IEC 61850 User Feedback Task Force - Improvement #6248

There are controls between IEDs for automatic control functions, we need to be able to represent those controls in SCL (for configuration in SCT, data flow documentation...)

02/03/2023 04:11 AM - Aurelie Dehouck

Status:	Resolved	**Start date:**	02/03/2023
Priority:	Normal	**Due date:**	
Category:		**% Done:**	0%
Target version:		**Estimated time:**	0.00 hour
ID:		**To discuss in WG10:**	No
Source:	EDF	**Short Proposal:**	
TF Unique ID:		**Standard(s):**	IEC 61850-6
WG10 Proposal:		**Needs More Information:**	No
Estimated Completion:	Solution to be included in Amendment 2.2	**Assigned TF:**	None
Discuss in Upcoming Meeting:	No		

Description

Use cases detailled in the attached presentation

There are controls between IEDs for automatic control functions, for example:

- 90-6 : The IED Controller performing the AATS (Automatic transfer between two source) needs to control XCBRs in other IEDs
- 7-4 : The IED Controller performing ARCO (Reactive power control) needs to control XSWIs in another IED
- 7-4 : The IED Controller performing ATCC (Automatic tap changer controller) needs to control YLTC in another IED

We need to be able to represent controls in SCL, to be able to:

- Specify controls that an IED (performing automatic control functions) needs to perform for its logic
- Configure such controls of an IED, with a top/down approach, in the SCT, during the configuration process. Usefull also during the maintenance of the substation
- Document the data flows between IEDs, including the controls
- Document the binding of the controls to the internal addresses of the IED

Proposal descriptions

In SCL, add elements equivalent to Inputs/Extref for Controls

History

#1 - 02/13/2023 12:37 PM - Carlos Rodriguez del Castillo

- Status changed from New to Resolved

- WG10 Proposal set to Create a task force to propose a solution to the issue

- Estimated Completion set to Solution to be included in Amendment 2.2 or edition 3, depending on Task Force result

- To discuss in WG10 changed from Yes to No

- Short Proposal set to Te

WG10 agreement:
- The issue is accepted: a solution is needed
- A Task Force will be created to start thinking on a possible solution
- Depending on the result of the task force:
+ The solution could be addressed in amendment 2.2 if it is not too complex / long
+ The solution could be addressed in edition 3 of the standard

#2 - 02/13/2023 12:37 PM - Carlos Rodriguez del Castillo

- Short Proposal deleted (Te)

#3 - 05/09/2023 09:30 AM - Carlos Rodriguez del Castillo

- Discuss in Upcoming Meeting changed from No to Yes

#4 - 05/23/2023 08:53 AM - Carlos Rodriguez del Castillo

Task force has been created. Ongoing work. Not still sure if will be addressed in 2.2 or edition 3.

#5 - 06/05/2023 01:58 AM - Carlos Rodriguez del Castillo

- Discuss in Upcoming Meeting changed from Yes to No

#6 - 06/05/2023 09:47 AM - Aurelie Dehouck

We will discuss this point and present a first draft of SCL evolutions during next WG10 meeting (during TF 7-5 / 7-500)
The proposition is posted on IEC collaboration platForm, here :
https://collaborate.iec.ch/#/pages/workspaces/137211/documents/189918/details/764417

#7 - 06/14/2023 08:33 AM - Vladan Cvejic

- WG10 Proposal deleted (Create a task force to propose a solution to the issue)

- Estimated Completion changed from Solution to be included in Amendment 2.2 or edition 3, depending on Task Force result to Solution to be included in Amendment 2.2

- Assigned TF None added

According to a WG10 meeting in Regensburg (14.06.2023) - this issue will be resolved in Amd2 of Part 6.
Link to presentation: https://collaborate.iec.ch/#/pages/workspaces/137211/documents/189918/details/764417?onlyWithPreview=false&fileId=764417

Files

SCL configuration of MMS controls.pptx	2.4 MB	02/03/2023	Aurelie Dehouck