

P2664

Submitter Email: kemartin@ieee.org
Type of Project: New IEEE Standard
PAR Request Date: 26-Jun-2018
PAR Approval Date: 27-Sep-2018
PAR Expiration Date: 31-Dec-2022
Status: PAR for a New IEEE Standard
Project Record: P2664

1.1 Project Number: P2664
1.2 Type of Document: Standard
1.3 Life Cycle: Full Use

2.1 Title: Standard for Streaming Telemetry Transport Protocol

3.1 Working Group: PSCC P10 IEEE Standard for Streaming Telemetry Transport Protocol (PE/PSCC/PSCC P10)
Contact Information for Working Group Chair

Name: Kenneth Martin
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Contact Information for Working Group Vice-Chair
None

3.2 Sponsoring Society and Committee: IEEE Power and Energy Society/Power System Communications and Cybersecurity (PE/PSCC)
Contact Information for Sponsor Chair

Name: Michael Dood
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Name: Edgar Cenzone
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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: 01/2022

4.3 Projected Completion Date for Submittal to RevCom

Note: Usual minimum time between initial sponsor ballot and submission to Revcom is 6 months.: 10/2022

5.1 Approximate number of people expected to be actively involved in the development of this project: 12

5.2 Scope: This standard defines a protocol with built-in security and lossless data compression options for efficient transport of streaming power system data over Internet protocol (IP) communication systems. It specifies data and control channels and uses a publish-subscribe architecture for controlled signal-level data access.

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

5.4 Purpose: The purpose for this standard is to provide a streaming data protocol meeting the specific requirements of power systems which include reliability, security, scalability, bandwidth management, and flexible configuration. Existing protocols do not address all of these requirements. This protocol is intended to supplement or replace existing protocols used for synchrophasor data.

5.5 Need for the Project: Existing protocols used for power system streaming applications are not well suited for large data sets. Shortcomings include: message fragmentation that is left to the underlying protocol which can result in excessive data loss or poor bandwidth utilization; lack of support for on-line subscription for specific measurement values; lack of built-in security options; and options that do not fully support the needs of emerging applications. As power systems increase real-time streaming data exchanges to support operation and analysis applications by different classes of users, a scalable protocol that addresses these communication requirements is needed.

5.6 Stakeholders for the Standard: Equipment vendors, electric utilities, reliability coordinators, system integrators, universities, software designers

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?: Yes

If Yes please explain: The IEEE Standard for Synchrophasor Data Transfer for Power Systems also addresses streaming data but specifically lacks the features needed for large data sets and other emerging requirements like built-in security.

and answer the following

Sponsor Organization: PES PSCC

Project/Standard Number: C37.118.2

Project/Standard Date: 01-Jan-2011

Project/Standard Title: IEEE Standard for Synchrophasor Data Transfer for Power Systems

7.2 Joint Development

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

8.1 Additional Explanatory Notes: The working group P10 has already been established but does not show up on the list.

Some of these questions, like 7.5, were not pre-prepared for, so the answers may need to be changed depending on sponsor preferences.

PSCC may have their own standard series for the standard number, so this is left blank.