

WG13 Issues - CIM Issues #5049

Inconsistent naming for p,q,r,x and others

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

Status:	Closed	
Priority:	Normal	
Target version:		
Author/Contact Info:	Todd Viegut	Standard(s):
Base Release:	CIM17	Version:
Solution to be Applied To:	CIM18v10	Clause:
Solution Version:	CIM18v10	Sub-Clause:
Solution Applied By:	Chavdar Ivanov	Paragraph:
Completion Date:	02/04/2024	Table:
CIM Keywords:		Originally Closed in Version:
Breaking Change:	No	Origination Date: 01/14/2020
Breaking Change Description:		Origination ID: 13_303
CIM Impacted Groups:	WG13	Originally Assigned To:
Requestor:		
Description		
Per CDV country comments CH_78, SE6, SE75 & NO71 for 301 Ed7:		
Within the DCGround class the attribute 'r' (i.e. resistance to ground.) should be renamed to resistance so as to be consistent in other areas of the CIM such as in DCLineSegment.resistance.		
There are two schools on attribute naming.		
Short alias names relating to quantity names is commonly used, e.g.		
<ul style="list-style-type: none">• P - active power. Q - reactive power. r - resistance. x - reactance. etc.		
Verbose names describing the quantity:		
<ul style="list-style-type: none">. activePower. reactivePower. resistance. reactance. etc		
Both are used but the alias naming is more common for p, q, r, x etc.		
Having different attribute names for the same quantity increase complexity in implementations as more names must be handled for the same quantity, e.g. EnergySource.activePower and RotatingMachine.p		
Proposed Solution		
Proposal to rename to resistance was discussed for inclusion in CIM18.		
Note that these may be breaking changes and thus why deferred to CIM 18.		
It was strongly suggested that we add to our modeling guidelines guide that the same name should be used for attributes that represent the same information across all CIM classes.		

Decision

14-Jan-2020 Decision to apply the proposed resolution when revving to CIM18

Oslo, 14 Jun 2023

Apply the changes following the decision in issue #6202

Release Notes

This issue is closed and no changes were applied following the final decision in ticket 6202.

History

#1 - 05/09/2022 10:39 AM - Yang Feng

- Subject changed from *Per CDV country comments CH_78, SE6, SE75 & NO71 for 301 Ed to Inconsistent naming for p,q,r,x and others*
- Proposed Solution updated

#2 - 02/11/2023 03:58 AM - Chavdar Ivanov

- Status changed from *New* to *Open*
- Solution to be Applied To changed from *61970cim18* to *CIM18*
- Breaking Change changed from *No* to *Yes*
- Breaking Change Description set to *Because attributes are renamed*

Question: do we only fix DCGround.r or in all places where we have .r, .p, .q? For example in the converters in teh C package we have p and q. SvPowerFlow and many other classes....

#3 - 02/11/2023 03:58 AM - Chavdar Ivanov

- Status changed from *Open* to *Review*

#4 - 06/14/2023 08:26 AM - Chavdar Ivanov

- Decision updated

#5 - 02/04/2024 01:58 AM - Chavdar Ivanov

- Status changed from *Review* to *Closed*
- Solution to be Applied To changed from *CIM18* to *CIM18v10*
- Solution Version set to *CIM18v10*
- Solution Applied By set to *Chavdar Ivanov*
- Completion Date set to *02/04/2024*
- Breaking Change changed from *Yes* to *No*
- Breaking Change Description deleted (*Because attributes are renamed*)
- Release Notes updated