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| **Draft Minutes of the Nendica Meeting of 2020-04-23** |
| **Date: 2020-04-23** |
| **Author(s):** |
| **Name** | **Affiliation** | **Phone** | **email** |
| Roger Marks | Huawei Technologies Co., Ltd.; EthAirNet Associates | +1-802-capable | roger@ethair.net |

**Abstract**

Draft minutes of the IEEE 802 Network Enhancements for the Next Decade Industry Connections Activity (Nendica) teleconference meeting of 23 April 2020.

# Attendance and affiliation

(as declared)

|  |  |
| --- | --- |
| **Name** | **Affiliation** |
| KOTO, Hajime | National Institute of Information and Communications Technology (NICT) |
| Krieger, Ann | US Department of Defense |
| Marks, Roger | EthAirNet Associates |
| Zein, Nader | NEC Europe (NLE) |
| DeLaOlivaDelgado, Antonio | Universidad Carlos III Madrid |

The secretary noted no other attendees.

# Nendica

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

Roger Marks wrote the minutes.

**23 April 2020 09:00 ET (call to order by the Nendica Chair)**

The Nendica Chair noted the following materials, all provided beforehand via the agenda:

* IEEE-SA Guidelines for IEEE-SA Meetings <https://development.standards.ieee.org/myproject/Public/mytools/mob/preparslides.pdf>
* IEEE SA Copyright Slides <https://standards.ieee.org/content/dam/ieee-standards/standards/web/documents/other/copyright-policy-WG-meetings.potx>
* IEEE SA Participation Slides <https://standards.ieee.org/content/dam/ieee-standards/standards/web/documents/other/Participant-Behavior-Individual-Method.pdf>
* 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/>.

**Agenda Approval**

The Nendica Chair presented the previously-available draft agenda.

**Disposition**: The agenda was reviewed and approved without change. The approved agenda is recorded in the Annex below.

**Update and Attendance**

The Nendica Chair reviewed changes he had made to the Nendica web pages, including a display of the Nendica calendar on the front page.

The Nendica Chair discussed how to record attendance for the meeting, using the link embedded in the agenda. The Chair noted that Nendica is using the IEEE IMAT system for logging attendance. The participant list above in section 1 is provided from the attendance logs.

**Prior Minutes**

The Nendica Chair reviewed the draft minutes of meeting of 2020-04-09 in 802.1-20-0025-00. No comments were raised. The minutes were approved without objection.

**FFIoT**

Nader Zein reported that “IEEE 802 Nendica Report: Flexible Factory IoT — Use Cases and Communication Requirements for Wired and Wireless Bridged Networks” has been published on 17 April. He thanked the participants for their assistance in developing and completing the work. Marks noted that the document is published at IEEE sources and that, in addition, he had received permission to post the publication to Mentor. A link is available at <https://1.ieee802.org/802-nendica/nendica-ffiot/>. At the same page, Marks has posted instruction for commenting on the report, per the invitation included inside the report. It was suggested in the meeting that the ISBN number be added to the web page at the link; this was completed directly. Marks took an action to provide similar ISBN information at the LLDCN report. [Note: Action completed.] Marks noted that, upon request, he had received the editable source from IEEE SA staff for use as the DCN and SFI template.

**Data Center Networking [DCN]**

Marks noted that the meeting of 2020-04-16 had been cancelled due to lack of contributions and that the following meeting will be 2020-04-30.

**Stream and Flow Interworking [SFI]**

Marks introduced the SFI Work Item and the charter document “IEEE 802 Nendica Work Item Proposal: Network Stream and Flow Interworking” ([802.1-20-0004-04-ICne](https://mentor.ieee.org/802.1/dcn/20/1-20-0004-04-ICne.pdf)).

Marks presented the contribution “Examples of Stream and Flow Characterization”:

* <https://mentor.ieee.org/802.1/dcn/20/1-20-0028-00-ICne.docx>

proposing a list of network flow types to be studied and propising characteristics tables for three of these: IEEE 802.11 Traffic Streams, MEF Ethernet Virtual Connections, and DOCSIS Service Flows.

As a result of the discussion, some revisions were made, as incorporated in the posted Revision 1 of the contribution.

One participant offered to bring a contribution regarding 3GPP streams by mid-May. Others indicated that they would try to bring or encourage inputs on other items, including IEEE Std 1722 and 802.1 TSN.

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

No report was presented, and no discussion arose. The prior report remains current.

**Future meetings/teleconferences**

Nendica teleconferences are scheduled weekly, alternating between the two Work Item topics. Two days before each meeting, the agenda would be updated with contributions received or the Chair would announce cancellation of the meeting if no material was available for discussion.

An additional DCN meeting is scheduled for 2020-05-20, 09:00 ET.

The Chair noted that, as of 2020-04-21, the venue for the July 2020 IEEE 802 Plenary had been cancelled.

**A.O.B.**

None.

**Adjournment**

The meeting was adjourned at 10:22 ET.

**Annex: Approved Agenda**

| **Topic** | **Subtopic** | **Subtopic Detail** | **Doc/Link** | **Type\*** | **Lead** | **min** |
| --- | --- | --- | --- | --- | --- | --- |
| Information | Locations |  | teleconference only [[connect to Webex](https://ieeesa.webex.com/ieeesa/j.php?MTID=mbdc7e94851fdd6445afe8198e04ffe88)]Meeting number (access code): 711 616 530Meeting password: 802Nendica |  |  |  |
|  | Time | [2020-04-23 09:00 (2 hours)](https://www.timeanddate.com/worldclock/fixedtime.html?msg=Nendica+Teleconference&iso=20200423T0900&p1=179&ah=2) |  |  |  |  |
|  |  | Note: Meeting open to anyone |  |  |  |  |
| Opening | Call to Order |  |  |  |  | 2 |
|  | Identify secretary |  |  |  |  | 2 |
|  | Introductions |  |  | I |  | 1 |
|  | Guidelines for IEEE-SA Meetings |  | [Guidelines for IEEE-SA Meetings](https://development.standards.ieee.org/myproject/Public/mytools/mob/preparslides.pdf) | I |  | 2 |
|  | IEEE SA Copyright Policy |  | [IEEE SA Copyright slides](https://standards.ieee.org/content/dam/ieee-standards/standards/web/documents/other/copyright-policy-WG-meetings.potx) |  |  |  |
|  | IEEE SA Participation |  | [IEEE SA Participation slides](https://standards.ieee.org/content/dam/ieee-standards/standards/web/documents/other/Participant-Behavior-Individual-Method.pdf) | I |  | 2 |
|  | IEEE 802 Participation |  | [IEEE 802 Participation slides](https://mentor.ieee.org/802-ec/dcn/16/ec-16-0180.pdf) | I |  | 2 |
|  | IEEE ICCOM requirements |  | [IEEE ICCOM requirements](https://1.ieee802.org/802-nendica/ieee-iccom-requirements/) | I |  | 2 |
|  | Nendica Procedures |  | [Nendica Procedures](https://1.ieee802.org/802-nendica/ieee-802-nendica-procedures/) | I |  | 2 |
| Agenda Review | any modifications to the draft agenda | To approve the agenda as displayed |  | V |  | 1 |
| Update |  |  |  | I |  | 1 |
|  | Nendica Web Site |  | [Nendica Web Site](https://1.ieee802.org/802-nendica) | I |  | 1 |
|  | Nendica Mentor Server |  | [Nendica Mentor Server](https://mentor.ieee.org/802.1/documents?is_group=ICne) | I |  | 1 |
|  | Membership: none |  |  | I |  | 0 |
|  | Attendance | Register attendance and affiliation (IEEE web account required) | [Log Attendance using IMAT here](https://imat.ieee.org/sp7200043/attendance-log?d=04/23/2020&p=3024400005&t=524200043) | I |  | 2 |
|  |  |  |  |  |  |  |
| Minutes |  |  |  |  |  | 5 |
|  |  | To review the following minutes document: 802.1-20-0025-00 (2020-04-09) | [802.1-20-0025](https://mentor.ieee.org/802.1/dcn/20/1-20-0025-00-ICne.docx) | D |  |  |
|  |  |  |  |  |  |  |
| Concluding Work Items |  |  |  |  |  |  |
|  | [Flexible Factory IoT (FFIoT)](https://1.ieee802.org/802-nendica/nendica-ffiot/) | Report |  | I | Nader Zein | 3 |
| Work Items |  |  |  |  |  |  |
|  | Revision of “The Lossless Network for Data Centers” | status update | [802.1-20-0002-02](https://mentor.ieee.org/802.1/dcn/20/1-20-0002-02-ICne.pptx) |  |  | 5 |
|  | Network Stream and Flow Interworking |  |  |  |  | 60 |
|  |  | status update | [802.1-20-0004-04](https://mentor.ieee.org/802.1/dcn/20/1-20-0004-04-ICne.pdf) |  |  |  |
|  |  | Contributions |  |  |  |  |
|  |  | Examples of Stream and Flow Characterization | [802.1-20-0028-00](https://mentor.ieee.org/802.1/dcn/20/1-20-0028-00-ICne.docx) | I,D | Marks |  |
|  |  | Relevant documents from IEEE 802.11 AANI | [802.11-20-0013-01](https://mentor.ieee.org/802.11/dcn/20/11-20-0013-01-AANI.docx)[802.11-20-0580-00](https://mentor.ieee.org/802.11/dcn/20/11-20-0580-00-AANI.pptx) | I,D |  |  |
|  |  | Plans |  | D |  |  |
| Study Items |  |  |  |  |  |  |
|  | [Study Item: Managed LAN as a Service [MLaaS]](https://1.ieee802.org/802-nendica/nendica-mlaas/) |  |  | D | Wei Qiu | 0 |
| Future Meetings |  |  |  |  |  | 10 |
|  |  | future SFI telecons | every two weeks (using WebEx) | A |  |  |
|  |  | “virtual 802.1 WG Interim” | week of 2020-05-18; Nendica teleconference on the normal schedule (plus DCN Wed) | I,D |  |  |
|  |  | ~~in-person: Montreal (IEEE 802 Plenary) Week of 2020-07-14~~ | cancelled | I,D |  |  |
|  |  | teleconsNote 802.1 motion of November: “Authorize Nendica to hold teleconferences to progress work items and matters arising: – Dates/times to be announced subject to notice of at least 10 days to the 802.1 email exploder and website” |  | I,D |  |  |
| New Business |  |  |  |  |  |  |
|  |  | Any other business |  | I,D |  | 5 |
| Adjournment |  |  |  |  |  |  |
|  |  | \*I=Information D=Discussion A=Action V=Vote/Decision |  |  |  |  |