IEEE P802.11
Wireless LANs

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| Minutes 2025-05-12 AUTO TIG Meeting, Warsaw |
| Date: 2025-05-12 |
| Author(s): |
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Abstract

This document contains the meeting minutes from the IEEE 802.11 Automotive Topic Interest Group (AUTO TIG) meeting in Warsaw, Poland May 12, 2025.

Abbreviations:

Q: Question

A: Answer

C: Comment

Revision history:

R0: initial version

Automotive Topic Interest Group (AUTO TIG)
Chair: Jim Lansford (FaraFir SRL)

Vice Chair: Azin Neishaboori (General Motors), Jing Ma (Toyota)

**Meeting Agenda:**

The meeting agenda for AUTO 2025 May meeting is here: <https://mentor.ieee.org/802.11/dcn/25/11-25-0604-00-auto-agenda-for-automotive-tig-2025-may.pptx>

**Meeting Minutes:**

1. Chair called the meeting to order at 16:02 local Warsaw time and reviewed slides 1 through 11 of the agenda document.
2. Approval of the agenda
	1. Chair reviewed the draft agenda, no further edits were requested.
	2. **Motion: Approve the AUTO TIG agenda in document 11-25-0604r0.**
	3. **Moved: Juan-Carlos Zuniga , Seconded: Hitoshi Morioka**
	4. **Result: Unanimous Consent**
3. Approval of the March 2024 AUTO TIG meeting minutes in: <https://mentor.ieee.org/802.11/dcn/25/11-25-0489-00-auto-minutes-2025-03-10-auto-tig-meeting-atlanta.docx>
	1. **Motion: Approve the AUTO TIG 2025 March minutes in document 11-25-0489r0.**
	2. **Moved: Hitoshi Morioka, Seconded: Juan-Carlos Zuniga**
	3. **Result: Unanimous Consent**
4. Presentation by Hitoshi Morioka (SRC Software), <https://mentor.ieee.org/802.11/dcn/25/11-25-0896-01-auto-location-information-assisted-ap-discovery.pptx>
	1. C: EBCS could be a solution. An online database of AP locations sounds fine, but information about operating channel, etc can be dynamic and could need to be updated fairly often. Knowing the location alone is useful, however.
5. Presentation by Azin Neishaboori (General Motors), <https://mentor.ieee.org/802.11/dcn/25/11-25-0733-00-auto-thoughts-on-throughput-improvement-for-high-mobility-stas.potx>
	1. C: A frame exchange may not be enough. Long packets may be a problem. A better MCS estimate would help. Midambles could definitely be used by the receiving STA to re-estimate channel parameters..
	2. Q: How would the AP or STA know the speed of the vehicle? It seems that this is needed to estimate the coherence time.

A: The STA (assumed to be in the vehicle) should be able to determine whether it is moving and inform the AP. Perhaps the AP could even assess whether the vehicle/STA is in motion, e.g. infer it based on poor PER, unstable link adaptation, etc.;. In the backup slides, there are some already available methods in the IEEE 802.11 spec identified that may be used so as to enable the STA to to indicate mobility to the AP.

1. Presentation by Jing Ma, <https://mentor.ieee.org/802.11/dcn/25/11-25-0832-01-auto-follow-up-on-proposed-ieee-802-11-automotive-tig-technical-report-text.doc>
	1. C: Thanks for the work on the additional contributions to the report draft.
2. One AUTO TIG meeting is planned for the July 2025 Plenary session. The Chair will send out a call for contributions in advance.
3. Timeline review
	1. Our current target is to complete the AUTO TIG report by July 2025. This is not feasible at this point.
	2. Chair has requested from the Working Group an extension of the Auto TIG until January 2026. This request will be on the agenda for approval at the WG closing on Friday.
	3. Chair made a request for volunteers to make contributions for the final report of the TIG.
4. Any other business: None.
5. Meeting adjourned at 17:20 local Warsaw time.
6. Attendance: 47 attendees in the room, 110 attendees on Webex.

**References:**

Agenda: <https://mentor.ieee.org/802.11/dcn/25/11-25-0604-00-auto-agenda-for-automotive-tig-2025-may.pptx>

Prior (2025 March) meeting minutes: <https://mentor.ieee.org/802.11/dcn/25/11-25-0489-00-auto-minutes-2025-03-10-auto-tig-meeting-atlanta.docx>

Presentations:

<https://mentor.ieee.org/802.11/dcn/25/11-25-0832-01-auto-follow-up-on-proposed-ieee-802-11-automotive-tig-technical-report-text.doc>

<https://mentor.ieee.org/802.11/dcn/25/11-25-0896-01-auto-location-information-assisted-ap-discovery.pptx>

<https://mentor.ieee.org/802.11/dcn/25/11-25-0733-00-auto-thoughts-on-throughput-improvement-for-high-mobility-stas.potx>