IEEE 802.1 Working Group
September 14-17, 2026 Interim Session
Lisbon, Portugal—Mixed Mode
Session Minutes

The Working Group (WG) Chair, Glenn Parsons, presided and had requested that any subgroup Chair in remote attendance have on-site an individual acting on their behalf as needed to help conduct proceedings in "mixed mode", i.e. with local and remote participants. The Recording Secretary, Jessy Rouyer, wrote and/or edited the minutes in part based on input from subgroup Chairs and their Secretaries.

Note that, throughout this document, minuted/recorded inputs from any attendee can not/shall not be assumed to represent a position of their employer or affiliated organization. Discussion points captured do not necessarily reflect the views of the presenter, discussion leader or minute taker, and do not imply consensus unless that is explicitly minuted. The content of draft standards is determined by the ballot process; other formal decisions are the subject of Working Group motions.

1 Attendance and affiliation

The table in this section reflects the attendance (denoted by the ● symbol) and affiliation of attendees in all 802.1 WG and subgroup meetings held in this session.

			Nendica, Thu Sep 17, 2026, 16:00 - 18:00 WEST	Maintenance, Thu Sep 17, 2026, 13:30 - 15:30 WEST	TSN, Thu Sep 17, 2026, 10:30 - 12:30 WEST	TSN, Thu Sep 17, 2026, 08:00 - 10:00 WEST	Security, Wed Sep 16, 2026, 13:30 - 15:30 WEST	TSN, Wed Sep 16, 2026, 10:30 - 12:30 WEST	Nendica, Wed Sep 16, 2026, 08:00 - 10:00 WEST	Maintenance, Tue Sep 15, 2026, 16:00 - 18:00 WEST	Maintenance, Tue Sep 15, 2026, 13:30 - 15:30 WEST	TSN, Tue Sep 15, 2026, 10:30 - 12:30 WEST	YANGsters, Tue Sep 15, 2026, 09:00 - 10:00 WEST	YANG SC, Tue Sep 15, 2026, 08:00 - 09:00 WEST	Maintenance, Mon Sep 14, 2026, 16:00 - 18:00 WEST	Security, Mon Sep 14, 2026, 13:30 - 15:30 WEST	TSN 60802, Mon Sep 14, 2026, 10:30 - 12:30 WEST	TSN, Mon Sep 14, 2026, 08:00 - 10:00 WEST
Last name	**First name**	**Affiliation**														
Bierschenk	Jens	Robert Bosch GmbH	●	●	●	●	●	●	●		●	●		●	●	●
Boiger	Christian	Infineon Technologies	●		●	●	●	●	●	●	●	●		●		●
Borrill	Paul	DAEDAELUS													●	●
Bottorff	Paul	Hewlett Packard Enterprise			●	●		●	●		●	●	●	●	●	
Budweiser	Karl	BMW AG	●		●								●			
Chen	Lihao	Huawei Technologies Co., Ltd	●			●		●		●	●			●	●		●
Congdon	Paul	Congdon Consulting, LLC	●	●	●						●	●	●	●	●	●	●
de Koos	Andras	Microchip Technology Inc						●									
Elzur	Uri	Intel Corporation	●	●			●	●	●	●	●	●	●	●	●	●	●

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Last name	**First name**	**Affiliation**																
Farkas	Janos	Ericsson AB	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Fejes[1]	Ferenc	Ericsson AB					●					●	●					
Furch	Andreas	Siemens AG;Siemens Corporation		●														
Gilb	James	General Atomics Aeronautical Systems, Inc.	●			●	●											
Gonzalez	Dalisa	#N/A				●							●					
Gubow	Martin	Keysight Technologies	●															
Hantel[1]	Mark	WG Member				●			●	●						●		
Hu	Runlong	China Mobile Limited*																●
Ito	Yoshihiro	Nagoya Institute of Technology	●	●	●	●	●	●	●	●	●	●	●	●	●	●		
Jabbar	Abdul	General Electric Company (GE)	●	●														
Jones	Peter	Cisco Systems, Inc.					●	●										●
Karp[1]	Brad	Arista Networks											●	●				
Kehrer	Stephan	Belden	●	●	●	●		●	●	●	●	●	●		●	●		
Kiessling	Marcel	Beckhoff Automation	●	●	●	●	●	●	●	●	●	●	●	●				
Kim	Yong	General Motors Company			●													
Kumar[1]	Jai	Broadcom Corporation											●	●				
Lai	Gavin	Moxa Inc.	●	●	●			●	●			●	●		●			
Li	Jieyu	China Mobile					●	●	●	●	●	●	●	●				●
Liu	Yao	ZTE Corporation	●	●	●	●		●	●	●	●		●	●	●	●		●
Lopes	Joao	Qualcomm Incorporated	●	●	●	●	●	●		●	●	●	●		●	●		●
Lyu	Yunping(Lily)	Huawei Technologies Co., Ltd	●	●	●	●					●	●	●	●	●			●
Maile	Lisa	Technische Universität Braunschweig		●				●		●	●	●						
Mangin	Christophe	Mitsubishi Electric Corporation	●	●		●		●	●	●		●	●	●	●			
Mansfield	Scott	Ericsson AB	●	●		●	●	●	●			●		●	●	●		
Marks	Roger	EthAirNet Associates;NVIDIA							●		●	●			●	●		●
Mater	Olaf	Infineon Technologies	●	●	●	●		●	●	●	●	●	●		●	●		
McCall	David	Intel Corporation		●					●		●	●	●		●	●		
McIntosh	James	Microchip Technology, Inc.		●	●	●		●	●	●	●		●	●	●	●		●
Mittelberger	Martin	Siemens AG	●	●	●	●	●	●	●	●		●		●	●			
Muma	Scott	Microchip Technology, Inc.			●													
Nakao	Yuichi	Nagoya Institute of Techynology					●	●					●	●	●			
Nomura	Takumi	Honda R&D	●	●	●		●	●	●		●	●	●	●				
Ostertag	Martin	Zurich University of Applied Sciences		●	●	●			●	●	●	●	●		●			
Pal	Debajyoti	onsemi	●															
Parkholm	Ulf	Ericsson AB			●								●					
Parsons	Glenn	Ericsson AB	●	●	●	●		●		●	●	●	●	●	●	●		●
Peterson	Eric	Blue Origin	●	●	●	●	●	●	●	●	●	●	●					

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Last name	**First name**	**Affiliation**																
Proell	Dieter	Siemens AG	●	●	●	●	●	●	●	●	●	●		●	●	●	●	
Randall[1]	Karen	Randall Consulting			●	●			●	●			●			●		
Regev	Alon	Keysight;Keysight Technologies				●			●					●	●	●		
Rodrigues	Silvana	Huawei Technologies Co., Ltd	●	●	●	●		●	●	●	●	●	●	●	●	●	●	●
Rouyer	Jessy	Nokia	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Roy	Rajeev	NXP Semiconductors	●	●	●	●		●	●	●		●	●	●	●	●		
Seaman	Michael	Individual	●	●	●								●					
Seewald	Maik	Cisco Systems, Inc.	●	●	●	●	●	●	●		●	●	●	●	●	●	●	●
Sivakolundu	Ramesh	Cisco Systems, Inc.	●	●	●	●	●	●	●		●	●	●		●	●	●	●
Specht	Johannes	Self	●								●	●			●	●	●	●
Steindl[1]	Guenter	Siemens AG		●				●										
Turner	Max	Ethernovia	●	●	●	●		●	●	●	●	●	●	●	●	●	●	●
Varga	Balazs	Ericsson AB		●		●		●				●						
Wang	Boshi	Oppo*	●															
Wang	Haojie	China Mobile Limited	●															
Wang	Ke	Oppo*	●															
Xiao	Shiyu	Huawei Technologies Co., Ltd	●	●	●	●												
Xu	Yu	Huawei Technologies Co., Ltd	●															
Zeh	Alexander	Infineon Technologies	●	●	●	●	●	●	●	●		●	●	●	●	●		●
Zhuang	Yan	Huawei Technologies Co., Ltd									●	●		●	●			●

(*) Last and first names and affiliation possibly incorrect as based on Webex access information or otherwise.

(1) WG Chair designated remote individuals limited to specific topics - Single Meeting (IEEE 802 LMSC Operations Manual, clause 5)

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2 802.1 Officers and Leadership

- Chair: Glenn Parsons
- Vice-Chair and Recording Secretary: Jessy Rouyer
  - Executive Secretary: Stephan Kehrer
  - Liaison Secretary: Karen Randall
- Maintenance TG Chair: Mark Hantel
- Security TG Chair: Mick Seaman
  - Security TG Vice-Chair: Karen Randall
- TSN TG Chair: János Farkas
  - TSN TG Vice-Chair: David McCall
  - TSN TG Secretary: Johannes Specht
  - IEC/IEEE 60802 Joint Project Chair: Dieter Pröll
- NENDICA Chair: Roger Marks
  - Nendica Vice-Chair: Johannes Specht
- YANGsters Chair: Scott Mansfield
  - YANGsters Vice-Chair and Secretary: Stephan Kehrer
- Maintenance of Email exploder: Mark Hantel and Hal Keen
- Maintenance of website: Mark Hantel, John Messenger

3 Maintenance Task Group

Between this session and the preceding session, the IEEE 802.1 Maintenance Task Group (TG) held an electronic meeting whose minutes are incorporated to these session minutes by reference as follows:

- Minutes of the Maintenance TG meeting held 2026-07-28 11:00 - 12:05ET https://listserv.ieee.org/cgi-bin/wa?A2=STDS-802-1-MINUTES;447578fd.26&S=
- Minutes of the Maintenance TG meeting held 2026-08-04 11:00 - 11:58ET https://listserv.ieee.org/cgi-bin/wa?A2=STDS-802-1-MINUTES;c5a024d0.26&S=
- Minutes of the Maintenance TG meeting held 2026-08-11 10:00 - 10:34ET https://listserv.ieee.org/cgi-bin/wa?A2=STDS-802-1-MINUTES;168e4db1.26&S=

See section 1 for attendance and affiliation information.

Call to order Sep 14, 2026 at 16:00 WEST by Mark Hantel, IEEE 802.1 Maintenance TG Chair (Chair), who presided and wrote the minutes, assisted by Karen Randall, IEEE 802.1 Liaison Secretary.

Agenda items and dispositions:

1. Meeting introduction and other administrative items. The IEEE SA slides on IEEE SA Patent Policy, Copyright Policy, and Participation Behavior – Individual Method ("Policies") were provided beforehand as part of "MEETING INTRODUCTION" http://www.ieee802.org/1/files/public/templates/admin-TG-intro-0326-v01.pdf.
   The Chair showed this presentation advising that the following, provided beforehand, applies:
   - Participant behavior shall comply with the outlined requirements;
   - IEEE SA's Patent Policy is described in Clause 6 of the IEEE SA Standards Board Bylaws;
   - Early identification of patent claims which may be essential for the use of standards under development is strongly encouraged;
   - There may be Essential Patent Claims of which IEEE is not aware. Additionally, neither IEEE, the WG, nor the WG Chair can ensure the accuracy or completeness

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of any assurance or whether any such assurance is, in fact, of a Patent Claim that is essential for the use of the standard under development.
- IEEE SA's copyright policy is described in Clause 7 of the IEEE SA Standards Board Bylaws and Clause 6.1 of the IEEE SA Standards Board Operations Manual;
- Any material submitted during standards development, whether verbal, recorded, or in written form, is a Contribution and shall comply with the IEEE SA Copyright Policy.

The Chair made the Call for Potentially Essential Patents thereby providing an opportunity for participants to identify patent claim(s)/patent application claim(s) and/or the holder of patent claim(s)/patent application claim(s) of which the participant is personally aware and that may be essential for the use of that standard: there were no responses to this Call prior to the end of the meeting.

The Chair asked participants to record their attendance in IMAT and, if they are unable to do so, to promptly provide their affiliation to the minute taker.

2. Approval of agenda. The Chair presented the agenda in https://1.ieee802.org/september-2026-interim-session-maintenance-tg-agenda/.
   Disposition: The agenda was reviewed, discussed, and agreed as presented.
3. Maintenance Project Status. Mick Seaman, P802.1Q-2022-REV editor, provided a status update. The Chair reviewed the proposed draft 1.4 of P802.1ACea.
   Disposition: For Information.
4. Liaison Activity. Karen Randall, IEEE 802.1 Liaison Secretary, reviewed the status of liaisons.
   Disposition: For information.
5. Review of New Maintenance Items. The Chair led discussion on maintenance item (MI) 0400.
   Disposition: For information.
6. Review of Existing Maintenance Items. The Chair led discussion on MIs 0393, 0398, and 0399.
   Disposition: More discussion needed.
7. P802.1CB-2017-REV D1.2 Comment Resolution. Christophe Mangin, P802.1CB-2017-REV editor, led the resolution of comments received on https://www.ieee802.org/1/files/private/cb-2017-rev-drafts/d1/802-1CB-2017-Rev-d1-2.pdf.
   Disposition: Comments 27, 1, 2, 5, 8, 3, 6, 7, 10, 14, 15, 16, 17, 9, 12, 23, 13, 24, 4, 29, 18, 22, 31, and 26 were resolved.

18:04 WEST recess

Call to order Sep 15, 2026 at 13:37 WEST by Mark Hantel, IEEE 802.1 Maintenance TG Chair (Chair), who presided and wrote the minutes, assisted by Karen Randall, IEEE 802.1 Liaison Secretary.

8. The Chair announced that the meeting remains subject to the Policies mentioned in agenda item 1 and asked participants to record their attendance in IMAT and, if they are unable to do so, to promptly provide their affiliation to the minute taker.
9. P802.1CB-2017/REV D1.2 Comment Resolution (Continued). Christophe Mangin, P802.1CB-2017-REV editor, continued leading the resolution of comments received on https://www.ieee802.org/1/files/private/cb-2017-rev-drafts/d1/802-1CB-2017-Rev-d1-2.pdf.
   Disposition: Comments 11, 19, 20, and 21 were resolved.
10. P802.1AS-2025/REV D0.2 TG Ballot Comment Resolution. Silvana Rodrigues, P802.1AS-2025-REV editor, led the resolution of comments received on https://www.ieee802.org/1/files/private/as-2025-rev-drafts/d0/802-1AS-2025-Rev-d0-2.pdf.
    - Comments resolution started.

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- 15:30-16:00 WEST recess
- Comments resolution continued.

Disposition: Comments 51, 14, 15, 10, 17, 7 then comments 9, 13, 12, 20, 22, 21, 32, 23, 24, 18, 3, 5, 6, 8, 11, 39, 1, 41, 48, 49, 54, 57, 53, 55, 56, 40, 43, 34 were resolved.

17:48 WEST recess

Call to order Sep 17, 2026 at 13:30 WEST by Mark Hantel, IEEE 802.1 Maintenance TG Chair (Chair), who presided and wrote the minutes, assisted by Karen Randall, IEEE 802.1 Liaison Secretary and Jessy Rouyer, IEEE 802.1 Recording Secretary.

11. The Chair announced that the meeting remains subject to the Policies mentioned in agenda item 1 and asked participants to record their attendance in IMAT and, if they are unable to do so, to promptly provide their affiliation to the minute taker.
12. Ongoing Maintenance of the Standardized Group MAC Address Registry. Roger Marks presented “Input to RAC requested from IEEE 802.1 Working Group: Updating Standardized Group MAC Address (SGMA) Registry” https://www.ieee802.org/1/files/public/docs2026/maint-Marks-SGMA-0926-v01.pdf.
    Disposition: 802.1 to review the SGMA registry (to be provided as a spreadsheet to the 802.1 Chair by the presenter) and propose updates to the RAC so that the SGMA registry can be kept current. 802.1 Chair to review with the IEEE 802.1aq editor the history of addresses starting in 09-00-2B (registered to Digital Equipment Corporation but used by ISO/IEC SC6) so that the SGMA registry can note this accurately.
13. P802.1AS-2025/REV D0.2 TG Ballot Comment Resolution (Continued). Silvana Rodrigues, P802.1AS-2025-REV editor, continued leading the resolution of comments received on https://www.ieee802.org/1/files/private/as-2025-rev-drafts/d0/802-1AS-2025-Rev-d0-2.pdf.
    Disposition: Comments 16, 50, 10, 52, 28, 26, 27, 29, 30, 31, 58, and 59 were resolved.
14. Any Other Business. Glenn Parsons, IEEE 802.1 Chair, presented “FROM THE IEEE 802 LMSC… What would you do with $100k?? $250k?? Bring forward the ideas that matter to our work” https://mentor.ieee.org/802-lmsc/documents?is_dcn=238&is_year=2026.
    Disposition: For information.

15:26 WEST adjournment

4 Security Task Group

Between this session and the preceding session, the IEEE 802.1 Security Task Group (Security TG) held electronic meetings whose minutes are incorporated to these session minutes by reference as follows:

- Minutes of the Security TG meeting held 2026-08-10 13:04 - 14:00 ET https://listserv.ieee.org/cgi-bin/wa?A2=STDS-802-1-MINUTES;cc9a0f0f.26&S=
- Minutes of the Security TG meeting held 2026-08-31 13:10 - 13:45 ET https://listserv.ieee.org/cgi-bin/wa?A2=STDS-802-1-MINUTES;687fd5e9.26&S=

See section 1 for attendance and affiliation information.

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Call to order Sep 14, 2026 at 13.30 WEST by Mick Seaman, IEEE 802.1 Security TG Chair, who presided and wrote the minutes assisted by Karen Randall, Security TG Vice-Chair.

Agenda items and dispositions:

1. Meeting introduction. The IEEE SA slides on IEEE SA Patent Policy, Copyright Policy, and Participation Behavior – Individual Method ("Policies") were provided beforehand as part of "MEETING INTRODUCTION" https://www.ieee802.org/1/files/public/templates/admin-TG-intro-0326-v01.pdf.
   The Chair showed this presentation advising that the following, provided beforehand, applies:
   - Participant behavior shall comply with the outlined requirements;
   - IEEE SA's Patent Policy is described in Clause 6 of the IEEE SA Standards Board Bylaws;
   - Early identification of patent claims which may be essential for the use of standards under development is strongly encouraged;
   - There may be Essential Patent Claims of which IEEE is not aware. Additionally, neither IEEE, the WG, nor the WG Chair can ensure the accuracy or completeness of any assurance or whether any such assurance is, in fact, of a Patent Claim that is essential for the use of the standard under development.
   - IEEE SA's copyright policy is described in Clause 7 of the IEEE SA Standards Board Bylaws and Clause 6.1 of the IEEE SA Standards Board Operations Manual;
   - Any material submitted during standards development, whether verbal, recorded, or in written form, is a Contribution and shall comply with the IEEE SA Copyright Policy.

   The Chair made the Calls for Potentially Essential Patents at the beginning of each TG meeting during this session thereby providing an opportunity for participants to identify patent claim(s)/patent application claim(s) and/or the holder of patent claim(s)/patent application claim(s) of which the participant is personally aware and that may be essential for the use of that standard: there were no responses to these Calls prior to the end of the session.
   The Chair asked participants to record their attendance in IMAT and, if they are unable to do so, to promptly provide their affiliation to the Secretary.
2. Approval of agenda. The Security TG Chair presented the agenda as previously made available in https://1.ieee802.org/september-2026-interim-session-security-tg-agenda/.
   Disposition: The agenda was reviewed, discussed, and updated as recorded by these minutes.
3. P802.1AReg Secure Device Identity - Amendment: Support for the Module-Lattice-Based Digital Signature Algorithm. The Security TG Chair and Paul Bottorff, P802.1AReg editor, provided a status update. P802.1AReg/D2.1 https://www.ieee802.org/1/files/private/eg-drafts/d2/802-1AReg-d2-1.pdf is on the RevCom agenda for the next week's meeting. Publication is expected shortly following pre-publication editing.
   Disposition: For information.
4. 802.1AR-2018-Rev Secure Device Identity. The Security TG Chair led a discussion on plans for P802.1AR-2018-Rev.
   Discussion:
   - Plan to start a WG Ballot for P802.1AR-2018-Rev shortly after the final publication text for 802.1AReg is available and can be rolled.
   - Believe that some TCG (Trusted Computing Group) members will review/assist in revision, though the TCG's TPM (Trusted Platform Module) has a larger scope.
   - Earlier 60802 related discussions had considered additional (not PQC) Cipher Suites for potential industrial network applications (potentially improving

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performance/reducing cost relative to present 802.1AR included Cipher Suites). Hope for progress in this area, possibly as part of Revision or separate amendment.

5. P802.1AEef MAC Security - Amendment: Ascon Cipher Suite. Mick Seaman, P802.1AEef editor, provided an update. The SA Ballot was open and scheduled to close in the next week. Ballot resolution to start in electronic meetings in October 2026.
6. P802.1Qdt MAC Priority-based Flow Control Enhancement. The Security TG Chair led a discussion of progress.
   Discussion:
   - Work on P802.1Qdt had been delayed by the need to address errors and omissions in the 802.1Q base text as documented in maintenance item 0379 and supporting contributions, and discussed in the Maintenance Task Group.
   - The latest Editor's draft 2.2 of P802.1Q-2022-Rev https://www.ieee802.org/1/files/private/q-2022-rev-drafts/d2/802-1Q-2022-Rev-d2-2.pdf included an update to Clause 36 'Priority-based Flow Control (PFC)' based on prior Security TG discussion of P802.1Qdt (stripped of detail specific to P802.1Qdt and beyond the scope of P802.1Q-2002-Rev, but including detail within the scope of the revision but beyond that of P802.1Qdt). The update follows discussion and review between the P802.1Q-2022-Rev and P802.1Qdt editors. It does not change the existing operation of PFC for 802.3, but addresses the management issues and structures the clause so it can support future additions. The description of DCBX in Clause 38 still needs updating, to make the description less generic to address the maintenance item and supporting changes made in Clause 36.
   - Further progress on P802.1Qdt anticipated once initial TG ballots of P802.1Q-2022-Rev have confirmed or revised these supporting changes.
7. MAC Data Security Study Group (Pre-PAR activity) formation discussion. The Security TG Chair led a discussion of the proposed PAR Study Group formation.
   Discussion:
   - Basic idea is that the MACsec crypto engine can be applied to frame data omitting MAC Address protection. As with existing MACsec, further data can be prepended prior to protected frame data prior to transmission. Prepending unprotected data can arise from the details of the transport of the underlying MAC (which can support frame transmission in various ways: e.g. by encapsulation in a 'super frame' or by fragmentation and reassembly, as can be done by 802.15) or by intermediate systems; or e.g. by an EDE-CC or EDE-CS (Clause 15 of 802.1AE) adding a VLAN Tag prior to the protected data to support service selection and transmission across a provider network that can modify the Tag.
   - Automotive applications already leveraging MACsec, including using point to multipoint. This (MAC Data Security) potentially useful.
   - Prior discussion and input was captured in https://www.ieee802.org/1/files/public/docs2026/new-seaman-mac-data-security-0526-v00.pdf.
   - Consider whether separate standard or 802.1AE amendment.
   - Prior look at some of the detailed issues is at https://www.ieee802.org/1/files/private/ae-2018-rev-drafts/new-seaman-mac-data-security-amendment-analysis-0726-v00.pdf.
   - The first step, defining a Cipher Suite that omits protection of the MAC Addresses, is a basic goal. Describing use in/impact on networks potentially less important?
   - Experience with 802.1AE has been that it is important to describe how to use it in various ways.

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- Defining, or at least being very clear how to define, use in specific transport scenarios is important.

14.45 WEST recess

Call to order Sep 16, 2026 at 13.30 WEST by Mick Seaman, IEEE 802.1 Security TG Chair, who presided and wrote the minutes assisted by Karen Randall, Security TG Vice-Chair

7. MAC Data Security Study Group (Pre-PAR activity) formation discussion (continued). The Security TG Chair led a review of information about PAR Study Group formation from the general IEEE 802 LMSC Slide Deck, a presentation https://www.ieee802.org/1/files/public/docs2026/new-seaman-macdatasec-sg-0926v00.pdf capturing discussion so far aimed at meeting those requirements, and a discussion of Scope and planning.
   Discussion:
   - Uses the existing 802.1AE concepts, SecTAG, and AEAD cryptography (GCM and Ascon).
   - May add more emphasis on replay protection.
   - Extends MACsec protection and capabilities to “end-to-end”, though the “ends” are likely to cover such part of the overall communication path.
   - Uses existing CAK and MKA.
   - Don’t specify new authentication methods for CAK generation or new key agreement.
   - Specify or provide guidance for particular transport mechanisms.
   - Don’t extend or modify Cipher Suite to cover transport fields. Data origin authenticity for each frame is provided by successful cryptographic validation of the protected data, thus proving that it was protected by an entity possessing the relevant SAK (data key) with possession of the SAK demonstrating prior authentication (and authorization by the entity using key agreement to provide that SAK). Data origin authenticity does not depend on validation of transport fields that can include source identifiers but also can be modified, or possibly removed entirely on path. Similarly correct/restricted delivery is provided, where confidentiality is desired, by cryptographic validation and recovery of the protected data, and not by validation of the transport address fields.
   - Risks—predominantly scale. MACsec aimed to reduce the number of SAKs (data keys) used (and potentially requiring prior expansion with fast memory access), using a single transmit SC (Secure Channel) for transmit with up to 2 correct SAs (each with a single SAK) for key rollover, and all peers in a CA using the same SAK. Even doubling those numbers to support replay protection with preemption is a low per SAK overhead. MACsec engines can support many physical ports each with one or two SCs, but that still imposes a practical limit on SAK overhead. If a single MAC Data Security capable SecY protects many separate paths (each naturally keyed separately) that could limit scalability.
   - Time frame. A PAR Study Group runs 802 plenary to plenary, with a possible one-time renewal for a total of 8 months, so aiming for a PAR proposal by July 2027.
   - Several use cases envisaged, including industrial automation/production, automotive, remote sensor support, as well as the original MPLS path protection. Consider plenary session tutorial with PAR Study Group output (March or more likely July 2027).

   Disposition: More discussion needed.

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8. Any Other Business.

8.1. Maintenance Item 0399 (re: IEEE 802.1AEdk-2023). The Security TG Vice-Chair brought maintenance item 0399 https://www.802-1.org/items/506 to the attention of the TG.
Discussion:
- Formally this will be handled by the Maintenance Task Group but will require study by 802.1AEdk experts.
- In preliminary review this request appears correct, but needs follow up.

Disposition: Further discussion needed.

8.2. DANE/DNSSEC-anchored discovery path for 802.1AR DevID named endpoints.
Disposition: To be scheduled for discussion in a future electronic meeting.

9. Future meetings/teleconferences. Agreed (informally, none dissenting) to hold electronic meetings at 13.00 ET on Monday Oct 26, 2026 and Monday Nov 2, 2026 to resolve comments on the Initial SA Ballot of P802.1AEef/D2.0 https://www.ieee802.org/1/files/private/ef-drafts/d2/802-1AEef-d2-0.pdf, to discuss MAC Data Security PAR Study Group formation, and other task group matters arising, with the possibility of further electronic meeting subject to the usual notice requirements.
The Security TG will not meet during the Nov 2026 IEEE 802 plenary session, but plans to meet in-person in the Jan 2027 IEEE 802.1 interim session in Irvine, CA, USA, and during the Mar 2027 IEEE 802 plenary session in Singapore.

14.57 WEST adjournment

5 Time-Sensitive Networking Task Group

Between this session and the preceding session, the IEEE 802.1 Time-Sensitive Networking (TSN) Task Group (TG) held electronic meetings on generic TSN topics whose minutes are incorporated to these session minutes by reference as follows:

- Minutes of the TSN TG meeting held 2026-08-17, 10:00 – 12:00 ET https://listserv.ieee.org/cgi-bin/wa?A2=STDS-802-1-MINUTES;f78dbbda.26&S=
- Minutes of the TSN TG meeting held 2026-08-31, 10:00 – 12:00 ET https://listserv.ieee.org/cgi-bin/wa?A2=STDS-802-1-MINUTES;d4419103.26&S=

See section 1 for attendance and affiliation information.

Minutes of the IEC/IEEE 60802 Joint Project meetings are in section 5.1.

Call to order Sep 14, 2026 at 8:00 WEST by János Farkas, IEEE 802.1 TSN TG Chair (Chair), who presided. Johannes Specht, IEEE 802.1 TSN TG Secretary (Secretary), wrote the minutes.

Agenda items and dispositions:

1. Meeting introduction. The IEEE SA slides on IEEE SA Patent Policy, Copyright Policy, and Participation Behavior – Individual Method (“Policies”) were provided beforehand as part of “MEETING INTRODUCTION” http://www.ieee802.org/1/files/public/templates/admin-TG-intro-0326-v01.pdf.
The Chair showed this presentation advising that the following, provided beforehand, applies:
   - Participant behavior shall comply with the outlined requirements;
   - IEEE SA’s Patent Policy is described in Clause 6 of the IEEE SA Standards Board Bylaws;
   - Early identification of patent claims which may be essential for the use of standards under development is strongly encouraged;

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- There may be Essential Patent Claims of which IEEE is not aware. Additionally, neither IEEE, the WG, nor the WG Chair can ensure the accuracy or completeness of any assurance or whether any such assurance is, in fact, of a Patent Claim that is essential for the use of the standard under development.
- IEEE SA's copyright policy is described in Clause 7 of the IEEE SA Standards Board Bylaws and Clause 6.1 of the IEEE SA Standards Board Operations Manual;
- Any material submitted during standards development, whether verbal, recorded, or in written form, is a Contribution and shall comply with the IEEE SA Copyright Policy.

The Chair made the Calls for Potentially Essential Patents at the beginning of each TG meeting during this session thereby providing an opportunity for participants to identify patent claim(s)/patent application claim(s) and/or the holder of patent claim(s)/patent application claim(s) of which the participant is personally aware and that may be essential for the use of that standard: there were no responses to these Calls prior to the end of the session.

The Chair asked participants to record their attendance in IMAT and, if they are unable to do so, to promptly provide their affiliation to the Secretary.

2. Session Host Introduction.
   Disposition: For Information.
3. Approval of agenda. The Chair presented the agenda https://1.ieee802.org/2026-09-interim-tsn-agenda/.
   Disposition: The agenda was reviewed, discussed and agreed (informally, none dissenting) as presented.
4. Abdul Jabbar led the drafting, based on https://www.ieee802.org/1/files/public/docs2026/ek-jabbar-draft-PAR-0926-v03.pdf and https://www.ieee802.org/1/files/public/docs2026/ek-jabbar-draft-CSD-0926-v03.pdf, of draft PAR and CSD for P802.1Qek.
   Disposition: Disposition per agenda item 6.

10:00 WEST recess

Call to order Sep 14, 2026 at 11:05 ET by János Farkas, IEEE 802.1 TSN TG Chair (Chair), who presided. Johannes Specht, IEEE 802.1 TSN TG Secretary (Secretary), wrote the minutes.

5. The Chair announced that this meeting remains subject to the Policies mentioned in agenda item 1 and asked participants to record their attendance in IMAT and, if they are unable to do so, to promptly provide their affiliation to the Secretary.
6. Abdul Jabbar continued leading the drafting, based on https://www.ieee802.org/1/files/public/docs2026/ek-jabbar-draft-PAR-0926-v03.pdf and https://www.ieee802.org/1/files/public/docs2026/ek-jabbar-draft-CSD-0926-v03.pdf, of draft PAR and CSD for P802.1Qek.
   Disposition:
   Draft PAR: https://www.ieee802.org/1/files/public/docs2026/ek-draft-PAR-0926-v01.pdf
   Draft CSD: https://www.ieee802.org/1/files/public/docs2026/ek-draft-CSD-0926-v01.pdf
7. Martin Mittelberger, P802.1DD editor, led the resolution of comments received on https://www.ieee802.org/1/files/private/dd-drafts/d2/802-1DD-d2-0.pdf and presented "P802.1DD d2.0 Proposed Resolution for Comment 19" https://www.ieee802.org/1/files/public/docs2026/dd-mittelberger-reservation-mechanism-0926-v01.pdf.
   Disposition: Partial disposition: https://www.ieee802.org/1/files/private/dd-drafts/d2/802-1DD-d2-0-pdis-v02.pdf.

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11:55 WEST recess

Call to order Sep 15, 2026 at 10:30 WEST by János Farkas, IEEE 802.1 TSN TG Chair (Chair), who presided. Johannes Specht, IEEE 802.1 TSN TG Secretary (Secretary), wrote the minutes.

8. The Chair announced that this meeting remains subject to the Policies mentioned in agenda item 1 and asked participants to record their attendance in IMAT and, if they are unable to do so, to promptly provide their affiliation to the Secretary.
9. Lisa Maile, P802.1CBec editor, presented "CBec Discussion Summary / Progress Update" https://www.ieee802.org/1/files/public/docs2026/ec-maile-FRER-discussion-summary-interim-0926-v01.pdf.
   Disposition: Presentation discussed. Further discussion needed.
10. Balázs Varga and Ferenc Fejes presented "P802.1CBec State Machines of the modified SeqGen and SeqRcvy (update)" https://www.ieee802.org/1/files/public/docs2026/ec-varga-fejes-StateMachine-of-SeqGen-SeqRcvy-0926-v01.pdf.
    Disposition: Presentation discussed. Further discussion needed.
11. Ferenc Fejes and Balázs Varga presented "Pseudocode update in 802.1CB-2017 format" https://www.ieee802.org/1/files/public/docs2026/ec-fejes-varga-psudocode-update-0926-v01.pdf.
    Disposition: Presentation discussed. Further discussion needed.
12. Martin Mittelberger, P802.1DD editor, continued to lead the resolution of comments received on https://www.ieee802.org/1/files/private/dd-drafts/d2/802-1DD-d2-0.pdf and continued the presentation of "P802.1DD d2.0 Proposed Resolution for Comment 19" https://www.ieee802.org/1/files/public/docs2026/dd-mittelberger-reservation-mechanism-0926-v01.pdf.
    Disposition: Disposition per agenda item 14.

12:30 WEST recess

Call to order Sep 16, 2026 at 10:30 WEST by János Farkas, IEEE 802.1 TSN TG Chair (Chair), who presided. Johannes Specht, IEEE 802.1 TSN TG Secretary (Secretary), wrote the minutes.

13. The Chair announced that this meeting remains subject to the Policies mentioned in agenda item 1 and asked participants to record their attendance in IMAT and, if they are unable to do so, to promptly provide their affiliation to the Secretary.
14. Martin Mittelberger, P802.1DD editor, continued to lead the resolution of comments received on https://www.ieee802.org/1/files/private/dd-drafts/d2/802-1DD-d2-0.pdf and continued the presentation of "P802.1DD d2.0 Proposed Resolution for Comment 19" https://www.ieee802.org/1/files/public/docs2026/dd-mittelberger-reservation-mechanism-0926-v01.pdf.
    Disposition: Final disposition: https://www.ieee802.org/1/files/private/dd-drafts/d2/802-1DD-d2-0-dis-v01.pdf.
15. David McCall et al. presented "802.1CBec FRER Vector Recovery – Combined Proposal – Details" https://www.ieee802.org/1/files/public/docs2026/ec-mccall-et-al-FRER-combined-proposal-details-0926-v05.pdf.
    Disposition: Presentation discussed. Further discussion needed.
16. David McCall presented "802.1CBec FRER Sequence Recovery State Diagrams" https://www.ieee802.org/1/files/public/docs2026/ec-mccall-FRER-sequence-recovery-state-diagrams-0926-v01.pdf.
    Disposition: Presentation discussed. Further discussion needed.

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17. David McCall, P802.1ASeb editor, led the resolution of comments received on https://www.ieee802.org/1/files/private/aseb-drafts/d1/802-1ASeb-d1-0.pdf.
    Disposition: Disposition pre agenda item 20.

12:30 WEST recess

Call to order Sep 17, 2026 at 8:00 WEST by János Farkas, IEEE 802.1 TSN TG Chair (Chair), who presided. Johannes Specht, IEEE 802.1 TSN TG Secretary (Secretary), wrote the minutes.

18. The Chair announced that this meeting remains subject to the Policies mentioned in agenda item 1 and asked participants to record their attendance in IMAT and, if they are unable to do so, to promptly provide their affiliation to the Secretary.
19. János Farkas, P802.1Qee editor, gave a verbal update on P802.1Qee.
    Disposition: For Information.
20. David McCall, P802.1ASeb editor, continued to lead the resolution of comments received on https://www.ieee802.org/1/files/private/aseb-drafts/d1/802-1ASeb-d1-0.pdf.
    Disposition: Partial disposition: https://www.ieee802.org/1/files/private/aseb-drafts/d1/802-1ASeb-d1-0-pdis-v01.pdf.
21. Paul Bottorff presented “802.1EH IEEE 802 Modeling”
    https://www.ieee802.org/1/files/public/docs2026/eh-bottorff-modeling-0926-v05.pdf.
    Disposition: Presentation discussed. Further discussion needed.

12:30 WEST adjournment

5.1 IEC/IEEE 60802 Joint Project

Between this session and the preceding session, the IEC/IEEE 60802 Joint Project held no electronic meeting.

See section 1 for attendance and affiliation information.

Call to order Sep 14, 2026 at 10:30 WEST by Dieter Proell, IEC 65C/WG18 Convenor and IEC/IEEE 60802 Joint Project Chair (60802 Chair), who presided together with János Farkas, IEEE 802.1 TSN TG Chair (TSN TG Chair). The 60802 Chair wrote the minutes.

Agenda items and dispositions:

1. Meeting introduction and other administrative items. The IEEE SA slides on IEEE SA Patent Policy, Copyright Policy, and Participant Behavior (“Policies”) were provided beforehand as part of “MEETING INTRODUCTION”
   https://www.ieee802.org/1/files/public/templates/admin-TG-intro-0326-v01.pdf.
   The 60802 Chair explained that the IEC/IEEE 60802 Joint Project also follows the IEC patent and copyright policies, https://www.iec.ch/news-resources/reference-material#policy.
   The 60802 Chair made the Call for Potentially Essential Patents thereby providing an opportunity for participants to identify patent claim(s)/patent application claim(s) and/or the holder of patent claim(s)/patent application claim(s) of which the participant is personally aware and that may be essential for the use of that standard: there were no responses to this Call prior to the end of the session.
   The 60802 Chair asked participants to record their attendance in IMAT and, if they are unable to do so, to promptly provide their affiliation to the minute taker.

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2. Approval of agenda. The 60802 Chair presented the agenda in https://1.ieee802.org/2026-09-interim-tsn-agenda/#TSN_8211_IECIEEE_60802.
   Disposition: The agenda was reviewed, discussed, and updated as recorded by these minutes.
3. IEC/IEEE 60802 status update. The 60802 Chair gave a verbal update on the blog post published as https://standards.ieee.org/beyond-standards/time-sensitive-networking-for-industrial-automation-unlocking-the-future-of-industrial-automation/
   Disposition: For information.
4. Additional TSN Industrial Automation Use Cases. David McCall presented "Additional TSN Industrial Automation Use Cases V0.5"
   https://www.ieee802.org/1/files/public/docs2026/60802-industrial-use-cases-ii-0726-v05.pdf.
   Disposition: Agreed (informally, none dissenting) to discuss contributions in upcoming electronic meetings that would be scheduled Oct 5 and 19, 2026. More discussion needed.

11:05 WEST adjournment

6 Nendica

Between this session and the preceding session, Nendica held electronic meetings whose minutes are incorporated to these session minutes by reference as follows:

- Minutes of the Nendica meeting held 2026-08-20 09:00-11:00 ET
  https://listserv.ieee.org/cgi-bin/wa?A2=STDS-802-1-MINUTES;1313af91.26
- Minutes of the Nendica meeting held 2026-09-03 09:00-11:00 ET
  https://listserv.ieee.org/cgi-bin/wa?A2=STDS-802-1-MINUTES;62510b51.26

See section 1 for attendance and affiliation information.

Call to order Sep 16, 2026 at 8:00 WEST by Roger Marks, IEEE 802 Nendica Chair ("Chair") who presided over the meeting, in Lisbon, Portugal with remote participation, and wrote the minutes.

Agenda items and dispositions:

1. Meeting introduction and other administrative items. The IEEE SA slides on IEEE SA Patent Policy, Copyright Policy, and Participant Behavior ("Policies") were provided beforehand as part of "MEETING INTRODUCTION"
   https://www.ieee802.org/1/files/public/templates/admin-prePAR-intro-0326-v01.pdf.
   The Chair reviewed the procedures per the agenda advising that the following, provided beforehand, applies:
   - Participant behavior shall comply with the outlined requirements;
   - IEEE SA's copyright policy is described in Clause 7 of the IEEE SA Standards Board Bylaws and Clause 6.1 of the IEEE SA Standards Board Operations Manual;
   - Any material submitted during standards development, whether verbal, recorded, or in written form, is a Contribution and shall comply with the IEEE SA Copyright Policy.

   The Chair asked participants to record their attendance in IMAT and, if they are unable to do so, to promptly provide their affiliation to the minute taker.
2. Approval of agenda. The Mentor server document list was noted.
   Disposition: The agenda was reviewed and agreed (informally, none dissenting) as https://1.ieee802.org/802-nendica-agenda-2026-09-interim/.

Unapproved Draft

3. Minutes. The Chair reviewed the draft Minutes of the Nendica meeting held Sep 3, 2026 https://listserv.ieee.org/cgi-bin/wa?A2=STDS-802-1-MINUTES;62510b51.26.
   Disposition: It was agreed (informally, none dissenting) to approve the minutes.
4. Nendica Organization. No activity.
5. Work Items. Lily Lyu led discussions regarding the Backward Notification for Traffic Management in AI Data Center Networks (AIBN) Work Item. Lily Lyu and Jieyu Li presented "AIBN draft ver0-1" https://mentor.ieee.org/802.1/documents?is_group=ICne&is_year=2026&is_dcn=0047. Lily Lyu presented "Contribution to AIBN Chapter 4.1" https://mentor.ieee.org/802.1/documents?is_group=ICne&is_year=2026&is_dcn=0046. Discussion ensued.
   Disposition: Further development of the Work Item is anticipated.
6. Vetting and New Topics. No activity.
7. Meeting Continuation. In regard to the AI Computing Networks (AICN) Study Item, Yao Liu presented "Follow-up discussion of switch-controlled packet-level load balancing" https://mentor.ieee.org/802.1/documents?is_group=ICne&is_year=2026&is_dcn=0048. Discussion ensued.
   Disposition: Noted.

10:12 WEST recess

Call to order Sep 17, 2026 at 16:00 WEST by Roger Marks, IEEE 802 Nendica Chair ("Chair") who presided over the meeting, in Lisbon, Portugal with remote participation, and wrote the minutes.

8. Meeting introduction and other administrative items. The Chair announced that this meeting remains subject to the Policies and procedures mentioned in agenda item 1 and asked participants to record their attendance in IMAT and, if they are unable to do so, to promptly provide their affiliation to the minute taker.
9. Agenda review. The agenda for the day was reviewed and agreed (informally, none dissenting) as https://1.ieee802.org/802-nendica-agenda-2026-09-17/.
10. Study Items
    - In regard to the AICN Study Item, Runlong Hu presented "Link Layer Retransmission (LLR) and Its Opportunities in IEEE 802.1" https://mentor.ieee.org/802.1/documents?is_group=ICne&is_year=2026&is_dcn=0050. Discussion ensued.
      Disposition: Noted.
    - In regard to the Frame Header Efficiency (FHE) Study Item, Runlong Hu presented "Considerations on Multi-Layer Implications of Compressed Headers for Scale-Up Networks" https://mentor.ieee.org/802.1/documents?is_group=ICne&is_year=2026&is_dcn=0049.
      Disposition: Noted.
11. [none]
12. Next meeting. The next Nendica meeting is scheduled as an electronic meeting on Oct 1, 2026, 9:00-11:00 ET.
13. Other Business. No other business was discussed by Nendica in this session.

17:13 WEST adjournment.

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7 YANGsters

Between this session and the preceding session, YANGsters held electronic meetings whose minutes are incorporated to these session minutes by reference as follows:

- Minutes of the YANGsters meeting held 2026-07-28 10:00 – 11:02 ET https://listserv.ieee.org/cgi-bin/wa?A2=STDS-802-1-MINUTES;8531c4be.26&S=
- Minutes of the YANGsters meeting held 2026-08-11 10:08 – 11:14 ET https://listserv.ieee.org/cgi-bin/wa?A2=STDS-802-1-MINUTES;925aa3f0.26&S=
- Minutes of the YANGsters meeting held 2026-08-25 10:00 – 11:00 ET https://listserv.ieee.org/cgi-bin/wa?A2=STDS-802-1-MINUTES;90f4910a.26&S=

See section 1 for attendance and affiliation information.

Call to order Sep 15, 2026 at 9:00 WEST by Scott Mansfield, YANGsters Chair, who presided. Jessy Rouyer, 802.1 Recording Secretary, wrote the minutes.

Agenda items and dispositions:

1. Meeting introduction. The IEEE SA slides on IEEE SA Copyright Policy, and Participant Behavior – Individual Method ("Policies") were provided beforehand as part of "MEETING INTRODUCTION" https://www.ieee802.org/1/files/public/templates/admin-prePAR-intro-0326-v01.pdf.
   The YANGsters Chair showed this presentation advising that the following, provided beforehand, applies:
   - Participant behavior shall comply with the outlined requirements;
   - IEEE SA's copyright policy is described in Clause 7 of the IEEE SA Standards Board Bylaws and Clause 6.1 of the IEEE SA Standards Board Operations Manual;
   - Any material submitted during standards development, whether verbal, recorded, or in written form, is a Contribution and shall comply with the IEEE SA Copyright Policy.

   The YANGsters Chair asked participants to record their attendance in IMAT and, if they are unable to do so, to promptly provide their affiliation to the minute taker.
2. Approval of agenda. The YANGsters Chair presented the agenda in https://1.ieee802.org/september-15-2026-802-1-and-802-3-interim-session-yangsters-agenda-lisbon-portugal/.
   Disposition: The agenda was reviewed, discussed, and updated as recorded by these minutes.
3. Introduction to YANGsters. The YANGsters Chair presented the topic by showing:
   - https://1.ieee802.org/yangsters/, and
   - https://1.ieee802.org/yangsters/yangsters-guidelines/yangsters-faq/.

   Disposition: For information.
4. YANG 802.1 Project Status. The YANGsters Chair presented the topic by showing "YANG Sanity" https://1.ieee802.org/yang-sanity/ and led the discussion.
   - The "YANG Sanity" table at https://1.ieee802.org/yang-sanity/ provides an overview of all currently open IEEE 802.1 projects that contain or are expected to contain YANG.
   - Clause restructuring is ongoing in P802.1AS-2025-Rev (that has no new managed object): its YANG will be updated upon completion of this restructuring.

   Disposition: Agreed (informally, none dissenting) to update the YANG Sanity table entry corresponding to P802.1AS-2025-Rev upon completion of its YANG update.

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5. Open Maintenance Items. The YANGsters Chair introduced the topic and led the discussion.
    - The YANGsters Chair communicated YANGsters' guidance on Woojung Huh's maintenance item 393 https://www.802-1.org/items/500 in the Maintenance TG meeting help immediately prior to this meeting, during this session.

    Disposition: For information.
6. IETF News. The YANGsters Chair introduced the topic and led the discussion.
    - IETF met in July 2026. The YANGsters chair highlighted the following:
        - The IETF is pushing for semantic versioning (numbering releases with 2 or 3 numbers), which IEEE does not currently use.
        - Work on "YANGnext" or "YANG 2.0" is ongoing, with 80-90 issues identified for modification.
        - The next version of YANG will likely not be backward compatible with the current version.
        - The discrepancy between MAC address formats in IEEE and IETF drafts, where IETF uses strings instead of numbers, remains.

    Disposition: For information.
7. P802.1CB-2017-Rev. Christophe Mangin, P802.1CB-2017-Rev editor, provided a project update.

    Discussion:
    - Autoconfiguration text has been moved to a non-normative annex.
    - It was proposed to remove the autoconfiguration container from the main YANG module and create a new, separate module (autoconfiguration) with its own namespace; however, one cannot simply delete leaves from a published module: they must be marked as deprecated first.
    - Since the new module has a separate namespace, there is no naming conflict, even if leaf names are the same.
    - An informational YANG module could be categorized as "experimental" to make it available for review.
    - During the transition from deprecated to obsolete, some implementers might continue using deprecated objects.
    - If the old autoconfiguration functionality is broken or unused, it could potentially directly be obsoleted, although deprecation is the standard path.
    - Question on whether moving to a new module allows for the functionality to be "brought back" if needed, whereas deprecation does not.
    - The new module is an augmentation that preserves the functionality.
    - If the module is not normative, it should be placed in the "experimental" branch of the YANG repository to preserve the work. Alternatively, autoconfiguration could be moved to an annex while the YANG would remain in the main module: this would undesirably result in normative references to non-normative managed objects.

    Disposition: Agreed (informally, none dissenting) for the autoconfiguration YANG module to be placed in the "experimental" branch of the YANG repository.
8. Next meetings. The YANGsters Chair presented https://1.ieee802.org/yangsters/yangsters-call-information/. YANGsters intends to meet next electronically on Sep 22, 2026 unless no agenda items are emailed to the chair by Sep 17, 2026.

9:43 WEST adjournment

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8 Next Session

Nov 9-12, 2026 mixed mode plenary session in Bangkok, Thailand.

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