NesCom - 20 Sep 2023

Agenda Version: 4
20 September 2023
Time: 9:00 a.m. – 12:30 p.m. ET (UTC-4)
Location: Teleconference

1. CALL TO ORDER

2. REVIEW OF AGENDA

2.1. CONSENT AGENDA

2.1.1. WITHDRAWAL REQUESTS

IEEE Computer Society/Standards Activities Board

1. P2850

Standard for an Architectural Framework for Intelligent Cities Operation System

IEEE Consumer Technology Society/Blockchain Standards Committee

2. P2141.1

Standard for the Use of Blockchain in Anti-Corruption Applications for Centralized Organizations

3. P2141.2

Standard for Transforming Enterprise Information Systems from Centralized Architecture into Blockchain-based Decentralized Architecture

4. P2141.3

Standard for Transforming Enterprise Information Systems from Distributed Architecture into Blockchain-based Decentralized Architecture

5. P2147.1

Standard for Requirements of Integrated Consortium Chain Station

6. P2418.8

Standard for Blockchain Applications in Governments

7. P2677.1

Standard for Blockchain-based Omnidirectional Pandemic/epidemic Surveillance: Overarching Framework

8. P2677.10

Standard for Blockchain-based Omnidirectional Pandemic/epidemic Surveillance: Access to Personal Data

9. P2677.11

Standard for Blockchain-based Omnidirectional Pandemic/epidemic Surveillance: Access to Telecommunications Data

10. P2677.12

Standard for Blockchain-based Omnidirectional Pandemic/epidemic Surveillance: Access to Transportation Data

11. P2677.20

Standard for Blockchain-based Omnidirectional Pandemic/epidemic Surveillance: Requirements for Blockchain Infrastructure

12. P2677.21

Standard for Blockchain-based Omnidirectional Pandemic/epidemic Surveillance: Requirements for

Peer-to-Peer Storage Infrastructure

13. P2677.22

Standard for Blockchain-based Omnidirectional Pandemic/epidemic Surveillance: Requirements for Grid Computing Infrastructure

14. P2677.30

Standard for Blockchain-based Omnidirectional Pandemic/epidemic Surveillance: Personal Application Programming Interface

15. P2677.31

Standard for Blockchain-based Omnidirectional Pandemic/epidemic Surveillance: Healthcare Application Programming Interface

16. P2677.32

Standard for Blockchain-based Omnidirectional Pandemic/epidemic Surveillance: Government Application Programming Interface

IEEE Consumer Technology Society/Emerging Technology Standards Committee

17. P2040

Standard for General Requirements for Fully Automated Vehicles Driving on Public Roads

18. P2040.1

Taxonomy and Definitions for Connected and Automated Vehicles

19. P2040.2

Recommended Practice for Multi-Input Based Decision Making of Automated Vehicles Driving on Public Roads

20. P2040.3

Recommended Practice for Permitting Automated Vehicles to Drive on Public Roads

21. P2049.1

Standard for Human Augmentation: Taxonomy and Definitions

22. P2049.2

Standard for Human Augmentation: Privacy and Security

23. P2049.3

Standard for Human Augmentation: Identity

24. P2049.4

Standard for Human Augmentation: Methodologies and Processes for Ethical Considerations

25. P2788

Standard for Circulating Air Pressure Physiotherapy Equipment Used in the Home Healthcare Environment

26. P2823

Standard for System Architecture and Technical Requirements for Smart Speakers

27. P2876

Recommended Practice for Inclusion, Dignity and Privacy in Online Gaming

28. P2886

Standard for General Requirements for Smart Residential Water Systems

IEEE Power and Energy Society/Electric Machinery

29. P1776

Recommended Practice for Thermal Evaluation of Unsealed or Sealed Insulation Systems for AC Electric Machinery Employing Form-Wound Pre-Insulated Stator Coils for Machines Rated 15 000 V and Below

IEEE Power and Energy Society/Transmission and Distribution

30. P1656

Guide for Testing the Electrical, Mechanical, and Durability Performance of Wildlife Protective Devices

on Overhead Power Distribution Systems Rated up to 38 kV

IEEE Vehicular Technology Society/Automated Vehicles Standards Committee

31. P2936

Standard for Test Methods of Automotive Lidar Performance

IEEE Vehicular Technology Society/Intelligent Transportation Systems

32. P1609.13

Wireless Access in Vehicular Environments - Reliable Data Transport Mechanisms for Multiple Receivers

33. P1609.20

Recommended practice for extending the functionality of IEEE Std 1609.2

2.1.2. PROJECT NUMBER CHANGE REQUESTS

2.1.2.1. IEEE COMPUTER SOCIETY/SOFTWARE & SYSTEMS ENGINEERING STANDARDS COMMITTEE (C/S2ESC) HAS REQUESTED TO CHANGE P982.1 TO P982.

3. APPROVAL OF MINUTES FROM THE 28 JUNE 2023 MEETING

623nescom-meeting-minutes.pdf

4. PARS FOR DISCUSSION

4.1. MODIFIED PARS

IEEE Computer Society/LAN/MAN Standards Committee

1. P60802

Time-Sensitive Networking Profile for Industrial Automation

IEEE Computer Society/Microprocessor Standards Committee

2. P3120

Standard for Quantum Computing Architecture

IEEE Computer Society/Software & Systems Engineering Standards Committee

3. P7003

Algorithmic Bias Considerations

IEEE Electromagnetic Compatibility Society/Standards Development Committee

4. P2717

Recommended Practice for Passive Intermodulation Test Methods for Wireless Systems in Low Noise Environments

IEEE Photonics Society/Standards Committee

5. P3111

Recommended Practice for Test and Inspection of Laser Devices Used for Remote Removal of Foreign Matter in Public Infrastructure Equipment

6. P3324

Guide for Blue-green Laser Communication System for Industrial Underwater Operations - Generic Specification

7. P3325

Guide for General Requirement for Industrial UV Detection Equipment

IEEE Power and Energy Society/Insulated Conductors

8. P1186

Recommended Practice for Applicability of Methods for the Evaluation of Low Voltage and Medium Voltage Installed Cable Systems in Nuclear Facilities

9. P1793

Guide for Planning and Designing, and Installation of Transition Facilities between Overhead and

Underground Transmission Lines

IEEE Power and Energy Society/Nuclear Power Engineering

10. P2421

Guide for Designing and Developing Computer-Based Displays for Monitoring and Control of Nuclear Facilities

IEEE SA Board of Governors/Distributed Generation, Energy Storage and Interoperability Standards Committee

11. P2030

Guide for Smart Grid Interoperability of Energy Technology and Information Technology Operation with the Electric Power System (EPS), End-Use Applications, and Loads

IEEE Vehicular Technology Society/Intelligent Transportation Systems

12. P3344

Standard for Scenario Representation for Autonomous Driving

4.2. EXTENSION REQUESTS

IEEE Communications Society/Dynamic Spectrum Access Networks Standards Committee

1. P1900.5

Standard for Requirements and System Architectures for Dynamic Spectrum Access Systems

IEEE Computer Society/Artificial Intelligence Standards Committee

2. P2840

Standard for Responsible AI Licensing

IEEE Computer Society/LAN/MAN Standards Committee

3. P802.1DG

Time-Sensitive Networking Profile for Automotive In-Vehicle Ethernet Communications

4. P802.1Qdj

Standard for Local and Metropolitan Area Networks--Bridges and Bridged Networks
Amendment: Configuration Enhancements for Time-Sensitive Networking

5. P802.11be

Standard for Information technology--Telecommunications and information exchange between systems Local and metropolitan area networks--Specific requirements - Part 11: Wireless LAN Medium Access Control (MAC) and Physical Layer (PHY) Specifications
Amendment: Enhancements for Extremely High Throughput (EHT)

IEEE Computer Society/Learning Technology

6. P2247.2

Interoperability Standards for Adaptive Instructional Systems (AISs)

7. P7004

Standard for Child and Student Data Governance

8. P9274.4.2

Recommended Practice for Cybersecurity in the Implementation of the Experience Application Programming Interface (xAPI)

IEEE Computer Society/Simulation Interoperability Stds Organization/Stds Activity Committee

9. P1516

Standard for Modeling and Simulation (M&S) High Level Architecture (HLA)-- Framework and Rules

10. P1516.1

Standard for Modeling and Simulation (M&S) High Level Architecture (HLA)-- Federate Interface Specification

11. P1516.2

Standard for Modeling and Simulation (M&S) High Level Architecture (HLA)-- Object Model Template (OMT) Specification

IEEE Computer Society/Software & Systems Engineering Standards Committee

12. P7003

Algorithmic Bias Considerations

IEEE Computer Society/Test Technology

13. P2427

Standard for Analog Defect Modeling and Coverage

IEEE Education Society/Standards Committee

14. P2834

Standard for Secure and Trusted Learning Systems

IEEE Engineering in Medicine and Biology Society/Standards Committee

15. P2933

Standard for Clinical Internet of Things (IoT) Data and Device Interoperability with TIPPSS - Trust, Identity, Privacy, Protection, Safety, Security

IEEE Industrial Electronics Society/Industrial Electronics Society Standards Committee

16. P2023

Standard for Digital Transformation Architecture and Framework

17. P2805.1

Self-Management Protocols for Edge Computing Node

18. P2805.2

Data acquisition, Filtering and buffering Protocols for Edge Computing Node

19. P2805.3

Cloud-Edge Collaboration Protocols for Machine Learning

20. P21451-1-6

Standard for a Smart Transducer Interface for Sensors, Actuators, and Devices - Message Queue Telemetry Transport (MQTT) for Networked Device Communication

IEEE Industry Applications Society/Petroleum & Chemical Industry

21. P60079-30-1

International Standard - Explosive atmospheres -- Part 30-1: Electrical resistance trace heating -- General and testing requirements

22. P60079-30-2

International Standard for Explosive atmospheres -- Part 30-2: Electrical resistance trace heating -- Application guide for design, installation and maintenance

IEEE Instrumentation and Measurement Society/TC9 - Sensor Technology

23. P1451.9

Standard for Tidal Turbine Health Monitoring System (HMS) with Communication Protocols and Transducer Electronic Data Sheet (TEDS) Formats

24. P1451.99

Standard for Harmonization of Internet of Things (IoT) Devices and Systems

IEEE Power and Energy Society/Electric Machinery

25. PC50.13

Standard for 50 and 60 Hz Synchronous Generators for Non-Hydraulic Applications Rated 10 MVA and Above

IEEE Power and Energy Society/Energy Storage & Stationary Battery Committee

26. P1679.4

Guide for the characterization and evaluation of alkaline batteries in stationary applications

IEEE Power and Energy Society/Nuclear Power Engineering

27. P317

Standard for Electric Penetration Assemblies in Containment Structures for Nuclear Power Generating Stations

28. P833

Recommended Practice for the Protection of Electric Equipment in Nuclear Power Generating Stations from Water Hazards

29. P1289

Guide for the Application of Human Factors Engineering in the Design of Computer-Based Monitoring and Control Displays for Nuclear Power Generating Stations and other Nuclear Facilities

30. P2425

Standard for Electromagnetic Compatibility Testing of Electrical and Instrumentation and Control Equipment at Nuclear Power Generating Stations and Other Nuclear Facilities

31. P63160

Nuclear Power Plants - Instrumentation, Control and Electrical Power Systems Important to Safety - Common Cause Failure Systems Analysis and Diversity

IEEE Power and Energy Society/Power System Instrumentation and Measurements

32. P4.1

Guide for the Practical Implementation of IEEE Standard 4 on High-Voltage and High-Current Measurement Systems

IEEE Power and Energy Society/Substations

33. P1240

Guide for the Evaluation of the Reliability of HVDC Converter Stations

34. P2825

Guide for Static Synchronous Series Compensator (SSSC) General Requirements and Test Methods

IEEE Power and Energy Society/Transformers

35. PC57.13.9

Standard for Power-Line Carrier Coupling Capacitors and Coupling Capacitor Voltage Transformers

36. PC57.142

Guide to Describe the Occurrence and Mitigation of Switching Transients Induced by Transformers, Switching Device, and System Interaction

37. PC57.143

Guide for Application of Monitoring Equipment to Liquid-Immersed Transformers and Components

IEEE Power and Energy Society/Transmission and Distribution

38. PC135.100

Standard for Line Hardware for Overhead Line Construction

IEEE Reliability Society/IEEE Reliability

39. P7009

Standard for Fail-Safe Design of Autonomous and Semi-Autonomous Systems

IEEE Robotics and Automation Society/Standing Committee for Standards

40. P1872.1

Robot Task Representation

41. P2817

Guide for Verification of Autonomous Systems

IEEE Society on Social Implications of Technology/Social Implications of Technology Standards Committee

42. P7012

Standard for Machine Readable Personal Privacy Terms

43. P7014

Standard for Ethical considerations in Emulated Empathy in Autonomous and Intelligent Systems

IEEE Systems, Man, and Cybernetics Society/Standards Committee

44. P2814

Techno-economics Metrics Standard for Hybrid Energy and Storage Systems

IEEE Vehicular Technology Society/Communications Based Train Control and Signals

45. P1474.1

Standard for Communications-Based Train Control (CBTC) Performance and Functional Requirements

46. P1474.2

Standard for User Interface Requirements in Communications-Based Train Control (CBTC) Systems

47. P1474.3

Recommended Practice for Communications-Based Train Control (CBTC) System Design and Functional Allocations

IEEE Vehicular Technology Society/Intelligent Transportation Systems

48. P1920.2

Standard for Vehicle to Vehicle Communications for Unmanned Aircraft Systems

4.3. NEW PARS

IEEE Broadcast Technology Society/Broadcast Technology Standards Committee

1. P3420

Standard for Aggregated Content Delivery Link Protocol for Radio and Other Audio and Data Services

2. P3421

Recommended Practice on Spectrum Mask Measurement for Broadcast Transmissions

IEEE Communications Society/Edge, Fog, Cloud Communications with IOT and Big Data Standards Committee

3. P1945

Standard for IOT Edge Computing on Unmanned Aircraft Systems-PART 1 General Requirements

IEEE Communications Society/Unmanned Aerial Vehicles Communications Standards Committee

4. P1937.13

Standard for Taxonomy and associated requirements for Unmanned Aircraft System's autonomy levels

5. P1937.15

Standard for Communication Security Requirements for Drone Formation Flying Light Show

6. P1937.16

Standard for Civil UAS Cybersecurity Framework

7. P1937.17

Standard for specifications for lithium ion cells and batteries used in Unmanned Aircraft □ Systems (UAS)

8. P1937.18

Charger Used in Unmanned Aircraft Systems - Technical Specification

IEEE Computer Society/Artificial Intelligence Standards Committee

9. P3394

Standard for Large Language Model Application and Agent Interface

10. P3395

Standard for the Implementation of Behavioral Guard Rails for Artificial Intelligence (AI) Models

11. P3396

Recommended Practice for Defining and Evaluating Artificial Intelligence (AI) Risk, Safety, Trustworthiness, and Responsibility

12. P3398

Recommended Practice for Generative Pre-trained Transformer Empowered Software Engineering Life Cycle

13. P3403

Recommended☐
Practice on Data Processing for Training Large Language Models

14. P3410

Standards for Large Scale Financial Risk Models

15. P3417

Standard for Requirements of Differential Privacy-Based Personal Information Protection

16. P3419

Standard for Large Language Model Evaluation

IEEE Computer Society/Cybersecurity and Privacy Standards Committee

17. P3406

Standard for a Purge and Destruct Sanitization Framework

18. P3409

Standard for a Zero Trust Security Framework

IEEE Computer Society/Data Compression Standards Committee

19. P3161.2

Standard for End Subsystem of Digital Retina Systems

20. P3161.3

Standard for Edge Subsystem of Digital Retina Systems

21. P3161.4

Standard for Cloud Subsystem of Digital Retina Systems

22. P3161.8

Standard for Security and Privacy Protection of Digital Retina Systems

23. P3404

Requirements and Framework for Data and Model Sharing across Multiple Computing Centers

IEEE Computer Society/LAN/MAN Standards Committee

24. P802.1Qdy

IEEE Standard for Local and Metropolitan Area Networks--Bridges and Bridged Networks Amendment: YANG for the Multiple Spanning Tree Protocol

25. P802.11bn

IEEE Standard for Information Technology--Telecommunications and Information Exchange between Systems - Local and Metropolitan Area Networks--Specific Requirements - Part 11: Wireless LAN Medium Access Control (MAC) and Physical Layer (PHY) Specifications   Amendment: Enhancements for Ultra High Reliability

26. P802.11-2020/Cor 2

IEEE Standard for Information Technology--Telecommunications and Information Exchange between Systems - Local and Metropolitan Area Networks--Specific Requirements - Part 11: Wireless LAN Medium Access Control (MAC) and Physical Layer (PHY) Specifications - Corrigendum 2- Correct the Number Assignment of the Information Identifier (ID) for Enhanced Broadcast Services (EBCS) element of the Access Network Query Protocol (ANQP)

IEEE Computer Society/Online Gaming Standards Committee

27. P3391

Standard for Technical Requirements for Mobile Game Quality

IEEE Computer Society/Software & Systems Engineering Standards Committee

28. P3407

Standard for End-to-End Software Testing Automation Tools

IEEE Computer Society/Standards Activities Board

29. P3422

Recommended Practice for Metaverse Ecosystem Reference

IEEE Computer Society/Test Technology

30. P3405

Standard for Chiplet Interconnect Test and Repair

IEEE Consumer Technology Society/Smart Devices Standards Committee

31. P3402

Standard for Technical Requirements of AI-based Driver Behavior Detection Systems

32. P3408

Standard for Security Specifications for Wearable Devices Supporting Payment Services

33. P3414

Standard for Ergonomics Assessment and Technical Specification for Vehicle Displays

IEEE Electromagnetic Compatibility Society/Standards Development Committee

34. P1848.1

Standard for Techniques & Measures to Manage Functional Safety and Other Risks With Regard to Electromagnetic Disturbances – Machinery Sector

IEEE Engineering in Medicine and Biology Society/Standards Committee

35. P3386

Standard for Defining and Inferring User Accessibility Needs for Applications including Augmented Reality and Artificial Intelligence Systems

IEEE Industry Applications Society/Industrial & Commercial Power Systems Standards Development Committee

36. P3005.2

Recommended Practice for Application of Generator Systems for Emergency and Standby Power in Industrial and Commercial Power Systems.

IEEE Instrumentation and Measurement Society/TC9 - Sensor Technology

37. P1451.7

Standard for a Smart Transducer and Radio Frequency Identification (RFID) Systems Communication Protocols and Transducer Electronic Data Sheet Formats for Industrial Internet of Things (IIoT)

IEEE Power and Energy Society/Insulated Conductors

38. P2776

Guide for Specifying and Selecting Cables for Nuclear Facilities

IEEE Power and Energy Society/Power System Instrumentation and Measurements

39. P3415

Guide for Sampling Evaluation of the State of Operating Electrical Energy Meters

IEEE Power and Energy Society/Transmission and Distribution

40. P3418

Guide for the Selection of Permanent Grounding Components for Overhead Transmission Lines

IEEE Power Electronics Society/Standards Committee

41. P3380

Recommended Practice for Alternating Current (AC) Power System Stability in Critical Facilities

IEEE SA Board of Governors/Corporate Advisory Group

42. P3411

Standard for Smart Identification in Internet of Things

43. P3416

Guide for Test Sets and Tools for Testing Protective Relays

IEEE Signal Processing Society/Synthetic Aperture Standards Committee

44. P3397

Standard for Synthetic Aperture Radar (SAR) Image Quality Metrics

45. P3399

Standard for Performance Metrics for Automotive Synthetic Aperture Radar (SAR)

IEEE Society on Social Implications of Technology/Social Implications of Technology Standards Committee

46. P7803

Recommended Practice for Inclusive Sustainable Smart Cities

IEEE Vehicular Technology Society/Intelligent Transportation Systems

47. P1609.3-2020/Cor 1

IEEE Standard for Wireless Access in Vehicular Environments (WAVE)--Networking Services - Corrigendum 1WSA Security Profiles Updates

48. P3412

Standard for Autonomous Driving Architecture (ADA)

IEEE Vehicular Technology Society/Traction Power Systems Standards Committee

49. P3393

Recommended Practice on the Application of IEEE Std 1653.2, Standard for Uncontrolled Traction Power Rectifiers for Substation Applications up to 1500 V DC Nominal Output, to Power Components other than Rectifiers

4.4. PARS FOR THE REVISION OF STANDARDS

IEEE Aerospace and Electronic Systems Society/Gyro Accelerometer Panel

1. P836

Recommended Practice for Precision Centrifuge Testing of Linear Accelerometers

IEEE Computer Society/Software & Systems Engineering Standards Committee

2. P12207

Systems and software engineering -- Software life cycle processes

IEEE Industry Applications Society/Petroleum & Chemical Industry

3. P1242

Guide for Specifying and Selecting Power, Control, and Special-Purpose Cable for Petroleum and Chemical Plants

IEEE Power and Energy Society/Insulated Conductors

4. P400.4

Guide for Field Testing of Shielded Power Cable Systems Rated 5 kV and Above with Damped Alternating Current (DAC) Voltage

IEEE Power and Energy Society/Nuclear Power Engineering

5. P628

Standard Criteria for the Design, Installation, and Qualification of Raceway Systems for Class 1E Circuits for Nuclear Power Generating Stations

6. P690

Standard for Design and Installation of Cable Systems for Class 1E Circuits in Nuclear facilities

7. P60780-323

IEC/IEEE International Standard - Nuclear facilities -- Electrical equipment important to safety -- Qualification

IEEE Vehicular Technology Society/Communications Based Train Control and Signals

8. P1474.4

Recommended Practice for Functional Testing of a Communications-Based Train Control (CBTC) System

5. OLD BUSINESS

5.1. DISCUSSION RE: NESCOM CONVENTION 8

📄 Oliver Holland Discussion Regarding NesCom Convention 8 .pdf

5.2. DISCUSSION RE: NESCOM ASSESSMENT OF NON-TECHNICAL STANDARDS PROPOSALS

📊 NesCom-Discussion-Non-technical PARs (2).pptx

5.3. DISCUSSION RE: PAR WITHDRAWAL REQUESTS AS PART OF THE NESCOM CONSENT AGENDA

5.4. PROPOSAL TO INTRODUCE 'VOID' IN THE NESCOM AGENDA WHEN A PAR IS REMOVED FROM THE AGENDA

6. NEW BUSINESS

7. NEXT MEETING

The next meeting of NesCom will take place on or about 24 October 2023 and will be virtual only. The submittal deadline is 13 September 2023.

8. ADJOURNMENT