

IEC 61850 User Feedback Task Force - Improvement #441

Limitations of one to one mapping between LNode and LN

02/03/2021 02:07 PM - Herbert Falk

Status:	Resolved	Start date:	
Priority:	High	Due date:	
Category:	Standard clarification required	% Done:	0%
Target version:		Estimated time:	0.00 hour
ID:	4	Spent time:	0.00 hour
Source:	Vattenfall	Discuss in Upcoming Meeting:	No
TF Unique ID:	4 # Vattenfall	To discuss in WG10:	No
WG10 Proposal:	to be addressed to the 61850-6-100 (need a realistic date)6-100 states that n:1 relationship between LNodes and LNs is allowed and supported. No need to change the SCL scheme for this.	Short Proposal:	Discussed with TF SCL function modelling.
Estimated Completion:	Ed 1	Standard(s):	IEC 61850-6-100

Description

The Standard requires a one to one mapping between LNode and LN. This creates serious limitations. Examples:

1. Let us assume vendor makes use of GGIO and represent a 32 bit BI/O Interface Card in the IED with the LN BIO32GGIO1. Now in my Substation section I define two Functions with Fun1/BIOGGIO1, Fun2/BIOGGIO2. Fun1 and Fun2 are two very different functions, but I have only one BIO card in my IED. Now I would like to map the LNode Fun1/BIOGGIO1 to LN BIO32GGIO1 and Fun2/BIOGGIO2 also to LN BIO32GGIO1. Naturally they use distinct Data Attributes.

2. It is easy to find a similar example for MMXU. Power Measurement and Current/ Voltage Measurement can be used in different Functions in the Single Line, but are using the same LN MMXU.

History

#1 - 02/03/2021 03:56 PM - Herbert Falk

- Priority changed from Normal to High

#2 - 02/11/2021 06:36 AM - Carlos Rodriguez del Castillo

- Tracker changed from Bug to Improvement

- Subject changed from The Standard requires a one to one mapping between LNode and LN. This creates serious limitations. Examples:

1. Let us assume ve to Limitations of one to one mapping between LNode and LN

- Status changed from New to In Progress

- Standard(s) set to IEC 61850-6-100

- WG10 Proposal changed from to be addressed to the 61850-6-100 (need a realistic date)

6-100 states that n:1 relationship between LNodes and LNs is allowed and supported. No need to change the SCL scheme for this.

to to be addressed to the 61850-6-100 (need a realistic date)6-100 states that n:1 relationship between LNodes and LNs is allowed and supported. No need to change the SCL scheme for this.

- Discuss in Upcoming Meeting set to Yes

#3 - 02/11/2021 06:36 AM - Carlos Rodriguez del Castillo

Checking onde

#4 - 03/15/2022 09:38 AM - Carlos Rodriguez del Castillo

- Status changed from In Progress to Resolved

- Estimated Completion changed from Ed 3 to Ed 1

- Discuss in Upcoming Meeting changed from Yes to No

- To discuss in WG10 set to No

6-100 does not cover the issue completely. Relation LNode - LN is 1:1, but what it is possible is to map remaining DOs not covered by mapped LN to DOs of other LN.

#5 - 03/15/2022 11:08 AM - Carlos Rodriguez del Castillo

- File *Captura.PNG* added

Files

Captura.PNG	28.4 KB	03/15/2022	Carlos Rodriguez del Castillo
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