Hello all,

Hope you are doing well.

I will start with introducing myself, Bilal Amjad, Technical Lead for ENA’s CIM IOP working group (WG), currently facilitating coordination between WG and DigSILENT on the development of LTDS CIM exchange tool.

The purpose of this email is to bring your attention towards some of the technical issues and queries DigSILENT identified during the development of LTDS compliant CIM import/export tool for PowerFactory. DigSILENT is seeking your export advice and response the quires/issues as listed in the email below from Andre (cc’d) – Technical Sales & Marketing Lead at DigSILENT. I also cc’d Emil, leading the development on CIM exchange tool and Rose, an Ofgem representative for information.

Please provide your response to their quires. If need, I am happy to arrange a session between us to discuss the issues.

Looking forward to hearing from you.

Thanks,

Bilal

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Dear Bilal,

please find as follows some findings in the LTDS specification that need some clarification:

**1 - Reverse flow capability of transformers**

Is this a fixed property of a transformers or a result of a load flow calculation for a particular scenario? In general, transformers are able to support both load flow directions. Is this a market or protection based restriction?

**2 - Operational limits for switches**

If a switch is the limiting component in a branch, operational limits based on dates shall be provided. Is acceptable, if the bay provides the limit?

**3 - Overlapping of date in OperationalLimitSet**

In the screenshots provided in the LTDS specification the TO date of a former period and the FROM date of the next period are the same. It’s unclear to which period the particular day belongs to. Please provide clarification on this.

**4 - Equivalent branch elements for network reduction**

The reduction of a network is a common approach to avoid providing confidential details of a network to external stakeholders. In CGMES, two classes are available; the *EquivalentInjection* for single port devices or generation or a network impedance in general and the *EquivalentBranch* for two port devices. The *EquivalentBranch* is important to anonymize the network between substations. This class is not used in LTDS. Is it expected that other classes shall be used for this use case? If not, it would be useful to add this to the LTDS specification.

**5 - Unbalanced short-circuit calculation**

Is it intended to provide information to run unbalanced short-circuit calculations with LTDS data? Actually the data is a little bit inconsistent (earthing method: yes, but earthing impedance: no)

If this is clear to you, just let us know. Otherwise it would be great if you can report this to Ofgem.

Best regards,

André