[Improvement #610: Mapping of another phases system description to the generic phases phsA, phsB, phsC - IEC 61850 User Feedback Task Force - UCAIug Issue Tracking System](https://redmine.ucaiug.org/issues/610)

RTE needs to identify the mapping between the phases in the IEC 61850 model (phsA, phsB, phsC) and the primary HV phases of the substation (utility naming).

The table below gives an example of mapping that could be done.

|  |  |  |  |
| --- | --- | --- | --- |
| **Poles/Phases**  **of HV equipment** | **Referencing in the specifications including information per phase** | **Instance number of functions modelled with an LN per phase** | **Instance prefix of functions modelled with an LN per phase as per the standard 61869-9** |
| 0, 11 | phsA | 1 | I *nn p* TCTR *n*  or  U *nn p* TVTR *n* |
| 4, 3 | phsB | 2 |
| 8, 7 | phsC | 3 |
| / | neutral  or cable shield-to-ground | 4  (MU / SAMU only) |

This mapping is used for configuration of SAMU and phasors, HMI and disturbance recorder.

Important point to notice:

* This information is **common to all DO of a given voltage level**.
* It is **not necessary to expose this in runtime**, but it should be contained in the SCL file as configuration information.

Proposed action to add generic information in substation>voltage level section is relevant.