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| **Draft Minutes, Nendica Meeting of 2020-01-20/22/23** |
| **Date: 2020-11-23**  |
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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 802.1 Interim Session of January 2020 in Geneva, CH.

1. Attendance and affiliation

 (to be inserted by 802.1 Working Group Secretary)

1. Nendica

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

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):

* none

**Monday 20 January 2020**

**18:00 PM call to order by the Nendica Chair**

The Nendica Chair 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>, IEEE SA Copyright slides <https://standards.ieee.org/content/dam/ieee-standards/standards/web/documents/other/copyright-policy-WG-meetings.potx>, IEEE 802 Participation slide <https://mentor.ieee.org/802-ec/dcn/16/ec-16-0180.pdf>, IEEE ICCOM requirements<https://1.ieee802.org/802-nendica/ieee-iccom-requirements/>, and the 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: 2020-01-20/22/23* <https://mentor.ieee.org/802.1/dcn/20/1-20-0011-00-ICne.pdf>. Note: The posted agenda reflects additional modifications made during Meetings #2 and #3.

**Update**

The Nendica Chair:

* Showed the Nendica webpage <https://1.ieee802.org/802-nendica/>, the Nendica Mentor server <https://mentor.ieee.org/802.1/documents?is_group=ICne> hosting documents to be discussed.
* Demonstrated how to record attendance on IMAT <https://imat.ieee.org/>.
* Presented *IEEE 802 “Network Enhancements for the Next Decade” Industry Connections Activity (Nendica): Status Report* <https://mentor.ieee.org/802.1/dcn/20/1-20-0009-00-ICne.pdf>. No comments ensued. Note: This report was revised following the session as Revision 01.]

**Review of Minutes**

The Nendica Chair reviewed the minutes of the 2019-11-12/14 meeting <https://mentor.ieee.org/802.1/dcn/19/1-19-0084-00-ICne.docx>. No comments were raised.

The Nendica Chair reviewed the draft minutes of the Nendica teleconference of 2019-12-12 <https://mentor.ieee.org/802.1/dcn/19/1-19-0093-00-ICne.docx>. No comments were raised.

**Disposition**: The Chair announced that the minutes <https://mentor.ieee.org/802.1/dcn/19/1-19-0093-00-ICne.docx> had been approved by unanimous consent.

The Nendica Chair reviewed the draft minutes of the Nendica teleconference of 2020-01-16 <https://mentor.ieee.org/802.1/dcn/20/1-20-0006-00-ICne.docx>. The Chair observed that the adjournment time was not specified and that he would create a Revision 1 with the adjournment time noted as 11:00 ET.

**Disposition**: The Chair announced that the minutes <https://mentor.ieee.org/802.1/dcn/20/1-20-0006-01-ICne.docx> had been approved by unanimous consent.

The Nendica Chair reviewed the draft minutes of the Nendica meeting of 2020-01-15 <https://mentor.ieee.org/802.1/dcn/20/1-20-0007-01-ICne.docx>. No comments were raised.

**Disposition**: The Chair announced that the minutes <https://mentor.ieee.org/802.1/dcn/20/1-20-0007-01-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 the “FFIoT Status Report – IEEE 802 Nendica” <https://mentor.ieee.org/802.1/dcn/20/1-20-0005-00-ICne.pptx>, reporting the progress of the Flexible Factory IoT Work Item.

Zein proceeded to conduct comment resolution, as recorded in the “Consolidated FFIOT Comments” <https://mentor.ieee.org/802.1/dcn/19/1-19-0091-03-ICne-consolidated-ffiot-comments.xlsx>.

**Disposition**:

* Comment resolution was nearly completed, but further discussion will take place later, on Wednesday and/or Thursday.

The meeting recessed at 21:30 PM.

**Wednesday 22 January 2020**

**10:03 AM call to order by the Nendica Chair**

A WebEx teleconference call was opened.

The Nendica Chair reminded the group of the IEEE-SA Guidelines for IEEE-SA Meetings, the IEEE-SA Participation slides, IEEE SA Copyright slides, IEEE 802 Participation slide, and IEEE ICCOM requirements

The Chair reviewed the agenda and noted two proposed changes, updating a document revision number and adding an item for “Complete FFIoT Comment Resolution,” the latter anticipated for Meeting #3 on Thursday.

**Disposition**: The revised agenda was agreed without objection.

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

Wei Qiu presented *Managed LAN as a Service (MLaaS) Study Item Update* <https://mentor.ieee.org/802.1/dcn/20/1-20-0008-00-ICne.pptx>. This included a proposal to delay the schedule, targeting Work Item initiation in July 2020.

**Disposition**:

* + The proposal to delay the schedule was reviewed without comment. Further discussion is anticipated in future meetings. Those interested in the topic are welcome to communicate with the contributors.

**New topics**

Marks presented *IEEE 802 Nendica Work Item Proposal: Revision of “The Lossless Network for Data Centers”* <https://mentor.ieee.org/802.1/dcn/20/1-20-0002-00-ICne.pdf>.

**Disposition**:

Marks agreed to issue a revision with changes to slide 7 to eliminate the word “obsolete”. Further consideration will be deferred pending the addition of details on Slide 8, or a document outline. Nendica agreement is targeted for a teleconference around February 5.

Marks presented *IEEE 802 Nendica Work Item Proposal: Network Stream and Flow Interworking* <https://mentor.ieee.org/802.1/dcn/20/1-20-0004-01-ICne.pdf>.

It was suggested to add a reference to the congestion notification tag of IEEE Sud 802.1Qau in the reference list of Slide 5.

It was suggested to add, on Slide 23, a reference to a possible joint meeting on 2020-03-17 of the 802.1 TSN Task Group and the 802.11 TGbe Task Group.

Based on a request from Marks, a straw poll was conducted concerning support for proceeding with this Work Item. The response was:

* + Yes: 6, No: 0, Abstain: 2

**Disposition**:

Agreement to submit the proposal was deferred until Meeting #3 or a teleconference meeting around February 5.

**11:57 AM recess**

**Thursday 23 January 2020**

**10:00 AM call to order by the Nendica Chair**

A WebEx teleconference call was opened.

The Nendica Chair reminded the group of the IEEE-SA Guidelines for IEEE-SA Meetings, the IEEE-SA Participation slides, IEEE SA Copyright slides, IEEE 802 Participation slide, and IEEE ICCOM requirements

The Chair reviewed the agenda and noted that two draft motions had been inserted, for information, based on indications from participants regarding intended motions.

**Disposition**: The revised agenda was approved without objection.

**Completion of FFIoT Comment Resolution**

Nader Zein reviewed the status of FFIoT comment resolution. Additional changes were agreed to the comment resolution database.

**Disposition**: Zein agreed to post the updated database as https://mentor.ieee.org/802.1/dcn/19/1-19-0091-05.xlsx.

**Motions**

The following motion was presented:

* **Motion**:
	+ To forward [802.1-20-0004-02](https://mentor.ieee.org/802.1/dcn/19/1-20-0004-02-ICne.pdf) <https://mentor.ieee.org/802.1/dcn/19/1-20-0004-02-ICne.pdf> ("IEEE 802 Nendica Work Item Proposal: Network Stream and Flow Interworking") for March approval by 802.1.
	+ Moved by Oliva, seconded by Zein

**Disposition**: The Chair announced that the motion had been approved without objection.

The following motion was presented:

* **Motion**:
	+ To accept the Consolidated FFIoT Comments sheet at https://mentor.ieee.org/802.1/dcn/19/1-19-0091-05.xlsx as the resolution of comments on Draft 4 of the Flexible Factory IoT report and forward for approval Draft 5, produced accordingly, pending a 15 day recirculation.
	+ Moved by Zein, seconded by Oliva

**Disposition**: The Chair announced that the motion had been approved without objection.

**Future Meetings**

Nendica will meet during the IEEE 802 Plenary Session the week of 10 March 2020 in Atlanta. It was tentatively agreed to plan for two meeting slots, one to tentatively be a short slot (Tuesday 18:00-19:30).

The meeting agreed (none objecting) to schedule teleconferences as follows:

* 5 February 09:00 AM US Eastern Time (focus: new Work Item proposals)
* 20 February 09:00 AM US Eastern Time (focus: FFIoT)
* 5 March 09:00 AM US Eastern Time (if necessary)

**Disposition**: The Chair will arrange facilities and schedule the teleconferences, using the historical two-hour duration.

**Any Other Business**

The Nendica Chair thanked the participants for their contributions.

No further business was discussed in this session.

**11:20 AM adjournment**