IEC 61850 User Feedback Task Force - Feature #7202

Include more DO in LN PSCH to send signals

05/05/2025 07:37 AM - Christophe Ghafari

Status:	New	**Start date:**	05/05/2025
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
Discuss in Upcoming Meeting:	Yes		

Description

In the DO available for teleprotection in LN PSCH, there is only blocking, permission and trip.
The following information also exist and need to be added:
- disable of recloser cycle
- closing order of circuit breaker
- transmission of a generic boolean information

Use cases:
PSCH groups applications sending signals to other line ends.
Disable of recloser cycle : an application identifies a fault on an underground cable. Reclosing should not happen in this case. The most consistent approach would be to add a DO TxDisable, RxDisable to PSCH.
Closing order of circuit breaker : in some cases, substation level automatons send closing orders to the other line end. The most consistent approach would be to add a DO TxCls, RxCls to PSCH.
Generic information : in some cases, substation level automatons send generic boolean information to the other line end, e.g. position of cb. The most consistent approach would be to add a DO TxOnOff, RxOnOff to PSCH.