61850-7-5 and 61850-7-500 - IEC61850-7-5 #7058

Clarifications about 'PTRC.Op' and 'PTRC.Tr'

11/20/2024 01:55 AM - Michael Haecker

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Description

IEC 61850-7-4 Ed2.1 Subclause 6.11.1:
...
« The protection functions provide (if applicable) the data object Op (Operate) without direction information. The data object Op is conditioned by LN PTRC resulting in the data object Tr ("real" trip), that in between every protection LN and the circuit breaker node XCBR shall be a LN PTRC. »
...

from Michael Haecker:
Apart from the content of the statement, it is part of an IS, it is written in the preface of a normative chapter, it is using “shall”.
--> The content is normative, kind of mandatory.
From the type of statement “modelling remarks” it would fit into Part 7-500 (but this is not an IS).

Content (the English of the text should be improved):
- A PTRC LN instance shall be used to condition the Operate signals to ‘PTRC.Tr’.
- A PTRC LN instance shall be used to interface between a protection elements and an XCBR instance.

From me:
The Operate signal cannot be used to control the trip output, for it is a “T” (transient) data. A trip output shall be energized not shorter than 50 ms.

@TF 7-500: Any actions to be taken?