

## WG13 Issues - CIM Issues #5066

### Address issues with the Names classes construct introduced as of CIM15

09/14/2021 03:48 PM - Herbert Falk

<b>Status:</b>	Closed	
<b>Priority:</b>	Normal	
<b>Target version:</b>		
<b>Author/Contact Info:</b>	Todd Viegut	<b>Standard(s):</b>
<b>Base Release:</b>	CIM17	<b>Version:</b>
<b>Solution to be Applied To:</b>	CIM18	<b>Clause:</b>
<b>Solution Version:</b>	CIM18v00	<b>Sub-Clause:</b>
<b>Solution Applied By:</b>	Todd Viegut	<b>Paragraph:</b>
<b>Completion Date:</b>	08/06/2021	<b>Table:</b>
<b>CIM Keywords:</b>		<b>Originally Closed in Version:</b> CIM18
<b>Breaking Change:</b>	Yes	<b>Origination Date:</b> 08/06/2021
<b>Breaking Change Description:</b>	NameTypeAuthority class was removed and association role ends renamed.	<b>Origination ID:</b> 13_320
<b>CIM Impacted Groups:</b>	WG13	<b>Originally Assigned To:</b>
<b>Requestor:</b>		

#### Description

There are issues with the existing Names class constructs that we have agreed to address in CIM18.

#### Proposed Solution

Proposed changes:

1. Add a new association i.e. **Name (0..n) --> IdentifiedObject (0..1)** to handle alternative identifiers distinct and different from alternate names (i.e using the existing association).
2. Add new class **ObjectType** and corresponding association **ObjectType (0..1) --> IdentifiedObject (0..n)**
  - Add a type attribute to the class
3. Add new class **NamingAuthority** to replace **NameTypeAuthority** (which should be deleted).
  - Add **description** , **mRID** , and **name** attributes to the class
4. Add the following attributes to existing classes:
  - Add **language** and **mRID** attributes to the **Name** class
  - Add **mRID** attribute to the **NameType** class

#### Decision

Upon UCA UML Joint team review we have approved the changes proposed.

#### Release Notes

The following changes were applied to CIM18 to address insufficiency in the existing Names construct in the 61970 package:

- Add a new association i.e. **Name (0..n) --> IdentifiedObject (0..1)** to handle alternative identifiers distinct and different from alternate names (i.e using the existing associatoin).
- Added a new class **ObjectType** to the Core package
  1. Added attribute **type** to the **ObjectType** class
  2. Added a new association **ObjectType (0..1) --> IdentifiedObject (0..n)**
- Added a new class **NamingAuthority** to replace **NameTypeAuthority** which was also deleted (a breaking change).
  1. Add **description** , **mRID** , and **name** attributes to this new class
  2. Added a new association **NameType (0..n) --> NamingAuthority (0..1)**
  3. Added a new association **Name (0..n) --> NamingAuthority (0..1)**
- Added the following attributes to existing classes:
  1. Added **language** and **mRID** attributes to the existing **Name** class

2. Added **mRID** attribute to the **NameType** class

- Added a new association between the existing **Name** and **IdentifiedObject** classes with the following role end names and cardinality:
  1. **AlternativeIdentifier (0..n)** --> **UniquelyIdentifiedObject (0..1)**
- Renamed the role end name for the existing **Name** --> **IdentifiedObject** associations. Changed it from its plural form (i.e. Names) to its singular form. This to conform with formal CIM modeling guidelines

## History

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### #1 - 10/19/2021 02:09 PM - Todd Viegut

- Subject changed from *There are issues with the existing Names class constructs t to There are issues with the existing Names class constructs*
- Proposed Solution updated

### #2 - 10/21/2021 11:13 AM - Todd Viegut

- Solution Version changed from *CIM18* to *CIM18v00*

### #3 - 10/21/2021 11:17 AM - Todd Viegut

- Breaking Change changed from *No* to *Yes*
- Breaking Change Description set to *Classes were removed and association role ends renamed.*
- Decision updated

### #4 - 10/21/2021 11:17 AM - Todd Viegut

- Decision updated

### #6 - 10/21/2021 11:50 AM - Todd Viegut

- Breaking Change Description changed from *Classes were removed and association role ends renamed.* to *NameTypeAuthority class was removed and association role ends renamed.*

### #7 - 10/21/2021 12:01 PM - Todd Viegut

- Subject changed from *There are issues with the existing Names class constructs* to *Address issues with the Names classes construct introduced as of CIM15*

### #8 - 10/21/2021 12:03 PM - Todd Viegut

- Solution to be Applied To changed from *61970cim18* to *CIM18*

### #9 - 10/21/2021 02:32 PM - Todd Viegut

- Solution Applied By changed from *tviegut* to *Todd Viegut*

### #10 - 10/21/2021 02:43 PM - Todd Viegut

- Proposed Solution updated

### #11 - 10/22/2021 10:19 AM - Todd Viegut

- Release Notes updated

### #12 - 10/22/2021 10:28 AM - Todd Viegut

- Proposed Solution updated