

Autorecloser sequence is inconsistent

02/10/2025 10:06 AM - Keith Gray

<b>Status:</b>	New	<b>Start date:</b>	02/10/2025
<b>Priority:</b>	Normal	<b>Due date:</b>	
<b>Assignee:</b>		<b>% Done:</b>	0%
<b>Category:</b>			
<b>Target version:</b>			
<b>Source:</b>	2024 IOP	<b>TF 7-5 Project document:</b>	IEC 61850-7-500
<b>Category:</b>	Not yet categorized	<b>Related TISSUE:</b>	
<b>Description</b> FBPCU trips, RREC.AutoRecSt=TripFromProtection, then RREC.AutoRecSt=FaultDisappeared and XCBR.Pos=open (105ms), then RREC.AutoRecSt=WaitToComplete and OpCls=true (2ms later), RREC.AutoRecSt=FaultDisappeared (2ms later), then RREC.AutoRecSt=WaitToComplete again and Tr=false (110ms later), then CBclosed OpCls=false and Pos is closed (15ms) and RREC.AutoRecSt=Sucessfull (less than 1ms).			

History

#2 - 02/10/2025 11:30 AM - Michael Haecker

- TF 7-5 Project document IEC 61850-7-500 added
- TF 7-5 Project document deleted (-)

Issue

Autoreclosure state machine and associated states

Implementations in existing devices do not perform exactly according to the state machine. Although there is a statement in IEC/TR 61850-7-500 "[LN RREC] describes the states the autoreclosure function may reach, ...", there is the expectation that devices would have to perform in accordance with the state machine.

Proposal

IEC/TR 61850-7-500 needs to state that this is a suggested state machine or make it mandatory when it becomes a TS.

As per UCAlug IEC 61850 2024 IOP problem report #6961  
<https://redmine.ucaiug.org/issues/6961>

Files

clipboard-202502071356-sbvf4.png	51.5 KB	02/07/2025	Christophe CAMELIS
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