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| **Draft Minutes, Nendica Meeting, 2019-11-12/14** | | | |
| **Date: 2019-11-20** | | | |
| **Author(s):** | | | |
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**Abstract**

Draft minutes of the IEEE 802 Network Enhancements for the Next Decade Industry Connections Activity (Nendica) in-person meeting during the IEEE 802 Plenary Session of November 2019 in Waikoloa, USA.

# Attendance and affiliation

(to be inserted by 802.1 Working Group Secretary)

# Nendica

The IEEE 802 Network Enhancements for the Next Decade Industry Connections Activity (Nendica) Chair, Roger Marks, presided. Roger Marks wrote the minutes, incorporating detailed minutes recorded by Guido Hiertz at the 12 November meeting.

Minutes of Nendica conference calls are available at <https://1.ieee802.org/802-nendica/>.

In addition to the participants listed in section 1 who registered in IMAT, the following individuals were also reported as participating remotely (affiliation as understood by Nendica Chair):

* Sun Liyang, Huawei
* Xiang Yu, Huawei
* Jun Liu, Cisco
* Liang Guo, CAICT
* Lily Lyu, Huawei
* Wei Qui, Huawei
* Yin Yue, Huawei
* Lukas Wüsteney, Hirschmann

**Tuesday 12 November 2019**

**19:30 PM call to order by the Nendica Chair**

The Nendica Chair reminded the meeting of the no-recording policy as stated in <https://standards.ieee.org/about/policies/opman/sect5.html> and presented the IEEE-SA Guidelines for IEEE-SA Meetings <https://development.standards.ieee.org/myproject/Public/mytools/mob/preparslides.pdf>, the IEEE-SA Participation Slides <https://standards.ieee.org/content/dam/ieee-standards/standards/web/documents/other/Participant-Behavior-Individual-Method.pdf>, the IEEE 802 Participation slide <https://mentor.ieee.org/802-ec/dcn/16/ec-16-0180.pdf>, and IEEE ICCOM requirements<https://1.ieee802.org/802-nendica/ieee-iccom-requirements/>.

The Nendica Chair presented *IEEE 802* *Nendica Procedures* <https://1.ieee802.org/802-nendica/ieee-802-nendica-procedures/>.

**Agenda Approval**

The Nendica Chair presented the draft agenda made previously available.

**Disposition**: The agenda was reviewed, discussed and approved, as recorded in *Approved Nendica Agenda: 2019-11-12/14* <https://mentor.ieee.org/802.1/dcn/19/1-19-0086-00-ICne.pdf>.

**Update**

The Nendica Chair:

* Showed the Nendica webpage <https://1.ieee802.org/802-nendica/> (including the new Work Item Schedule <https://1.ieee802.org/nendica-schedule/>), the Nendica Mentor server <https://mentor.ieee.org/802.1/documents?is_group=ICne> hosting documents to be discussed, and how to record attendance on IMAT <https://imat.ieee.org/>. Upon request by an attendee, the Chair briefly reviewed the Nenduca scope per <https://standards.ieee.org/content/dam/ieee-standards/standards/web/governance/iccom/IC17-001-IE.pdf>.
* Presented *IEEE 802 “Network Enhancements for the Next Decade” Industry Connections Activity (Nendica): Meeting Overview, 2019-11*
* <https://mentor.ieee.org/802.1/dcn/19/1-19-0078-00-ICne.pdf>. No comments ensued.

**Review of Minutes**

The Nendica Chair reviewed the minutes of the 2019-09-16/19 meeting <https://mentor.ieee.org/802.1/dcn/19/1-19-0078-00-ICne.pdf>. No comments were raised.

The Nendica Chair reviewed the draft minutes of the Nendica teleconference of 2019-10-31 <https://mentor.ieee.org/802.1/dcn/19/1-19-0074-00-ICne.docx>.

**Disposition**: The Chair announced that the minutes <https://mentor.ieee.org/802.1/dcn/19/1-19-0074-00-ICne.docx> had been approved by unanimous consent.

**Flexible Factory IoT: Use Cases and Communication Requirements for Wired and Wireless Bridged Networks (FFIoT)**

Nader Zein discussed page 7 of <https://mentor.ieee.org/802.1/dcn/19/1-19-0078-00-ICne.pdf>, reporting the achievements and activities related to the Flexible Factory IoT report. He also reviewed the history and milestones of the project per the Nendica Work Item Schedule <https://1.ieee802.org/nendica-schedule/>.

**Disposition**:

The following motion was presented:

* **Motion**:
  + To introduce the following motion to the IEEE 802.1 WG: 'To confirm the approval of IEEE 802.1.19-0026-03-ICne (“Flexible Factory IoT...”) as a Nendica Report and process it for publication, subject to editorial revision.'.
  + Moved by Nader Zein, seconded by Paul Congdon
  + Yes: 16, No: 0, Abstain: 0
  + The Chair ruled that the motion was Approved.

**Potential new Work Item topics**

The Nendica Chair noted that he is a co-author of the next contribution on the agenda and would therefore recuse himself from the Chair position during that presentation and discussion. The Chair appointed Guido Hiertz as Acting Chair for that topic.

Antonio Oliva presented *Deterministic WLAN: A problem of scheduling and identifiers* <https://mentor.ieee.org/802.1/dcn/19/1-19-0079-00-ICne.pdf>, by Roger Marks, Antonio de la Oliva, and Lukas Wüsteney. Discussion followed.

**Disposition**:

Based on a request from Oliva, the following straw poll was conducted:

* + Should Nendica initiate a study item work on deterministic wireless?
  + Yes: 5, No: 0, Abstain: 10

Those interested in the topic are welcome to communicate with the contributors.

Marks resumed chairing the meeting.

**Study Item: Managed LAN as a Service [MLaaS]**

Wei Qiu presented *Use Cases and Requirements for Managed LAN as a Service (MLaaS)* <https://mentor.ieee.org/802.1/dcn/19/1-19-0082-00-ICne.pptx>, by Wei Qiu and Ron Insler.

**Disposition**:

* + Further discussion is anticipated in future meetings. Those interested in the topic are welcome to communicate with the contributors.

**Work Item Followup: Lossless Data Center Networks**

Jun Liu presented *Lossless Network* <https://mentor.ieee.org/802.1/dcn/19/1-19-0080-00-ICne.pptx>. [Note: It was subsequently noted that the contribution was Previously Published per the IEEE SA Copyright Policy.]

**22:00 PM recess**

**Thursday 14 November 2019**

**08:04 AM call to order by the Nendica Chair**

A WebEx teleconference call was opened. Local participants were encouraged to log their attendance on IMAT. Remote participants were encouraged to log their attendance on a separate system.

The Nendica Chair reminded the group of the IEEE-SA Guidelines for IEEE-SA Meetings, the IEEE-SA Participation slides, and the IEEE ICCOM requirements.

The Nendica Chair noted some minor updates proposed to the agenda agreed on Tuesday.

**Disposition**: The revised agenda was approved.

**Work Item Followup: Lossless Data Center Networks**

Liyang (Marcus) Sun, presenting remotely on behalf of Guo Liang, presented *Update: Lossless Networks in ODCC* <https://mentor.ieee.org/802.1/dcn/19/802.1-19-0077-00-ICne.pptx>, by Liang Guo and Liyang Sun.

Qingchun Song presented *RoCE Network Proposal*

<https://mentor.ieee.org/802.1/dcn/19/802.1-19-0081-00-ICne.pptx>.

Liyang (Marcus) Sun, presenting remotely, presented *Introduction of a Potential New Work Item for Data Center Network*

<https://mentor.ieee.org/802.1/dcn/19/802.1-19-0076-02-ICne.pptx>, by Liang Guo, Liyang Sun, Jun Liu, and Qingchun Song, which had previously been presented on the teleconference of 2019-10-31.

**Disposition**: Considering the four contributions on Lossless Data Center Networks, further contributions are expected toward the suggestion made in the last of these, to “propose a new work item of ILLDCN at the appropriate time” where ILLDCN is an abbreviation of “Intelligent Lossless Data Center Network.” Those interested in the topic are welcome to communicate with the contributors.

**New Topic**

Yolanda (Xiang) Yu presented *High Performance Computing Ethernet*  <https://mentor.ieee.org/802.1/dcn/19/802.1-19-0083-01-ICne.pdf>

**Disposition**: Those interested in the topic are welcome to communicate with the contributor. The Chair noted that further discussions should coordinate with the IEEE 802.3 Working Group regarding Ethernet-related topics.

**Procedures**

The Chair reviewed proposed revisions to the IEEE 802 Nendica Report Development Process, as indicated in additions shown in red at the web page <https://1.ieee802.org/802-nendica/ieee-802-nendica-procedures/>.

No comments were raised. The following motion was presented:

* **Motion**:
  + To adopt the amendments to the IEEE 802 Nendica Report Development Process, as indicated in red.
  + Moved by Congdon, seconded by Zein
  + Yes:9, No: 0, Abstain: 0

**Disposition**: The Chair announced that the motion had been approved. Note: The web site has been updated. The changes are memorialized in “Updates to IEEE 802 Nendica Procedures” (<https://mentor.ieee.org/802.1/dcn/19/1-19-0085-00-ICne.docx>).

**Future Meetings**

Nendica will meet during the IEEE 802.1 WG interim session the week of 20 January 2020 in Geneva.

The meeting agreed (none dissenting) to schedule a teleconference on 12 December at 09:00 AM US Eastern Time. The Chair will indicate to the organizers of the IEEE 802 Wireless Interim (of 13 January 2020 in Irvine, CA, USA) that Nendica may meet for two hours during that session, with decision to cancel that meeting possible during the teleconference of 12 December.

**Any Other Business**

The Nendica Chair thanked the participants and particularly Guido Hiertz for recording the minutes on Tuesday evening and standing in as Acting Chair for a time.

No further business was discussed in this session.

**09:54 AM adjournment**