IEEE 802.1 Working Group
14-17 January 2019 Interim Session
Hiroshima, Japan
Session Minutes

The Working Group (WG) Chair, Glenn Parsons, presided and thanked the Flexible Factory Partner Alliance, on behalf of IEEE 802.1, for hosting this interim session.
The Recording Secretary, Jessy Rouyer, wrote the minutes in part based on input from the Chairs and their Secretaries.

1 Attendance and affiliation

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TSN TG: Thu 13:30 - 18:00
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**Schedule:**

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2 802.1 Officers and Management

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<td>Glenn Parsons</td>
<td>Working Group Chair</td>
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<td>John Messenger</td>
<td>Working Group Vice-chair</td>
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<td>Jessy Rouyer</td>
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<td>János Farkas</td>
<td>Time-Sensitive Networking Task Group Chair</td>
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<td>Craig Gunther</td>
<td>Time-Sensitive Networking Task Group Secretary</td>
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<td>Mick Seaman</td>
<td>Security Task Group Chair</td>
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<td>Max Riegel</td>
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<td>Josef Dorr</td>
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<td>Mark Hantel</td>
<td>Email maintenance and IEC/IEEE 60802 Joint Project website maintenance</td>
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<td>Hal Keen</td>
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3 Maintenance Task Group

Tuesday 15 January 2019

8:00 AM (call to order by the TG Chair) to 9:00 AM

The Maintenance Task Group Chair, Paul Congdon, presided and wrote the minutes.

At the beginning of the meeting the TG Chair presented the IEEE-SA PatCom Patent Slides for Standards Development Meetings
https://development.standards.ieee.org/myproject/Public/mytools/mob/slideset.pdf, and made the Call for Potentially Essential Patents. There were no responses to the calls prior to the end of the meeting.

The TG Chair:

- Introduced the agenda that was approved.
- Presented the items processed prior to the meeting. Several items were closed thanks to the publication of 802.1Xck-2018.
- Led the review and update of existing maintenance items.
  - No action taken on 0170, 0174, 0205 and 210 because they are awaiting a document vehicle to be resolved and are otherwise ready to go.
- Led the discussion of two new maintenance items. A log of the discussion is kept in the 802.1 maintenance database and only unrelated discussion or action items follow:
  - 0223 - IEEE8021-SRP-MIB inappropriate SYNTAX for ieee8021SrpStreamDataFramePriority
  - 0224 - Clarify whether frame ends on last bit or after the inter-packet gap and preamble
- Confirmed no 802.1 WG comment resolution was needed.
  - The WG Chair described the current process for updating ITU-T SG15 with 802.1 latest status, and will provide an update to ITU-T SG15 for their September 2019 meeting. There is no need to respond to this liaison, but the WG was asked to provide further review of the current ITU-T SG15 document and raise any concerns at the March 2019 plenary session.
  - A response will be finalized at the March 2019 plenary session.
  - It was pointed out that several additional arguments could be included in the response to strengthen the response. These include the fact that using an OID
as a protocol identifier could cause protocol incompatibility with many existing protocols using CID and OUI today. Secondly, the SNAP encoding has been successfully using OUI for many years and replacing OUI with CID is completely compatible, whereas using OID would not map directly. An OID can be a variable length field which makes its use in protocol identifier fields problematic and complex for many implementations.

- Led the review of the status of standards in the SC6 engagement and PSDO process, prepared by Karen Randall.
- Led a discussion on how to progress YANG modules in the WG. Several ballot comments were rejected in November 2018 because they were considered enhancement requests and not bugs against 802.1Qcp. In November 2018, it was suggested that the submitter initiate an amendment project to update and improve the YANG module. There is concern that the overhead and process related to an amendment is too burdensome and it was asked if there is another approach to improve YANG modules. It was suggested that the discussion is related to the 802.1 Open Source strategy which is still evolving. The desire is to be more fluid and agile in developing ‘code’ such as YANG modules using the Open Source approach and tools such as github. There is a strong desire by everyone to streamline the process of developing ‘code’ such as YANG modules, and such a new process is in progress but not currently deployed.

4 OmniRAN Task Group

The OmniRAN Task Group Chair, Max Riegel, presided. Hao Wang wrote the minutes.

At the beginning of the meetings on Monday, Tuesday, and Wednesday the TG Chair presented the IEEE-SA PatCom Patent Slides for Standards Development Meetings https://development.standards.ieee.org/myproject/Public/mytools/mob/slideset.pdf, and made the Call for Potentially Essential Patents. There were no responses to the calls prior to the end of the week’s session.

The week’s meetings were guided by IEEE 802.1 OmniRAN TG January 2019 F2F Meeting Hiroshima, Japan https://mentor.ieee.org/omniran/dcn/18/omniran-18-0094-01-00TG-jan-2019-f2f-meeting-slides.pptx, referred to as the “session slides” in the remainder of this OmniRAN Task Group section.

Current status of OmniRAN Task Group activities (including future meeting announcements, past meeting and conference call minutes) is available via a wiki located at https://mentor.ieee.org/omniran/bp/StartPage.
Monday 14 January 2019

1:30 PM (call to order by the TG Chair) to 3:30 PM

Agenda Approval

The TG Chair presented the agenda per slide 6 of the session slides. Disposition: The agenda was reviewed, discussed and approved.

Schedule of topics during the week

The TG Chair discussed availabilities of the contributors and preferences to discuss the various topics. Disposition: Agreement to arrange the discussion topics according to the following plan over the week:

Monday PM1
Review of minutes
Reports
IEEE 802.1CF socialization activities
Potential Nendica related contributions preview
Input to liaison response to ITU-T JCA-IMT2020

Tuesday AM2 & PM1
P802.1CQ contributions and discussions
  o Requirements and scenarios documentation
  o Security threats of dynamic local address assignment protocol
  o 802.1 position on MAC randomization

Wednesday PM1
Potential new projects for OmniRAN TG
Conference calls until March 2019 F2F
Status report to IEEE 802 WGs
Next meeting
AOB

Review of minutes

The TG Chair presented the minutes of the OmniRAN TG:

- Conference call held 11 December 2018: [https://mentor.ieee.org/omniran/dcn/18/omniran-18-0093-00-00TG-dec-11th-confcall-minutes.docx](https://mentor.ieee.org/omniran/dcn/18/omniran-18-0093-00-00TG-dec-11th-confcall-minutes.docx); and
- Face-to-face session held in November 2018 in Bangkok, Thailand [https://mentor.ieee.org/omniran/dcn/18/omniran-18-0091-00-00TG-nov-2018-f2f-meeting-minutes.docx](https://mentor.ieee.org/omniran/dcn/18/omniran-18-0091-00-00TG-nov-2018-f2f-meeting-minutes.docx)

Disposition: No comments were raised.

Reports

The TG Chair provided an oral report on P802.1CF that is ready for forwarding to RevCom after conclusion of sponsor balloting in December 2018. ExCom granted conditional approval.
at the November 2018 plenary session to submit P802.1CF to RevCom. The submission
deadline for the 20 March 2019 RevCom meeting is 8 February 2019.

**Disposition:**
- The TG Chair will contact Walter Plenciak, P802.1CF editor, to provide FrameMaker
  sources and the .svg files of figures.
- The TG Chair will forward to the WG Chair the .zip archive of the source files for all
  figures once provided by Hao Wang.

**802.1CF socialization activities**

The TG Chair led a discussion of initial channels to create awareness for IEEE Std 802.1CF:

- 100-word notice to IEEE Communications Standards Magazine
  - The TG Chair will create a draft of a notice for review in the TG.
- Updated presentation on aim and content of standard
  - The TG Chair will update the existing slide set to reflect final standards content.
- Article for IEEE Communications Standards Magazine
  - Joint work of Max Riegel, Walter Pienciak, Antonio de la Oliva, and Hao Wang
    is to be started soon to meet the submission deadline for the September 2019
    issue.
- Potential IEEE 802 press release
  - Has to be approved by ExCom. Requires some customer quote, which may be
    challenging.
- Contribution to IEEE future networks (conference)
  - Multiple options for contributions to conferences; scope and timeline of
    conference must fit. Hold for further considerations.

**Disposition:** Agreement to start with the first three items.

**Potential Nendica-related contributions preview**

- No contribution indicated.

**Input to liaison response to ITU-T JCA-IMT 2020**

The TG Chair presented the following incoming liaison from ITU-T JCA-IMT 2020: *Invitation to*
*update the information in the IMT2020 roadmap [to ITU study groups and external IMT-2020*
Group discovered some category issues in the list of IEEE standards, and the description of
these standards should reflect the scope and purpose of the document.

**Disposition:**

- The WG Chair will get in contact with 802.3 to find out about their plans.
  - The topic should be brought up to ExCom to involve other 802 WGs.
- Max Riegel will draft a document showing proposed 802.1 edits.
  - If approved, an 802.1 liaison response may be sent in March 2019.
Tuesday 15 January 2019

10:30 AM (call to order by the TG Chair) to 3:35 PM, with a 1-hour lunch break

A conference call bridge was setup for remote participants.

**P802.1CQ contributions and discussions**

P802.1CQ requirements and scenarios documentation: no contributions for discussion

P802.1CQ security threats of dynamic local address assignment protocol: the following two contributions were discussed.

Antonio de la Oliva presented *Analysis on new possibility [of] security threat[s] in IEEE 802.1CQ* [https://mentor.ieee.org/omniran/dcn/19/omniran-19-0001-00-CQ00-ieee-802-1cq-threat-analysis.pdf](https://mentor.ieee.org/omniran/dcn/19/omniran-19-0001-00-CQ00-ieee-802-1cq-threat-analysis.pdf) to the TG and to the Security TG chair. Potential security threats were discussed.

**Disposition:**

- Recommendation not to mention potential vulnerabilities caused by inappropriate implementation of 802 standards.
  - Such statements could lead to the wrong impression of security weaknesses in 802 standards.
- Conclusion that local address assignment does not cause any new threats in addition to threats arising due to inappropriate implementations of the LAAP and LAAP components.
  - LAAP should avoid leakage of information through broadcast of responses, and should not add much overhead to the number of message exchanges for setting up a connection.
- Antonio de la Oliva will create text contribution out of presented material and discussions results.

Max Riegel presented *MAC randomization impacts (WBA liaison to IEEE 802.11)* [https://mentor.ieee.org/omniran/dcn/19/omniran-19-0002-00-CQ00-random-mac-impact.pptx](https://mentor.ieee.org/omniran/dcn/19/omniran-19-0002-00-CQ00-random-mac-impact.pptx).

- Max Riegel provided a summary of MAC address usage as device identifier for network operations as brought up by WBA.

**Disposition:**

- Agreement reached that WBA use cases are legitimate reasons to provide the possibility to assign static device identifier to stations for initiating the dynamic MAC address assignment.
  - Static device identifier allows LAAP to assign fixed MAC addresses to devices.
- Antonio de la Oliva will draft a protocol proposal for secure signaling of a static device identifier to the access network.
- Max Riegel will draft a section for the functional requirements describing the need to provide the possibility of fixed device identifiers.
Wednesday 16 January 2019

1:30 PM (call to order by the TG Chair) to 3:15 PM, with a 1-hour lunch break

Discussions about potential future work in OmniRAN

Satoko Itaya presented *What is potential future work in OmniRAN?*  

- This model was presented as simpler and more straightforward than the model under consideration in P60802.
  - The presentation suggested this model could become the base of a generic model.

**Disposition:**
- Discussion showed good acceptance of the idea of a simpler model for data characterization for industrial applications.
- Satoko Itaya was encouraged to create a more comprehensive slide set for presentation to the IEC/IEEE 60802 Joint Project and to the TSN TG.

Conference calls until March 2019 F2F

The following pre-authorized conference calls will be held before the March 2019 IEEE 802.1 plenary session to review P802.1CQ contributions and other topics as they become available:

- 6 February 2019, 9:00 AM - 10:00 AM ET
- 27 February 2019, 9:00 AM - 10:00 AM ET

Status report to IEEE 802 WGs

The TG Chair presented *IEEE 802.1 OmniRAN TG Status Report to IEEE 802 WGs*  

**Disposition:** The TG agreed with the slides drafted by the TG Chair.

Next meeting

The TG will meet next at the March 2019 IEEE 802.1 plenary session.

AOB

There was no other business to discuss and the TG Chair adjourned the meeting.
5 Time-Sensitive Networking Task Group

The Time-Sensitive Networking (TSN) Task Group Chair, János Farkas, presided. Craig Gunther wrote the minutes.

At the beginning of the meetings on Monday, Tuesday, Wednesday, and Thursday the TG Chair presented the IEEE-SA PatCom Patent Slides for Standards Development Meetings https://development.standards.ieee.org/myproject/Public/mytools/mob/slideset.pdf, and made the Call for Potentially Essential Patents. There were no responses to the calls prior to the end of the week’s session.

Monday 14 January 2019

8:00 AM (call to order by the TG Chair) to 5:15 PM, with a 1-hour lunch break


Disposition: The agenda was reviewed and approved.


Disposition: For information only.


Disposition: Proposed new project; the presentation was discussed.


Disposition: Proposed new project; the presentation was discussed.


Disposition: There were no ballot comments as recorded in http://www.ieee802.org/1/files/private/as-rev-drafts/d7/802-1AS-Rev-d7-5-dis.pdf.

Norman Finn, P802.1CS editor, led the resolution of comments received on http://www.ieee802.org/1/files/private/cs-drafts/d2/802-1CS-d2-0.pdf.

Stephen Haddock, P802.1AX-Rev editor, led the resolution of comments received on http://www.ieee802.org/1/files/private/ax-rev-drafts/d1/802-1AX-Rev-d1-0.pdf.

Disposition: Continued in a later session.

Tuesday 15 January 2019

9:30 AM (call to order by the TG Chair) to 12:30 PM

Minutes of this meeting, a joint meeting of the TSN TG and IEC/IEEE 60802 Joint Project, are provided in section 0 below.

1:30 PM (call to order by the WG Vice-Chair) to 5:30 PM


Disposition: The presentations were discussed. The resolution continued in a later session.

Wednesday 16 January 2019

8:00 AM (call to order by the TG Chair) to 12:30 PM

Minutes of this meeting, a joint meeting of the TSN TG and IEC/IEEE 60802 Joint Project, are provided in section 0 below.

1:30 PM (call to order by the TG Chair) to 6:00 PM

The TG Chair presented the IEEE-SA PatCom Patent Slides for Standards Development Meetings https://development.standards.ieee.org/myproject/Public/mytools/mob/slideset.pdf, and made the Call for Potentially Essential Patents.

Disposition: There were no responses.


Disposition: The liaison and response were discussed; more discussion needed.


Disposition: Related to proposed project; the presentation was discussed.
**Disposition:** Related to proposed project; the presentation was discussed.

**Disposition:** Related to proposed project; more discussion needed.

**Disposition:** Related to proposed project; the presentation was discussed.

Norman Finn, P802.1DC editor, presented *IEEE P802.1DC/D0.1 Draft Standard for Local and metropolitan area networks — Quality of Service Provision by Network Systems* http://www.ieee802.org/1/private/contrib/802-1DC-d0-1.pdf.  
**Disposition:** Editor’s update on existing project; the presentation was discussed.

**Thursday 17 January 2019**

**8:00 AM (call to order by the TG Chair) to 9:20 AM**

Minutes of this meeting, a joint meeting of the TSN TG and IEC/IEEE 60802 Joint Project, are provided in section 0 below.

**9:20 AM (call to order by the TG Chair) to 5:45 PM, with a 1-hour lunch break**


The TG Chair presented the incoming liaison *IETF LSVR WG Work on LSoE (Link neighbor, liveness and encapsulation discovery)* http://www.ieee802.org/1/files/public/docs2019/liaison-IETF-LSVR-Link-State-over-Ethernet-0119.pdf  
**Disposition:** The liaison was discussed; more discussion needed.

**Disposition:** Proposed new project; the presentation was discussed; more discussion needed.

Disposition: Related to possible new project; the presentation was discussed; more discussion needed.

Mark Hantel presented Industrial Considerations for LLDP v2
Disposition: Related to possible new project; the presentation was discussed; more discussion needed.

Feng Chen presented Support for μStream Aggregation in RAP (ver 0.3)
Disposition: Related to ongoing project; the presentation was discussed.

Christophe Mangin presented 802.1CBdb EISS-parameters-based Mask&Match Stream Identification Function
Disposition: Related to new project; the presentation was discussed.

János Farkas briefly reviewed P802.1CBdb Contribution MPLS Label Match Flow Identification and Mapping to/from TSN (DetNet – TSN Data Plane Interactions)
Disposition: Related to new project; the presentation was discussed.

János Farkas presented P802.1CBdb Contribution Sequence Number Mapping between TSN and DetNet MPLS Data Plane (DetNet – TSN Data Plane Interactions)
Disposition: Related to new project; the presentation was discussed. This may need to become its own project.

Yolanda Yu presented Recovery of Congestion Isolation
Disposition: Related to existing project; the presentation was discussed.

Paul Congdon presented potential draft text IEEE P802.1Qcz/D0.0 Draft Standard for Local and Metropolitan Area Networks—Bridges and Bridged Networks—Amendment: Congestion Isolation
Disposition: Related to existing project; the presentation was discussed.
6 IEC/IEEE 60802 Joint Project

Ludwig Winkel, IEC MT9 Convenor and IEC/IEEE 60802 Joint Project Chair (60802 Chair), and János Farkas, IEEE 802.1 TSN Task Group Chair (TG Chair), presided. Josef Dorr wrote the minutes.

At the beginning of the meetings on each day:

- The IEEE-SA PatCom Patent Slides for Standards Development Meetings and the IEEE 802 Participation slide were presented (http://standards.ieee.org/about/sasb/patcom/materials.html).
- The Call for Potentially Essential Patents was made. There were no responses to the calls prior to the end of the week’s session.
- The IEC MT9 Convenor reminded the IEC participants that patent rules similar to those of IEEE-SA apply in IEC, reminded all that patents required for use of the IEC/IEEE 60802 profile must be announced to IEC and IEEE and made available using the IEC licensing form, and reminded that presentations shall not have copyright marks or confidentiality information.
- The agenda and the expected results of the day were reviewed and approved.

Draft minutes were reviewed at the end of the week’s session.

Tuesday 15 January 2019

9:30 AM (call to order by the 60802 Chair and the TG Chair) to 12:30 AM

The TSN Task Group and IEC/IEEE 60802 Joint Project had a joint meeting.

The TG Chair, János Farkas, and the 60802 Chair, Ludwig Winkel:
- Welcomed the participants of the IEC/IEEE 60802 Joint Project, a joint effort of the:
  - IEC 65C/MT9/PT 60802 (TSN) Project Team, led by Ludwig Winkel; and
  - IEEE 802.1 Time-Sensitive Networking Task Group, led by the TG Chair.
- Provided information about internet access, lunch, attendance log to the IEC/IEEE 60802 Joint Project.

The 60802 Chair repeated his new email address Ludwig.Winkel@online.de and notified of the organizational change in IEC from IEC 65C/MT9/PT 60802 to IEC 65C/PT 60802, i.e. PT 60802 is now in parallel to MT9.

The TG Chair showed the planned next sessions of the IEC/IEEE 60802 Joint Project at https://1.ieee802.org/tns/iec-ieee-60802-tns-profile-for-industrial-automation/.


The TG Chair showed Major Automation Industry Players join OPC UA including TSN initiative https://opcfoundation.org/news/press-releases/major-automation-industry-players-join-opc-ua-including-tns-initiative/ with the statement “The TSN Profile for Industrial Automation standardized by the IEC/IEEE 60802 committee will be used and all working groups will closely align with this for TSN related specification sections.”


Disposition: No further action required.

Post-meeting, the TG Chair pointed out that the “No online participation allowed!” statement of slide 15 is misleading because the TG holds bi-weekly online teleconferences together with IEC 65C/MT9 to progress IEC/IEEE P60802 that anyone is welcome to attend. The TG Chair’s interpretation of the intention behind the statement was that there is generally no remote participation to IEEE 802.1 face-to-face meetings (as opposed to some other organizations, e.g., the IETF). The presentation was updated as http://www.ieee802.org/1/files/public/docs2019/60802-Steindl-ScopeAndStatus-0119-v03.pdf.


Disposition: Further discussion needed

The TSN TG and IEC/IEEE 60802 Joint Project met separately after this joint meeting.
1:30 PM to 6:00 PM (call to order by the 60802 Chair)


Disposition: Task Group balloting will be started for further drafting of the IEC/IEEE 60802 profile; further discussion needed.

Günter Steindl started to present An example selection of standards, standard attributes and standard extensions to cover a use cases and requirements selection http://www.ieee802.org/1/files/public/docs2019/60802-Steindl-ExampleSelections-0119-v02.pdf. The presentation was discussed. The presentation was continued on Wednesday.

Disposition: Further discussion needed

Wednesday 16 January 2019

8:00 AM (call to order by the 60802 Chair and the TG Chair) to 12:30 AM

The TSN Task Group and IEC/IEEE 60802 Joint Project had a joint meeting.


Disposition: Further discussion needed


Disposition: Further discussion needed

Mark Hantel presented Data Sheet Model for TSN http://www.ieee802.org/1/files/public/docs2019/60802-Hantel-Data-Sheet-Model-0119-v00.pdf. The presentation was discussed.

Disposition: Further discussion needed


Disposition: Further discussion needed

Lihao Chen started to present TSN Management http://www.ieee802.org/1/files/public/docs2019/60802-chen-TSN-management-0119-v00.pdf. The presentation was discussed. The presentation was continued in the afternoon.

Disposition: Further discussion needed

The TSN TG and IEC/IEEE 60802 Joint Project met separately after this joint meeting.
1:30 PM to 3:30 PM (call to order by the 60802 Chair)


**Disposition:** Further discussion needed


**Disposition:** Further discussion needed

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**Thursday 17 January 2019**

8:00 AM (call to order by the 60802 Chair and the TG Chair) to 09:20 AM

The TSN Task Group and IEC/IEEE 60802 Joint Project had a joint meeting.

The TG Chair proposed adding a contribution describing P60802 required LLDP amendments, to the ongoing approach for an IEEE 802.1AB amendment. Three contributions have already been submitted:


The 60802 Chair and the TG Chair gave a summary of the last two days.


The 60802 Chair reminded that there will be a doodle poll about the dates for the IECEE ad hoc Group preparation meetings.

The WG Chair indicated that IEEE staff has confirmed that IEEE 802.1 may share drafts relevant to P60802 with the following groups: OPC, Ethercat, ODVA, AVNU, IEC TC 57 WG10, IEC SC65C. LNI is still under review.

The 60802 Chair indicated that the OPC Foundation liaison request has been approved by IEC national committees vote.

The IEC/IEEE 60802 Joint Project was adjourned.
7 Nendica

The Nendica Chair, Roger Marks, presided over the Nendica meeting held at the same time in both Hiroshima, Japan and St Louis, MO, USA. Hao Wang wrote the minutes.

Additionally to the 21 participants listed in section 1 who registered in IMAT, the following two individuals also participated:

- Joseph Levi, affiliated with InterDigital
- Ian Sherlock, affiliated with Texas Instruments

Wednesday 16 January 2019 in Hiroshima, Japan
Tuesday 15 January 2019 in St Louis, MO, USA

10:31 AM (call to order by the Nendica Chair from St Louis, MO, USA) to 11:40 AM


Agenda

The Nendica Chair presented the proposed agenda in https://mentor.ieee.org/802.1/dcn/19/1-19-0017-00.docx.
Disposition: The agenda was approved without objection.

Update

Disposition: The presented document was updated post-meeting based on meeting review as https://mentor.ieee.org/802.1/dcn/19/1-19-0005-01-ICne-nendica-meeting-overview-2019-01.pptx.

Minutes

The Nendica Chair presented the minutes of the Nendica conference call held 9 January 2019 https://mentor.ieee.org/802.1/dcn/19/1-19-0006-00-ICne-minutes-of-nendica-meeting-of-2019-01-09.docx.
Disposition: There were no comments on this document. Minutes were approved.
Future Directions


**Disposition:** When the Nendica Chair called for volunteers willing to have their name listed in section 7.3., Nader Zein, Paul Congdon and Hao Wang responded to the call.

The Nendica Chair presented the 2018 annual report, which was approved in the 802.1 WG at its November 2019 Plenary meeting.

**Motion:** To approve 802.1-18-0079-02 as a renewal of Nendica ICAID to be submitted to ICCOM together with document 802.1-18-0078-02 as 2018 annual report.

- Moved by Karl Weber, Second by Max Riegel
- Motion passed by unanimous consent

Work Items

- **Lossless Data Center Networks (LLDCN)**

Paul Congdon, LLDCN report editor, introduced a follow-up on publicity:

- Information about Congdon’s webinar *The Next Generation Lossless Network in the Data Center* [https://mentor.ieee.org/802.1/dcn/19/1-19-0007-00-ICne-draft-lldcn-webinar-presentation.pdf](https://mentor.ieee.org/802.1/dcn/19/1-19-0007-00-ICne-draft-lldcn-webinar-presentation.pdf) was circulated on the Nendica reflector;
- This webinar will be presented 25 January 2019 mainly based on the contents of the Nendica LLDCN report.

**Disposition:** Information item reviewed without comment.

The Nendica Chair indicated that his previously-approved NANOG presentation had been submitted as a proposal to the NANOG meeting of 18-20 February 2019: *Proposed Nendica Presentation to NANOG 75* [https://mentor.ieee.org/802.1/dcn/19/1-19-0004-01-ICne-proposed-nendica-presentation-to-nanog-75.pptx](https://mentor.ieee.org/802.1/dcn/19/1-19-0004-01-ICne-proposed-nendica-presentation-to-nanog-75.pptx).

**Disposition:** Information item reviewed without comment.

- **Flexible Factory IoT (FFIOT)**

Nader Zein, FFIOT report editor, provided an oral update on the progress of the comment resolution.

**Disposition:** When the Nendica Chair asked if there is a skeleton document showing the restructuring of the report, the FFIOT report editor revisited the concluded work items from the last conference call.

The group discussed whether the architecture and the contents in IEC/IEEE P60802 are relevant to this report.

Nader Zein, FFIOT report editor, led the resolution of comments received on [https://mentor.ieee.org/802.1/dcn/18/1-18-0025-06-ICne.pdf](https://mentor.ieee.org/802.1/dcn/18/1-18-0025-06-ICne.pdf).

**Disposition:** Comment resolutions recorded in [https://mentor.ieee.org/802.1/dcn/18/1-18-0052-09-ICne](https://mentor.ieee.org/802.1/dcn/18/1-18-0052-09-ICne).
Future Meetings

The next Nendica face-to-face meeting will be held 12 March 2019 at 7:30 PM in Vancouver, BC, Canada, and an additional backup slot will be considered on 13 March 2019 for comment resolution.

The Nendica Chair suggested to meet in both 802.1 and wireless interim meetings in May 2019.

At the request of FFIOT report editor, the group agreed to hold three teleconferences for comment resolution 31 January 2019, 7 February 2019 and 14 February 2019.

AOB
There was no other business to discuss and the meeting was adjourned at 11:40 AM.

8 Next Session
11-15 March 2019, Vancouver, BC, Canada