

WG13 Issues - CIM Issues #4107

Description PhaseTapChangerLinear The definition of PhaseTa

09/14/2021 03:44 PM - Herbert Falk

Status: Closed	
Priority: Normal	
Target version:	
Author/Contact Info: ENTSO-E N12-3	Standard(s):
Base Release: 61970cim16v21	Version:
Solution to be Applied To: 61970cim16v22	Clause:
Solution Version: CIM16	Sub-Clause:
Solution Applied By: LOO	Paragraph:
Completion Date: 06/01/2013	Table:
CIM Keywords:	Originally Closed in Version: CIM16
Breaking Change: No	Origination Date: 05/29/2013
Breaking Change Description:	Origination ID: 13_170
CIM Impacted Groups: WG13	Originally Assigned To:
Requestor:	
Description Description PhaseTapChangerLinear The definition of PhaseTapChangerLinear is not very clear: o UML states: "Describes a tap changer with a linear relation between the tap step and the phase angle difference across the transformer. This is a mathematical model that is an approximation of a real phase tap changer." o In my understanding and based on what me do today, PTCSymmetrical and PTCLinear are quite the same thing o We can keep the two classes of course since each one uses a different formula. but the result is the same o The definition of PTCLinear does not say anything about the magnitude variation per tap: What one would logically do is to take stepPhaseShiftIncrement and multiply by the number of taps to obtain the angle. this is what the definition says. And for the magnitude it would stay constant equal to 1. i.e. exactly like for PTCSymmetrical magnitude. o In my opinion, the following sentence should then be added to PTCLinear definition: "The secondary side voltage magnitude is the same as at the primary side"	
Proposed Solution Proposed text: The phase angle is computed as stepPhaseShiftIncrement times the tap position. The secondary side voltage magnitude is the same as at the primary side.	
Decision Updated 2013-06-01/LOO	