IEEE P802.11  
Wireless LANs

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| ARC SC 12 and 26 June 2023 Teleconference Minutes | | | | |
| Date: 2023-06-26 | | | | |
| Author(s): | | | | |
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Abstract

This document contains the minutes of the IEEE 802.11 ARC SC teleconference held on 12 June 2023 at 13:00-15:00 h ET and 26 June 2023 at 14:00-15:00 h ET.

R1: Added minutes for 26 June 2023 Teleconference.

Note: Highlighted Yellow text are action items. A- precedes comments from the document’s author, C- precedes comments, R- precedes responses to comments.

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# Monday 12 June 2023 at 13:00-15:00 h ET

## Administration:

**Chair: Mark Hamilton, Ruckus/CommScope**

**Vice Chair: Joseph Levy, InterDigital**

**Secretary: Joseph Levy, InterDigital**

**Meeting called to order by the Chair 13:05 ET**

Agenda slide deck: [11-23/1002r0](https://mentor.ieee.org/802.11/dcn/23/11-23-1002-00-0arc)

**Agenda Slides 4-14:**

**Registration Reminder**

**Reminders to Attendees**

**Call for Patents:**

The Chair reviewed the Patent policy and called for potentially essential patents – there was no response to the call.

**IEEE SA Copyright Policy:**

The chair reviewed the Copyright policy.

**Participation:**

The chair reviewed the participation policy.

**Approval of the Agenda (Slides 15)**

* Attendance, noises/recording, meeting protocol reminders
* Policies, duty to inform, participation rules
* June/July plan reminder:
  + Teleconferences on June 12 (today) and June 26, to discuss how to define “IEEE 802 Network” for REV802
  + Annex G discussion to resume at July plenary
* Any update on IEEE 802 Revision?
* Definition of “IEEE 802 Network”

The Chair reviewed the agenda and called for comments and additions.

## June/July plan reminder

The Chair reviewed the current working plan as outlined in the agenda.

* Teleconferences on June 12 (today) and June 26, to discuss how to define “IEEE 802 Network” for REV802
* Annex G discussion to resume at July plenary

No questions or comments.

## Any update on IEEE 802 Revision?

No update – there have been no meetings – then next meeting is 20 June 2023, for meeting details see: [https://1.ieee802.org/p802-revc-comment-resolution-agenda-june-20-2023-11-am-et/](https://protect-us.mimecast.com/s/MHd5CpYW6whnmvxzCBSM7X?domain=1.ieee802.org).

## Definition of “IEEE 802 Network”

(*See slide 17, 18, 19, and 20 of the agenda deck, for the Chair’s summary of the “issues”*)

The Chair reviewed the “issues” with the “IEEE 802 Network” wording/use.

C – Are the terms LAN, MAN, be a better way to describe this?

Chair – I don’t know if we have technical terms for all of these.

C – The issue is really how these networks “connect”.

C – Should non-peer to peer also be included?

Chair – We need to be very careful – how the term bridge is used in STD 802.11 is critical, a bridge needs to be well defined. In STD 802.11 there are little b bridges and a big b Bridges, these are different – a bridge connects access domains, and a Bridge is an 802.1Q device that connects access domains.

C – Is it two parallel definitions?

C – On access domains – how do these relate to 802.11’s BSS and ESS concepts – An access domain is currently defined in .11 as BSS. How does this relate to MLD. And such.

C – The essential nature of 802 networks is the endpoint identifier and how the “address” is used to forward the packet to the desired endpoint.

C – An access network may be front haul or back haul – back haul may connect other networks.

Max Riegel – agreed to propose definition for an IEEE 802 network and start an ARC SC reflector discussion. Suggesting that interested parties build on proposed definition.

Actions pending:

1. Check the definition of: “Portal”, “bridge”, and “Bridge” in both IEEE Std 802 REVc D1.0 and IEEE Std 802.11 and any other related 802.1 standard, to verify if the definitions are consistent and compatible with how 802.11 uses the term “Portal” and the 802.11 architecture network interface.
2. Max Riegel to kick off an ARC SC reflector discussion on the definition of IEEE 802 network.

## Adjourned: 14:02 h ET

Final Agenda: [11-23/1002r1](https://mentor.ieee.org/802.11/dcn/23/11-23-1002-01-0arc-arc-sc-agenda-june-12-2023.pptx)

# Monday 26 June 2023 at 14:00-15:00 h ET

## Administration:

**Chair: Mark Hamilton, Ruckus/CommScope**

**Vice Chair: Joseph Levy, InterDigital**

**Secretary: Joseph Levy, InterDigital**

**Meeting called to order by the Chair 14:02 ET**

Agenda slide deck: [11-23/1036r0](https://mentor.ieee.org/802.11/dcn/23/11-23-1036-00-0arc-arc-sc-agenda-june-26-2023.pptx)

**Agenda Slides 4-14:**

**Registration Reminder**

**Reminders to Attendees**

**Call for Patents:**

The Chair reviewed the Patent policy and called for potentially essential patents – there was no response to the call.

**IEEE SA Copyright Policy:**

The chair reviewed the Copyright policy.

**Participation:**

The chair reviewed the participation policy.

**Approval of the Agenda (Slides 15)**

* **Attendance, noises/recording, meeting protocol reminders**
* **Policies, duty to inform, participation rules**
* **June/July plan reminder:**
  + Teleconferences on June 12 (past) and June 26 (today), to discuss how to define “IEEE 802 Network” for REV802
  + Annex G discussion to resume at July plenary
* **Update on IEEE 802 Revision**
* **EPD/LPD discussion in 802REVc**
* **Definition of “IEEE 802 Network”**

The Chair reviewed the agenda and called for comments and additions.

## Update on IEEE 802 Revision?

**EPD/LPD**

Roger Marks presented 11-20-0174

Discussion on the need for EPD and LPD – the current statement is new standards shall support EPD.

C – There is no EPD requirement for general 802, just new and there is a should for LPD.

(On slide 5, 802.3 supports both EPD and LPD 11-20-0174).

C – 802.11 to define a length type field.

Chair – suggested that annex M should be reviewed.

C – There are three ways – length type, SNAP, or LSAP address and .11 uses length type and SNAP.

C – When you ask for all standards to support LPD are you talking native or SNAP?

R – they should be able to use LSAP Identifiers.

C – when 802.11 added this – it seemed that the 802.3 style of using EtherTypes (EPD)

A – the Ethernet method is L/T encoding – which is what I think things are moving to.

C – Not sure if we were trying to do L/T or Ethernet protocol of 802.3.

A – suggesting language saying shall support L/T –

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Chair – Additional review this information should be done, thanking the author for this information.

AI - Follow up with additional discussion on the reflector.

Chair – It comes down to where does this stuff actually get used.

**Definition of 802 network**

The reflector discussion on the definition was reviewed.

C – The current definition is written as the internet is an 802 network.

C – An IP network could still use 802 MAC addresses below the IP network.

C – An 802 network would operate at layer 2 – using layer 2 addresses.

C – Forwarding is based on layer two addresses.

C – Support of the MAC ISS – which is not available in all protocols in 802, e.g., 802.15.

Discussion on the proposed definition on slide 18.

Working the definition:

IEEE 802 network: an interconnected group of two or more devices that forward user data frames according to IEEE 802 MAC addresses, and IEEE 802 MAC addresses identify the endpoints of the communications.

The discussion did not reach a conclusion. Will continue the discussion in at the next ARC meeting.

## Adjourned: 15:02 h ET

Final Agenda: [11-23/1036r1](https://mentor.ieee.org/802.11/dcn/23/11-23-1036-01-0arc-arc-sc-agenda-june-26-2023.pptx)

## Attendance 12 June 2023:

From IMAT:

|  |  |
| --- | --- |
| **Name** | **Affiliation** |
| Fang, Yonggang | MediaTek Inc. |
| Hamilton, Mark | Ruckus/CommScope |
| Levy, Joseph | InterDigital, Inc. |
| Riegel, Maximilian | Nokia |
| Rosdahl, Jon | Qualcomm Technologies, Inc. |
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## Attendance 26 June 2023:

From IMAT:

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| --- | --- |
| **Name** | **Affiliation** |
| Hamilton, Mark | Ruckus/CommScope |
| Levy, Joseph | InterDigital, Inc. |
| Marks, Roger | EthAirNet Associates |
| Riegel, Maximilian | Nokia |
| Rosdahl, Jon | Qualcomm Technologies, Inc. |
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