IEC TC57 WG10 Future Work - WG10 Future Work #6714

Improve the models used for power regulation

02/20/2024 11:04 AM - Michael Haecker

Status:	New	**Start date:**	02/20/2024
Priority:	Normal	**Due date:**	
Assignee:	WG10 Future Work Administrators	**% Done:**	0%
Category:		**Estimated time:**	0.00 hour
Target version:			
Source:	IEC PAS 61850-90-3	**Standard(s):**	
TF Unique ID:		**Needs More Information:**	No
WG10 Proposal:		**Assigned TF:**	61850-90-3- conditioned maintenance
Discuss in Upcoming Meeting:	Yes	**Target edition:**	Not assigned
Short Proposal:	Review of the models		

Description

LN class ATCC offers a big model of an automation to control a transformer tap changer. It is tailored towards voltage regulation, but does not address (not limited to)
- regulation on the principle of reactive power
- regulation on the principle of active power
- regulation of parallel transformers (cf. IEEE C57.153).

Separate from the ATCC model, individual LN classes exists (AVCO, ARCO e.g.) dealing with regulation principles, but without the data for controlling a given primary equipment. These LN classes can be used for regulating any equipment (transformers, capacitor banks, Petersen coils, resistors e.g.), but they are not as complete as the ATCC model.

The models should be completed and possibly harmonized to an overall modelling concept of power regulation, considering the compatibility aspect for existing implementations.

Proposal descriptions

The models should be completed and possibly harmonized, taking into account an compatibility aspect for implementations existing in the market.

IEC/TR 61850-90-14 and DER applications to be considered.