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| **Draft Minutes, Nendica Meeting, 2019-03-12, 03-13** |
| **Date: 2019-03-16** |
| **Author(s):** |
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**Abstract**

Draft Minutes of the IEEE 802 Network Enhancements for the Next Decade Industry Connections Activity (Nendica) face-to-face meeting during IEEE 802 plenary on March 12th, and 13th, 2019.

The minutes are drafted following the common template provided by 802.1 secretary.

# Attendance and affiliation

[Provided by 802.1 Secretary]

## Nendica

The IEEE 802 “Network Enhancements for the Next Decade” Industry Connections Activity (Nendica) Chair, Roger Marks, presided.

Hao Wang wrote the minutes.

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

* Randy Haagens, Microsoft Corp. [Wed AM]
* Jesus Escudero-Sahuquillo (remote), University of Castilla-La Mancha (UCLM). [Wed AM]

**12 03 2019**

**19:30 (call to order by the Nendica Chair) to 21:16**

A conference call bridge was setup for remote participants.

The Nendica Chair presented the IEEE-SA PatCom Guidelines for IEEE-SA Meetings <https://development.standards.ieee.org/myproject/Public/mytools/mob/preparslides.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/>.

**Agenda Approval**

The Nendica Chair presented the agenda in <https://mentor.ieee.org/802.1/dcn/19/1-19-0024-00-ICne.pdf>.

**Disposition**: The agenda was reviewed, discussed and approved.

The Nendica Chair proposed to defer the data center agenda items to the second Nendica meeting period of 13 March**.**

**Update**

The Nendica Chair showed the update of the Nendica website, the documents on the Mentor server to be discussed, and how to do attendance on IMAT.

The Nendica Chair presented the status report the Nendica meeting overview <https://mentor.ieee.org/802.1/dcn/19/1-19-0023-00-ICne-nendica-meeting-overview-2019-03.pptx>.

**Review of Minutes**

The Nendica Chair presented the minutes of the conference call held 28 February 2019: <https://mentor.ieee.org/802.1/dcn/19/1-19-0021-00-ICne-minutes-of-nendica-meeting-of-2019-02-28.docx>;

**Disposition**: No comments were raised. Without object, the minutes were approved.

**ICAID Renewal**

The Nendica Chair presented the ICCOM Nendica Status Report <https://mentor.ieee.org/802.1/dcn/19/1-19-0015-01-ICne-iccom-nendica-status-report-draft.pptx>; the 2018 Annual Nendica Report <https://mentor.ieee.org/802.1/dcn/18/1-18-0078-02-ICne.ppt>; and the updated ICAID <https://mentor.ieee.org/802.1/dcn/18/1-18-0079-02-ICne-icaid-extension-and-revision-proposed-draft.docx>.

**Disposition**: No comments were raised. The following motion was presented:

**Motion**: ‘To agree to forward ICAID renewal draft accompanied by 2018 Annual Nendica Report and ICCOM Nendica Status Report as background information’,

Moved by Paul Congdon, seconded by Nader Zein.

Yes: 18, No: 0, Abstain: 0; Motion passed.

**FFIoT**

Nader Zein presented *FFIoT Status Report – IEEE 802 Nendica* <https://mentor.ieee.org/802.1/dcn/19/1-19-0022-01-ICne-ffiot-status-report-ieee-802-nendica-march-2019.pptx>. He also summarized the draft ‘*Flexible Factory IoT: Use Cases and Communication Requirements for Wired and Wireless Bridged Networks’* <https://mentor.ieee.org/802.1/dcn/18/1-18-0025-07-ICne-pre-draft-wired-wireless-use-cases-and-communication-requirements-for-flexible-factories-iot-bridged-network.pdf>

* The group discussed the date for the ballot of this draft. The Chair preferred to delay the opening until after Nendica is successfully renewed on March 21.
* **Disposition:** The following motion was presented.
* **Motion:** ‘To accept the Flexible Factory IoT report titled “Flexible Factory IoT: Use Cases and Communication Requirements for Wired and Wireless Bridged Networks” draft 802. 1-18-0025-07-ICne as the new “Nendica Draft Report” and initiate a 21-days Call for Comments starting March 21, 2019.’

Moved by Nader Zein, Seconded by Hao Wang, Yes: 18, No: 0, Abstain: 0;

The Chair offered to prepare the call for comments on the Nendica website.

**802.21 Study Group topic**

Dong-Il Dillon Seo presented ‘*Why you should care about VR network requirements*’ <https://mentor.ieee.org/802.21/dcn/19/21-19-0022-01-0000-why-you-should-care-about-the-vr-network-requirements.pptx>

* The group discussed the throughput and QoS requirements for the network in the proposed VR use cases.
* The group discussed standardization issues and sought to clarify the goals of the Study Group.
	+ Study Group is clarifying requirements for the network and is not authorized to develop a standard project at this stage;
	+ A participant pointed out the past effort of 802.1 AVB and TSN, suggesting an investigation on how well the current 802 technologies meet the VR use cases;
* **Disposition:** Further information is needed.

**Future meetings/teleconferences**

Agreed (informally, none dissenting) to hold a teleconference on 9:00AM ET 18th April 2019, and 9:00AM ET 7th May 2019.

The TG meets next during the May 2019 IEEE 802 wireless interim session in Atlanta, GA, US, and May 2019 IEEE 802.1 interim session in Salt Lake City, UT, US.

**13 03 2019**

**08:00 AM (call to order by the Nendica Chair) to 10:15 AM**

A conference call bridge was setup for remote participants.

**Lossless Data Center Networks (LLDCN)**

Jesus Escudero-Sahuquillo presented *Congestion Management for Ethernet-based Lossless DataCenter Networks,* <https://mentor.ieee.org/802.1/dcn/19/1-19-0020-00-ICne-presentation-on-congestion-management-for-ethernet-based-lossless-datacenter-networks.pdf>:

* More technical details can be found at <https://mentor.ieee.org/802.1/dcn/19/1-19-0012-00-ICne-congestion-management-for-ethernet-based-lossless-datacenter-networks.pdf>
* The group discussed the implementation of the idea and how it might be documented into a specification.
* The participants are willing to further engage in NANOG activity with this new work.
* **Disposition:** The presenter is encouraged to come back with new information in future meetings.

**Future meetings/teleconferences**

Agreed (informally, none dissenting) to hold one additional teleconference on 8:00AM PT 10th April 2019.

**A.O.B.**

No other business was discussed in this meeting.