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| **Draft Minutes, Nendica Meeting, 2020-01-15** |
| **Date: 2020-01-16**  |
| **Author(s):** |
| **Name** | **Affiliation** | **Phone** | **email** |
| Max Riegel | Nokia Bell Labs | +49 173 2938240 | maximilian.riegel@nokia.com |

**Abstract**

Draft minutes of the IEEE 802 Network Enhancements for the Next Decade Industry Connections Activity (Nendica) in-person meeting during the IEEE 802 Wireless Interim Session of January 2020 in Irvine, CA.

# Attendance and affiliation

(as declared)

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| --- | --- | --- | --- |
| **Name (Family)** | **Name (Given)** | **Affiliation** | **Notes** |
| Krieger | Ann | US Department of Defense | Registered with IMAT on-site |
| Marks | Roger | Huawei; EthAirNet Associates | Registered with IMAT on-site |
| Riegel | Maximilian  | Nokia | On-site attendance noted by secretary |
| Wang | Hao | Self | On-site attendance noted by secretary |
| Cavalcanti | Dave | Intel Corporation | On-site attendance noted by secretary |
| Congdon | Paul   | Huawei | Registered as remote attendee |
| Zein | Nader   | NEC Europe Ltd - NLE | Registered as remote attendee |
| de la Oliva | Antonio | UC3M/InterDigital | Remote attendance noted by secretary  |

# Nendica

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

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

**Wednesday 15 January 2020**

**1:30 PM call to order by the Nendica Chair**

Max Riegel volunteered to act as meeting secretary.

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>, showed the new IEEE copyright policy <https://standards.ieee.org/content/dam/ieee-standards/standards/web/documents/other/copyright-policy-WG-meetings.potx> , 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 on https://1.ieee802.org/802-nendica/agenda-ieee-802-nendica-meeting-wireless/

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

**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/>.
* Provided an overview about the Nendica activities through presentation of <https://mentor.ieee.org/802.1/dcn/20/1-20-0003-00-ICne-nendica-meeting-overview-2020-01-15.pdf>
* Pointed out the next Nendica meeting (teleconference) scheduled for Jan 16th to progress FFIoT in preparation of the Geneva 802.1 meeting.

**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.

*Disposition*: No comments were raised.

The minutes of the teleconference of 2019-12-12 in <https://mentor.ieee.org/802.1/dcn/19/1-19-0093-00-ICne-draft-minutes-of-the-nendica-meeting-of-2019-12-12.docx> were reviewed.

*Disposition*: No comments were raised. The minutes were approved without objection.

**Reports**:

Nader Zein provided a status update of the FFIoT work item through brief presentation of <https://mentor.ieee.org/802.1/dcn/20/1-20-0005-00-ICne-ffiot-status-report-ieee-802-nendica-january-2020.pptx>

*Disposition*: Group agreed to proceed as proposed on the last slide of presentation.

**Potential new Work Item topics**

Chair introduced a proposal, for a revision to the data center Nendica Report, as “IEEE 802 Nendica Work Item Proposal: Revision of “The Lossless Network for Data Centers” in https://mentor.ieee.org/802.1/dcn/19/1-20-0002-00-ICne.pdf

It contains a proposal for new version of the report, obsoleting the prior version. Some material of the old version would be carried over with new content added as appropriate. Two editors were proposed to perform work in a timely fashion.

Discussions took place about potential timeline of activity. Aim to complete work by November 2020 plenary in Bangkok. Should be brought up to 802.1 and 802 at the March meeting.

*Disposition*: No objections or concerns against the proposal were raised. The proposal will be discussed again at Nendica meeting next week with Nendica to conclude about further proceeding.

Max Riegel stepped in as acting chair for the presentation of a completely new work item proposal by Roger Marks.

Roger presented his “IEEE 802 Nendica Work Item Proposal: Network Streams and Flows” (<https://mentor.ieee.org/802.1/dcn/20/1-20-0004-00-ICne-ieee-802-nendica-work-item-proposal-network-streams-and-flows.pdf>)

Comments were made on the potential relation to 802.1Q, on a potential inclusion of the service flow concept of DSL access, on the mapping of service flows between DOCSIS and IEEE 802.11, and on available support in and necessary amendments to the IEEE 802.11 specification.

*Disposition*: Roger was asked to provide hints how the proposed document could be structured through the amendment of an outline example, and to present and discuss further the proposal at the upcoming 802.1 interim meeting.

Max Riegel stepped down as acting chair at the end of the presentation and discussion of Roger’s proposal. Roger Marks continued as chair.

**Future Meetings**

A Nendica teleconference will take place on January 16th at 9AM ET to progress FFIoT comment resolution.

Nendica will meet during the IEEE 802.1 WG interim session the week of 20 January 2020 in Geneva. The proposed agenda comprises 3 meeting slots, with the first mainly aimed for comment resolution of FFIoT. Remote participation will be facilitated for all meeting slots.

Further meetings will be scheduled at the Geneva session.

**Any Other Business**

The Nendica Chair thanked the participants for their comments and thoughts.

No further business was discussed in this session.

**3:30 PM adjournment**

**Annex: Approved Agenda**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Topic** | **Subtopic** | **Subtopic Detail** | **Doc/Link** | **Type\*** | **Lead** | **min** |
| Information | Date/time | <a href=“https://www.timeanddate.com/worldclock/fixedform.html?year=2020&month=1&day=15&hour=13&min=30&sec=0&p1=840&ah=2&msg=Nendica” rel="noopener" target="\_blank">2020-01-15 13:30</a> | Santiago Room, Hotel Irvine |  |  |  |
|  | Remote connectivity available upon request to the Nendica Chair at least 24 hours in advance. | Note: Meeting open to anyone interested | https://zoom.us/j/8028021980 | RogerMarks |
| Opening | Call to Order |  |  |  |  | 1 |
|  | Identify meeting secretary |  |  |  | Max Riegel | 1 |
|  | Introductions |  |  | I |  | 1 |
|  | Guidelines for IEEE-SA Meetings |  | <a href="https://development.standards.ieee.org/myproject/Public/mytools/mob/preparslides.pdf">Guidelines for IEEE-SA Meetings</a> | I |  | 1 |
|  | IEEE SA Participation |  | <a href="https://standards.ieee.org/content/dam/ieee-standards/standards/web/documents/other/Participant-Behavior-Individual-Method.pdf">IEEE SA Participation slides</a> | I |  | 1 |
|  | IEEE SA Copyright Policy |  | <a href="https://standards.ieee.org/content/dam/ieee-standards/standards/web/documents/other/copyright-policy-WG-meetings.potx">IEEE SA Copyright slides</a> | 1 |
|  | IEEE 802 Participation |  | <a href="https://mentor.ieee.org/802-ec/dcn/16/ec-16-0180.pdf">IEEE 802 Participation slides</a> | I |  | 1 |
|  | IEEE ICCOM requirements |  | <a href="https://1.ieee802.org/802-nendica/ieee-iccom-requirements/">IEEE ICCOM requirements</a> | I |  | 1 |
|  | Nendica Procedures |  | <a href="https://1.ieee802.org/802-nendica/ieee-802-nendica-procedures/">Nendica Procedures</a> | I |  | 1 |
| Agenda Review | any modifications to the draft agenda | To approve the agenda as displayed |  | V |  | 1 |
| Update |  |  |  | I |  |  |
|  | Nendica Web Site |  | <a href="https://1.ieee802.org/802-nendica"> Nendica Web Site </a> | I |  | 1 |
|  | Nendica Mentor Server |  | <a href="https://mentor.ieee.org/802.1/documents?is\_group=ICne"> Nendica Mentor Server </a> | I |  | 1 |
|  | Membership: none |  |  | I |  | 0 |
|  | Attendance | Onsite? <a href="https://imat.ieee.org/sp7200043/attendance-log?p=2966500005&t=524200043">Register with 802 IMAT</a> | Offsite? <a href="https://forms.zohopublic.com/virtualoffice15133/form/RSVP/formperma/sR48N3urdRWNU4-HXPJcQB4T27Zdn9dO1Qs4TkDQnXc">Register attendance here</a> | I |  | 2 |
|  | Nendica Meeting Overview |  | <a href="https://mentor.ieee.org/802.1/dcn/19/1-20-0003-00-ICne.pdf">802.1-20-0003-00</a> | I | Marks | 1 |
| Minutes |  |  |  |  |  | 3 |
|  |  | Review the following minutes documents: 802.1-19-0084-00 (2019-11-12/14); also telecon minutes | <a href="https://mentor.ieee.org/802.1/dcn/19/1-19-0084-00-ICne.docx">802.1-19-0084-00</a> | D |  |  |
| Work Items |  |  |  |  |  |  |
|  |  | Report, progress, comment resolution | <a href="https://1.ieee802.org/802-nendica/nendica-ffiot/">Flexible Factory IoT (FFIoT)</a> | I |  | 3 |