

P61850-9-3

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Type of Project: New IEEE Standard

PAR Request Date: 23-Apr-2015

PAR Approval Date: 11-Jun-2015

PAR Expiration Date: 31-Dec-2019

Status: PAR for a New IEEE Standard

1.1 Project Number: P61850-9-3

1.2 Type of Document: Standard

1.3 Life Cycle: Full Use

2.1 Title: Communication Networks and Systems for Power Utility Automation - Part 9-3: Precision Time Protocol Profile for Power Utility Automation

3.1 Working Group: IEEE 1588 Profile for Protection Applications (PE/PSR/C37.238_WG)

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3.2 Sponsoring Society and Committee: IEEE Power and Energy Society/Power System Relaying (PE/PSR)

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3.3 Joint Sponsor: IEEE Power and Energy Society/Substations (PE/SUB)

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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: 06/2015

4.3 Projected Completion Date for Submittal to RevCom: 02/2016

5.1 Approximate number of people expected to be actively involved in the development of this project: 60

5.2 Scope: This standard specifies a precision time protocol (PTP)

profile of IEC 61588:2009 applicable to power utility automation that

allows complying with the highest synchronization classes of IEC 61850-5 and IEC 61869-9.

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: After first implementations there were comments brought forward by IEC TC57 WG10 and others that address

errors, updates and corrections needed. A single common specification for PTP profile Level 1 that is jointly developed by IEEE PSRC H24/SubC7 and IEC TC57 WG10 is necessary to provide interoperability for the devices in electrical power industry. Having a single Standard document developed in a dual logo project with IEC will save the industry from facing conflicting approaches.

5.6 Stakeholders for the Standard: Stakeholders include those interested in accurately-synchronized power system measurements, including:

1. Utilities
2. Regulatory agencies, i.e. NERC, FERC, et. al.
3. Independent systems operators
4. Manufacturers of substation equipment

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?: Yes

Organization: International Electrotechnical Commission (IEC)

Technical Committee Name: Power systems management and associated information exchange

Technical Committee Number: TC57

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8.1 Additional Explanatory Notes (Item Number and Explanation): Full titles of the standards listed in 5.2 scope are below:

IEC 61588-2009 IEEE Standard for a precision clock synchronization protocol for networked measurement and control systems

IEC 61850-5 Communication networks and systems for power utility automation - Part 5: Communication requirements for functions and device models

IEC 61869-9 Instrument Transformers - Part 9: Digital Interface for Instrument Transformers