

P1711.3

Submitter Email: preusscm@bv.com

Type of Project: New IEEE Standard

PAR Request Date: 02-May-2013

PAR Approval Date: 14-Jun-2013

PAR Expiration Date: 31-Dec-2017

Status: PAR for a New IEEE Standard

1.1 Project Number: P1711.3

1.2 Type of Document: Standard

1.3 Life Cycle: Full Use

2.1 Title: Standard for Secure SCADA Communications Protocol (SSCP)

3.1 Working Group: SSCP Working Group C17 (PE/SUB/WGC17)

Contact Information for Working Group Chair

Name: Mark Hadley

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Contact Information for Working Group Vice-Chair

None

3.2 Sponsoring Society and Committee: IEEE Power and Energy Society/Substations (PE/SUB)

Contact Information for Sponsor Chair

Name: Michael Dood

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4.1 Type of Ballot: Individual

4.2 Expected Date of submission of draft to the IEEE-SA for Initial Sponsor Ballot: 10/2014

4.3 Projected Completion Date for Submittal to RevCom: 05/2015

5.1 Approximate number of people expected to be actively involved in the development of this project: 6

5.2 Scope: This standard defines the Secure SCADA Communications Protocol (SSCP), a cryptographic protocol to provide integrity, and optional confidentiality, for cyber security of substation serial links communications without broadcast message support and without any time requirements. It does not address specific applications or hardware implementations and is independent of the underlying communications protocol.

5.3 Is the completion of this standard dependent upon the completion of another standard: No

5.4 Purpose: This document will not include a purpose clause.

5.5 Need for the Project: Industry is not served by having competing standards or approaches to solving similar technical problems. Both the Substation Serial Protection Protocol (SSPP) and SSCP are designed to secure serial SCADA communication. Adding the SSCP to 1711 is the first step to converging the two approaches and ensures industry does not have to choose between standards-based and proprietary solutions.

5.6 Stakeholders for the Standard: Stakeholders include electric utilities, utility vendors, Battelle Memorial Institute, and other critical infrastructures who need to secure serial communication links.

Intellectual Property

6.1.a. Is the Sponsor aware of any copyright permissions needed for this project?: No

6.1.b. Is the Sponsor aware of possible registration activity related to this project?: No

7.1 Are there other standards or projects with a similar scope?: No

7.2 Joint Development

Is it the intent to develop this document jointly with another organization?: No

8.1 Additional Explanatory Notes (Item Number and Explanation): 2.1 & 5.2: SCADA stands for Supervisory Control and Data Acquisition.