



## IEEE P1159.3 PQDIF Task Force Meeting

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Garden Grove, California, USA

# Meeting Overview

- Meeting Information and Introductions
- Status of IEEE P1159.3 with IEEE RevCom and IEEE NesCom
- Review of IEEE P1159.3/D18 Ballot Results
- Resolution of IEEE P1159.3/D18 Ballot Responses
- Next Steps and Next Meeting

## Participants, Patents, and Duty to Inform

- All participants in this meeting have certain obligations under the IEEE-SA Patent Policy.
  - Participants [Note: Quoted text excerpted from IEEE-SA Standards Board Bylaws subclause 6.2]:
    - “Shall inform the IEEE (or cause the IEEE to be informed)” of the identity of each “holder of any potential Essential Patent Claims of which they are personally aware” if the claims are owned or controlled by the participant or the entity the participant is from, employed by, or otherwise represents
      - “Personal awareness” means that the participant “is personally aware that the holder may have a potential Essential Patent Claim,” even if the participant is not personally aware of the specific patents or patent claims
    - “Should inform the IEEE (or cause the IEEE to be informed)” of the identity of “any other holders of such potential Essential Patent Claims” (that is, third parties that are not affiliated with the participant, with the participant’s employer, or with anyone else that the participant is from or otherwise represents)
  - The above does not apply if the patent claim is already the subject of an Accepted Letter of Assurance that applies to the proposed standard(s) under consideration by this group
  - Early identification of holders of potential Essential Patent Claims is strongly encouraged
  - No duty to perform a patent search



## Call for Potentially Essential Patents

- If anyone in this meeting is personally aware of the holder of any patent claims that are potentially essential to implementation of the proposed standard(s) under consideration by this group and that are not already the subject of an Accepted Letter of Assurance (LOA):
  - Either speak up now, or
  - Provide the chair of this group with the identity of the holder(s) of any and all such claims as soon as possible, or
  - Cause an LOA to be submitted



## Patent Related Links

- All participants should be familiar with their obligations under the IEEE-SA Policies & Procedures for standards development.
- Patent Policy is stated in these sources:
  - IEEE-SA Standards Boards Bylaw
  - <http://standards.ieee.org/develop/policies/bylaws/sect6-7.html#6>
  - IEEE-SA Standards Board Operations Manual
    - <http://standards.ieee.org/develop/policies/opman/sect6.html#6.3>
  - Material about the patent policy is available at
    - <http://standards.ieee.org/about/sasb/patcom/materials.html>

If you have questions, contact the IEEE-SA Standards Board Patent Committee Administrator at [patcom@ieee.org](mailto:patcom@ieee.org) or visit <http://standards.ieee.org/about/sasb/patcom/index.html>

This slide set is available at <https://development.standards.ieee.org/myproject/Public/mytools/mob/slideset>.



## Other Guidelines for IEEE WG Meetings

- All IEEE-SA standards meetings shall be conducted in compliance with all applicable laws, including antitrust and competition laws.
  - Do not discuss the interpretation, validity, or essentiality of patents/patent claims.
  - Do not discuss specific license rates, terms, or conditions.
    - Relative costs, including licensing costs of essential patent claims, of different technical approaches may be discussed in standards development meetings.
      - Technical considerations remain primary focus
  - Do not discuss or engage in the fixing of product prices, allocation of customers, or division of sales markets.
  - Do not discuss the status or substance of ongoing or threatened litigation.
  - Do not be silent if inappropriate topics are discussed ... do formally object.
- See IEEE-SA Standards Board Operations Manual, clause 5.3.10 and “Promoting Competition and Innovation: What You Need to Know about the IEEE Standards Association’s Antitrust and Competition Policy” for more details.



# Introductions

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# IEEE P1159.3 Task Force

## IEEE Power & Energy Society

- Transmission & Distribution Committee
  - Power Quality Subcommittee
    - <http://grouper.ieee.org/groups/td/pq/>
    - P1159.3 PQDIF Task Force
      - <http://grouper.ieee.org/groups/1159/3>
      - Chair: Dan Sabin
        - [d.sabin@ieee.org](mailto:d.sabin@ieee.org)
      - Secretary: Joe Grappé
        - [joseph.grappe@duke-energy.com](mailto:joseph.grappe@duke-energy.com)
      - Technical Editor: Kevin Kittredge
        - [kevin@electrotek.com](mailto:kevin@electrotek.com)

# P1159.3 Revision Title and Objectives Project

## Title

Recommended Practice for Power Quality Data Interchange Format (PQDIF)

## Objectives

1. To complete editorial changes and corrections to the 2003 edition of IEEE Std. 1159.3
2. To add new ID values for existing PQDIF tags
3. To add new tags and ID values
4. To add new quantity types
5. To add an annex on the representation of PQDIF in XML
6. To add an annex on PQDIF and its relationship to IEC 61850
7. To add an annex on PQDIF and its relationship to IEEE C37.111 COMTRADE

## Deadline for Active PAR

December 2019

# Status of IEEE P1159.3 with IEEE RevCom and IEEE NesCom

- IEEE New Standards Committee (NesCom)
  - We were granted a one-year extension to complete the revision of IEEE 1159.3 on 19 October 2018.
- IEEE Review Committee (RevCom)
  - We are on the agenda for 2019 January 25 with Draft 19 of IEEE P1159.3.
- If RevCom approves Draft 19, then the final step would be final editorial changes that would not require balloting.

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# Review of IEEE P1159.3/D18 Ballot Results

## Response Rate

- This ballot has met the 75% returned ballot requirement.
- 55 eligible people in this ballot group.
- 43 affirmative votes
- 3 total negative votes with comments
- 3 negative votes with new comments
- negative votes without comments
- abstention votes: (Lack of expertise: 1, Lack of time: 1)
- 48 votes received = **87% returned**

## Approval Rate

- The 75% affirmation requirement is being met.
- 43 affirmative votes
- 3 negative votes with comments
- 46 votes = **93% affirmative**

# Resolution of IEEE P1159.3/D18 Ballot Responses

- IEEE P1159.3 Web Meeting
  - 3 October 2018
  - Editorial Comments Resolved in Advance of Web Meeting
  - Technical Comments Resolved during Meeting
- New Draft Distributed after Web Meeting
- Feedback Received and New Version Finalized as IEEE P1159.3/D19

# Summary of Changes in IEEE P1159/D19 from IEEE Std 1159.3-2003

- Completed editorial changes and corrections to the 2003 edition of IEEE Std. 1159.3
- Added new ID values for existing PQDIF tags in normative Annex B.
- Added new tags and ID values in normative Annex B.
- Added new quantity types in normative Annex B.
- Added an informative Annex C.2, which specifies an XML directory for PQDIF files that can be downloaded from a remote power quality monitor or remote file server
- Added an informative Annex D on the representation of PQDIF in XML
- Added an informative Annex E on PQDIF and its relationship to IEEE C37.111 COMTRADE
- Added an informative Annex F on PQDIF and its relationship to IEC 61850

# Summary of Changes in IEEE P1159/D19 from IEEE Std 1159.3-2003

- The physical structure of PQDIF remains unchanged between IEEE 1159.3-2003 and this new edition, making PQDIF both backward and forwards compatible.
- Changes to the logical structure to support new capability are in the form of additional tag and ID values.
- This allows software that reads PQDIF to maintain compatibility by simply ignoring unrecognized tag and ID values.

# Review of IEEE P1159.3/D19 Recirculation Ballot Results

## Response Rate

- This ballot has met the 75% returned ballot requirement.
- 55 eligible people in this ballot group.
- 46 affirmative votes
- 0 negative votes
- 1 abstention vote (2%)
- 49 votes received = **89% returned**

## Approval Rate

- The 75% affirmation requirement is being met.
- 46 affirmative votes = **100% affirmative**

## Comments

- We received three editorial comments, all of which can be resolved in the final edit by IEEE-SA.

# Next Steps

- IEEE Review Committee (RevCom)
  - We are on the agenda for 2019 January 25 with Draft 19 of IEEE P1159.3.
- If RevCom approves Draft 19, then the final step would be final editorial changes that would not require balloting.

# After Revision of IEEE 1159.3 is Complete

- Publish new IDs perhaps once every three years (IEEE P1159.3.1, P1159.3.2, etc.)
  - Power Line Communication/Mains Signaling Characteristics
  - Supraharmonic Storage Examples
  - Storing more than sample rate within the same observation record for the same channel, quantity-characteristic, etc.
    - For example, 10-minute values and 3-second values in same record
- Full revision in 10 years in 2029

# Next P1159.3 Task Force Meeting

- IEEE PES General Meeting
- 2019 August 6 in Atlanta, Georgia, USA

