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| **Draft Minutes, Nendica Meeting, 2019-07-15/18** |
| **Date: 2019-07-26 (revised as highlighted, 2019-08-21, in Nendica meeting)** |
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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 Plenary Session in Vienna, Austria on 15 and 18 July 2019.

# Attendance and affiliation

 (to be inserted by 802.1 Working Group Secretary)

# Nendica

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

Minutes of the Nendica conference calls held since the last plenary session 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 also participated:

* Jesus Escudero-Sahuquillo (University of Castilla-La Mancha, Spain) (remotely, second meeting)

**Monday 15 July 2019**

**7:30 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 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 discussed how to record attendance for the meeting, using the link embedded in the agenda. The participant list above in section 1 is provided from the logs.

**Agenda Approval**

The Nendica Chair presented the previously-available draft agenda.

**Disposition**: The agenda was reviewed, discussed and approved, as recorded in *Approved Nendica Agenda: 2019-07-15/18* <https://mentor.ieee.org/802.1/dcn/19/1-19-0060-00-ICne.pdf>.

**Update**

The Nendica Chair showed the Nendica webpage <https://1.ieee802.org/802-nendica/>, the documents on the Mentor server to be discussed, and how to record attendance on IMAT.

The Nendica Chair presented *IEEE 802 Network Enhancements for the Next Decade” Industry Connections Activity (Nendica): Status Report* <https://mentor.ieee.org/802.1/dcn/19/1-19-0053-00-ICne.pptx> (updated following the meeting as <https://mentor.ieee.org/802.1/dcn/19/1-19-0053-01-ICne.pptx>).

**Review of Minutes**

The Nendica Chair reviewed the minutes of two previous teleconferences. <https://mentor.ieee.org/802.1/dcn/19/1-19-0049-00-ICne.docx> and (2019-06-05) and <https://mentor.ieee.org/802.1/dcn/19/1-19-0050-00-ICne.docx> (2019-06-17)

**Disposition**: The minutes were reviewed and approved by unanimous consent.

The Nendica Chair reviewed “Draft Minutes of Nendica meeting of 2019-05-20/21”. No comments arose.

**Flexible Factory IoT: Use Cases and Communication Requirements for Wired and Wireless Bridged Networks (FFIoT)**

Nader Zein presented the document “FFIoT Status Report – IEEE 802 Nendica” [https://mentor.ieee.org/802.1/dcn/19/1-19-0054-00](https://mentor.ieee.org/802.1/dcn/19/1-19-0033-05-ICne.xlsx). Zein then presented the document “Consolidated FFIOT Comments” <https://mentor.ieee.org/802.1/dcn/19/1-19-0033-07>. There was a group discussion on the presentation, on the format for the updated draft, and about the next Call for Comments. A decision on the Call for Comments was deferred to the “Motions” item on the Thursday agenda.

**Lossless Data Networks**

Paul Congdon presented the document “Nendica at Nanog-76” [https://mentor.ieee.org/802.1/dcn/19/1-19-0055-00](https://mentor.ieee.org/802.1/dcn/19/1-19-0055-00-ICne). Congdon discussed his experience attending the conference and the presentations that he and the Nendica Chair made at the conference. The Nendica Chair noted, in response to the presentation, that neither the track nor the presentations at the conference had been from Nendica formally but were from individuals sharing information about Nendica activity. He also encouraged members of the group to consider presenting at NANOG in the future.

**Future Directions**

**New Network Requirements for Service Provider Managed-LAN**

Wei Qiu presented the document “Nendica-New network Requirements for Service Provider Managed-LAN” [https://mentor.ieee.org/802.1/dcn/19/1-19-0051-02](https://mentor.ieee.org/802.1/dcn/19/1-19-0051-02-ICne.pptx). Following discussion, the Nendica Chair suggested that one potential next step from this presentation could be the creation of a new Nendica Work Item or Study Item, reviewing the relevant Nendica procedures. There was a group discussion on this issue, with a decision deferred to the “Motions” item on the Thursday agenda (which was later expanded to include the “Initiating a new Study Item” line).

**Lossless Network for RDMA in ODCC**

Jie Li presented the document “LOSSLESS Network for RDMA in ODCC” [https://mentor.ieee.org/802.1/dcn/19/1-19-0056-00](https://mentor.ieee.org/802.1/dcn/19/1-19-0056-00-ICne.pptx). Group discussion followed.

**Testing Lossless Network for RDMA**

Liang Guo presented the document “Testing LOSSLESS Network for RDMA” [https://mentor.ieee.org/802.1/dcn/19/1-19-0057-00](https://mentor.ieee.org/802.1/dcn/19/1-19-0057-00-ICne.pptx). Group discussion followed. The presenter suggested that additional details would be provided in a forthcoming contribution.

**A.O.B.**

The Nendica Chair noted to the group that many attendees have not logged their attendance and affiliation, based on a count of those present compared to those registered. He encouraged all attendees to record their attendance.

**9:06 PM recess**

**Thursday 18 July 2019**

**8:00 AM call to order by the Nendica Chair**

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

**Future Directions (continued)**

**Congestion Control Strategies**

Jesus Escudero Sahaquillo joined the meeting through teleconference means and presented the document “Strategies to drastically improve congestion control in high performance data centers: next steps for RDMA” <https://mentor.ieee.org/802.1/dcn/19/1-19-0052-03>. Group discussion ensued.

**Motions**

**FFIoT Report and Call for Comments**

Nader Zein presented the document “FFIoT Status Report – IEEE 802 Nendica” [https://mentor.ieee.org/802.1/dcn/19/1-19-0054-01](https://mentor.ieee.org/802.1/dcn/19/1-19-0054-01-ICne.pptx) with an emphasis on a motion proposed on the last slide. This proposal was revised during discussion.

**Motion (9:31am)**: A Motion was made by Nader Zein “To accept the Flexible Factory IoT report titled “Flexible Factory IoT: Use Cases and Communication Requirements for Wired and Wireless Bridged Networks” in 1.19-0026-02-Icne as the new “Nendica Draft Report” and initiate a 30-days Final Call for Comments restricted to modified text only,” seconded by Hajime Koto. The motion passed by unanimous consent.

**New Managed LAN**

Wei Qiu presented “Proposal for Nendica Study Item - New Managed LAN” <https://mentor.ieee.org/802.1/dcn/19/1-19-0059-00>. Discussion ensued regarding the detailed text of the proposal.

**Motion (9:46am)**: “To initiate a Nendica Study Item to lead to a Nendica Report on Managed LAN as a Service, developing within the Study item:

* Documented Requirements,
* Demonstration of current gaps,
* Demonstration of feasible approaches to closing gaps
* with a focus on the scenario where LAN is planned, implemented, operated and maintained by a remote service provider and a focus on Layer 2 and up.”

The motion was made by Wei Qiu, seconded by Paul Congdon. The motion was approved by unanimous consent. The Nendica asked Qiu to lead the Study Item, and he agreed.

**Future Meetings**

The Nendica Chair reminded the group that it will meet at the 802.1 Interim session in Edinburgh during September. The Chair will attempt to arrange for the meetings to be held in the morning to promote participation from those attending the 802 Wireless Interim session that week in Hanoi.

The group decided to schedule 3 future teleconference calls:

* August 21, 9-11am ET (Focus: “Managed LAN as a Service” Study Item)
* August 28, 9-11am ET (Focus: FFiOT Comment Resolution)
* September 4, 9-11 am ET (Focus: FFiOT Comment Resolution)

**Any Other Business**

No further business was discussed in this session.

**10:06 AM adjournment**