client. The value of the
 502 CIM_IPProtocolEndpoint.AddressOrigin property is "DHCP", indicating that the IP configuration was
 503 obtained through DHCP. The IsCurrent property of the CIM_ElementSettingData instance that associates
 504 the CIM_StaticIPAssignmentSettingData instance with the CIM_IPProtocolEndpoint instance has a value
 505 of 2 (Is Not Current). This value indicates that the static configuration was not applied for the IP interface.
 506 The IsCurrent property of the instance of CIM_ElementSettingData that associates the
 507 CIM_DHCPSettingData instance with the CIM_DHCPProtocolEndpoint instance has a value of 1 (Is
 508 Current), indicating that the CIM_DHCPSettingData was applied.



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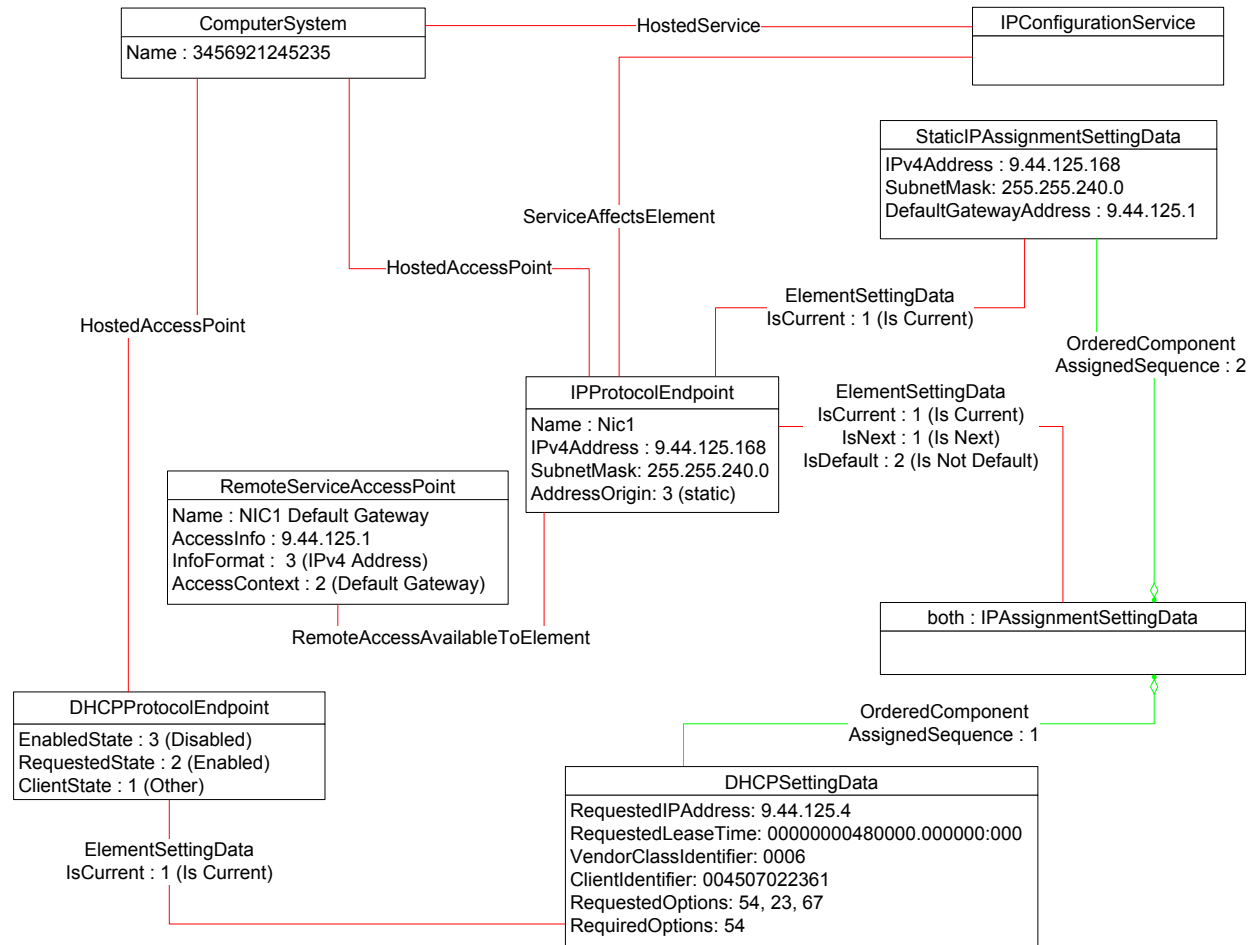
Figure 5 – DHCP Timeout to Static

525 The object diagram in Figure 6 provides an example of an IP interface that was configured to default to a
 526 statically assigned IP configuration if the DHCP client failed to obtain a configuration from a DHCP server.
 527 The instance of CIM_IPAssignmentSettingData associated with the CIM_IPProtocolEndpoint instance is
 528 for a configuration in which the CIM_DHCPSettingData is applied first, resulting in the DHCP client being
 529 enabled.

530 The DHCP client failed to acquire a configuration from the DHCP server. The EnabledState and
 531 ClientState properties of the CIM_DHCPProtocolEndpoint instance indicate that the DHCP client is now
 532 disabled. No instance of CIM_RemoteServiceAccessPoint is associated with the
 533 CIM_DHCPProtocolEndpoint because the DHCP client failed to communicate with a DHCP server.

534 The CIM_StaticIPAssignmentSettingData was then used to configure the IP interface, which is indicated
 535 by the IsCurrent property of the referencing instance of CIM_ElementSettingData having a value of 1 (Is
 536 Current).

537 The AddressOrigin property of the CIM_IPProtocolEndpoint instance reflects that the address was
 538 assigned statically.

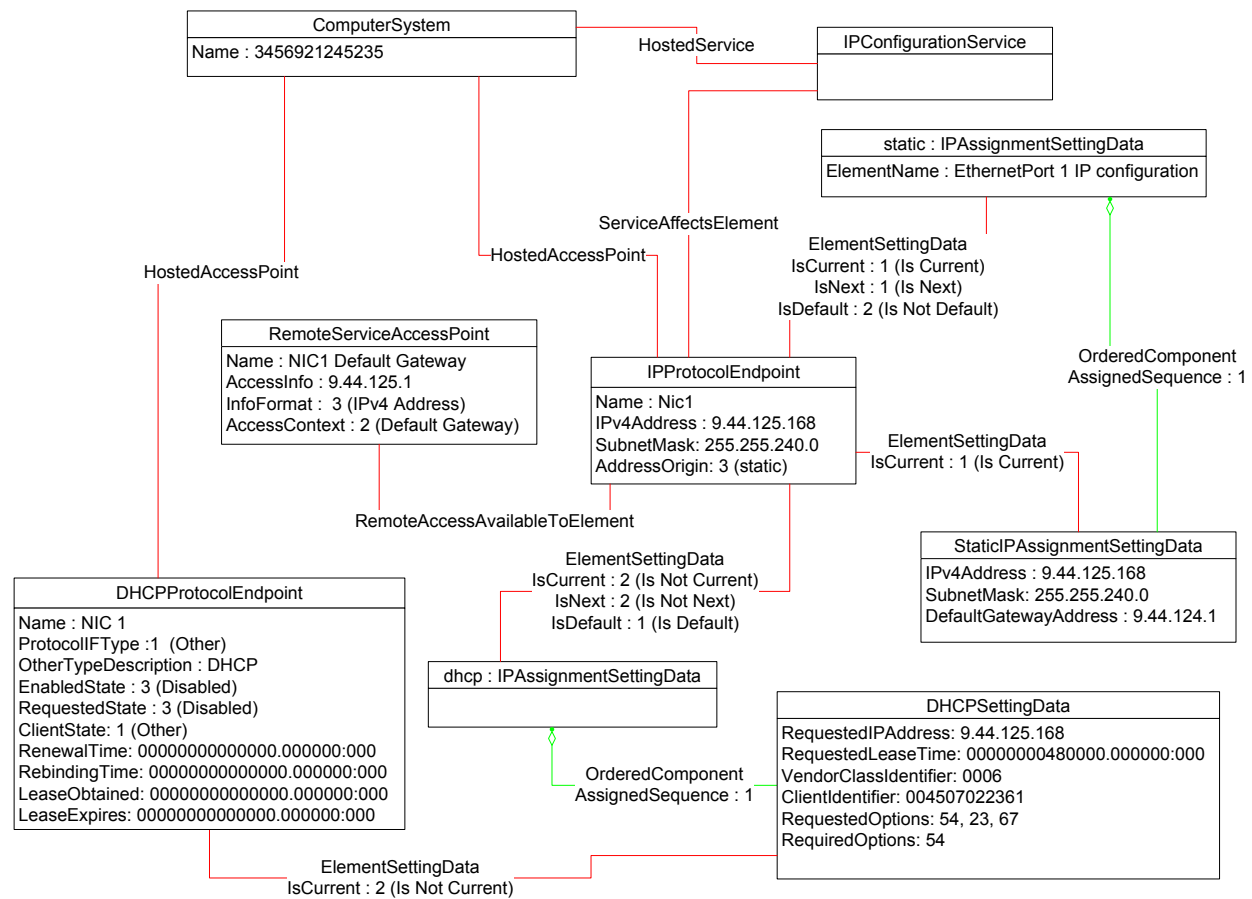


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Figure 6 – DHCP Timeout to Static with configuration management

541 The object diagram in Figure 7 illustrates an IP interface with two supported alternate configurations. Two
 542 discrete IP configuration options are available for the IP interface. Each option is represented by an
 543 instance of CIM_IPAssignmentSettingData. One configuration option represents the ability to statically
 544 assign the IP configuration. This option is indicated by the instance of CIM_OrderedComponent that
 545 associates the CIM_IPAssignmentSettingData instance with an instance of
 546 CIM_StaticIPAssignmentSettingData. The other configuration option represents the ability to obtain the
 547 configuration through a DHCP client. This option is indicated by the instance of CIM_OrderedComponent
 548 that associates the CIM_IPAssignmentSettingData instance with an instance of CIM_DHCPSettingData.



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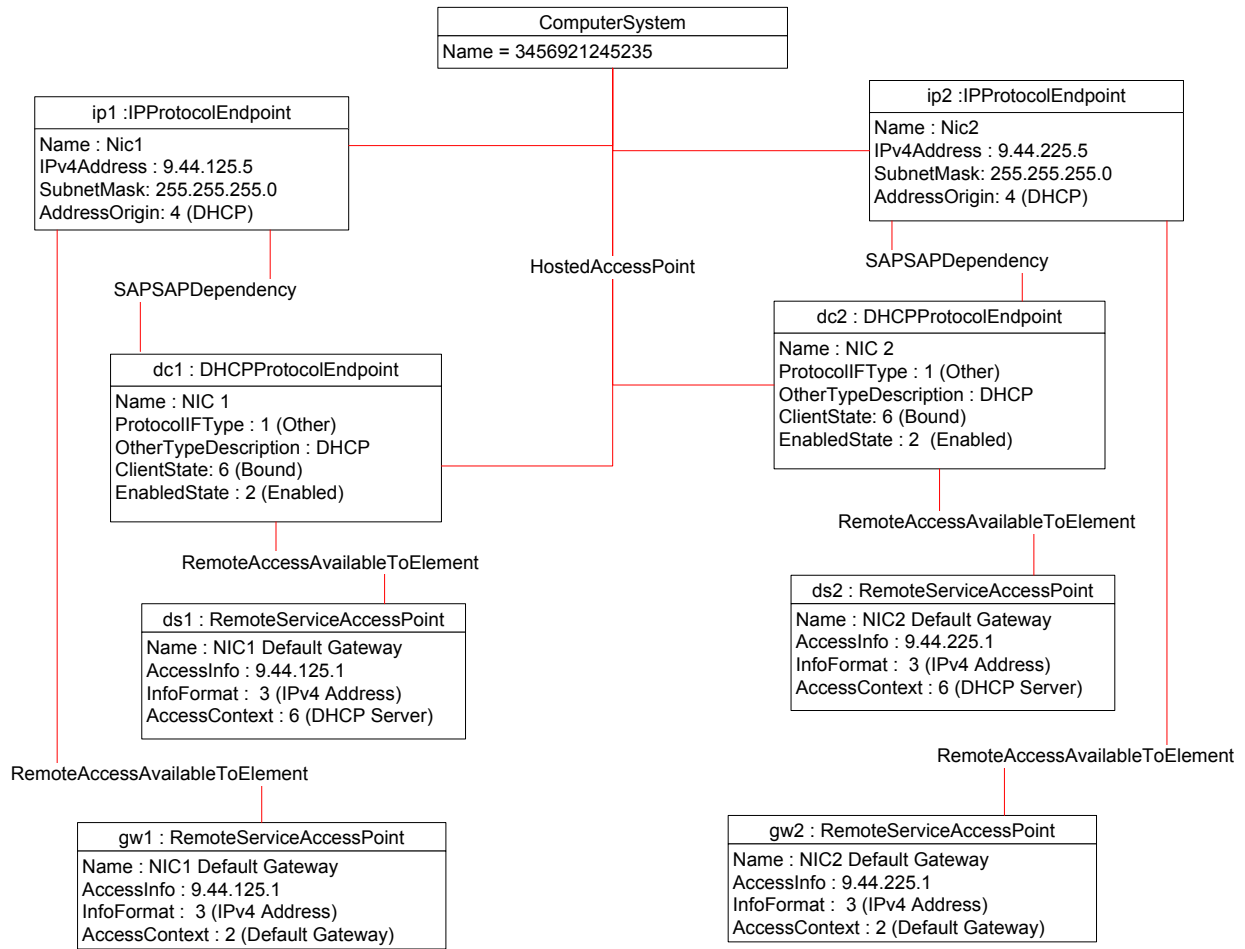
Figure 7 – Static or DHCP pending configurations

551 Each configuration option consists of a single instance of a subclass of CIM_IPAssignmentSettingData.
 552 Therefore, the value of the AssignedSequence property of the CIM_OrderedComponent instances is
 553 irrelevant.

554 The default configuration is to attempt to obtain a configuration through DHCP. This default is indicated
 555 by the IsDefault property having a value of 1 (Is Default) on the CIM_ElementSettingData instance that
 556 associates the CIM_IPAssignmentSettingData instance with the CIM_IPProtocolEndpoint instance.

557 However, the current configuration of the IP interface was statically assigned using the configuration
 558 identified by the CIM_IPAssignmentSettingData instance *static*. This configuration is indicated by the
 559 value of the CIM_ElementSettingData.IsCurrent property on the instance of CIM_ElementSettingData that
 560 associates the CIM_IPAssignmentSettingData instance *static* to the CIM_IPProtocolEndpoint instance
 561 and is also indicated by the value of the AddressOrigin property on the CIM_IPProtocolEndpoint instance.
 562 Note that configuration through DHCP was not used or even attempted; thus the
 563 CIM_DHCPProtocolEndpoint.RequestedState property has a value of 3 (Disabled).

564 Upon the next restart of the interface, the static configuration will be used again for the IP interface. This
 565 is indicated by the value of the CIM_ElementSettingData.IsNext property on the instance of
 566 CIM_ElementSettingData that associates the CIM_IPAssignmentSettingData instance *static* to the
 567 CIM_IPProtocolEndpoint instance. The object diagram in Figure 8 is for a dual NIC system in which the
 568 associated IP interfaces for both NICs have been configured through DHCP.

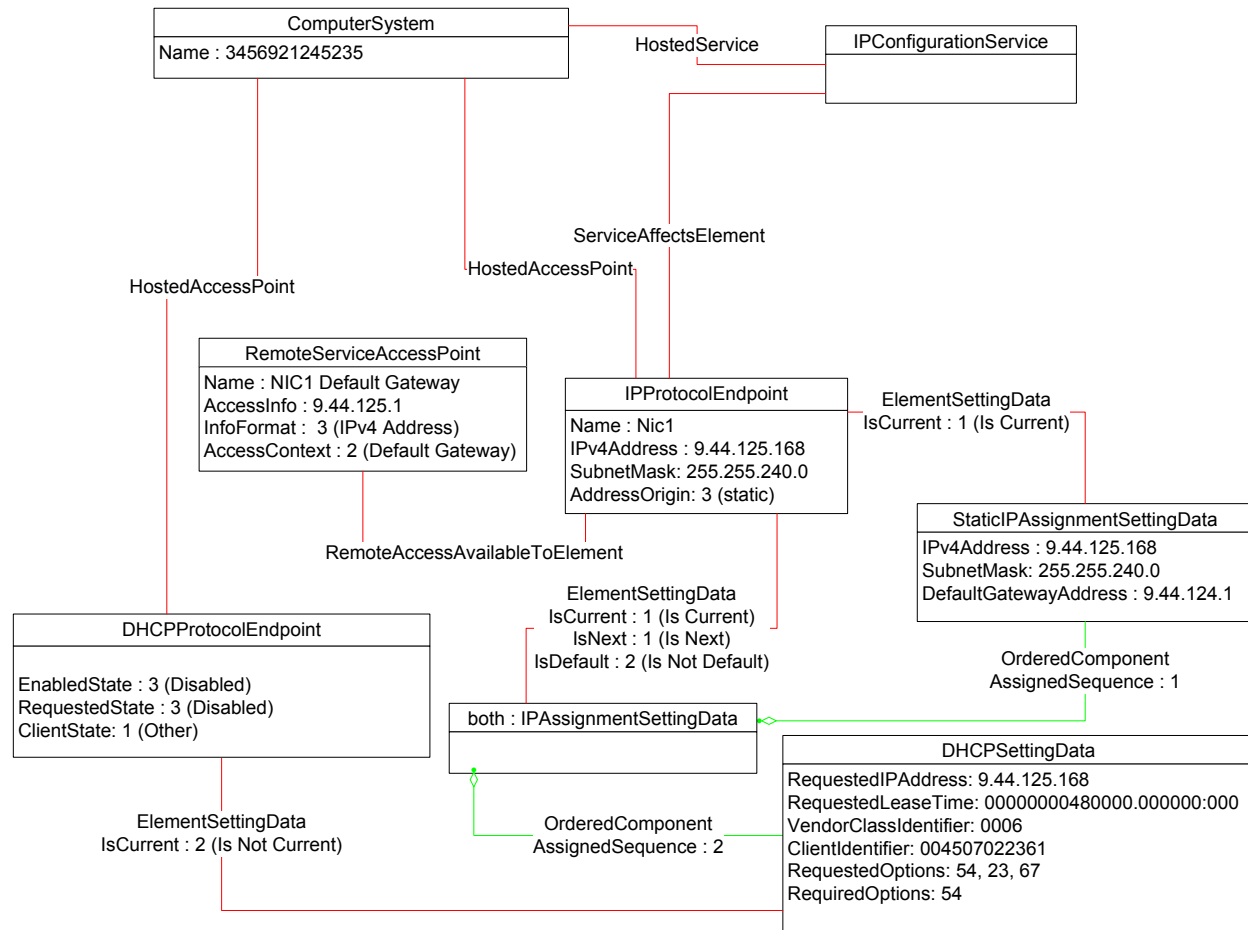


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Figure 8 – DHCP supported on Dual NIC system

571 The object diagram in Figure 9 illustrates an IP interface that supports an alternate configuration in which
 572 a static configuration will first be applied, and if the implementation determines it to be invalid, DHCP will
 573 be used. This configuration is indicated by the relative values of the AssignedSequence property on the
 574 instances of CIM_OrderedComponent that associate the CIM_DHCPSettingData and
 575 CIM_StaticIPAssignmentSettingData instances with the CIM_IPAssignmentSettingData instance.



576

577

Figure 9 – Static then DHCP

578 9.2 Determine which DHCP options are supported

579 A client can determine the DHCP options that are supported by a DHCP client as follows:

- 580 1) Find the instance of CIM_DHCPCapabilities that is associated with the Central Instance.
- 581 2) Query the OptionsSupported property.

582 9.3 Determine if IP configuration originated through DHCP

583 A client can determine if the configuration for an IP interface was assigned through DHCP as follows:

- 584 1) Find the instance of CIM_IPProtocolEndpoint that is associated with the
 585 CIM_DHCPProtocolEndpoint instance through an instance of CIM_SAPSDependency.
- 586 2) Query the CIM_IPProtocolEndpoint.AddressOrigin property. If the value is 4 (DHCP), the
 587 configuration was assigned through DHCP.

588 9.4 View the DHCP server IP address

589 A client can view information about the DHCP server that granted the lease to the DHCP client as follows:

- 590 1) Find all instances of CIM_RemoteAccessAvailableToElement that associate an instance of
591 CIM_RemoteServiceAccessPoint with the CIM_DHCPProtocolEndpoint instance.
 - 592 • If more than one instance exists, find the instance of
593 CIM_RemoteAccessAvailableToElement in which the OrderOfAccess property has the
594 value 1. Find the referenced CIM_RemoteServiceAccessPoint instance.
 - 595 • If exactly one instance exists, find the referenced CIM_RemoteServiceAccessPoint
596 instance.
 - 597 • If no instances exist, no DHCP server is currently modeled for the DHCP client.
- 598 2) View the AccessInfo property of the CIM_RemoteServiceAccessPoint instance.

599 9.5 Determine whether alternate DHCP configuration is supported

600 A client can determine whether an implementation supports an alternate configuration that uses DHCP to
601 acquire its configuration as follows:

- 602 1) Find the CIM_IPProtocolEndpoint instance with which the CIM_DHCPProtocolEndpoint
603 instance is associated through an instance of CIM_SAPSAPDependency.
- 604 2) Find all instances of CIM_IPAssignmentSettingData (the parent class and not subclasses) that
605 are associated with the CIM_IPProtocolEndpoint instance.
- 606 3) For each instance of CIM_IPAssignmentSettingData, look for at least one instance of
607 CIM_DHCPSettingData that is associated through an instance of CIM_OrderedComponent.

608 If at least one instance of CIM_IPAssignmentSettingData is found that satisfies the preceding constraints,
609 the implementation supports a configuration that uses DHCP to acquire a configuration.

610 9.6 Determine whether DHCP then Static is supported

611 An implementation can support attempting to acquire its IP configuration through a DHCP client and
612 defaulting to a static configuration if the client fails to acquire a configuration from a DHCP server. A client
613 can determine whether this functionality is supported as follows:

- 614 1) Find the CIM_IPProtocolEndpoint instance with which the CIM_DHCPProtocolEndpoint
615 instance is associated through an instance of CIM_SAPSAPDependency.
- 616 2) Find all instances of CIM_IPAssignmentSettingData (the parent class and not subclasses) that
617 are associated with the CIM_IPProtocolEndpoint instance.
- 618 3) For each instance of CIM_IPAssignmentSettingData:
 - 619 a) Find all instances of CIM_DHCPSettingData that are associated through an instance of
620 CIM_OrderedComponent.
 - 621 b) Find all instances of CIM_StaticIPAssignmentSettingData that are associated through an
622 instance of CIM_OrderedComponent.
 - 623 c) Determine if an instance of CIM_DHCPSettingData exists such that the value of the
624 AssignedSequence property of the CIM_OrderedComponent instance that associates the
625 instance of CIM_DHCPSettingData with the instance of CIM_IPAssignmentSettingData is
626 less than the value of the AssignedSequence property of an instance of
627 CIM_OrderedComponent that associates the CIM_StaticIPAssignmentSettingData
628 instance with the instance of CIM_IPAssignmentSettingData.
- 629 4) If such an instance of CIM_DHCPSettingData is found, DHCP then Static is supported.

630 9.7 Select DHCP options for DHCP pending configuration

631 When the implementation supports pending configuration management, a client can configure the DHCP
632 options that will be used by the DHCP client when the pending configuration is applied as follows:

- 633 1) Determine the supported DHCP options as specified in 9.2.
- 634 2) Find the instance of CIM_DHCPSettingData that is associated with the
635 CIM_DHCPProtocolEndpoint instance through an instance of CIM_ElementSettingData.
- 636 3) If an option is required, assign the value to the RequiredOptions property.
- 637 4) If an option is desired but not required, assign the value to the RequestedOptions property.

638 9.8 Determine whether ElementName can be modified

639 A client can determine whether it can modify the ElementName property of an instance of
640 CIM_DHCPProtocolEndpoint as follows:

- 641 1) Find the CIM_DHPCCapabilities instance that is associated with the
642 CIM_DHCPProtocolEndpoint instance.
- 643 2) Query the value of the ElementNameEditSupported property of the CIM_DHPCCapabilities
644 instance. If the value is TRUE, the client can modify the ElementName property of the target
645 instance.

646 10 CIM Elements

647 Table 8 shows the instances of CIM Elements for this profile. Instances of the CIM Elements shall be
648 implemented as described in Table 8. Clauses 7 (“Implementation”) and 8 (“Methods”) may impose
649 additional requirements on these elements.

650 **Table 8 – CIM Elements: DHCP client profile**

Element Name	Requirement	Description
Classes		
CIM_DHPCCapabilities	Mandatory	See 7.4 and 10.1.
CIM_DHCPProtocolEndpoint	Mandatory	See 7.2, 7.3, and 10.2.
CIM_DHCPSettingData	Optional	See 7.6 and 10.3.
CIM_ElementCapabilities	Mandatory	See 10.4.
CIM_ElementSettingData	Conditional	See 7.6 and 10.5.
CIM_SAPSAPDependency	Mandatory	See 7.2 and 10.6.
CIM_HostedAccessPoint	Mandatory	See 10.7.
CIM_RemoteAccessAvailableToElement	Conditional	See 7.5 and 10.8.
CIM_RemoteServiceAccessPoint	Optional	See 7.1 and 10.9.
CIM_RegisteredProfile	Optional	See 10.10.
Indications		
None defined in this profile		

651 **10.1 CIM_DHCPCapabilities**

652 CIM_DHCPCapabilities represents the capabilities of a DHCP client. Table 9 contains the requirements
 653 for elements of this class.

654 **Table 9 – Class: CIM_DHCPCapabilities**

Elements	Requirement	Description
InstanceID	Mandatory	Key
ElementName	Mandatory	Pattern ".*"
ElementNameEditSupported	Mandatory	See 7.3.4.1 and 7.3.5.1.
MaxElementNameLen	Conditional	See 7.3.4.1 and 7.3.5.1.
OptionsSupported	Mandatory	None
IPv6OptionsSupported	Optional	None

655 **10.2 CIM_DHCPProtocolEndpoint**

656 CIM_DHCPProtocolEndpoint represents the DHCP client that is associated with an IP interface. Table 10
 657 contains the requirements for elements of this class.

658 **Table 10 – Class: CIM_DHCPProtocolEndpoint**

Elements	Requirement	Description
SystemCreationClassName	Mandatory	Key
CreationClassName	Mandatory	Key
SystemName	Mandatory	Key
Name	Mandatory	Key
NameFormat	Mandatory	Pattern ".*"
ProtocolIFType	Mandatory	This property shall have a value of 1 (Other).
OtherTypeDescription	Mandatory	This property shall have a value of "DHCP".
RequestedState	Mandatory	See 7.3.1.
EnabledState	Mandatory	See 7.3.2.
ClientState	Mandatory	See 7.2.
ElementName	Mandatory	Pattern ".*"

659 **10.3 CIM_DHCPSettingData**

660 CIM_DHCPSettingData indicates that the IP configuration should be obtained through the DHCP client if
 661 possible. Table 11 contains the requirements for elements of this class.

662 **Table 11 – Class: CIM_DHCPSettingData**

Elements	Requirement	Description
InstanceID	Mandatory	Key
AddressOrigin	Mandatory	Matches 4 ("DHCP")
ElementName	Mandatory	Pattern ".*"

663 **10.4 CIM_ElementCapabilities**

664 CIM_ElementCapabilities associates an instance of CIM_DHCPCapabilities with the
 665 CIM_DHCPProtocolEndpoint instance. Table 12 contains the requirements for elements of this class.

666 **Table 12 – Class: CIM_ElementCapabilities**

Elements	Requirement	Description
ManagedElement	Mandatory	This property shall be a reference to the Central Instance. Cardinality 1..*
Capabilities	Mandatory	This property shall be a reference to an instance of CIM_DHCPCapabilities. Cardinality 1

667 **10.5 CIM_ElementSettingData**

668 CIM_ElementSettingData associates instances of CIM_DHCPSettingData with the
 669 CIM_DHCPProtocolEndpoint instance for which they provide configuration. Table 13 contains the
 670 requirements for elements of this class.

671 **Table 13 – Class: CIM_ElementSettingData**

Elements	Requirement	Description
ManagedElement	Mandatory	This property shall be a reference to the Central Instance. Cardinality 1..*
SettingData	Mandatory	This property shall be a reference to an instance of CIM_DHCPSettingData. Cardinality *
IsCurrent	Mandatory	Matches 1 (Is Current) or 2 (Is Not Current)

672 **10.6 CIM_SAPSAPDependency**

673 CIM_SAPSAPDependency relates the CIM_DHCPProtocolEndpoint instance with the
 674 CIM_IPProtocolEndpoint instance. Table 14 contains the requirements for elements of this class.

675 **Table 14 – Class: CIM_SAPSAPDependency**

Elements	Requirement	Description
Antecedent	Mandatory	See 7.2.1.2. Cardinality 1
Dependent	Mandatory	See 7.2.1.1. Cardinality 1

676 **10.7 CIM_HostedAccessPoint**

677 CIM_HostedAccessPoint relates the CIM_DHCPProtocolEndpoint instance to the scoping
 678 CIM_ComputerSystem instance. Table 15 contains the requirements for elements of this class.

679 **Table 15 – Class: CIM_HostedAccessPoint**

Elements	Requirement	Description
Antecedent	Mandatory	The value shall be a reference to the Scoping Instance. Cardinality 1
Dependent	Mandatory	The value shall be a reference to the Central Instance. Cardinality 1..*

680 **10.8 CIM_RemoteAccessAvailableToElement**

681 CIM_RemoteAccessAvailableToElement represents the relationship between a DHCP client and a DHCP
 682 server. This class associates an instance of CIM_DHCPProtocolEndpoint with an instance of
 683 CIM_RemoteServiceAccessPoint. Table 16 contains the requirements for elements of this class.

684 **Table 16 – Class: CIM_RemoteAccessAvailableToElement**

Elements	Requirement	Description
Antecedent	Mandatory	This property shall be a reference to an instance of CIM_RemoteServiceAccessPoint. Cardinality *
Dependent	Mandatory	This property shall be a reference to the Central Instance. Cardinality 1..*
OrderOfAccess	Optional	See 7.5.1.

685 **10.9 CIM_RemoteServiceAccessPoint**

686 CIM_RemoteServiceAccessPoint represents the managed system's view of the DHCP server. Table 17
 687 contains the requirements for elements of this class.

688 **Table 17 – Class: CIM_RemoteServiceAccessPoint**

Elements	Requirement	Description
SystemCreationClassName	Mandatory	Key
CreationClassName	Mandatory	Key
SystemName	Mandatory	Key
Name	Mandatory	Key
AccessContext	Mandatory	Matches 7 (DHCP Server)
AccessInfo	Mandatory	See 7.1.1.
InfoFormat	Mandatory	See 7.1.2.
ElementName	Mandatory	Pattern ".*"

689 **10.10 CIM_RegisteredProfile**

690 CIM_RegisteredProfile identifies the *DHCP Client Profile* in order for a client to determine whether an
 691 instance of CIM_IPProtocolEndpoint is conformant with this profile. The CIM_RegisteredProfile class is

692 defined by the [Profile Registration Profile](#). With the exception of the mandatory values specified for the
693 properties in Table 18, the behavior of the CIM_RegisteredProfile instance is in accordance with the
694 [Profile Registration Profile](#).

695

Table 18 – Class: CIM_RegisteredProfile

Elements	Requirement	Description
RegisteredName	Mandatory	This property shall have a value of "DHCP Client".
RegisteredVersion	Mandatory	This property shall have a value of "1.0.3".
RegisteredOrganization	Mandatory	This property shall have a value of "DMTF".

696 NOTE Previous versions of this document included the suffix "Profile" for the RegisteredName value. If
697 implementations querying for the RegisteredName value find the suffix "Profile", they should ignore the suffix, with
698 any surrounding white spaces, before any comparison is done with the value as specified in this document.

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**ANNEX A
(informative)**

Change log

Version	Date	Description
1.0.0a	2006-06-12	Preliminary Release
1.0.0	2008-08-10	Final Release
1.0.1	2009-09-26	Errata Release
1.0.2	2010-09-15	Version 1.0.1 of the Final Standard formatted for DMTF Standard release
1.0.3	2012-02-23	Errata 1.0.3 Clause 9 - Correction in association for CIM_RemoteServiceAccessPoint. Clause 10 – Removed duplicate entry for CIM_RemoteServiceAccessPoint.InfoFormat.

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