

Network Innovation Competition Full Submission

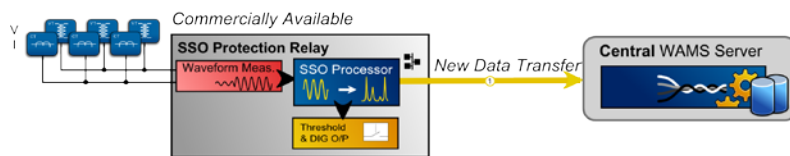
Supplementary Answer Form

Tick if this answer is Confidential: ☐

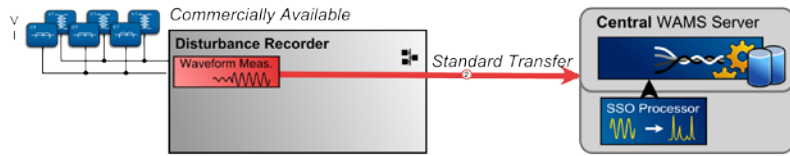
Tick if this answer has been provided verbally: ☐

Project code:	SPT EN 01	Question Number	26
Question date	03/09/2013	Answer date	05/09/2013
Submission section question relates to	Section 2.5		
Topic	Technical Description of project		
Question	Please explain the extent to which new hardware will be developed as part of the SSO monitoring activities.		
Notes on question			
Answer	<p>There are two options for SSO monitoring: one is continuous approach, and the other is discontinuous approach (as shown in the diagram below).</p> <p>The approach of <u>"Discontinuous SSO"</u> uses standard disturbance recorders and standard file transfer on request (e.g. COMTRADE) to extend the geographic coverage and event analysis capability. The Discontinuous SSO approach <u>requires</u> no modification to field hardware or software – only the <u>Central WAMS software development</u> is required.</p> <p>In VISOR, the focus is on the <u>"Continuous SSO"</u> process. It is the intention to make full use of the existing SSO monitoring device which can only provide local detection. In our previous responses we have highlighted the availability of potential candidates such as the ERLphase S-Pro device.</p>		

Continuous SSO



Discontinuous SSO



- ① SSO Data Protocol, IEC
e.g. IEEE C37.118, DNP3, etc
- ② DFR Protocol, vendor-specific
Remote triggering & retrieval
of Disturbance Records

In that case, the existing hardware will require the enhancement that the derived information (from the existing local SSO analysis) is made available through a standard communications protocol such as DNP3.0.

Attachments

Verbal
Clarifications
(Consultants
)