



Document Number: DSP1117

Date: 2013-08-08

Version: 1.0.0c

Management Initiative Registration Profile

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This document expires on: **2014-01-31**.

Target version for DMTF Standard: **1.0.0**.

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Document Type: Specification

Document Status: Work in Progress

Document Language: en-US

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Foreword

This document was prepared by the DMTF Architecture Working Group

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

24 **Acknowledgements**

25 DMTF acknowledges the following individuals for their contributions to this document:

- 26 • Andreas Maier, IBM (Editor)
- 27 • Jim Davis, WBEM Solutions
- 28 • George Ericson, EMC
- 29 • Michael Johanssen, IBM
- 30 • Rick Landau, Dell
- 31 • Mike Walker, SNIA

32

Introduction

33 This document defines the CIM model for advertising and discovering conformance of an implementation
to one or more management initiatives. The information in this document is intended to be sufficient for a
provider or consumer of this data to identify unambiguously the classes, properties, methods, and values
that need to be instantiated and manipulated.

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

35 **Document conventions**

36 **Typographical conventions**

37 The following typographical conventions are used in this document:

- 38 • Document titles are marked in *italics*.
- 39 • Important terms that are used for the first time are marked in *italics*.
- 40 • Terms include a link to the term definition in the "Terms and definitions" clause, enabling easy
navigation to the term definition.

41 **OCL usage conventions**

42 Constraints in this document are specified using OCL (see [OCL 2.0](#)).

43 OCL statements are in `monospaced font`.

44

Management Initiative Registration Profile

45

1 Scope

46 The Management Initiative Registration profile is an autonomous profile that provides for advertising and
47 discovering conformance of an implementation to management initiatives, and optionally to the
management profiles of the advertised initiatives.

47

2 Normative references

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

49 DMTF DSP0004, *CIM Infrastructure Specification 2.7*,
http://www.dmtf.org/standards/published_documents/DSP0004_2.7.pdf

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

51 DMTF DSP1001, *Management Profile Specification Usage Guide 1.1*,
http://www.dmtf.org/standards/published_documents/DSP1001_1.1.pdf

52 DMTF DSP1033, *Profile Registration Profile 1.1*,
http://www.dmtf.org/standards/published_documents/DSP1033_1.1.pdf

53 OMG formal/06-05-01, *Object Constraint Language 2.0*,
<http://www.omg.org/spec/OCL/2.0/>

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

55

3 Terms and definitions

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

57

3.1 General

58 The terms "shall" ("required"), "shall not", "should" ("recommended"), "should not" ("not recommended"),
"may", "need not" ("not required"), "can" and "cannot" in this document are to be interpreted as described
in [ISO/IEC Directives, Part2](#), Annex H. The terms in parenthesis are alternatives for the preceding term,
for use in exceptional cases when the preceding term cannot be used for linguistic reasons. Note that
[ISO/IEC Directives, Part2](#), Annex H specifies additional alternatives. Occurrences of such additional
alternatives shall be interpreted in their normal English meaning in this document.

59 The terms "clause", "subclause", "paragraph", "annex" in this document are to be interpreted as described
in [ISO/IEC Directives, Part2](#), Clause 5.

60

The terms "normative" and "informative" in this document are to be interpreted as described in [ISO/IEC Directives, Part2](#), Clause 3. In this document, clauses, subclauses or annexes indicated with "(informative)" as well as notes and examples do not contain normative content.

The terms defined in [DSP0004](#), [DSP0223](#), and [DSP1001](#) apply to this document.

61 The following additional terms are defined in this document.

62 **3.2**

63 **initiative, management initiative**

64 A named and versioned amount of management functionality with conformance requirements. The conformance requirements for implementing a management initiative are described in an initiative specification, based on management profiles and other specifications. Initiatives may be defined by DMTF, other standards organizations, or vendors.

65 **3.3**

66 **initiative specification**

67 A specification defining conformance requirements for implementing an initiative. Also called "initiative wrapper specification".

68 **3.4**

69 **implementation namespace**

A CIM namespace for the main part of the implementation, as defined in [DSP1033](#).

70 **3.5**

71 **interop namespace**

A CIM namespace for interoperability, as defined in [DSP1033](#).

72 **3.6**

73 **profile**

A management profile, as defined in [DSP1001](#).

74

4 Symbols and abbreviated terms

75 The abbreviations defined in [DSP0004](#), [DSP0223](#), and [DSP1001](#) apply to this document.

76 This document does not define any additional abbreviations.

77

5 Synopsis

78 **Profile name:** Management Initiative Registration

79 **Version:** 1.0.0

80 **Organization:** DMTF

81 **Abstract:** No

82 **Profile type:** Autonomous

83 **Schema:** DMTF CIM 2.37

84 **Central class adaptation:** RegisteredInitiative

85 **Scoping class adaptation:** RegisteredInitiative

86 The Management Initiative Registration profile is an autonomous profile that provides for advertising and
 87 discovering conformance of an implementation to management initiatives, and optionally to the
 88 management profiles of the advertised initiatives.

87 Table 1 identifies the profile references defined in this profile.

88 **Table 1 – Profile references**

Profile reference name	Profile name	Organization	Version	Relationship	Description
PRP	Profile Registration	DMTF	1.1	Mandatory	Used to advertise conformance of the implementation to this profile.
InitiativePRP	Profile Registration	DMTF	1.1	Mandatory	Used to advertise conformance of the implementation to the management profiles of advertised management initiatives.

89 Table 2 identifies the features defined in this profile.

90 **Table 2 – Features**

Feature	Requirement	Description
InitiativeProfiles	Optional	See 7.1.1.

91 Table 3 identifies the class adaptations defined in this profile.

92 **Table 3 – Adaptations**

Adaptation	Elements	Requirement	Description
Instantiated, embedded and abstract adaptations			
RegisteredProfile	CIM_RegisteredProfile	Mandatory	See 7.2.2.
RegisteredInitiative	CIM_RegisteredSpecification	Mandatory	See 7.2.3.
InitiativeProfile	CIM_RegisteredProfile	Conditional	See 7.2.4.
ReferencedInitiativeProfile	CIM_ReferencedSpecification	Conditional	See 7.2.5.
Indications and exceptions			
This profile does not define any such adaptations.			

93 Table 4 identifies the use cases and state descriptions defined in this profile.

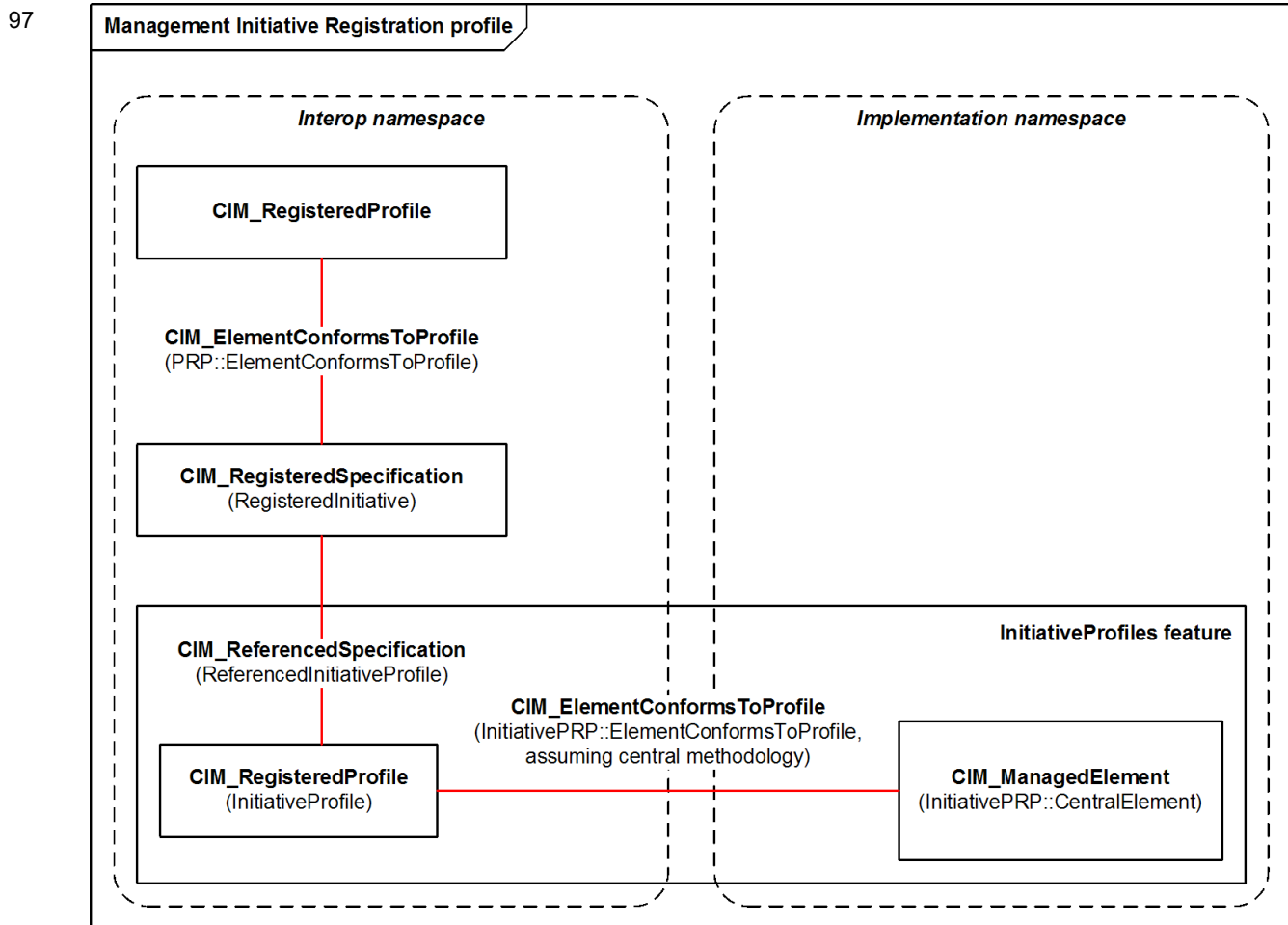
94 **Table 4 – Use cases and state descriptions**

Name	Description
State description: SimpleObjectDiagram	See 8.1.
Use case: DetermineAllInitiatives	See 8.2.
Use case: DetermineInitiativesOfProfile	See 8.3.
Use case: DetermineProfilesOfInitiative	See 8.4.

95

6 Description

96 The DMTF class adaptation diagram in Figure 1 shows all class usages (adaptations) defined in this
 profile, and relevant class adaptations from referenced profiles. Adaptation names are shown in
 97 parenthesis if they differ from the class names without schema prefix.



98 **Figure 1 – DMTF class adaptation diagram**

99 The RegisteredInitiative class adaptation is the central (and scoping) element of this profile; its instances
 represent management initiatives to which implementations conform.

100 If the InitiativeProfiles feature is implemented for an initiative, the profiles implemented in context of that
 initiative are represented by InitiativeProfile instances associated through ReferencedInitiativeProfile. The
 InitiativeProfile instances are implemented as part of the profile they represent.

101 Conformance to this profile is advertised using the Profile Registration profile (referenced as PRP); that is,
 via the RegisteredProfile instance.

102

7 Implementation

103

7.1 Features

104

7.1.1 Feature: InitiativeProfiles

Implementing this feature for an advertised management initiative provides support for representing the management profiles of that initiative.

105

The requirement level for this feature is optional.

106

This feature can be made available to clients at the granularity of RegisteredInitiative instances.

107

It can be concluded that the feature is available for a RegisteredInitiative instance if:

109

- The following OCL derivation constraint evaluates to a Boolean value of True.

110

OCL context: A RegisteredInitiative instance.

111

```
derive: self.ReferencedInitiativeProfile::Antecedent->size() > 0
```

112

Explanation:

There is at least one ReferencedInitiativeProfile instance referencing the RegisteredInitiative instance representing the advertised management initiative.

113

Otherwise, it can be concluded that the feature is not available.

114

7.2 Adaptations

115

7.2.1 Conventions

116

This profile defines operation requirements based on [DSP0223](#).

117

For adaptations of ordinary classes and of associations, the requirements for operations are defined in adaptation-specific subclauses of subclause 7.2.

118

For association traversal operation requirements that are specified only in the elements table of an adaptation (i.e., without operation-specific subclauses), the names of the association adaptations to be traversed are listed in the elements table.

119

The default initialization requirement level for property requirements is optional.

120

The default modification requirement level for property requirements is optional.

121

This profile repeats the effective values of certain Boolean qualifiers as part of property, method parameter, or method return value requirements. The following convention is established: If the name of a qualifier is listed, its effective value is True; if the qualifier name is not listed, its effective value is False. The convention is applied in the following cases:

122

- In: indicates that the parameter is an input parameter

123

- Out: indicates that the parameter is an output parameter

124

- Key: indicates that the property is a key (that is, its value is part of the instance path)

125

- Required: indicates that the element value shall be non-Null

126

- Null OK: indicates explicitly that the element value may be Null for mandatory, conditional or conditional exclusive properties. This information is not specified as a qualifier in the schema but as an indicator in the profile.

127 **7.2.2 Adaptation: RegisteredProfile: CIM_RegisteredProfile**

128 **7.2.2.1 General**

129 This adaptation models the advertisement of conformance to this profile.

130 Profiles derived from this profile that have a need to advertise conformance to the derived profile, should define an adaptation derived from PRP::RegisteredProfile for this purpose.

131 The implementation type of this adaptation is instantiated ordinary adaptation.

132 The requirement level for this adaptation is mandatory.

133 Table 5 identifies the element requirements for this adaptation.

134 **Table 5 – RegisteredProfile: Element requirements**

Element	Requirement	Description
Base adaptations		
PRP::RegisteredProfile	Mandatory	See PRP::RegisteredProfile.
Properties		
RegisteredName	Mandatory	Required, see 7.2.2.2.
RegisteredOrganization	Mandatory	Required, see 7.2.2.3.
RegisteredVersion	Mandatory	Required, see 7.2.2.4.

135 **7.2.2.2 Property: RegisteredName**

136 The presentation requirement level for this property is mandatory.

137 The implementation shall satisfy the following constraint for this property:

138 OCL constraint with context of a RegisteredProfile instance:

```
139 inv: self.RegisteredName = 'Management Initiative Registration'
```

140 **7.2.2.3 Property: RegisteredOrganization**

141 The presentation requirement level for this property is mandatory.

142 The implementation shall satisfy the following constraint for this property:

143 OCL constraint with context of a RegisteredProfile instance:

```
144 inv: self.RegisteredOrganization = 2 /* DMTF */
```

145 **7.2.2.4 Property: RegisteredVersion**

146 The presentation requirement level for this property is mandatory.

147 The implementation shall satisfy the following constraint for this property:

148 OCL constraint with context of a RegisteredProfile instance:

149

```
inv: self.RegisteredVersion = '1.0.0'
```

150 7.2.3 Adaptation: RegisteredInitiative: CIM_RegisteredSpecification

151 7.2.3.1 General

152 This adaptation models management initiatives to which this implementation conforms; each such initiative shall have an initiative specification describing it.

153 This adaptation shall be exposed in the interop namespace of the WBEM server that implements the initiative.

154 The implementation type of this adaptation is instantiated ordinary adaptation.

155 The requirement level for this adaptation is mandatory.

156 Table 6 identifies the element requirements for this adaptation.

157 **Table 6 – RegisteredInitiative: Element requirements**

Element	Requirement	Description
Properties		
InstanceID	Mandatory	Key, see schema definition.
SpecificationType	Mandatory	See 7.2.3.2.
RegisteredOrganization	Mandatory	Required, see 7.2.3.3.
RegisteredName	Mandatory	Required, see 7.2.3.4.
RegisteredVersion	Mandatory	Required, see 7.2.3.5.
AdvertiseTypes	Mandatory	Required, see schema definition.
AdvertiseTypeDescriptions	Mandatory	See schema definition.
Operations		
GetInstance()	Mandatory	See DSP0223 .
EnumerateInstances()	Mandatory	See DSP0223 .
EnumerateInstanceNames()	Mandatory	See DSP0223 .
Associators() for ReferencedInitiativeProfile	Conditional	See 7.2.3.6.
AssociatorNames() for ReferencedInitiativeProfile	Conditional	See 7.2.3.7.

158 7.2.3.2 Property: SpecificationType

159 The presentation requirement level for this property is mandatory.

160 The implementation shall satisfy the following constraint for this property:

161 OCL constraint with context of a RegisteredInitiative instance:

```
162 inv: self.SpecificationType = 3 /* Initiative Wrapper */
```

163 Explanation:

This property shall have a value of 3 (Initiative Wrapper), indicating that the instance represents an initiative specification.

164

7.2.3.3 Property: RegisteredOrganization

165 The presentation requirement level for this property is mandatory.

166 The value of this property shall be the organization owning the initiative specification of the initiative represented by an instance of this adaptation.

7.2.3.4 Property: RegisteredName

168 The presentation requirement level for this property is mandatory.

169 The value of this property shall be the name of the initiative as defined in the initiative specification of the initiative represented by an instance of this adaptation.

7.2.3.5 Property: RegisteredVersion

171 The presentation requirement level for this property is mandatory.

172 The value of this property shall be the version of the initiative specification of the initiative represented by an instance of this adaptation.

7.2.3.6 Operation: Associators() for ReferencedInitiativeProfile

174 For general requirements on the implementation of this operation, see [DSP0223](#).

175 The requirement level for this operation is conditional, with the following condition:

The InitiativeProfiles feature is implemented.

176 This operation requirement applies when traversing the following association adaptations:

- 177 • ReferencedInitiativeProfile

7.2.3.7 Operation: AssociatorNames() for ReferencedInitiativeProfile

179 For general requirements on the implementation of this operation, see [DSP0223](#).

180 The requirement level for this operation is conditional, with the following condition:

The InitiativeProfiles feature is implemented.

181 This operation requirement applies when traversing the following association adaptations:

- 182 • ReferencedInitiativeProfile

7.2.4 Adaptation: InitiativeProfile: CIM_RegisteredProfile

7.2.4.1 General

This adaptation models profiles to which an implementation conforms and that are referenced in the initiative specification of a management initiative.

185 The implementation type of this adaptation is instantiated ordinary adaptation.

186 The requirement level for this adaptation is conditional, with the following condition:

The InitiativeProfiles feature is implemented.

187 Table 7 identifies the element requirements for this adaptation.

188

Table 7 – InitiativeProfile: Element requirements

Element	Requirement	Description
Base adaptations		
InitiativePRP::RegisteredProfile	Mandatory	See InitiativePRP::RegisteredProfile.
Operations		
Associators() for ReferencedInitiativeProfile	Conditional	See 7.2.4.2.
AssociatorNames() for ReferencedInitiativeProfile	Conditional	See 7.2.4.3.

189 7.2.4.2 Operation: Associators() for ReferencedInitiativeProfile

190 For general requirements on the implementation of this operation, see [DSP0223](#).

191 The requirement level for this operation is conditional, with the following condition:

The InitiativeProfiles feature is implemented.

192 This operation requirement applies when traversing the following association adaptations:

- 193 • ReferencedInitiativeProfile

194 7.2.4.3 Operation: AssociatorNames() for ReferencedInitiativeProfile

195 For general requirements on the implementation of this operation, see [DSP0223](#).

196 The requirement level for this operation is conditional, with the following condition:

The InitiativeProfiles feature is implemented.

197 This operation requirement applies when traversing the following association adaptations:

- 198 • ReferencedInitiativeProfile

199 7.2.5 Adaptation: ReferencedInitiativeProfile: CIM_ReferencedSpecification

200 7.2.5.1 General

This adaptation models the relationship between management initiatives represented by RegisteredInitiative instances and the management profiles implemented in context of these initiatives that are represented by InitiativeProfile instances.

201 This adaptation shall be exposed in the interop namespace of the WBEM server that implements the initiative.

202 The implementation type of this adaptation is instantiated association adaptation.

203 The requirement level for this adaptation is conditional, with the following condition:

The InitiativeProfiles feature is implemented.

204 Table 8 identifies the element requirements for this adaptation.

Table 8 – ReferencedInitiativeProfile: Element requirements

Element	Requirement	Description
Properties		
Antecedent	Mandatory	Key, see 7.2.5.2.
Dependent	Mandatory	Key, see 7.2.5.3.

7.2.5.2 Property: Antecedent

207 The presentation requirement level for this property is mandatory.
 208 The implementation shall satisfy the following constraints for this reference property:
 209 • Referenced instances shall be of class adaptation InitiativeProfile.
 210 • The multiplicity of [0 .. *] defined in the schema is not further constrained.

7.2.5.3 Property: Dependent

212 The presentation requirement level for this property is mandatory.
 213 The implementation shall satisfy the following constraints for this reference property:
 214 • Referenced instances shall be of class adaptation RegisteredInitiative.
 215 • The multiplicity of [0 .. *] defined in the schema is not further constrained.

8 Use cases and state descriptions

8.1 State description: SimpleObjectDiagram

218 The object diagram in Figure 2 shows a conformant implementation of this profile, with one management
 initiative and two profiles advertised as conformant to the initiative, implementing the InitiativeProfiles
 feature.

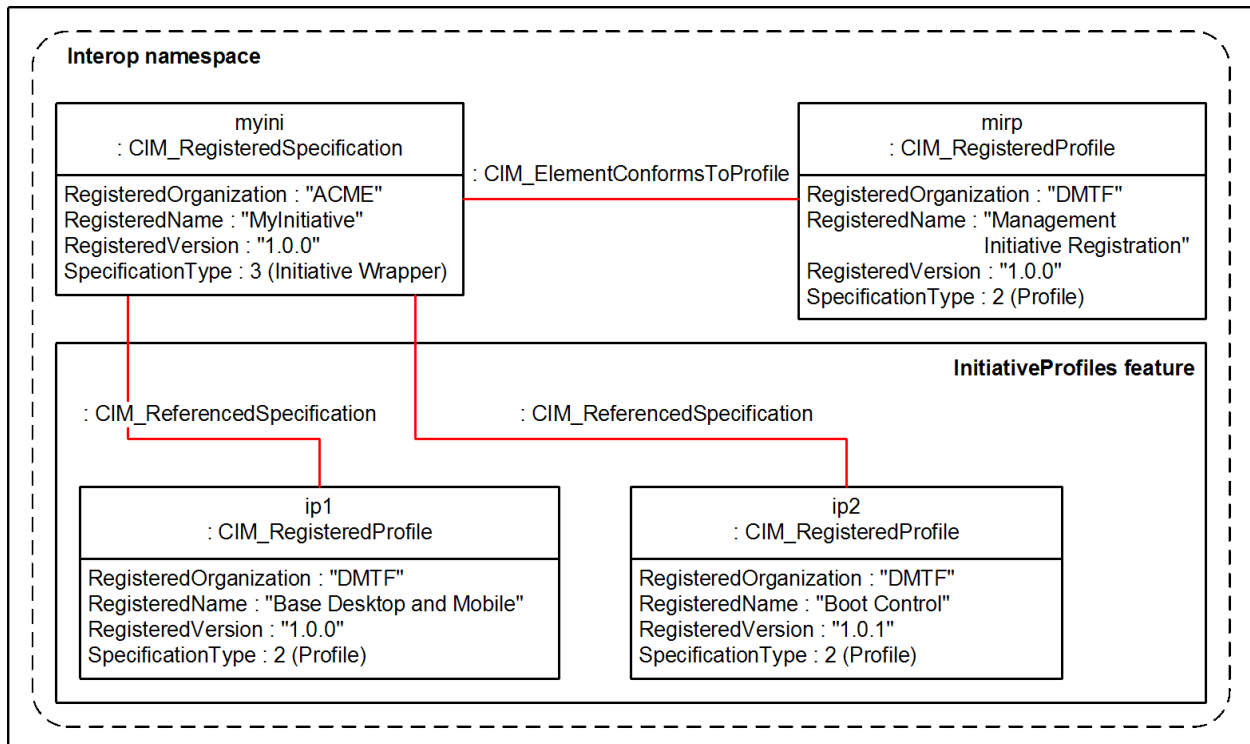


Figure 2 – Simple object diagram

220
 221 The *myini* instance represents that the implementation conforms to the "MyInitiative" management
 initiative, version 1.0.0.

The two profiles that have been implemented in context of that initiative are represented by the `ip1` and `ip2` instances. Because the InitiativeProfiles feature has been implemented, the `ip1` and `ip2` instances are associated with the `myini` instance via ReferencedInitiativeProfile association instances.

223 Conformance of the implementation to this profile is indicated by the `mirp` instance, using the mechanisms described in [DSP1033](#). Because this profile is an autonomous profile, the central and scoping path methodologies fall together and a client can always expect a `CIM_ElementConformsToProfile` association to exist between the central instances of `CIM_RegisteredSpecification` and the `mirp` instance representing this profile.

224 8.2 Use case: DetermineAllInitiatives

Determine all management initiatives to which the implementation conforms, and their versions.

225 This use case has the following preconditions:

- 227 • The interop namespace of the WBEM server is known.

228 The main flow for this use case consists of the following step:

- 230 1. Enumerate `CIM_RegisteredSpecification` instances in the interop namespace of the WBEM server, restricting the result set to instances where `SpecificationType = 3` (Initiative Wrapper).

231 The resulting instances conform to the RegisteredInitiative adaptation and represent all initiatives to which the implementation (on the WBEM server) conforms. The `RegisteredName` and `RegisteredVersion` properties of the returned `CIM_RegisteredSpecification` instances identify name and version of the management initiative.

232 Note that there may be initiatives implemented in the WBEM server for which this profile was not implemented. Such initiatives would not be represented in the result set of this use case.

233 8.3 Use case: DetermineInitiativesOfProfile

Determine to which management initiatives a given implemented profile belongs.

234 This use case has the following preconditions:

- 235 • The InitiativeProfiles feature is implemented for the initiatives in question.
- 236 • The `CIM_RegisteredProfile` instance representing the given implemented profile is known.

237 The main flow for this use case consists of the following step:

- 239 1. From the given `CIM_RegisteredProfile` instance, traverse the `CIM_ReferencedSpecification` association, restricting the associated instances to those of class `CIM_RegisteredSpecification` where `SpecificationType = 3` (Initiative Wrapper).

240 The resulting `CIM_RegisteredSpecification` instances conform to the RegisteredInitiative adaptation and represent the initiatives to which the given profile belongs.

241 Note that there may be initiatives to which the given profile belongs but for which this profile or the InitiativeProfiles feature was not implemented. Such initiatives would not be represented in the result set of this use case.

242 8.4 Use case: DetermineProfilesOfInitiative

Determine to which profiles of a given implemented initiative the implementation conforms.

243 This use case has the following preconditions:

- 244 • The InitiativeProfiles feature is implemented for the given initiative.

- The CIM_RegisteredSpecification instance representing the given initiative is known.

246 The main flow for this use case consists of the following step:

248 1. From the given CIM_RegisteredSpecification instance, traverse the
CIM_ReferencedSpecification association, restricting the associated instances to those of class
CIM_RegisteredProfile.

249 The resulting CIM_RegisteredProfile instances conform to the InitiativeProfile adaptation and
represent the profiles that advertise conformance to the given initiative.

250 Note that there may be profiles that belong to the given initiative but for which the
InitiativeProfiles feature was not implemented. Such profiles would not be part of the result set of
this use case.

251

ANNEX A (informative)

Change log

252

Table 9 – Change log

Version	Date	Description
1.0.0b	2013-04-04	Released as Work in Progress
1.0.0c	2013-08-08	Released as Work in Progress