

**IEEE P802.24
Vertical Applications TAG**

Project	IEEE P802.24 Smart Grid Technical Advisory Group		
Title	TAG September 2022 Minutes		
Date Submitted	September 14, 2022		
Source	Benjamin A. Rolfe (Blind Creek Associates)	Voice:	+1 408 395 7207
		Fax:	Deprecated
		E-mail:	ben.rolfe @ ieee.org
Re:	802.24 TAG meeting		
Abstract	Meeting minutes for 802.24 TAG and TGs.		
Purpose	Document meeting and action items.		
Notice	This document has been prepared to assist the IEEE P802.24. It is offered as a basis for discussion and is not binding on the contributing individual(s) or organization(s). The material in this document is subject to change in form and content after further study. The contributor(s) reserve(s) the right to add, amend or withdraw material contained herein.		
Release	The contributor acknowledges and accepts that this contribution becomes the property of IEEE and may be made publicly available by P802.24.		

Minutes TAG 24

September Wireless Interim Session (hybrid)

802.24 TAG	
TAG and TG1 Chair:	Tim Godfrey (EPRI)
Vice Chair and Recording Secretary:	Benjamin Rolfe (Blind Creek Associates)

Table of Contents

Tuesday, September 13, 2022.....	2
Opening.....	2
802.24.2 IoT White paper update	3
Low Latency White paper update	3
Discussion: 802 architectures	3
IEEE 802 Solutions for Vertical Applications.....	3
Discussion of 802.24 role in industry outreach	4
Recess	4
Wednesday September 14, 2022.....	4
Opening.....	4
Presentation on EV Charging vertical.....	4
Future TAG activities	5
AoB	5
TAG Closing.....	5
Adjourn	5
Gratuitous Squirrel Related Picture	6

Tuesday, September 13, 2022

Opening

Meeting called to order at 16:08 local time by TAG Chair Tim Godfrey.
 Chair, vice chair and recording secretary are present.
 Chair presents meeting slides document # [802.24-22-0015r01](#).

Agenda given in document # [802.24-22-0015r01](#). Following neither discussion nor objection, agenda approved by unanimous consent.

The chair presents the Guidelines for IEEE-SA Meetings and Participation in IEEE 802 Meetings, including the copyright slides provided by IEEE. An opportunity is provided for attendees to respond. No responses nor questions heard.

Approval of Minutes for July, 2022, document # [802.24-22-0013-00](#): Following neither discussion nor objection, minutes approved by unanimous consent.

802.24.2 IoT White paper update

- Status of action item:
 - Action: Alan, Allen and Ben to hold an ad hoc to complete items
 - Status: still outstanding
- Document #[24-22-0011-01](#)
- Reviewed status of document
- Discussed how to show the range of IoT covered by the family of 802 standards
- Additional items identified in [24-22-0015-02](#).
-

Low Latency White paper update

- Reviewed the status of the paper [24-19-0003-14](#).
- Discussed how to update the content based on recent work and real world products
 - Request for contributions from 802.11be and bd outstanding (no responses yet)
 - Input from 802.15 (6a, 13) request made, no response yet
 - Some discussion on document organization

Discussion: 802 architectures

Update on the project to revise the 802 overview and architecture.

- There was extensive discussion in the July EC workshop, including some discussions on the role of 802.24
- The workshop report is still pending – may contain relevant action items

IEEE 802 Solutions for Vertical Applications

- Reviewed status.
- Document # [802.24-22-0012r11](#).
- Discussion:
 - Some discussion about how this relates to 802 architecture and 802 branding

- Value of 802 architecture as an enabler for security is discussed and it is agreed this could fit into this paper. Need further discussion as to where.
- Chair to send request to TSN Group (Janos Farkas) to provide review and/or contribution to section 7.

Discussion of 802.24 role in industry outreach

Discussion:

- 802.24 provides a forum for vertical market stakeholders to engage with 802.
- There could be significant benefit to both 802 and stakeholders
- Suggestion: 802.24 can act as a “all 802 Technical Interest Group (TIG)” as an entry point for new standards efforts
- Partner with public visibility EC standing committee for outreach
- Could provide a showcase for 802 standards to inform potential standards users
- See [24-22-0015-02](#) for additional discussion

Recess

Recess at 17:13 local time.

Wednesday September 14, 2022

Opening

Called to order at 16:04 local time by chair.

Chair and recording secretary present.

Chair continues with meeting slides document # [802.24-22-0015r01](#).

Presentation on EV Charging vertical

Presentation: [24-22-0016-01](#) EV Charging Vertical overview

Presents opportunities in 802 cutting across multiple working groups. Also a possible industry outreach opportunity. Discussion:

- Requires multiple standards working together
- Current work in progress in both 802.11 and 80215 may be relevant
 - E.g. Wireless charging requires precise positioning on charging pad
 - 802.15.4z in high volume silicon presently available provides cm precision ranging to support (relative) positioning.
- Opportunity for new standards work in 802 (1,3,11,15)
- How to proceed:
 - 802.24 develop a white paper capturing requirements

- 802 WGs are intended audience
- Can identify opportunities in multiple WGs
- Action: Invite input form 802 WGs

Future TAG activities

- Update of the first Smart Grid whitepaper.
 - A lot has happened including amendments to 802.15.4 to address additional regions and capabilities.
 - New topic to consider: integration of low power gas and water meters with electric meters
- A whitepaper or document focused on use of sub-1GHz standards (802.11ah, 802.15.4 narrow band).
 - Include 802.19.3
 - Discuss synergies (the right tool for the job)
 - Discuss coexistence mechanisms (802.19.3)
 - Other topics e.g. applying 802.15.4s spectrum resource metrics
- IETF Reliable and Available Wireless
 - Seems relevant to 802.15 and 802.11
 - Too early to tell but may be an opportunity
 - Action: ask 802.15 IETF SC Chair for input (assigned: Ann)

AoB

None

TAG Closing

Reminder for the November plenary given.

Adjourn

Adjourned at 17:30 local time.

Gratuitous Squirrel Related Picture



Vertical Tail Advisory