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# **Management Initiative Registration Profile**

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## Foreword

This document was prepared by the DMTF Architecture Working Group

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27

## Introduction

28 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.

29 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.

### 30 **Document conventions**

#### 31 **Typographical conventions**

32 The following typographical conventions are used in this document:

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

#### 36 **OCL usage conventions**

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

38 OCL statements are in `monospaced font`.

39

# Management Initiative Registration Profile

40

## 1 Scope

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

## 2 Normative references

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

44 DMTF DSP0004, *CIM Infrastructure Specification 2.7*,  
[http://www.dmtf.org/standards/published\\_documents/DSP0004\\_2.7.pdf](http://www.dmtf.org/standards/published_documents/DSP0004_2.7.pdf)

45 DMTF DSP0223, *Generic Operations 1.0*,  
[http://www.dmtf.org/standards/published\\_documents/DSP0223\\_1.0.pdf](http://www.dmtf.org/standards/published_documents/DSP0223_1.0.pdf)

46 DMTF DSP1001, *Management Profile Specification Usage Guide 1.1*,  
[http://www.dmtf.org/standards/published\\_documents/DSP1001\\_1.1.pdf](http://www.dmtf.org/standards/published_documents/DSP1001_1.1.pdf)

47 DMTF DSP1033, *Profile Registration Profile 1.1*,  
[http://www.dmtf.org/standards/published\\_documents/DSP1033\\_1.1.pdf](http://www.dmtf.org/standards/published_documents/DSP1033_1.1.pdf)

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

49 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>

50

## 3 Terms and definitions

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

### 3.1 General

53 The terms "shall" ("required"), "shall not", "should" ("recommended"), "should not" ("not recommended"),  
54 "may", "need not" ("not required"), "can" and "cannot" in this document are to be interpreted as described  
55 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.

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

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.

56 The following additional terms are defined in this document.

### 57 **3.2**

#### 58 **initiative, management initiative**

59 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.

### 60 **3.3**

#### 61 **initiative specification**

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

### 63 **3.4**

#### 64 **implementation namespace**

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

### 65 **3.5**

#### 66 **interop namespace**

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

### 67 **3.6**

#### 68 **profile**

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

69

## **4 Symbols and abbreviated terms**

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

71 This document does not define any additional abbreviations.

72

## **5 Synopsis**

73 **Profile name:** Management Initiative Registration

74 **Version:** 1.0.0

75 **Organization:** DMTF

76 **Abstract:** No

77 **Profile type:** Autonomous

78 **Schema:** DMTF CIM 2.37

79 **Central class adaptation:** RegisteredInitiative

80 **Scoping class adaptation:** RegisteredInitiative

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

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

83 **Table 1 – Profile references**

Profile reference name	Profile name	Organization	Version	Relationship	Description
PRP	<a href="#">Profile Registration</a>	DMTF	1.1	Mandatory	Used to advertise conformance of the implementation to this profile.
InitiativePRP	<a href="#">Profile Registration</a>	DMTF	1.1	Mandatory	Used to advertise conformance of the implementation to the management profiles of advertised management initiatives.

84 Table 2 identifies the features defined in this profile.

85 **Table 2 – Features**

Feature	Requirement	Description
InitiativeProfiles	Optional	See 7.1.1.

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

87 **Table 3 – Adaptations**

Adaptation	Elements	Requirement	Description
<b>Instantiated, embedded and abstract adaptations</b>			
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.
<b>Indications and exceptions</b>			
This profile does not define any such adaptations.			

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

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

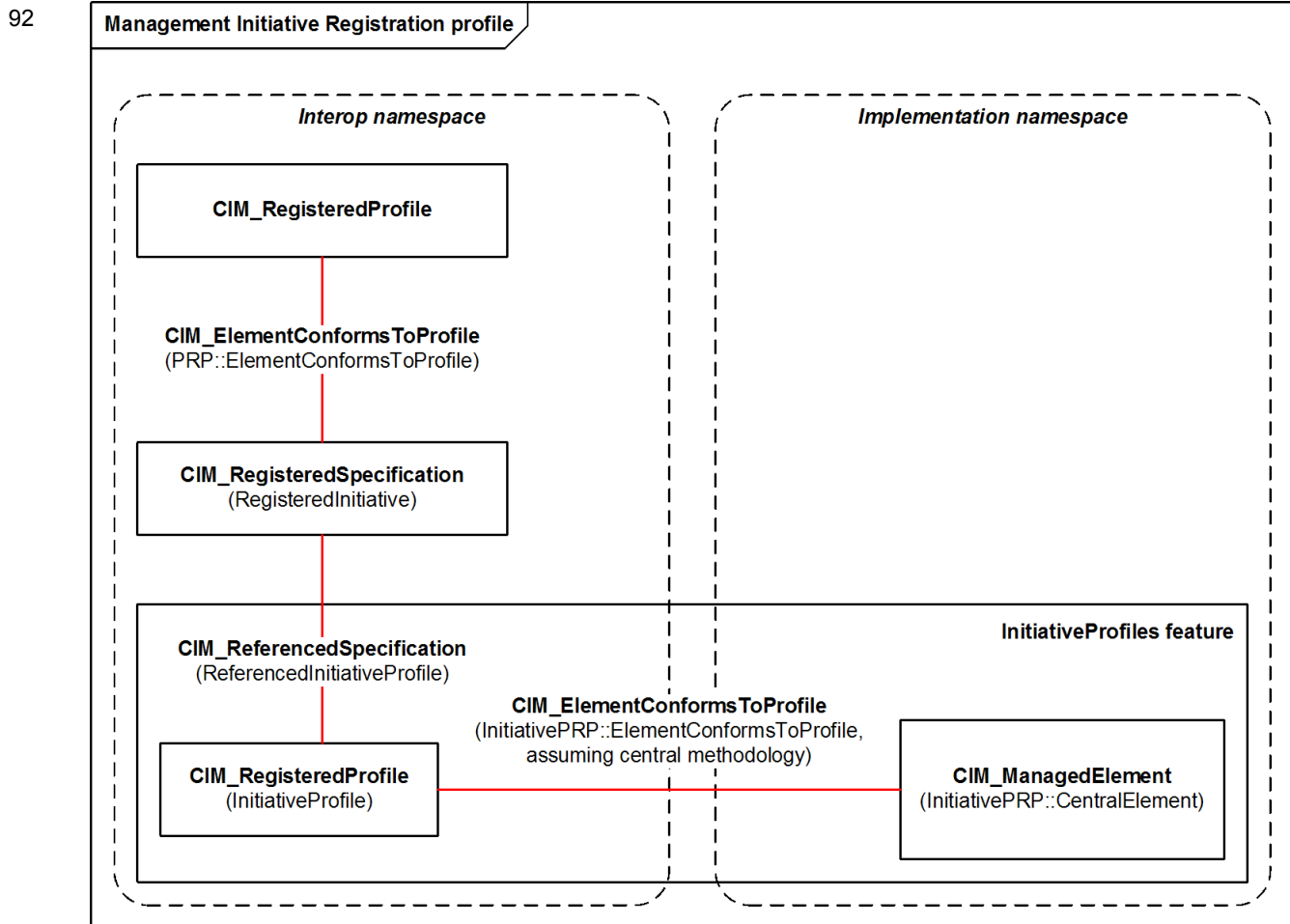
Name	Description
State description: SimpleObjectDiagram	See 8.1.
Use case: DetermineAllInitiatives	See 8.2.
Use case: DetermineInitiativesOfProfile	See 8.3.
Use case: DetermineProfilesOfInitiative	See 8.4.

90



## 6 Description

91 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 parenthesis if they differ from the class names without schema prefix.



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

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

95 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.

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

97

## 7 Implementation

98

### 7.1 Features

99

#### 7.1.1 Feature: InitiativeProfiles

100 **Requirement level:** Optional

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

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

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

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

105 OCL context: A RegisteredInitiative instance.

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

107 Explanation:

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

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

109

### 7.2 Adaptations

110

#### 7.2.1 Conventions

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

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

113 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.

114 The default initialization requirement level for property requirements is optional.

115 The default modification requirement level for property requirements is optional.

116 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:

- 117 • In: indicates that the parameter is an input parameter
- 118 • Out: indicates that the parameter is an output parameter
- 119 • Key: indicates that the property is a key (that is, its value is part of the instance path)
- 120 • Required: indicates that the element value shall be non-Null
- 121 • 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.

122

**7.2.2 Adaptation: RegisteredProfile: CIM\_RegisteredProfile**

123 **7.2.2.1 General**

124 **Adaptation type:** Ordinary class

125 **Implementation type:** Instantiated

126 **Requirement level:** Mandatory

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

128 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.

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

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

130 **7.2.2.2 Property: RegisteredName**

131 **Requirement level:** Mandatory

132 **Constraint:**

133 OCL constraint in the context of a RegisteredProfile instance:

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

135 **7.2.2.3 Property: RegisteredOrganization**

136 **Requirement level:** Mandatory

137 **Constraint:**

138 OCL constraint in the context of a RegisteredProfile instance:

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

140 **7.2.2.4 Property: RegisteredVersion**

141 **Requirement level:** Mandatory

142 **Constraint:**

143 OCL constraint in the context of a RegisteredProfile instance:

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

145

### 7.2.3 Adaptation: RegisteredInitiative: CIM\_RegisteredSpecification

146

#### 7.2.3.1 General

147

**Adaptation type:** Ordinary class

148

**Implementation type:** Instantiated

149

**Requirement level:** Mandatory

150

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

151

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

152

**Table 6 – RegisteredInitiative: Element requirements**

Element	Requirement	Description
<b>Properties</b>		
InstanceID	Mandatory	Key
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
AdvertiseTypeDescriptions	Conditional	See 7.2.3.6
<b>Operations</b>		
GetInstance( )	Mandatory	
EnumerateInstances( )	Mandatory	
EnumerateInstanceNames( )	Mandatory	
Associators( )	Mandatory	
AssociatorNames( )	Mandatory	
References( )	Mandatory	
ReferenceNames( )	Mandatory	

153

#### 7.2.3.2 Property: SpecificationType

154

**Requirement level:** Mandatory

155

**Constraint:**

156

OCL constraint in the context of a RegisteredInitiative instance:

157

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

158

Explanation:

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

159

**7.2.3.3 Property: RegisteredOrganization**

160 **Requirement level:** Mandatory

161 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**

163 **Requirement level:** Mandatory

164 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**

166 **Requirement level:** Mandatory

167 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 Property: AdvertiseTypeDescriptions**

169 **Requirement level:** Conditional

**Condition:**

171 The following OCL statement evaluates to true in the context of a RegisteredInitiative instance:

```
172 self.AdvertiseTypes->exists( value | value = 1 /* Other */ )
```

**Constraint:**

175 OCL constraint in the context of a RegisteredInitiative instance:

```
176 inv: if self.AdvertiseTypes->size() > 0
    then Sequence { 0 .. self.AdvertiseTypes->size() - 1 }->
    forAll( i |
        self.AdvertiseTypes.at(i) = 1 /* Other */
        implies self.AdvertiseTypeDescriptions.at(i) != null
    )
```

**Explanation:**

178 For each array entry of AdvertiseTypes that has a value of 1 (Other), the corresponding array entry of AdvertiseTypeDescriptions shall be non-Null.

179 Note that this constraint leaves the value of array entries of AdvertiseTypeDescriptions undefined, including the possibility of being Null or not present (after any non-Null array entries). As a result, if no array entry of AdvertiseTypes has a value of 1 (Other), the AdvertiseTypeDescriptions property is entirely undefined, including the possibility of it being Null.

**7.2.4 Adaptation: InitiativeProfile: CIM\_RegisteredProfile**

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

181 **Adaptation type:** Ordinary class

182 **Implementation type:** Instantiated

**Requirement level:** Conditional

184 **Condition:**

The InitiativeProfiles feature is implemented.

186 **Table 7 – InitiativeProfile: Element requirements**

Element	Requirement	Description
<b>Base adaptations</b>		
InitiativePRP::RegisteredProfile	Mandatory	See InitiativePRP::RegisteredProfile.
<b>Operations</b>		
Associators( )	Mandatory	
AssociatorNames( )	Mandatory	
References( )	Mandatory	
ReferenceNames( )	Mandatory	

187 **7.2.5 Adaptation: ReferencedInitiativeProfile: CIM\_ReferencedSpecification**

188 **7.2.5.1 General**

189 **Adaptation type:** Association class

190 **Implementation type:** Instantiated

191 **Requirement level:** Conditional

192 **Condition:**

The InitiativeProfiles feature is implemented.

193 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.

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

195 **Table 8 – ReferencedInitiativeProfile: Element requirements**

Element	Requirement	Description
<b>Properties</b>		
Antecedent	Mandatory	Key, see 7.2.5.2
Dependent	Mandatory	Key, see 7.2.5.3
<b>Operations</b>		
GetInstance( )	Mandatory	
EnumerateInstances( )	Mandatory	
EnumerateInstanceNames( )	Mandatory	

196 **7.2.5.2 Property: Antecedent**

197 **Requirement level:** Mandatory

198 **Reference kind:** REF-typed

199

**Constraint:**

200 Referenced instances shall be of class adaptation InitiativeProfile.  
 201 The multiplicity of this association end is 0 .. \*

**7.2.5.3 Property: Dependent**

202 **Requirement level:** Mandatory

203 **Reference kind:** REF-typed

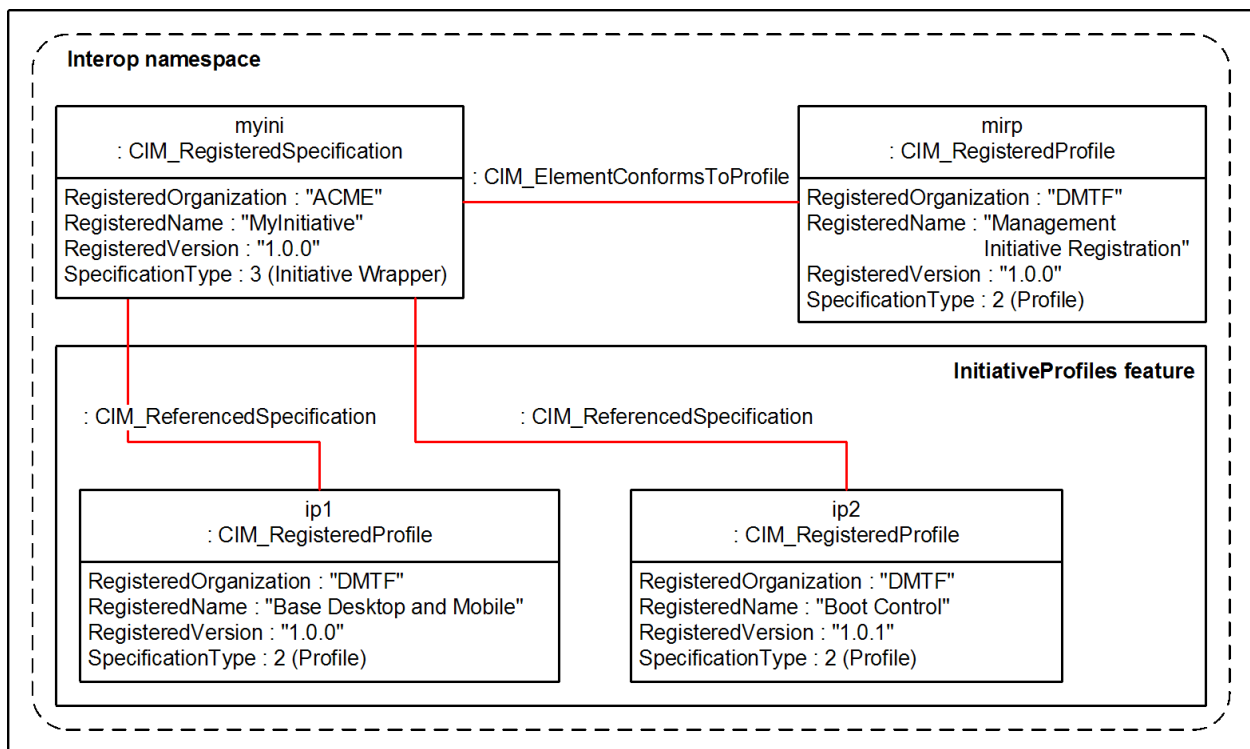
**Constraint:**

205 Referenced instances shall be of class adaptation RegisteredInitiative.  
 206 The multiplicity of this association end is 0 .. \*

**8 Use cases and state descriptions**

**8.1 State description: SimpleObjectDiagram**

208 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**

210 The `myini` instance represents that the implementation conforms to the "MyInitiative" management  
 211 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.

213 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.

214 An initiative such as SMI-S, SMASH, DASH, or VMAN would be represented such that the `myini` instance in Figure 2 represents that initiative, showing its owning organization, name and version. If the InitiativeProfiles feature has been implemented, the set of profiles implemented under that initiative would be represented similarly to the `ip1` and `ip2` instances.

## 215 **8.2 Use case: DetermineAllInitiatives**

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

216 This use case has the following preconditions:

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

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

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

222 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.

223 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.

## 224 **8.3 Use case: DetermineInitiativesOfProfile**

Determine to which management initiatives a given implemented profile belongs.

225 This use case has the following preconditions:

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

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

- 230 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).

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

232 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.

233



#### 8.4 Use case: DetermineProfilesOfInitiative

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

234 This use case has the following preconditions:

- 235 • The InitiativeProfiles feature is implemented for the given initiative.
- 236 • The CIM\_RegisteredSpecification instance representing the given initiative is known.

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

- 239 1. From the given CIM\_RegisteredSpecification instance, traverse the CIM\_ReferencedSpecification association, restricting the associated instances to those of class CIM\_RegisteredProfile.

240 The resulting CIM\_RegisteredProfile instances conform to the InitiativeProfile adaptation and represent the profiles that advertise conformance to the given initiative.

241 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.

242

**ANNEX A**  
(informative)**Change log**

243

Version	Date	Description
1.0.0	2014-05-22	