IEC 61850 User Feedback Task Force - Feature #7204

New DO for measuring the circulating current between two tap changer position

05/06/2025 03:46 AM - Christophe Ghafari

Status:	New	Start date:	05/06/2025
Priority:	Normal	Due date:	
Assignee:		% Done:	0%
Category:		Estimated time:	0.00 hour
Target version:			
ID:		To discuss in WG10:	No
Source:		Short Proposal:	
TF Unique ID:		Standard(s):	IEC 61850-7-4
WG10 Proposal:		Needs More Information:	No
Estimated Completion:		Assigned TF:	None

Description

Meeting:

During the operation of on load tap changers, there will be an instant of time when the rotary switch will connect two different contacts at the same time yielding a circulating current to flow. This current can be measured by a sensor and be monitored for predictive maintenance (to estimate when changing the rotary switch is necessary). The commutation time should be added as well.

Proposal descriptions

Two new DO in LN SLTC:

Discuss in Upcoming No

- One for circulating current
- One for commutation time

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