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| Draft Minutes, Nendica Meeting, 2019-04-24 |
| **Date: 2019-04-24** |
| **Author(s):** |
| **Name** | **Affiliation** | **Phone** | **email** |
| Roger Marks | Huawei | +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 24 April 2019.

## Call to order

The Chair called the meeting to order at 11:02 ET.

The Chair volunteered to record the minutes.

The Chair reviewed the IEEE-SA guidelines, IEEE 802 meeting participation rules, and IEEE ICCOM requirements, as embedded in the agenda.

## Agenda

The Chair reviewed the proposed agenda in <https://1.ieee802.org/802-nendica/agenda-ieee-802-nendica-meeting/>.

* The agenda was approved without objection (see approved agenda as attached in Annex).

The Chair indicated that the participants should mark their attendance and disclose their affiliation by filling out the online form. (See attendance list in Annex)

## Minutes

IEEE 802.1-19-0028-00 was reviewed as the draft minutes of the teleconference meeting of 24 April 2019. No comments were raised.

## Work Items

• Flexible Factory IoT (FFIoT)

No FFIoT issues were raised.

• Lossless Data Center Networks (LLDCN)

Congdon presented IEEE 802.1-19-0035-00 (“IETF-104 DCN HyperScale RDMA HPC Report”), summarizing a meeting he had organized at IETF 104 the week of 23 March and had discussed during the Nendica teleconference of 10 April.

Per the agenda, the meeting revisited prior discussion about the organization of an activity at NANOG 76 to promote NANOG awareness of Nendica data center activity and of the opportunity to contribute to the further development of such work, particularly regarding operator problems, needs, and requirements. Marks noted that, as discussed during the Nendica teleconference of 10 April, he had submitted a title and abstract for a two-hour track, as follows:

Next Generation Data Center Fabrics: Do New Technologies meet Operator Needs?

Abstract: New technologies are emerging to improve the performance and scale of large cloud-centric data center networks as they evolve to address new and popular application scenarios such as Artificial Intelligence (AI) and Online Data Intensive services (OLDI). Some of these technologies are advancing through the standardization process and could soon be broadly available to industry. Other new technologies are in the research phase and would benefit from a review with operators. This track will overview the recent developments, particularly from the perspective of the IEEE 802 and IETF standards committees. It will also encourage the participants to discuss problems and inefficiencies in their current data center operations, trying to identify which problems are currently being addressed and which are in need of new solutions or further developments. The track is a followup to a talk at NANOG 75 ("Lossless Data Center Networks: Opportunities for NANOG Engagement with IEEE 802 Nendica") and will seek to lay the groundwork for future activity at NANOG 77, if deemed appropriate. The track will feature presentations by 3-4 speakers and Q&A with the attendees.

Marks indicated that he intended to speak during the track, and Congdon indicated that he would like to speak there about congestion isolation and would also like to have the topics raised in the IETF side meeting present. It was agreed that interested speakers should contact Marks or Congdon.

## Future Meetings

## IEEE 802 Wireless Interim, Atlanta, 2019-05-14 19:30, agenda to include general topics

## IEEE 802.1 Interim, Salt Lake City, 2019-05-20/21/22, agenda to include FFIoT Comment Resolution and Data Center Networks planning.

## Conclusion

The meeting was adjourned at 11:48 ET.

## Attendance

|  |  |
| --- | --- |
| ***Name*** | ***Affiliation*** |
| Marks, Roger | Huawei (per attendance log) |
| Congdon, Paul | Huawei/Tallac (per attendance log) |
| Scheffenegger, Richard  | NetApp (per attendance log) |
| Haagens, Randy | Microsoft Corporation (per prior minutes) |

## Agenda

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| --- | --- | --- | --- | --- | --- | --- |
| **Topic** | **Subtopic** | **Subtopic Detail** | **Doc/Link** | **Type\*** | **Lead** | **min** |
| Information | Date/time |   | [2019-04-24, 11:00-13:00 ET](https://www.timeanddate.com/worldclock/fixedtime.html?msg=Nendica+Teleconference&iso=20190424T11&p1=179&ah=2) |   |   |   |
|   | join.me connection link | Note: Meeting open to anyone interested | <https://join.me/Nendica802> |   |   |   |
| Opening | Call to Order |   |   | I | Marks | 2 |
|   | Identify secretary |   |   |   |   | 1 |
|   | 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 802 Participation |   | [IEEE 802 Participation](https://mentor.ieee.org/802-ec/dcn/16/ec-16-0180.pdf) | I |   | 1 |
|   | IEEE ICCOM requirements |   | [IEEE ICCOM requirements](https://1.ieee802.org/802-nendica/ieee-iccom-requirements/) | I |   | 1 |
|   | Attendance | [Log Attendance here](https://forms.office.com/Pages/ResponsePage.aspx?id=rxP5CJot_Uq-JmG5No1M0LV6oY5k9-RPr7c6vZe3D-pUQjNJWEk2V1ZNVkhFTzRMR1VYN0pQV0w3RC4u) |   | I |   | 2 |
| Agenda | any modifications to the Agenda | approval of the agenda as displayed |   | V |   | 1 |
| Update | [Nendica Web Site](https://1.ieee802.org/802-nendica) |   |   | I |   | 0 |
|   | [Nendica Mentor Server](https://mentor.ieee.org/802.1/documents?is_group=ICne) |   |   | I |   | 1 |
|   | Membership: none |   |   | I |   | 0 |
| Minutes |   |   |   |   |   |   |
|   |   | review minutes of the Nendica meeting of 2019-04-10 | [IEEE 802.1-19-0028-00](https://mentor.ieee.org/802.1/dcn/19/1-19-0028-00-ICne.docx) | I,D |   | 2 |
| Work Items |   |   |   |   |   |   |
|   | Flexible Factory IoT (FFIOT) |   |   |   |   |   |
|   |   | Plans |   | D |   | 1 |
|   | Lossless Data Center Networks (LLDCN) |   |   |   | Congdon | 50 |
|   |   | IETF-104 DCN HyperScale RDMA HPC Report | [IEEE 802.1-19-0035-00](https://mentor.ieee.org/802.1/dcn/19/1-19-0035-00-ICne.pdf) | I,D |   |   |
|   |   | NANOG 75 and possible followup in NANOG 76 | [IEEE 802.1-19-0004-02](https://mentor.ieee.org/802.1/dcn/19/1-19-0004-02-ICne.pptx) | D |   |   |
|   |   | Any followup to "Congestion Management for Ethernet-based Lossless DataCenter Networks" | [IEEE 802.1-19-0012-00](https://mentor.ieee.org/802.1/dcn/19/1-19-0012-00-ICne.pdf) | D |   |   |
| Future Meetings |   | Teleconferences | none planned | I |   | 1 |
|   |   | 2019-05, IEEE 802 Wireless Interim, Atlanta, 2019-05-14 19:30 | agenda to include general topics |   |   | 2 |
|   |   | 2019-05, IEEE 802.1 Interim, Salt Lake City, 2019-05-20 & 21 | agenda to include FFIoT Comment Resolution and Data Center Networks planning |   |   | 2 |
| New Business |   |   |   |   |   |   |
|   |   | Any other business |   | I,D |   | 5 |
| Adjournment |   |   |   |   |   |   |
|   |   | \*I=Information D=Discussion A=Action V=Vote/Decision |   |   |   | 75 |