IEC 61850 User Feedback Task Force - Support #579

Voltage protection: Overvoltage protection - 3ph operate

02/03/2021 02:07 PM - Herbert Falk

Status:	Resolved	**Start date:**	02/16/2021
Priority:	Normal	**Due date:**	08/16/2021
Assignee:		**% Done:**	0%
Category:	Standard extension required	**Estimated time:**	0.00 hour
Target version:			
ID:	51	**To discuss in WG10:**	No
Source:	ENTSO-E	**Short Proposal:**	ENTSO-E to submit additional information.
TF Unique ID:	51 # ENTSO-E	**Standard(s):**	IEC 61850-7-500
WG10 Proposal:		**Needs More Information:**	No
Estimated Completion:		**Assigned TF:**	
Discuss in Upcoming Meeting:	No		

Description
Voltage protection: Overvoltage protection - 3ph operate

Proposal descriptions
To be examined in 7-500 TF.

Related issues:			
Copied to 61850-7-5 and 61850-7-500 - IEC61850-7-5 #6386: Voltage protection:...	**New**	**02/16/2021**	**08/16/2021**

History

#1 - 02/15/2021 12:50 PM - Vladan Cvejic

- Category set to Standard extension required

- Status changed from New to In Progress

- Standard(s) set to IEC 61850-7-4, 7-5

- Discuss in Upcoming Meeting set to No

Checking done.

#2 - 02/16/2021 04:05 AM - Vladan Cvejic

- Status changed from In Progress to Triage

- Short Proposal set to ENTSO-E to submit additional information.

- To discuss in WG10 set to No

ENTSO-E to submit additional information.

#3 - 02/16/2021 04:11 AM - Vladan Cvejic

- Due date set to 08/16/2021

- Start date set to 02/16/2021

#4 - 02/13/2022 02:17 PM - Tom Berry

I think the requirement is to produce Op and Tr signals when there is an overvoltage on all 3 phases = an AND function.
As standard, the PTUV.Op is an OR function - at least one phase is overer-voltage

Proposal : add a setting
NumPhsStr ENG Number of phases to start detection: values 1,2,3. If the DO is not present detection starts when one phase is over the threshold voltage

See issue [#580](#)

#5 - 03/01/2022 08:42 AM - Vladan Cvejic

Opinion of the TFUF group is that this is not correct statement. Because this implies that there will be no Operation/Trip in case that there is single or two phase pickup/start.
Semantic of Op.general or Tr.general will be dealt in TF 7-500.
User is requiring that there is single attribute 3ph op/tr.

#6 - 03/01/2022 09:09 AM - Vladan Cvejic

- Status changed from Triage to Resolved

- Proposal descriptions updated

- Standard(s) changed from IEC 61850-7-4, 7-5 to IEC 61850-7-4, 7-500

Tom Berry wrote in [#note-4](#):

> I think the requirement is to produce Op and Tr signals when there is an overvoltage on all 3 phases = an AND function.
> As standard, the PTUV.Op is an OR function - at least one phase is overer-voltage
>
> Proposal : add a setting
> NumPhsStr ENG Number of phases to start detection: values 1,2,3. If the DO is not present detection starts when one phase is over the threshold voltage
> See issue [#580](#)

#7 - 05/09/2023 09:04 AM - Carlos Rodriguez del Castillo

- Standard(s) changed from IEC 61850-7-4, 7-500 to IEC 61850-7-500

- Needs More Information set to No

#8 - 06/14/2023 08:20 AM - Vladan Cvejic

- Copied to IEC61850-7-5 #6386: Voltage protection: Overvoltage protection - 3ph operate added