



Diary of a working group meeting

I guess, many of you have already heard about **IEC 61850** and as well you may know a lot about the technical content and scope of IEC 61850. As a Convenor of the IEC working group that is responsible for the development and maintenance of IEC 61850, I will regularly address in this column topics related to IEC 61850 that are of interest for our readers.

IT IS SUNDAY, SEPTEMBER 9.

I am in the plane from Zurich to Montreal and I prepare for the WG10 meeting that starts tomorrow in Quebec. What happened since we last met in April in Seoul? CDs (committee drafts) for Edition 2 of major parts of IEC 61850 have been circulated. The task force for the substation to substation communication has been active as well. They prepared a first working group draft of the report to be published. The meeting that is ahead of us will be during the whole week and has a tight schedule. The goal is to finalize the draft report on substation to substation communication and to solve the comments on the CDs of Edition 2 so that the Editors can finalize the CDV. These documents shall be circulated before the end of the year. In parallel, there will be a meeting of WG18 dealing with the use of IEC 61850 for hydro power plants and a task force will discuss redundancy requirements and solutions.

Monday – WG18 started its meeting already in the morning. They plan the next steps. The standard IEC 61850-7-410 with the object models for hydro power plants has been approved. As a

next step, the WG will prepare a technical report IEC 61850-7-510 that describes the use of the logical nodes defined in 61850-7-410 to model functions of a hydro power plant. WG10 starts after lunch. We start with the discussion of the draft report IEC 61850-90-1, Use of IEC 61850 for communication between substations. A typical application is the communication used between two distance protection relays to implement the different teleprotection schemes. We have controversial discussions concerning the use cases belonging to the scope. We might need another report that deals with system integrity protection schemes.

Tuesday – The review of the draft report continues. Communication architecture and object models are evaluated; a report from a project with field experience in using GOOSE over wide area communication is provided. A discussion about time stamps and time synchronization can not be missed – that is a favourite topic of some WG members. We plan to circulate a draft of the report for comments before the end of the year. In the afternoon we start with the discussion of Edition 2 of

61850. CDs have been circulated for the parts 6, 7-2, 7-3, 7-4, 8-1 and 9-2. The modification for part 5 and a draft of part 7-1 are presented. We decide that a new part 7-500 describing how to use the logical nodes to model substation applications will be prepared.

Wednesday – We spend most of Wednesday with heated discussions concerning part 7-4. There are still items where we did not yet reach consensus. LN mode is one of these. Condition monitoring is a hot topic where we have different opinions. I will discuss that topic in one of the next issues. At the end of the day, we cool down discussing part 7-2.

Thursday – we finalize the discussion about Edition 2 drafts. In part 6, we included a first step towards integrating security – with the new version of the configuration language it will be possible to define the views for different access roles. The CDV of Edition 2 shall be published in December 2007. Next meetings are scheduled in Denmark, France and Argentina. The task force on redundancy reports on the requirements they agreed upon and on possible solutions they discussed.