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Foreword

The *SM CLP Admin Domain Profile* (DSP1007) was prepared by the Server Management Working Group and the Physical Platform Profiles Working Group of the DMTF.

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Introduction

The information in this specification should be sufficient for a provider or consumer of this data to identify unambiguously the classes, properties, methods, and values that shall be instantiated and manipulated to represent collections of select managed elements and the management domain for use when implementing the *Server Management Command Line Protocol (SM CLP) Specification*, *Server Management Managed Element Addressing Specification (SM ME)*, or both. The target audience for this specification is implementers who are writing CIM-based providers or consumers of management interfaces that represent the component described in this document.

126 # SM CLP Admin Domain Profile

127 ## 1 Scope

128 The *SM CLP Admin Domain Profile* extends the management capability of referencing profiles by adding
129 the capability to represent the management domain of the CLP and the collection of hardware being
130 managed.

131 ## 2 Normative References

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

135 ### 2.1 Approved References

136 DMTF DSP0004, *CIM Infrastructure Specification 2.5*,
137 http://www.dmtf.org/standards/published_documents/DSP0004_2.5.pdf

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

140 DMTF DSP0215, *Server Management Managed Element Addressing Specification 1.0*,
141 http://www.dmtf.org/standards/published_documents/DSP0215_1.0.pdf

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

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

146 DMTF DSP1008, *Modular System Profile 1.0,*
147 http://www.dmtf.org/standards/published_documents/DSP1008_1.0.pdf

148 DMTF DSP1011, *Physical Asset Profile 1.0*,
149 http://www.dmtf.org/standards/published_documents/DSP1011_1.0.pdf

150 DMTF DSP1018, *Service Processor Profile 1.0*,
151 http://www.dmtf.org/standards/published_documents/DSP1018_1.0.pdf

152 DMTF DSP1026, *System Memory Profile 1.0*,
153 http://www.dmtf.org/standards/published_documents/DSP1026_1.0.pdf

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

156 ### 2.2 Other References

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

3 Terms and Definitions

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

3.1
can
used for statements of possibility and capability, whether material, physical, or causal

3.2
cannot
used for statements of possibility and capability, whether material, physical, or causal

3.3
conditional
indicates requirements to be followed strictly in order to conform to the document when the specified conditions are met

3.4
Hardware Collection
CIM_ConcreteCollection instance for CIM_PhysicalElement instances

3.5
mandatory
indicates requirements to be followed strictly in order to conform to the document and from which no deviation is permitted

3.6
may
indicates a course of action permissible within the limits of the document

3.7
need not
indicates a course of action permissible within the limits of the document

3.8
optional
indicates a course of action permissible within the limits of the document

3.9
referencing profile
indicates a profile that owns the definition of this class and can include a reference to this profile in its "Referenced Profiles" table

3.10
shall
indicates requirements to be followed strictly in order to conform to the document and from which no deviation is permitted

3.11
shall not
indicates requirements to be followed strictly in order to conform to the document and from which no deviation is permitted

3.12
should
indicates that among several possibilities, one is recommended as particularly suitable, without mentioning or excluding others, or that a certain course of action is preferred but not necessarily required

3.13
should not
indicates that a certain possibility or course of action is deprecated but not prohibited

4 Symbols and Abbreviated Terms

The following symbols and abbreviations are used in this document.

4.1
CIM
Common Information Model

4.2
SM CLP
Server Management Command Line Protocol

4.3
SM ME
Server Management Managed Element

5 Synopsis

Profile Name: SM CLP Admin Domain

Version: 1.0.0

Organization: DMTF

CIM Schema Version: 2.22

Central Class: CIM_AdminDomain

Scoping Class: CIM_AdminDomain

The *SM CLP Admin Domain Profile* extends the management capability of referencing profiles by adding the capability to represent the management domain of the CLP and the collection of hardware being managed.

The Central Class for the *SM CLP Admin Domain Profile* shall be the CIM_AdminDomain class. The instance of CIM_AdminDomain shall be the Central Instance of the *SM CLP Admin Domain Profile*. The *SM CLP Admin Domain Profile* is an autonomous profile. The Scoping Instance for the *SM CLP Admin Domain Profile* shall be the Central Instance.

Table 1 identifies profiles on which this profile has a dependency.

232 **Table 1 – Referenced Profiles**

Profile Name	Organization	Version	Relationship	Behavior
Base Server	DMTF	1.0	Optional	See 7.3.
Service Processor	DMTF	1.0	Optional	See 7.4.
Modular System	DMTF	1.0	Optional	See 7.5.
Profile Registration	DMTF	1.0	Mandatory	
Physical Asset	DMTF	1.0	Optional	See 7.2.

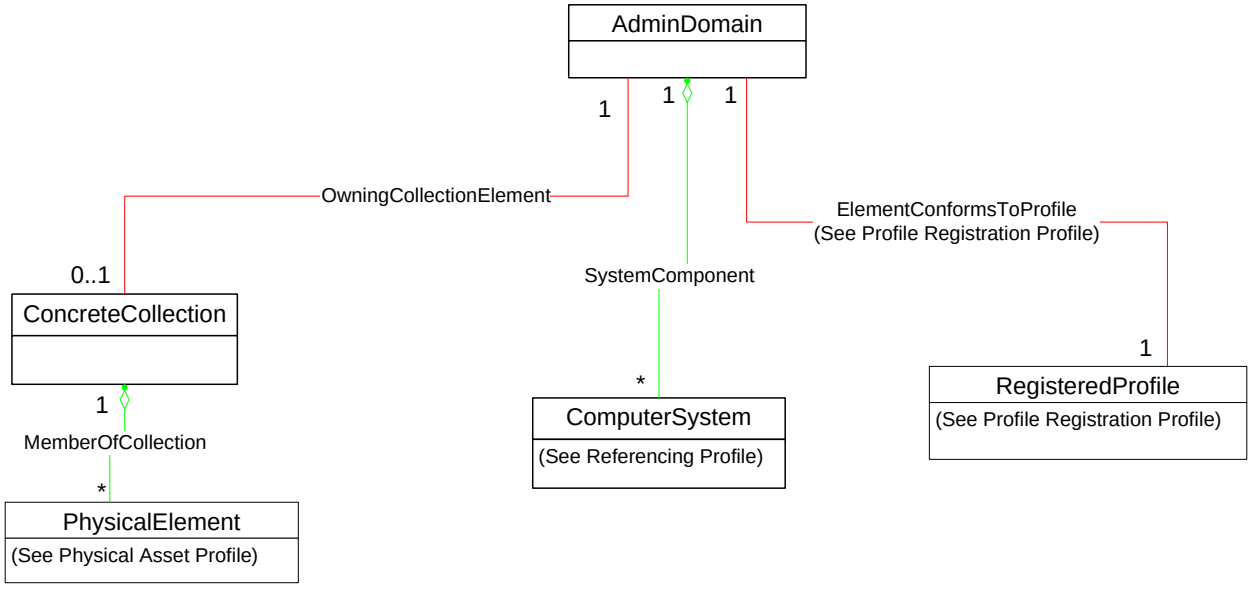
233 # 6 Description

234 The *SM CLP Admin Domain Profile* describes CIM_AdminDomain, CIM_ConcreteCollection, and the
235 associations that scope Managed Elements to them.

236 Figure 1 represents the class schema for the *SM CLP Admin Domain Profile*. The *SM CLP Admin*
237 *Domain Profile* defines the Hardware Collection (an instance of CIM_ConcreteCollection) and the
238 instance of CIM_AdminDomain that represents the management domain of a CLP service.

239 Each CIM_ComputerSystem instance that is compliant with a related autonomous profile is associated
240 with the CIM_AdminDomain instance through an instance of the CIM_SystemComponent association.

241 The Hardware Collection aggregates instances of CIM_PhysicalElement by using the
242 CIM_MemberOfCollection association. Instances of CIM_PhysicalElement and related associations can
243 be used to create a containment hierarchy such that any physical element will be contained in zero or one
244 other physical elements. The *SM CLP Admin Domain Profile* leverages this containment hierarchy to
245 ensure that exactly one association path exists from the Hardware Collection to each instance of
246 CIM_PhysicalElement.



247

248 **Figure 1 – SM CLP Admin Domain Profile: Class Diagram**

7 Implementation Requirements

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

7.1 Management Domain

Exactly one instance of CIM_AdminDomain shall be associated through CIM_ElementConformsToProfile with the instance of CIM_RegisteredProfile that is defined in section 10.5. This instance of CIM_AdminDomain represents the management domain of a CLP service.

7.2 Hardware Collection

One instance of CIM_ConcreteCollection may be associated with the CIM_AdminDomain instance through CIM_OwningCollectionElement, where the CIM_ConcreteCollection.ElementName property has the value "Hardware". This is the Hardware Collection and serves as the aggregation point for instances of CIM_PhysicalElement. The *Physical Asset Profile* may be instrumented as optional behavior of other component or autonomous profiles. The physical model is not instrumented in the *SM CLP Admin Domain Profile*.

7.2.1 Creating CIM_MemberOfCollection Instances

The intention of the algorithm below is to select the outermost or top-level instrumented CIM_PhysicalElement such that a containment path exists from the hardware collection to every instrumented CIM_PhysicalElement. The algorithm starts on the logical side of the model and crosses over to the physical side to determine the instances of CIM_PhysicalElement for which an association path needs to be established. It then traverses up (or out) the CIM_Container and CIM_PackageInConnector associations until the outermost package is reached.

In the following algorithm, CIM_PhysicalPackage means CIM_PhysicalPackage or any sub-class of CIM_PhysicalPackage, CIM_PhysicalElement means a sub-class of CIM_PhysicalElement. The keyword "select" indicates that identified instance of CIM_PhysicalElement or CIM_PhysicalPackage is used in the next step in the algorithm.

The following algorithm shall be used for creating instances of CIM_MemberOfCollection that reference the Hardware Collection and an instance of CIM_PhysicalElement. Steps 1, 2, and 3 are used to determine instances of CIM_PhysicalElement or CIM_PhysicalPackage for which an association path needs to be created from the Hardware Collection. For each CIM_PhysicalElement or CIM_PhysicalPackage, the algorithm terminates when a CIM_MemberOfCollection is created.

1. For each instance of CIM_ComputerSystem that is associated with the Central Instance through an instance of CIM_SystemComponent, where the CIM_ComputerSystem instance is the PartComponent reference, select each instance of CIM_PhysicalPackage that is associated with the CIM_ComputerSystem instance through an instance of the CIM_ComputerSystemPackage association

    1.1 If the CIM_PhysicalPackage instance is the PartComponent reference in an instance of CIM_Container or is the Dependent reference in an instance of CIM_PackageInConnector ,

        1.1.1 If the GroupComponent or Antecedent reference of the association is an instance of CIM_PhysicalPackage, select the CIM_PhysicalPackage instance that is the value of the GroupComponent or Antecedent reference and go to 1.1.

        1.1.2 Else the GroupComponent or Antecedent reference of the association is to an instance of CIM_PhysicalElement. Select the CIM_PhysicalElement.

1.1.2.1 If the CIM_PhysicalElement is the PartComponent reference in the CIM_Container association, select the CIM_PhysicalPackage that is the value of the GroupComponent reference and go to 1.1.

1.1.2.2 Else the CIM_PhysicalElement is not the PartComponent reference in a CIM_Container association, and there shall be an instance of CIM_MemberOfCollection that references the Hardware Collection and the instance of CIM_PhysicalElement.

1.2 Else the CIM_PhysicalPackage instance is not the PartComponent reference in an instance of CIM_Container or the Dependent reference in an instance of CIM_PackageInConnector. There shall be an instance of CIM_MemberOfCollection that references the CIM_PhysicalPackage instance and the Hardware Collection.

2. For each instance of CIM_LogicalDevice that is associated through an instance of CIM_SystemDevice with a CIM_ComputerSystem instance that is associated through the CIM_SystemComponent association with the Central Instance, select each instance of CIM_PhysicalPackage that is associated with the CIM_LogicalDevice instance through CIM_Realizes and go to 1.1.

3. For each instance of CIM_LogicalDevice that is associated through an instance of CIM_SystemDevice with a CIM_ComputerSystem instance that is associated through the CIM_SystemComponent association with the Central Instance, select each instance of CIM_PhysicalElement that is associated with the CIM_LogicalDevice instance through CIM_Realizes and go to 1.1.2.1.

7.3 Aggregating ComputerSystem Instances That Are Compliant with the Base Server Profile

When the *Base Server Profile* is implemented, the following rules apply.

7.3.1 Relationship between ComputerSystem and AdminDomain

An instance of CIM_SystemComponent shall associate the Central Instance of the *Base Server Profile* with the CIM_AdminDomain instance.

7.3.1.1 CIM_SystemComponent.GroupComponent

The CIM_AdminDomain instance shall be the value of the GroupComponent property of the CIM_SystemComponent instance.

7.3.1.2 CIM_SystemComponent.PartComponent

The CIM_ComputerSystem instance shall be the value of the PartComponent property of the CIM_SystemComponent instance.

7.4 Aggregating ComputerSystem Instances That Are Compliant with the Service Processor Profile

When the *Service Processor Profile* is implemented, the following rules apply.

7.4.1 Relationship between ComputerSystem and AdminDomain

An instance of CIM_SystemComponent shall associate the Central Instance of the *Service Processor Profile* with the CIM_AdminDomain instance.

7.4.1.1 CIM_SystemComponent.GroupComponent

The CIM_AdminDomain instance shall be the value of the GroupComponent property of the CIM_SystemComponent instance.

7.4.1.2 CIM_SystemComponent.PartComponent

The CIM_ComputerSystem instance shall be the value of the PartComponent property of the CIM_SystemComponent instance.

7.5 Aggregating ComputerSystem Instances That Are Compliant with the Modular System Profile

When the *Modular System Profile* is implemented, the following rules apply.

7.5.1 Relationship between ComputerSystem and AdminDomain

An instance of CIM_SystemComponent shall associate the Central Instance of the *Modular System Profile* with the CIM_AdminDomain instance.

7.5.1.1 CIM_SystemComponent.GroupComponent

The CIM_AdminDomain instance shall be the value of the GroupComponent property of the CIM_SystemComponent instance.

7.5.1.2 CIM_SystemComponent.PartComponent

The CIM_ComputerSystem instance shall be the value of the PartComponent property of the CIM_SystemComponent instance.

8 Methods

No methods are defined in this profile.

8.1 Profile Conventions for Operations

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

The default list of operations is as follows:

- GetInstance
- Associators
- AssociatorNames
- References
- ReferenceNames
- EnumerateInstances
- EnumerateInstanceNames

8.2 CIM_AdminDomain

All operations in the default list in 8.1 shall be implemented as defined in DSP0200.

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

8.3 CIM_ConcreteCollection

All operations in the default list in 8.1 shall be implemented as defined in DSP0200.

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

8.4 CIM_MemberOfCollection

Table 2 lists implementation requirements for operations. If implemented, these operations shall be implemented as defined in DSP0200. In addition, and unless otherwise stated in Table 2, all operations in the default list in 8.1 shall be implemented as defined in DSP0200.

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

Table 2 – Operations: CIM_MemberOfCollection

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

8.5 CIM_OwningCollectionElement

Table 3 lists implementation requirements for operations. If implemented, these operations shall be implemented as defined in DSP0200. In addition, and unless otherwise stated in Table 3, all operations in the default list in 8.1 shall be implemented as defined in DSP0200.

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

Table 3 – Operations: CIM_OwningCollectionElement

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

8.6 CIM_SystemComponent

Table 4 lists implementation requirements for operations. If implemented, these operations shall be implemented as defined in DSP0200. In addition, and unless otherwise stated in Table 4, all operations in the default list in 8.1 shall be implemented as defined in DSP0200.

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

Table 4 – Operations: CIM_SystemComponent

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

9 Use Cases

This section contains object diagrams and use cases for the *SM CLP Admin Domain Profile*.

9.1 Object Diagrams

The object diagram in Figure 2 shows how instances of CIM_RegisteredProfile are used to identify the version of the *SM CLP Admin Domain Profile* with which the instance of CIM_AdminDomain and its associated instances are conformant. An instance of CIM_RegisteredProfile exists for the *SM CLP Admin Domain Profile*. Additional instances of CIM_RegisteredProfile identify autonomous profiles that contain CIM_ComputerSystem instances that are scoped to the CIM_AdminDomain instance.

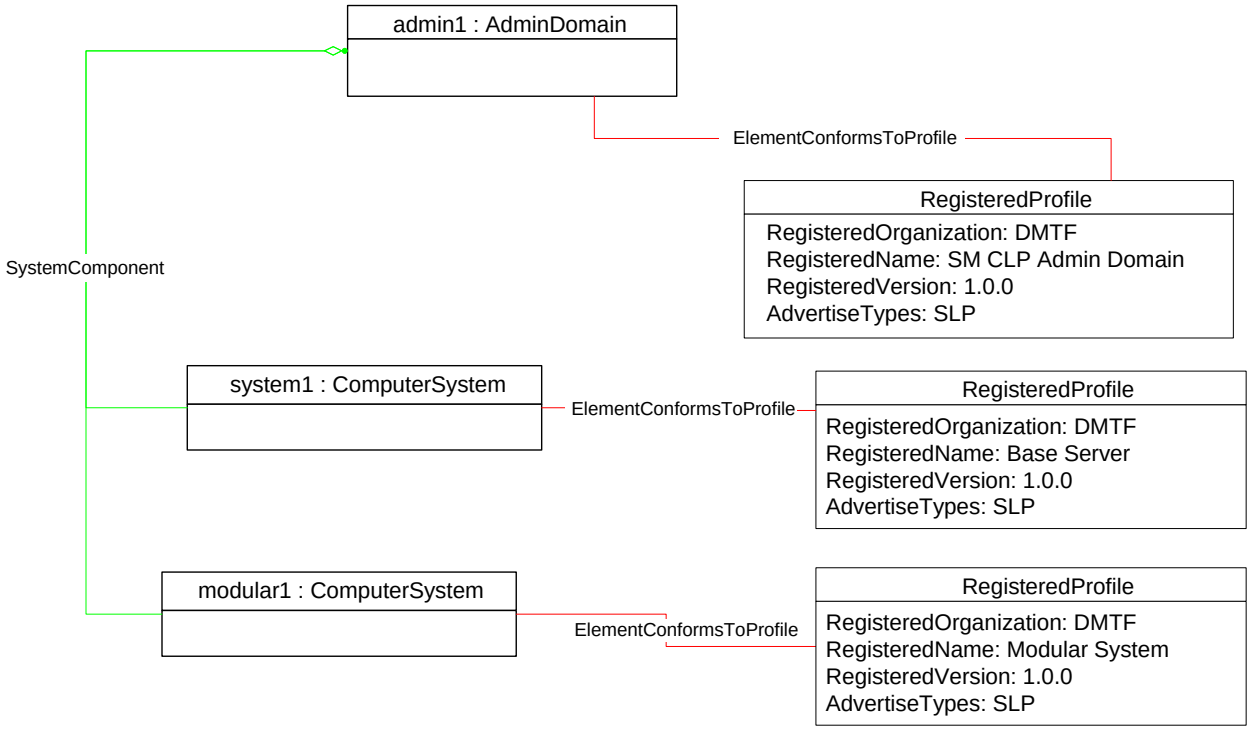


Figure 2 – Registered Profile

Figure 3 is an object diagram that shows implementations of autonomous profiles in which the *Physical Asset Profile* is implemented and there are associated CIM_PhysicalPackage instances. (CIM_Chassis is a subclass of CIM_PhysicalPackage.)

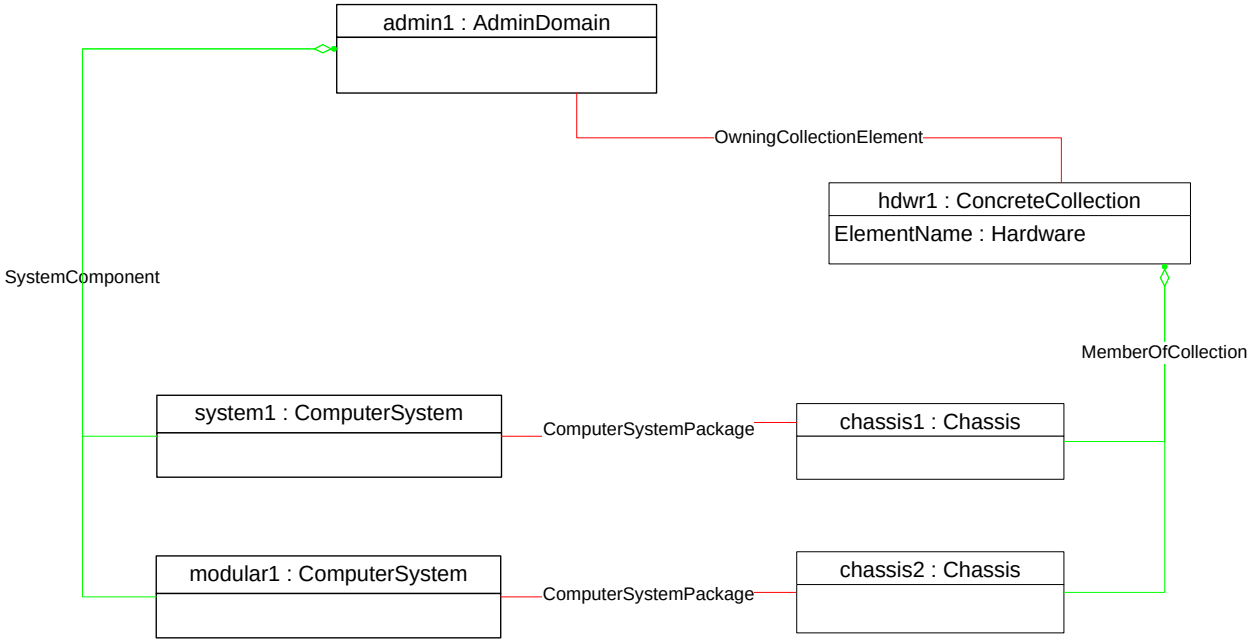


Figure 3 – Hardware Collection

In the object diagram in Figure 4, the instrumentation for System1 has not included the *Physical Asset Profile*. However, the instrumentation of the component *System Memory Profile* has provided the *Physical Asset Profile*. Applying step 2 of the algorithm in section 7.2.1 to `memory1` causes the selection of `pmem1`. `pmem1` fails the test in step 1.1. Going to step 1.2, the instrumentation creates an instance of CIM_MemberOfCollection that references `pmem1` and `hdwr1`. In this case, there is no scoping CIM_PhysicalElement for the pmem1, and it is directly associated through CIM_MemberOfCollection to the Hardware Collection.

`system2` illustrates a different possibility. Here the instrumentation not only includes the CIM_PhysicalPackage for the system itself (chassis2), it is capable of modeling the rack in which the system is installed (rack1). It also includes physical asset information for a single installed processor. As chassis2 is contained in rack1, chassis2 is not associated with the Hardware Collection. Instead, rack1 is associated with the Hardware Collection.

Applying the algorithm in section 7.2.1 to `system2`, step 1 in the algorithm causes us to select `chassis2`. `chassis2` satisfies the test in step 1.1, falling through to step 1.1.1. `chassis2` satisfies the test in step 1.1.1, causing the selection of `rack1`. `rack1` does not satisfy the test in step 1.1. Proceeding to step 1.2, the instrumentation creates an instance of CIM_MemberOfCollection that references `rack1` and `hdwr1`.

Applying the algorithm in section 7.2.1 to `system2` a second time, step 2 in the algorithm causes us to select `chip1`. `chip1` satisfies the condition in step 1.1. Proceeding to step 1.1.1, the condition is not satisfied and the algorithm proceeds to step 1.1.2, causing the selection of `conn1`. The algorithm then proceeds to step 1.1.2.1 where the condition is satisfied, causing the selection of `card1`. Proceeding to step 1.1, the condition is satisfied and the algorithm proceeds to step 1.1.1. The condition here is satisfied, causing the selection of `chassis1`. From this point, the algorithm proceeds as outlined in the paragraph above.

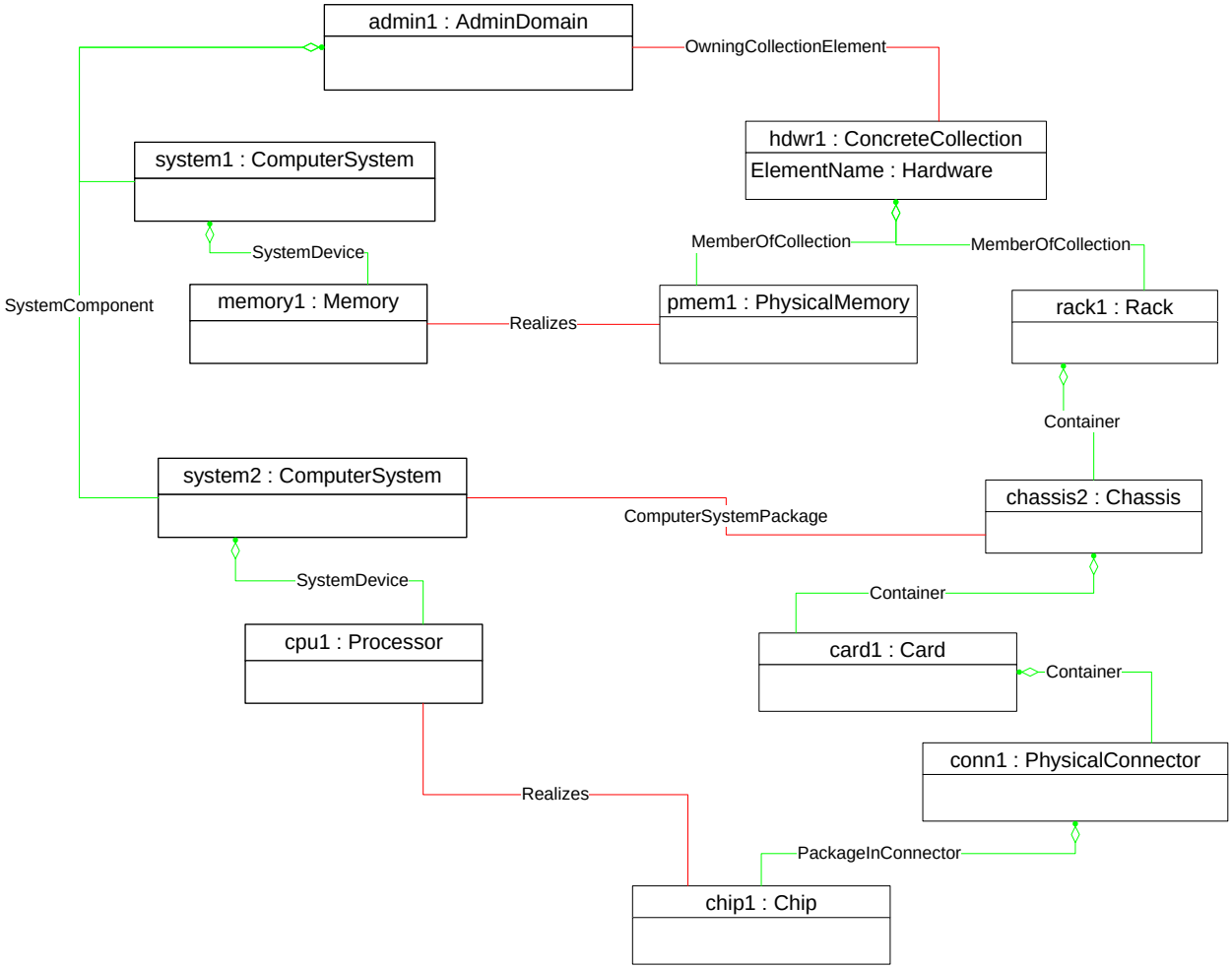


Figure 4 – Object Diagram before Algorithm in 7.2.1 Is Applied

9.2 Finding All of the ComputerSystem Instances Being Managed

A client can find all of the ComputerSystem instances being managed as follows:

1) Find the instance of CIM_AdminDomain.
2) Find all instances of CIM_ComputerSystem that are associated with the CIM_AdminDomain instance through instances of CIM_SystemComponent.

9.3 Finding All of the Hardware Being Managed

A client can find all of the hardware being managed as follows:

1) Find the instance of CIM_ConcreteCollection that is associated with the CIM_AdminDomain instance through an instance of CIM_OwningCollectionElement, where the ElementName property of the CIM_ConcreteCollection instance has a value of "Hardware".
2) Find all instances of CIM_PhysicalElement that are associated with the CIM_ConcreteCollection instance through instances of CIM_MemberOfCollection.

10 CIM Elements

Table 5 shows the instances of CIM Elements for this profile. Instances of the CIM Elements shall be implemented as described in Table 5. Section 7 may impose additional requirements on these elements.

Table 5 – CIM Elements: SM CLP Admin Domain Profile

Element Name	Requirement	Notes
Classes		
CIM_AdminDomain	Mandatory	See section 10.1.
CIM_ConcreteCollection	Mandatory	See section 10.2.
CIM_MemberOfCollection	Optional	See section 10.3.
CIM_OwningCollectionElement	Mandatory	See section 10.4.
CIM_RegisteredProfile	Mandatory	See section 10.5.
CIM_SystemComponent	Conditional	See sections 10.6, 10.7, and 10.8.
Indications		
None defined in this profile		

10.1 CIM_AdminDomain

CIM_AdminDomain is the point of aggregation for the Managed Elements being managed by a CLP Service.

Table 6 – Class: CIM_AdminDomain

Properties	Requirement	Notes
CreationClassName	Mandatory	None
Name	Mandatory	None
ElementName	Optional	Matches "SM CLP Admin Domain"

10.2 CIM_ConcreteCollection

CIM_ConcreteCollection instances are used to aggregate instances of CIM_PhysicalElement.

Table 7 – Class: CIM_ConcreteCollection

Properties	Requirement	Notes
InstanceID	Mandatory	None
ElementName	Mandatory	See section 7.2.

10.3 CIM_MemberOfCollection

CIM_MemberOfCollection is used to associate CIM_PhysicalElement instances with the Hardware Collection.

Table 8 – Class: CIM_MemberOfCollection

Properties	Requirement	Notes
GroupComponent	Mandatory	The value of this property shall a reference to the Hardware Collection. Cardinality 1
PartComponent	Mandatory	See section 7.2.1. Cardinality *

10.4 CIM_OwningCollectionElement

CIM_OwningCollectionElement is used to associate a CIM_ConcreteCollection instance with its scoping CIM_System instance.

Table 9 – Class: CIM_OwningCollectionElement

Properties	Requirement	Notes
OwningElement	Mandatory	The value of this property shall be the scoping instance of this profile. Cardinality 1
OwnedElement	Mandatory	The value of this property shall be the instance of CIM_ConcreteCollection. Cardinality 0..1

10.5 CIM_RegisteredProfile

CIM_RegisteredProfile identifies the *SM CLP Admin Domain Profile* in order for a client to determine whether an instance of CIM_LogicalModule is conformant with this profile. The CIM_RegisteredProfile class is defined by the *Profile Registration Profile*. With the exception of the mandatory values specified for the properties in Table 10, the behavior of the CIM_RegisteredProfile instance is defined by the *Profile Registration Profile*.

Table 10 – Class: CIM_RegisteredProfile

Properties	Requirement	Notes
RegisteredName	Mandatory	Matches "SM CLP Admin Domain"
RegisteredVersion	Mandatory	Matches "1.0.0"
RegisteredOrganization	Mandatory	Matches 2 (DMTF)

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

10.6 CIM_SystemComponent–Base Server Profile

If the Computer System Profile is implemented, the CIM_SystemComponent shall be used to aggregate CIM_ComputerSystem instances that are compliant with the Base Server Profile into the CIM_AdminDomain instance. See section 7.3.

Table 11 – Class: CIM_SystemComponent

Properties	Requirement	Notes
GroupComponent	Mandatory	The value of this property shall be the Central Instance. Cardinality 1
PartComponent	Mandatory	See section 7.3.1.2. Cardinality *

10.7 CIM_SystemComponent–Service Processor Profile

CIM_SystemComponent is used to aggregate CIM_ComputerSystem instances that are compliant with the *Service Processor Profile* into the CIM_AdminDomain instance. See section 7.4.

Table 12 – Class: CIM_SystemComponent

Properties	Requirement	Notes
GroupComponent	Mandatory	The value of this property shall be the Central Instance. Cardinality 1
PartComponent	Mandatory	See section 7.4.1.2. Cardinality *

10.8 CIM_SystemComponent–Modular System Profile

CIM_SystemComponent is used to aggregate CIM_ComputerSystem instances that are compliant with the *Modular System Profile* into the CIM_AdminDomain instance. See section 7.5.

Table 13 – Class: CIM_SystemComponent

Properties	Requirement	Notes
GroupComponent	Mandatory	The value of this property shall be the Central Instance. Cardinality 1
PartComponent	Mandatory	See section 7.5.1.2. Cardinality *

ANNEX A
(informative)

Change Log

Version	Date	Description
1.0.0	2009-07-02	DMTF Standard Release

Bibliography

DMTF DSP0214, *Server Management Command Line Protocol (SM CLP) Specification 1.0*, http://www.dmtf.org/standards/published_documents/DSP0214.pdf