
**IEEE P802.24
Vertical Applications TAG**

Project	IEEE P802.24 Smart Grid Technical Advisory Group		
Title	Minutes-TAG-May-2019		
Date Submitted	18 May 2019		
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Re:	802.24 TAG minutes		
Abstract	Meeting minutes for 802.24 TAG and TGs.		
Purpose	Document meeting and action items.		
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Minutes TAG 24

May 2019, Atlanta, GA, USA

802.24 TAG	
Chair:	Tim Godfrey (EPRI)
Vice Chair:	Benjamin Rolfe (Blind Creek Associates)
Recording Secretary:	Benjamin Rolfe (Blind Creek Associates)
TG1 (SG) Chair:	Tim Godfrey
TG1 (SG) Vice Chair:	Benjamin Rolfe (Blind Creek Associates)
TG2 Chair:	Chris DiMinico (MC Communications)

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PM2 Tuesday, May 14, 2019**Opening**

Meeting called to order at 1605 local time by TAG Chair Tim Godfrey.

Chair presents meeting slides document # 24-29-0012-01.

<https://mentor.ieee.org/802.24/dcn/19/24-19-0012-01-0000-may-2019-meeting-presentation.pptx>

The chair presents the Guidelines for IEEE-SA Meetings and Participation in IEEE 802 Meetings. An opportunity is provided for attendees to respond. No questions nor objections heard. The chair directs attendees to review the meeting preamble slides <https://development.standards.ieee.org/myproject/Public/mytools/mob/slideset.pdf> for further information.

Chair presents the Agenda doc # 802.24-19-0011-01.

<https://mentor.ieee.org/802.24/dcn/19/24-19-0011-02-0000-may-2019-agenda.xlsx>

Following neither discussion nor objection, agenda approved by unanimous consent.

Approve January meeting minute's document # 24-19-0010-00.

<https://mentor.ieee.org/802.24/dcn/19/24-19-0010-00-0000-tag-meeting-minutes-march-2019.pdf>

Following neither discussion nor objection, minutes approved by unanimous consent.

Status of TAG Action Items from March

- P2413 Drat is available in private area - Done
- Subir as provide VR text - Status pending

Liaison review

- P2413: Chair notes P2413 Liaison has not been attending, asks for another volunteer.
- ATIS TOPS: have follow up from our comment submission. (Farrokh Khatibi).
- WiFi: informal liaison, Alan Berkema
- IEC SEG8, Patrick Wetterwald (concluding)
- IEEE PSCC TF S6, Marc Lacroix
- IEEE P2030.5, Bob Heile
- IIC Wael Diab also not active, need another volunteer. None heard. Assigned Chris D.
- Any we should have but don't? None noted.
- (see doc document # 24-29-0012-01 for details)

ITU and Radio Regulatory

Jay Holcomb, 802.18 chair, provides an update.

900 MHz licensed spectrum NPRM: To be discussed at FCC open meeting. Nothing has been done in 802.18 as no one expressed interest or concerned. Jay will provide update on FCC meeting in July.

OFCOM 2390-2400 MHz consultation: comments turned in. Jay notes submission was late but accepted by OFCOM.

5GAA proposal to convert DSRC UNII4 to cellular only: Was sent ex parte to FCC. May have implications for smart grid or other verticals, as this would take away potential for other licensed-except usages of the band. 802.18 will look at comments submitted. Jay to report in July.

ACMA comments to the 5 year outlook: Topics include Harmonization of Australia and North America in 5-6 GHz, and other bands.

Discussion: on how IEEE 802 can have have a voice in ITU, specifically WRC. 802.24 would like to provide input if and when the process is established.

Actions: No specific actions other than Jay to report again in July.

Collaboration with 802.21 AR/VR Vertical Applications

Discussion on what are key requirements for AR/VR and how to relate to 802 standards activities. Some suggested parameters captured in doc document # 24-29-0012-02. It is noted that 802.11be will consider AR/VR use cases.

Discussion on white paper development. General consensus is there is a good opportunity for AR/VR whitepaper as a good way to identify the 802 standards that apply and how it all fits together. This can present useful alternatives to other non-standard based approaches.

Network integration

Discussion is deferred.

Agenda Change

Agenda change to move Network integration to tomorrow. Revised agenda posted in document # 24-29-0012-02.

Recessed

Recessed at 17:30 Local Time.

PM2 Wednesday, May 15, 2019

Called to order at 16:03 Local.

IEC SEG8 Document

New Document shared in 802.24 Private Area:

IEC_SEG8_Deliverable 3_Market Trend_Meeting_Review_010419_v3_clean.pdf

Chair leads a review of the document.

No specific comments to reply to SEG8

P2413 Liaison

Draft in SA-Ballot. Available in 802.24 Private Area.

ATIS TOPS

802.24 has provided comments.

802.24-19-0004-03 (IoT_Characteristics_Matrix.xlsx)

<https://mentor.ieee.org/802.24/dcn/19/24-19-0004-03-0000-iot-characteristics-matrix.xlsx>

Discuss and edit matrix.

Results captured in document # 24-19-0004-04.

<https://mentor.ieee.org/802.24/dcn/19/24-19-0004-04-0000-iot-characteristics-matrix.xlsx>

Low Latency Whitepaper discussion

- Includes wired and wireless
- Discuss sets of vertical applications enabled by low latency
- Address challenges of unlicensed spectrum
- Include use cases for high data rates for immersive video

Oliver Holland to lead white paper development. Updated Draft following discussion to be uploaded as 802.24-19-0003-02.

(done: <https://mentor.ieee.org/802.24/dcn/19/24-19-0003-02-0000-low-latency-communication-white-paper.docx>)

Other notes captured in document # 802.24-19-0012-02.

Network integration

Discussion:

Objective is to define the value and differentiation of the IEEE 802 architecture in the context of vertical markets; identify advantages of 802 over other approaches for infrastructure of private enterprise, industry, and the individual users, e.g. compare with service provider networks. Discussion of 802.1CH in this context. Note many advantages of 802 networks address aspects of 5G. Suggested this may be topic for Industry Connections, NENDICA.

Conclusion is that a whitepaper be developed to address the role of 802 in 5G and Network Integration. See document # 802.24-19-0012-02 for suggested outline ideas and specific objectives.

Actions:

- Develop TOC for white paper from these points
- Volunteers requested provide text contributions for white paper

802.19.3 Sub-1GHz Coexistence Update

TG Chair (Benjamin Rolfe) provides update of TG activities. Discussion on how 802.24 can support the Recommended Practice development:

- Many Smart Grid/Smart City and IoT applications currently depend on 802.15.4g based wireless technology
- Applications in SG and IoT where 15.4g is not currently sufficient

802.24 Whitepaper or supporting document identifying application specific use cases identifying where each standard is suitable. Whitepaper ideas:

- Avoid perception that 802 standards are unable to coexist
- Identify use cases where 802.15.4g is not sufficient and both are needed
- Could be choices of applications, channel guidelines, duty cycle,
- Evaluate and describe potential application-level implications of delay/latency increases due to mutual interference
-

Plan to develop a white paper in 2nd half of year. Review status in July

TAG Activity Plan

- Low Latency Whitepaper
- Network Integration Whitepaper
- Sub-1GHz Whitepaper or supporting document
- Possible Whitepaper on P2413 and IoT
- Possible update to First Smart Grid Whitepaper to reflect latest amendments to 802.15.4

AoB

None

Adjourn

Adjourned at 17:30 Local Time.

Gratuitous Squirrel Picture



Figure 1: New 802 Meeting Model: Squirrel in a rat hole