

# Active Directory<sup>®</sup>

## Client Profile

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## Foreword

The Active Directory® Client Profile (DCIM1007) was prepared by the Dell CIM Review Board.

## Introduction

This specification identifies the necessary classes, properties, methods, and values to be instantiated and manipulated to represent and manage an Active Directory client modeled using the DMTF Common Information Model (CIM) core and extended model definitions.

This document is intended for implementers who write CIM-based providers or consumers of management interfaces representing the component described herein.

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# Active Directory® Client Profile

## 1 Scope

The Active Directory® Client Profile extends the management capabilities of referencing profiles by adding the capability to represent the configuration of Active Directory client service and the groups managed by the service. The Active Directory client service and groups are modeled as referencing the security principals and profile versioning for the schema implementation version information.

## 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 DSP1033, *Profile Registration Profile 1.0.0*
- DMTF DSP0200, *CIM Operations over HTTP 1.2.0*
- DMTF DSP0004, *CIM Infrastructure Specification 2.3.0*
- DMTF DSP1000, *Management Profile Specification Template*
- DMTF DSP1001, *Management Profile Specification Usage Guide*

### 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>
- Unified Modeling Language (UML) from the Open Management Group (OMG), <http://www.uml.org>
- SM Managed Element Addressing Specification (SM ME Addressing) DSP0215, <http://www.dmtf.org/standards/mgmt/smash/>

## 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

- 35 **3.4**  
36 **mandatory**  
37 indicates requirements to be followed strictly in order to conform to the document and from which no  
38 deviation is permitted
- 39 **3.5**  
40 **may**  
41 indicates a course of action permissible within the limits of the document
- 42 **3.6**  
43 **need not**  
44 indicates a course of action permissible within the limits of the document
- 45 **3.7**  
46 **optional**  
47 indicates a course of action permissible within the limits of the document
- 48 **3.8**  
49 **referencing profile**  
50 indicates a profile that owns the definition of this class and can include a reference to this profile in its  
51 "Related Profiles" table
- 52 **3.9**  
53 **shall**  
54 indicates requirements to be followed strictly in order to conform to the document and from which no  
55 deviation is permitted
- 56 **3.10**  
57 **shall not**  
58 indicates requirements to be followed strictly in order to conform to the document and from which no  
59 deviation is permitted
- 60 **3.11**  
61 **should**  
62 indicates that among several possibilities, one is recommended as particularly suitable, without  
63 mentioning or excluding others, or that a certain course of action is preferred but not necessarily required
- 64 **3.12**  
65 **should not**  
66 indicates that a certain possibility or course of action is deprecated but not prohibited

## 67 **4 Symbols and Abbreviated Terms**

- 68 **4.1**  
69 **CIM**  
70 Common Information Model

## 71 **5 Synopsis**

- 72 **Profile Name:** Active Directory Client  
73 **Version:** 1.0.0



- 74 **Organization:** Dell  
 75 **CIM Schema Version:** 2.15.0  
 76 **Central Class:** Dell\_OEMActiveDirectoryService  
 77 **Scoping Class:** CIM\_ComputerSystem

78 The Active Directory® Client Profile extends the management capability of the referencing profiles by  
 79 adding the capability to describe the Active Directory client configuration. Dell\_OEMActiveDirectory shall  
 80 be the Central Class. CIM\_ComputerSystem shall be the Scoping Class. Instance(s) of  
 81 Dell\_OEMActiveDirectoryService shall be the Central Instance(s). The CIM\_ComputerSystem instance  
 82 with which the Central Instance is associated through the CIM\_HostedService association shall be the  
 83 Scoping Instance.

84 Table 1 identifies profiles that are related to this profile.

85 **Table 1 – Related Profiles**

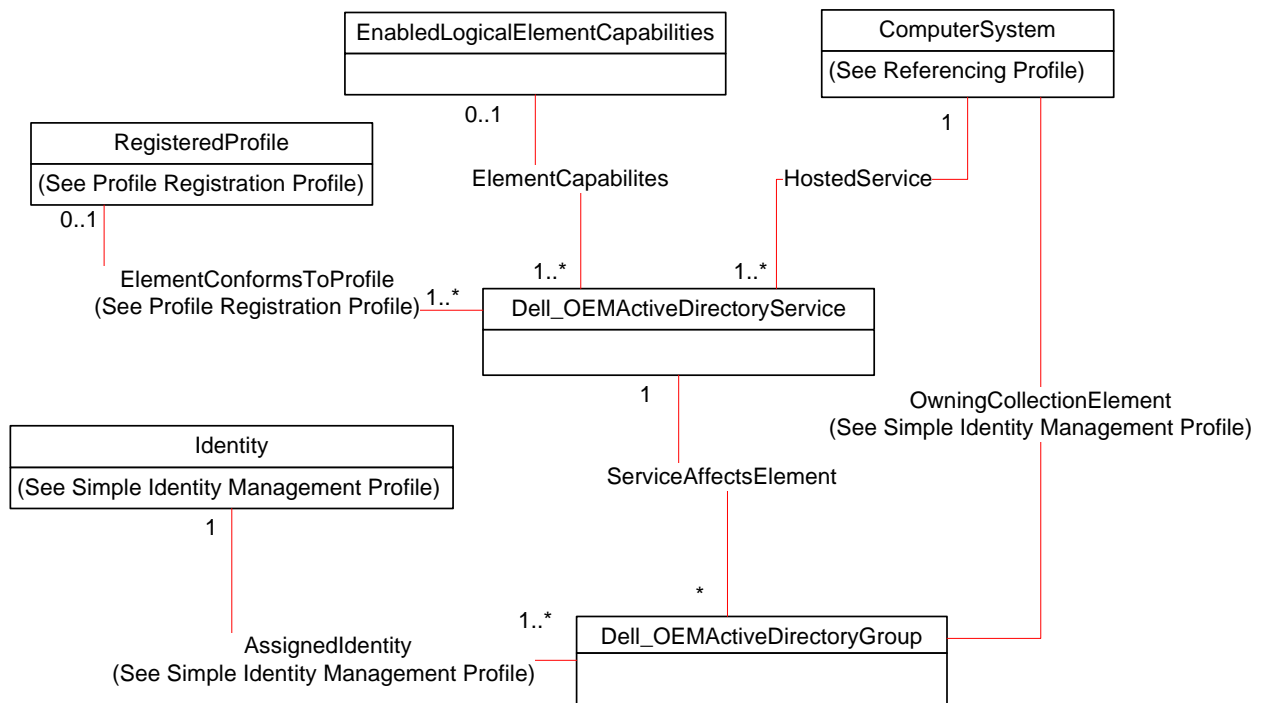
Profile Name	Organization	Version	Relationship
Profile Registration Profile	DMTF	1.0	Mandatory
Simple Identity Management Profile	DMTF	1.0	Conditional. See Section 7.2.2

## 86 **6 Description**

87 The Active Directory® Client Profile describes the Active Directory client configuration service and groups  
 88 that the service manages. The profile also describes the relationship of the Active Directory groups to the  
 89 security principal and DMTF/Dell profile version information.

90 Figure 1 represents the class schema for the Active Directory® Client Profile. For simplicity, the prefix  
 91 CIM\_ has been removed from the names of the classes.

92



93

94

**Figure 1 – Active Directory® Client Profile: Class Diagram**

95 The Active Directory client service in a managed system is represented by the  
 96 Dell\_OEMActiveDirectoryService instance class. The capability to disable and enable the Active Directory  
 97 client is advertised through the CIM\_EnabledLogicalElementCapabilities instance. The Active Directory  
 98 groups are represented by the Dell\_OEMActiveDirectoryGroup class.

99 The security principal of the Active Directory group associated with the Dell\_OEMActiveDirectoryGroup by  
 100 CIM\_AssignedIdentity is represented by CIM\_Identity.

101 Profile information is represented with the CIM\_RegisteredProfile instance.

## 102 6.1 Active Directory Schemas

103 Active Directory authentication can be configured using two different schemas. Depending on which type  
 104 of schema is used for authentication, the configuration requirements of the classes, properties and  
 105 methods in the profile may change. The Dell\_OEMActiveDirectoryService.SchemaType property  
 106 represents the current type of schema used by the Active Directory.

### 107 6.1.1 Extended Schema

108 When the Active Directory extended schema is used, the role and privilege objects reside on the Active  
 109 Directory. Authorization occurs on the Active Directory and not on the Active Directory client-managed  
 110 system. The configuration of the Active Directory client involves providing information about the managed  
 111 system's object name and domain within the Active Directory.

### 112 6.1.2 Standard Schema

113 When the Active Directory standard schema is used, the role and privilege objects reside on the managed  
 114 system, Authorization occurs on the managed system and not on the Active Directory server. Active

115 Directory groups are represented by the Dell\_OEMActiveDirectoryGroup, and the associated security  
116 principal is represented by CIM\_Identity.

## 117 **7 Implementation Requirements**

118 Requirements and guidelines for propagating and formulating certain properties of the classes are  
119 discussed in this section. Methods are listed in section 8 and properties are listed in section 10.

### 120 **7.1 Dell\_OEMActiveDirectoryService**

121 At least one Dell\_OEMActiveDirectoryService instance shall be instantiated.

### 122 **7.2 Extended and Standard Schema Support**

123 The following section includes requirements for Active Directory client support extended and standard  
124 schemas. The Dell\_OEMActiveDirectoryService.SchemaType property shall indicate the current  
125 authentication schema used by the Active Directory client.

#### 126 **7.2.1 Extended Schema**

127 If the extended schema is used for Active Directory authentication, the  
128 Dell\_OEMActiveDirectoryService.SchemaType property shall be set to 1 (Extended). If this property is set  
129 to 1(Extended), the requirements included in this section shall apply.

130 The Dell\_OEMActiveDirectoryService.DeviceObjectDomain and  
131 Dell\_OEMActiveDirectoryService.DeviceObjectName properties shall be mandatory.

#### 132 **7.2.2 Standard Schema**

133 If the standard schema is used for Active Directory authentication, the  
134 Dell\_OEMActiveDirectoryService.SchemaType property shall be set to 2 (Standard). If this property is set  
135 to 2 (Standard), the requirements detailed in this section shall apply.

136 The Simple Identity Management Profile shall be implemented where the requirements for CIM\_Group  
137 class shall be applied to the Dell\_OEMActiveDirectoryGroup class derived from the CIM\_Group class.

138 There shall be at least one Dell\_OEMActiveDirectoryGroup instance. The Dell\_OEMActiveDirectoryGroup  
139 instance(s) shall be associated with the CIM\_Identity instance through CIM\_AssignedIdentity association.

140 Instance(s) of Dell\_OEMActiveDirectoryGroup shall be associated with the Scoping Instance through  
141 CIM\_OwningCollectionElement.

### 142 **7.3 CIM\_EnabledLogicalElementCapabilities**

143 When the CIM\_EnabledLogicalElementCapabilities class is instantiated, the  
144 CIM\_EnabledLogicalElementCapabilities instance shall be associated with the  
145 Dell\_OEMActiveDirectoryService instance through an CIM\_ElementCapabilities instance and used for  
146 advertising the capabilities of the Dell\_OEMActiveDirectoryService instance.

147 There shall be at most one CIM\_EnabledLogicalElementCapabilities instance associated with a given  
148 Dell\_OEMActiveDirectoryService instance.

#### 149 **7.3.1 CIM\_EnabledLogicalElementCapabilities.RequestedStatesSupported**

150 CIM\_EnabledLogicalElementCapabilities.RequestedStatesSupported is an array that contains the  
151 supported requested states for the Dell\_OEMActiveDirectoryService instance. This property shall be the  
152 superset of the values of the RequestedState parameter in the RequestStateChange() method (see

153 section 8.1). The value of the CIM\_EnabledLogicalElementCapabilities.RequestedStatesSupported  
154 property shall be either an empty array or contain any combination of the following values: 2 (Enabled), 3  
155 (Disabled), 6 (Offline), or 11 (Reset).

### 156 **7.3.2 CIM\_EnabledLogicalElementCapabilities.ElementNameEditSupported**

157 This property shall have a value of TRUE when the implementation supports client modification of the  
158 Dell\_OEMActiveDirectoryService.ElementName property.

### 159 **7.3.3 CIM\_EnabledLogicalElementCapabilities.MaxElementNameLen**

160 The MaxElementNameLen property shall be implemented when the ElementNameEditSupported  
161 property has a value of TRUE.

## 162 **7.4 Active Directory Client State Management (Optional)**

163 Active Directory client state management consists of the  
164 Dell\_OEMActiveDirectoryService.RequestStateChange() method being supported (see section 8.1) and  
165 the value of Dell\_OEMActiveDirectoryService.RequestedState not matching 12 (Not Applicable).

### 166 **7.4.1 Active Directory Client State Management Support**

167 When no CIM\_EnabledLogicalElementCapabilities instance is associated with the  
168 Dell\_OEMActiveDirectoryService instance, Active Directory client state management shall not be  
169 supported.

170 When a CIM\_EnabledLogicalElementCapabilities instance is associated with the  
171 Dell\_OEMActiveDirectoryService instance and the value of the  
172 CIM\_EnabledLogicalElementCapabilities.RequestedStatesSupported property is an empty array, Active  
173 Directory client state management shall not be supported.

174 When a CIM\_EnabledLogicalElementCapabilities instance is associated with the  
175 Dell\_OEMActiveDirectoryService instance and the value of the  
176 CIM\_EnabledLogicalElementCapabilities.RequestedStatesSupported property is not an empty array,  
177 Active Directory client state management shall be supported.

## 178 **7.5 Dell\_OEMActiveDirectoryService.RequestedState**

179 The Dell\_OEMActiveDirectoryService.RequestedState property shall have a value of 12 (Not Applicable),  
180 5 (No Change), or a value contained in the  
181 CIM\_EnabledLogicalElementCapabilities.RequestedStatesSupported property array of the associated  
182 CIM\_EnabledLogicalElementCapabilities instance (see section 7.3.1).

183 When Active Directory client state management is supported and the RequestStateChange() method is  
184 successfully executed, the RequestedState property shall be set to the value of the parameter  
185 RequestedState of the RequestStateChange() method. After the RequestStateChange() method is  
186 successfully executed, RequestedState and EnabledState shall have equal values, except for the  
187 transitional requested state 11 (Reset). The value of the RequestedState property may change due to a  
188 request for change to the Active Directory client enabled state by non-CIM implementation.

### 189 **7.5.1 RequestedState – 12 (Not Applicable) value**

190 When Active Directory client state management is not supported, the value of the  
191 Dell\_OEMActiveDirectoryService.RequestedState property shall be 12 (Not Applicable).

## 192 7.5.2 RequestedState – 5 (No Change) value

193 When Active Directory client state management is supported, the initial value of the  
194 Dell\_OEMActiveDirectoryService.RequestedState property shall be 5 (No Change).

## 195 7.6 Dell\_OEMActiveDirectoryService.EnabledState

196 Table 2 relates the values of the Dell\_OEMActiveDirectoryService.EnabledState property to the states of  
197 the Active Directory client. The Dell\_OEMActiveDirectoryService.EnabledState property shall match the  
198 values that are specified in Table 2. When the RequestStateChange() method executes but does not  
199 complete successfully and the Active Directory client is in an indeterminate state, the  
200 Dell\_OEMActiveDirectoryService.EnabledState property shall have value of 5 (Not Applicable). The value  
201 of this property may change due to a change to the Active Directory client's enabled state by non-CIM  
202 implementation.

203 **Table 2 – EnabledState Value Description**

Value	Description	Extended Description
2	Enabled	Active Directory authentication shall be enabled.
3	Disabled	Active Directory authentication shall be disabled.
5	Not Applicable	Active Directory client state is indeterminate, or the Active Directory client state management is not supported.

204

## 205 8 Methods

206 This section includes requirements for support of the intrinsic operations and extrinsic methods of the CIM  
207 elements defined by this profile.

### 208 8.1 Method: Dell\_OEMActiveDirectoryService.RequestStateChange()

209 Invoking the Dell\_OEMActiveDirectoryService.RequestStateChange() method changes the element's  
210 state to the value specified in the RequestedState parameter.

211 Return values for RequestStateChange() shall be as specified in **Error! Reference source not found.**  
212 where the method-execution behavior matches the return-code description. RequestStateChange()  
213 method parameters are specified in **Error! Reference source not found.**

214 **Table 3 – Dell\_OEMActiveDirectoryService.RequestStateChange() Method: Return Code Values**

Value	Description
0	Request was successfully executed.
1	Method is not supported in the implementation.
2	Error occurred
4096	Job started

215 **Table 4 – Dell\_OEMActiveDirectoryService.RequestStateChange() Method: Parameters**

Qualifiers	Name	Type	Description/Values
IN, REQ	RequestedState	uint16	Valid state values: 2 (Enabled) 3 (Disabled)
OUT	Job	CIM_ConcreteJob REF	Returned if job started
IN, REQ	TimeoutPeriod	Datetime	Client specified maximum amount of time a transition to a new state should take: 0 or NULL – No time requirements <interval> – Maximum time allowed

216 When the Active Directory client state management is supported, RequestStateChange() method shall be  
217 implemented and shall not return a value of 1 (Not Supported). See section 7.4.1.

218 Invoking the Dell\_OEMActiveDirectoryService.RequestStateChange() method multiple times could result  
219 in earlier requests being overwritten or lost.

220 No standard messages are defined for this method.

## 221 8.2 Profile Conventions for Operations

222 Support of operations for each profile class (including associations) is specified in the following  
223 subclauses. Each subclause includes either the statement “All operations in the default list in section 8.2  
224 are supported as described by DSP0200 version 1.2” or a table listing all of the operations that are not  
225 supported by this profile or where the profile requires behavior other than that described by DSP0200.

226 The default list of operations is as follows:

- 227 • GetInstance
- 228 • EnumerateInstances
- 229 • EnumerateInstanceNames
- 230 • Associators
- 231 • AssociatorNames
- 232 • References
- 233 • ReferenceNames

234 A compliant implementation shall support all of the operations in the default list for each class, unless the  
235 “Requirement” column states something other than *Mandatory*.

### 236 8.3 CIM\_ElementCapabilities Operations

237 Table 5 lists operations that either have special requirements beyond those from DSP0200 or shall not be  
238 supported.

239 **Table 5 – CIM\_ElementCapabilities Operations**

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

### 240 8.4 CIM\_EnabledLogicalElementCapabilities Operations

241 All operations in the default list in section 8.2 are supported as described by DSP0200 version 1.2.

### 242 8.5 CIM\_HostedService Operations

243 Table 6 lists operations that either have special requirements beyond those from DSP0200 or shall not be  
244 supported.

245 **Table 6 – CIM\_HostedService Operations**

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

### 246 8.6 CIM\_ServiceAffectsElement Operations

247 Table 7 lists operations that either have special requirements beyond those from DSP0200 or shall not be  
248 supported.

249 **Table 7 – CIM\_ServiceAffectsElement Operations**

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

## 250 8.7 Dell\_OEMActiveDirectoryService Operations

251 Table 8 lists operations that either have special requirements beyond those from DSP0200 or shall not be  
252 supported.

253 **Table 8 – Dell\_OEMActiveDirectoryService Operations**

Operation	Requirement	Messages
ModifyInstance	Mandatory. See section 8.7.1.	None

### 254 8.7.1 Dell\_OEMActiveDirectoryService—ModifyInstance

255 This section details the requirements for the ModifyInstance operation applied to an instance of  
256 Dell\_OEMActiveDirectoryService. The ModifyInstance operation may be supported.

257 The ModifyInstance operation shall be supported and Dell\_OEMActiveDirectoryService.ElementName  
258 shall be modifiable when the ElementNameEditSupported property of the  
259 CIM\_EnabledLogicalElementCapabilities instance that is associated with the  
260 Dell\_OEMActiveDirectoryService instance has a value of TRUE. See section 8.7.1.1.

#### 261 8.7.1.1 Dell\_OEMActiveDirectoryService.ElementName

262 When the ElementNameEditSupported property of the CIM\_EnabledLogicalElementCapabilities instance  
263 that is associated with the Dell\_OEMActiveDirectoryService instance has a value of TRUE, the  
264 implementation shall allow the ModifyInstance operation to change the value of the ElementName  
265 property of the Dell\_OEMActiveDirectoryService instance. The ModifyInstance operation shall enforce the  
266 length restriction specified in the MaxElementNameLen property of the  
267 CIM\_EnabledLogicalElementCapabilities instance.

268 When the ElementNameEditSupported property of the CIM\_EnabledLogicalElementCapabilities instance  
269 has a value of FALSE, the implementation shall not allow the ModifyInstance operation to change the  
270 value of the ElementName property of the Dell\_OEMActiveDirectoryService instance.

## 271 8.8 CIM\_OEMActiveDirectoryGroup Operations

272 Table 8 lists operations that either have special requirements beyond those from DSP0200 or shall not be  
273 supported.

274 **Table 9 – Dell\_OEMActiveDirectoryService Operations**

Operation	Requirement	Messages
ModifyInstance	Mandatory	None

## 275 9 Use Cases

276 This section contains object diagrams and use cases for the Active Directory Client Profile.

### 277 9.1 Object Diagrams

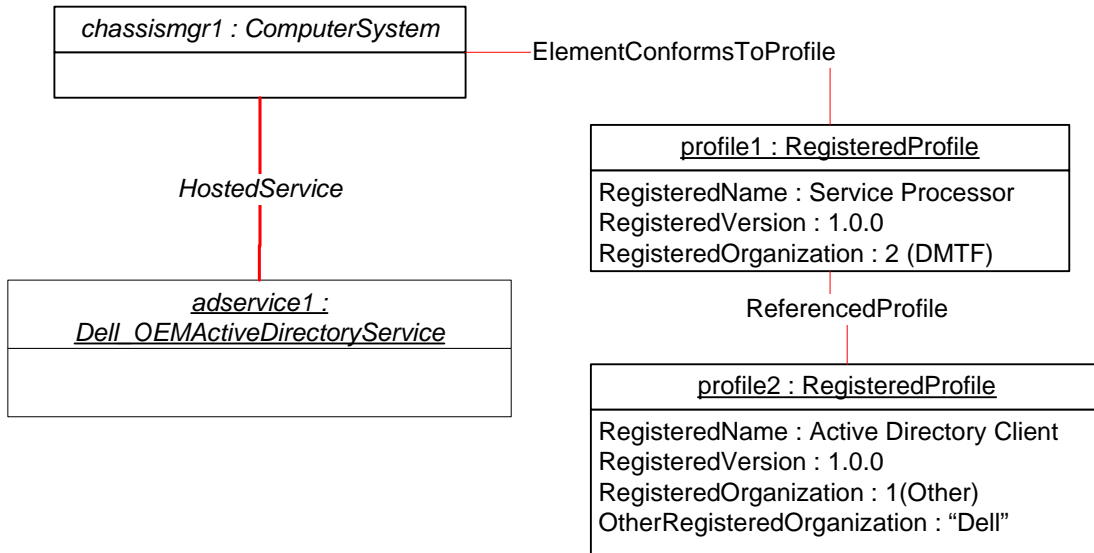
278 Figure 2 represents a possible instantiation of the Active Directory® Client Profile. In this instantiation, the  
279 managed system, chassismgr1, has management of Active Directory client, adservice1.

280 chassismgr1 is the scoping instance for adservice1. Following the CIM\_ElementConformsToProfile  
281 association to profile1 and the referenced CIM\_ReferencedProfile association to a CIM\_RegisteredProfile



282 instance with the RegisteredName property set to “Active Directory Client”, the client can retrieve profile2.  
 283 profile2 shows the version of the current Active Directory® Client Profile implementation.

284 The prefix CIM\_ has been removed from the names of the classes in the figure.

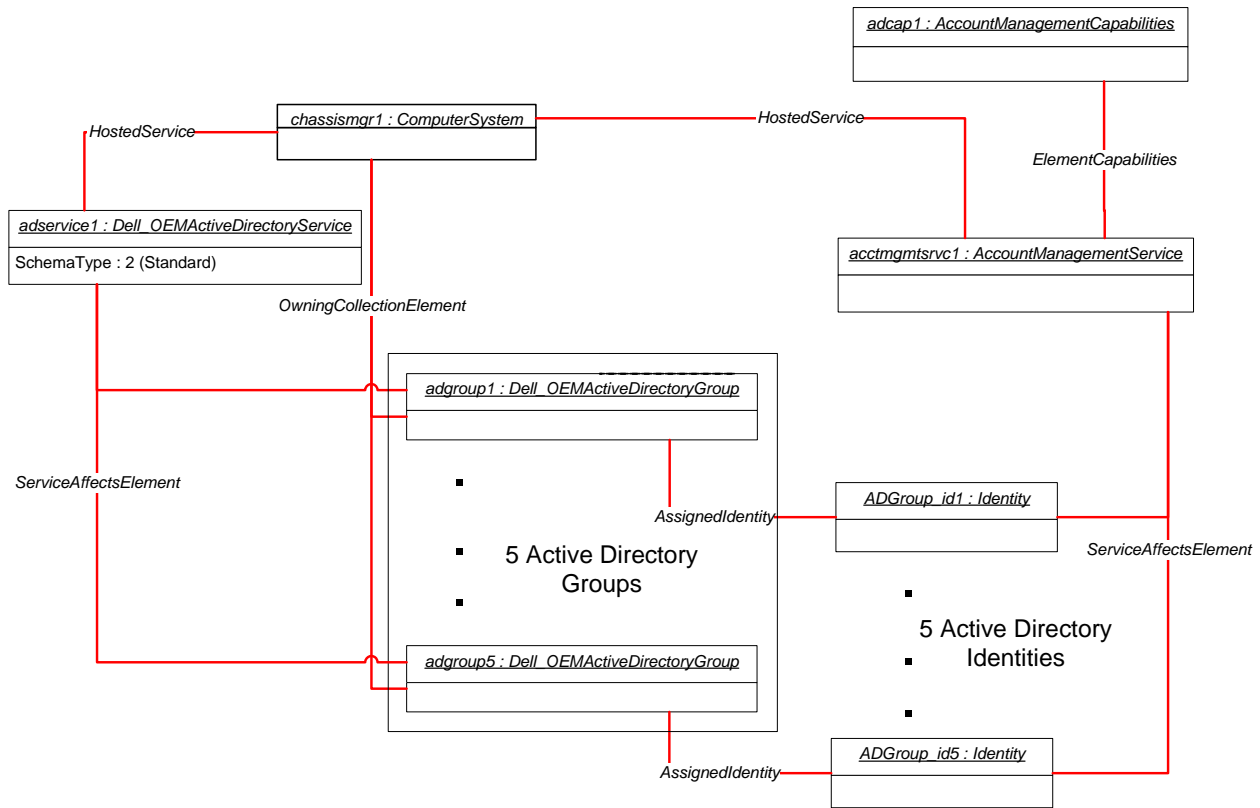


285

286

**Figure 2 – Active Directory® Client Profile: Object Diagram**

287 Figure 3 represents a possible instantiation of the Active Directory® Client Profile representing an Active  
 288 Directory client configured to use the standard schema represented by the adservice1.SchemaType  
 289 property value. adgroup1 through adgroup5 represent Active Directory groups that can have local  
 290 authorization. adgroup1 through adgroup5 are associated to the security principals of ADGroup\_id1  
 291 through ADGroup5 respectively. adgroup1 through adgroup5 privileges can be represented using the  
 292 Role Based Authorization Profile by associating ADGroup\_id1 through ADGroup\_id5 to CIM\_Role  
 293 instances.



294

295

**Figure 3 – Active Directory® Client Profile: Standard Schema Object Diagram**

296 **9.2 Enable the Active Directory Authentication**

297 A client can enable the Active Directory client as follows:

- 298 1) For the given Dell\_OEMActiveDirectoryService instance, find the associated  
299 CIM\_EnabledLogicalElementCapabilities instance.
- 300 2) If the CIM\_EnabledLogicalElementCapabilities.RequestedStatesSupported property is an array  
301 that contains the value 2 (Enabled), execute the RequestStateChange() method with the value  
302 of the RequestedState parameter set to 2 (Enable) to enable the Active Directory authentication  
303 of Active Directory client represented by this instance.

304 **9.3 Determine Whether the Dell\_OEMActiveDirectoryService.ElementName Is**  
305 **Modifiable**

306 A client can determine if it can modify the Dell\_OEMActiveDirectoryService.ElementName property as  
307 follows:

- 308 1) Find the CIM\_EnabledLogicalElementCapabilities instance associated with the  
309 Dell\_OEMActiveDirectoryService instance.
- 310 2) Query the value of the ElementNameEditSupported property of the instance. If the value is  
311 TRUE, the client can modify the Dell\_OEMActiveDirectoryService.ElementName property.

## 312 10 CIM Elements

313 Table 10 shows the instances of CIM Elements for this profile. Instances of the CIM Elements shall be  
 314 implemented as described in Table 10. Sections 7 (“Implementation Requirements”) and 8 (“Methods”)  
 315 may impose additional requirements on these elements.

316 **Table 10 – CIM Elements: Active Directory® Client Profile**

Element Name	Requirement	Description
<b>Classes</b>		
CIM_ElementCapabilities	Conditional	See section 10.1.
CIM_EnabledLogicalElementCapabilities	Optional	See sections 7.3 and 10.2.
CIM_HostedService	Mandatory	See section 10.3.
CIM_ServiceAffectsElement	Conditional	See section 10.4 and 7.2.2.
Dell_OEMActiveDirectoryGroup	Conditional	See section 10.5 and 7.2.2.
Dell_OEMActiveDirectoryService	Mandatory	See sections 10.6.
CIM_RegisteredProfile	Mandatory	See section 10.7.
<b>Indications</b>		
None defined in this profile		

### 317 10.1 CIM\_ElementCapabilities

318 CIM\_ElementCapabilities associates a Dell\_OEMActiveDirectoryService instance with a  
 319 CIM\_EnabledLogicalElementCapabilities instance. CIM\_EnabledLogicalElementCapabilities describes  
 320 the capabilities of the Dell\_OEMActiveDirectoryService instance. CIM\_ElementCapabilities is mandatory  
 321 when the CIM\_EnabledLogicalElementCapabilities instance is instantiated.

322 **Table 11 – CIM\_ElementCapabilities**

Properties	Requirement	Notes
ManagedElement	Mandatory	<b>Key:</b> Shall reference the Dell_OEMActiveDirectoryService instance. Cardinality 1..* indicating one or more references.
Capabilities	Mandatory	<b>Key:</b> Shall reference the CIM_EnabledLogicalElementCapabilities instance. Cardinality 0..1 indicating zero or one reference.

### 323 10.2 CIM\_EnabledLogicalElementCapabilities

324 CIM\_EnabledLogicalElementCapabilities represents the capabilities of the Active Directory client.

325 **Table 12 – CIM\_EnabledLogicalElementCapabilities**

Properties	Requirement	Notes
InstanceID	Mandatory	<b>Key</b>
RequestedStatesSupported	Mandatory	See section 7.3.1.
ElementNameEditSupported	Mandatory	See section 7.3.2.
MaxElementNameLen	Conditional	See section 7.3.3.

326 **10.3 CIM\_HostedService**

327 CIM\_HostedService associates a Dell\_OEMActiveDirectoryService instance with the  
 328 CIM\_RedundancySet instance.

329 **Table 13 – Class: CIM\_HostedService**

Properties	Notes	Description
Antecedent	Mandatory	<b>Key:</b> Shall reference the Scoping Instance. Cardinality 1 indicating one and only one reference.
Dependent	Mandatory	<b>Key:</b> Shall reference the Central Instance Cardinality 1..* indicating one or more references.

330 **10.4 CIM\_ServiceAffectsElement**

331 Table 14 shows the requirements for a CIM\_ServiceAffectsElement instance.

332 **Table 14 – Class: CIM\_ServiceAffectsElement**

Elements	Requirement	Notes
ServiceProvided	Mandatory	<b>Key</b> This property shall be a reference to the Central Instance of the profile. Cardinality 1
UserOfService	Mandatory	<b>Key</b> This property shall be a reference to Dell_OEMActiveDirectoryGroup. Cardinality *
ElementAffects	Mandatory	Matches 5 (Manages).

333 **10.5 Dell\_OEMActiveDirectoryGroup**

334 Table 15 shows the requirements for a CIM\_Group instance.

335 **Table 15 – Class: Dell\_OEMActiveDirectoryGroup**

Elements	Requirement	Notes
CreationClassName	Mandatory	<b>Key</b>
Name	Mandatory	<b>Key</b>
ElementName	Mandatory	shall match "Active Directory Service"
DeviceObjectDomain	Mandatory	

336 **10.6 Dell\_OEMActiveDirectoryService**

337 Dell\_OEMActiveDirectoryService represents the Active Directory client.

338 **Table 16 – Class: Dell\_OEMActiveDirectoryService**

Properties and Methods	Requirement	Description
SystemCreationClassName	Mandatory	<b>Key</b>
CreationClassName	Mandatory	<b>Key</b>
SystemName	Mandatory	<b>Key</b>
Name	Mandatory	<b>Key</b>
RequestedState	Mandatory	
EnabledState	Mandatory	
ElementName	Mandatory	pattern “.*”.
RequestStateChange( )	Conditional	See section 8.1.

339 **10.7 CIM\_RegisteredProfile**340 The CIM\_RegisteredProfile class is defined by the Profile Registration Profile. The requirements shown in  
341 Table 17 are additional to those mandated by the Profile Registration Profile.342 **Table 17 – Class: CIM\_RegisteredProfile**

Properties	Requirement	Description
RegisteredName	Mandatory	This property shall have a value of “Active Directory Client”.
RegisteredVersion	Mandatory	This property shall have a value of “1.0.0”.
RegisteredOrganization	Mandatory	This property shall have a value of 1 (Other).
OtherRegisteredOrganization	Mandatory	This property shall match “Dell”.

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**ANNEX A**  
(informative)

**Change Log**

Version	Date	Description
1.0.0	2/12/2009	Initial version.

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## **ANNEX B** (informative)

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