

## IEC 61850 User Feedback Task Force - Support #647

### Single phase and multi phase trip indication for the autorecloser

03/09/2021 09:16 AM - Carlos Rodriguez del Castillo

<b>Status:</b>	Resolved	<b>Start date:</b>	03/09/2021
<b>Priority:</b>	Normal	<b>Due date:</b>	09/09/2021
<b>Assignee:</b>	Carlos Rodriguez del Castillo	<b>% Done:</b>	0%
<b>Category:</b>	Standard clarification required	<b>Estimated time:</b>	0.00 hour
<b>Target version:</b>		<b>To discuss in WG10:</b>	No
<b>ID:</b>	57	<b>Short Proposal:</b>	Both option 3 and 4 seems feasible. The issue will be sent to 7-5/500 task force.
<b>Source:</b>	ENTSO-E	<b>Standard(s):</b>	IEC 61850-7-500
<b>TF Unique ID:</b>	57 # ENTSO-E	<b>Needs More Information:</b>	No
<b>WG10 Proposal:</b>		<b>Assigned TF:</b>	
<b>Estimated Completion:</b>			
<b>Discuss in Upcoming Meeting:</b>	No		
<b>Description</b> Autorecloser function needs to know if the trip is single-phase or three-phase, and different actions are taken. "general" DA means any trip, and "phsX" is activated per-phase, so how to know when there is a multi-phase or single-phase indication? The autorecloser function is not able to define, based on the protection and trip signals, if the fault is single or multiphase. The autorecloser function needs a specific activation of the single phase or multiphase sequence.			
<b>Proposal descriptions</b> Option 1 does not solve all the situations (for example, trip logic under autorecloser out of service). Option 2 does not solve all the situations since you need to know external information to modify the trip/operation behaviour. The way to know if there is a three-phase trip is and AND of phsA, phsB, phsC. Question to 7-5/7-500: Why the standard does not define bi-phsa or three-phase faults?			
<b>Related issues:</b>			
Related to IEC 61850 User Feedback Task Force - Support #6605: Identification...		<b>Resolved</b>	<b>11/21/2023</b>
Copied to 61850-7-5 and 61850-7-500 - IEC61850-7-5 #6383: Single phase and mu...		<b>New</b>	<b>03/09/2021 09/09/2021</b>

#### History

##### #1 - 04/12/2021 09:00 AM - Carlos Rodriguez del Castillo

- Subject changed from Single phase and multi phase trip indication to Single phase and multi phase trip indication for the autorecloser
- Description updated
- Standard(s) set to IEC 61850-7-4

##### #2 - 04/12/2021 09:54 AM - Carlos Rodriguez del Castillo

- File Usecase RREC v0.2.pdf added

##### #3 - 04/13/2021 09:31 AM - Carlos Rodriguez del Castillo

- Status changed from New to Resolved
- Private changed from Yes to No
- Short Proposal set to Both option 3 and 4 seems feasible. The issue will be sent to 7-5/500 task force.
- Standard(s) changed from IEC 61850-7-4 to IEC 61850-7-5, IEC61850-7-500
- Discuss in Upcoming Meeting changed from Yes to No
- Proposal descriptions updated

**#4 - 04/13/2021 09:42 AM - Carlos Rodriguez del Castillo**

- Proposal descriptions updated

**#5 - 05/09/2023 09:28 AM - Carlos Rodriguez del Castillo**

- Standard(s) changed from IEC 61850-7-5, IEC61850-7-500 to IEC 61850-7-500

- Needs More Information set to Yes

**#6 - 05/09/2023 09:32 AM - Carlos Rodriguez del Castillo**

- Needs More Information changed from Yes to No

**#7 - 06/14/2023 08:19 AM - Vladan Cvejic**

- Copied to IEC61850-7-5 #6383: Single phase and multi phase trip indication for the autorecloser added

**#8 - 11/21/2023 08:14 AM - Vladan Cvejic**

- Related to Support #6605: Identification of three phase trip with ACT DO added

**Files**

Usecase RREC v0.2.pdf	249 KB	04/12/2021	Carlos Rodriguez del Castillo
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