



# IEEE 802 EC 5G/IMT-2020 standing committee

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March 2016

Mentor DCN: EC-16-0049-00-5GSG 3/18/2016

# Meeting Summary

# Agenda for March 2016 meeting

- **Monday**
  - **Introduction (17-02) – Glenn Parsons**
    - Role of this standing committee
  - **802 5G Project analysis (36)**
  - **ITU-R IMT-2020 (10, 34) – Roger Marks**
  - **ITU-T IMT-2020 (37) – Glenn Parsons**
  - **IEEE 5G (35-01)– Patrik Slaats**
- **Tuesday**
  - **Contributions**
    - 802.1CM (38-01) – Janos Farkas
    - 802.1CF (39) – Max Riegel
    - 802.3 (40-01) - Marek Hajduczenia
    - 802.11 (41)– Joseph Levy
    - 802.15 (42) – Bob Heile
    - 3GPP RAN 2 (43) – Richard Burbidge
  - **Next Steps**
- **Wednesday**
  - **Scope revision**

# Summary

- **Vibrant discussion**
  - level set on ITU IMT-2020, IEEE 5G and 3GPP 5G
  - assessment of 802 projects
    - there are multiple projects that are related to 5G
  - ~130 attendees but only 6 want to contribute
- **Consensus on**
  - Report framework
  - Meeting schedule and conference calls
- **Additional meeting - scope revision**
  - Initiated based on view that some points were missing
    - Spectrum and IMT-Advanced
  - No consensus on revised scope...

# Meetings

- **Face-to-Face Meetings *proposal***
  - March 14 & 15 – IEEE 802 plenary, Macau, CN
  - ~~April 22 – IEEE SA CAG, 5G workshop, Tokyo, JP~~
  - May 20 – IEEE 802 wireless interim, Waikoloa, HI
  - May 25 – IEEE 802.1 interim, Budapest, HU
  - June 15 – Ottawa, CA
  - July 25 & 26 – IEEE 802 plenary, San Diego, US
- **Conference calls**
  - Schedule weekly on Wednesdays starting Mar 30<sup>th</sup>
    - Cancel if no agenda items
- **Details**
  - To be announced

# Scope of the 5G standing committee

# Approved Scope

- **To provide a report on the following items to the EC:**
  - **Costs and benefits of creating an IEEE 5G specification**
  - **Costs and benefits of providing a proposal for IMT-2020, considering possible models of a proposal:**
    - as a single technology,
    - as a set of technologies,
    - or as one or more technologies within a proposal from external bodies (e.g., 3GPP)
- **During its lifetime, to act as the communication point with other IEEE organizations on this topic.**

# Organization

- The committee is chartered for 6 months (i.e., due July 2016 at the 802 plenary) as an EC SC (type 2).
  - LMSC P&P section 5.6, item #2
    - The subgroup is responsible for assisting the Sponsor (e.g., drafting all or a portion of a document, drafting responses to comments, drafting public statements on standards, or other purely advisory functions).
- Any 802 WG voting member may participate as a voting member of the committee.



# ~~Approved~~ Revised Scope A

- To provide a report on the following items to the EC:
  - Costs and benefits of creating an IEEE 5G specification, **using unlicensed spectrum**
  - Costs and benefits of providing a proposal for **IMT-2020**, considering possible models of a proposal:
    - as a single technology,
    - as a set of technologies,
    - or as one or more technologies within a proposal from external bodies (e.g., 3GPP)
- During its lifetime, to act as the communication point with other IEEE organizations on this topic.

# ~~Approved~~ Revised Scope B

- Consider mechanisms to ensure that IEEE 802 technologies have access to sufficient spectrum ~~to allow these technologies to be used as part of the NGN~~
- To provide a report on the following items to the EC:
  - Costs and benefits of creating an IEEE 5G specification, **identifying appropriate spectrum needs**
  - Costs and benefits of providing a proposal for IMT-~~2020~~, considering possible models of a proposal:
    - as a single technology,
    - as a set of technologies,
    - or as one or more technologies within a proposal from external bodies (e.g., 3GPP)
- During its lifetime, to act as the communication point with other IEEE organizations on this topic.

Now what?

# My view of the evolved 802 view

- It is just about sufficient spectrum
  - Support, defense, acquisition, ...
- 802.18 is already responsible for spectrum
  - as an advocate for IEEE 802 on radio regulatory matters worldwide
- There is reduced interest in 5G in 802
  - IMT-2020
    - No value in an independent submission
  - IEEE 5G
    - Uncertain value in describing

# The options?

- 1. Leave scope as-is**
  - EC still wants the report on 5G & IMT-2020
  - Defer spectrum to 802.18
- 2. Modify scope to focus on spectrum**
  - To develop the guidance for 802.18
- 3. Modify scope to focus on 5G**
  - 802 5G and coordination with 3GPP 5G
- 4. Declare success and disband the SC**
  - The conclusion is “it is about spectrum”
  - Direct 802.18 to develop spectrum strategy

# Annex

## New Scope 2

- To provide a report on the following items to the EC:
  - Mechanisms to ensure that IEEE 802 technologies have access to sufficient spectrum
  - Costs and benefits of engaging in ITU-R vs country vs regional regulatory bodies, identifying appropriate spectrum needs

# New Scope 3

- To provide a report on the following items to the EC:
  - Costs and benefits of developing an IEEE 802 5G standards ecosystem
  - Costs and benefits of developing an IEEE 5G standards ecosystem, in cooperation with other IEEE sponsors
  - Costs and benefits of developing a 5G standards ecosystem, in cooperation with external bodies (e.g., 3GPP)
- During its lifetime, to act as the communication point with other IEEE organizations on this topic.



# Revised Scope C

To provide a report to the EC:

- **Outlining a vision on the role IEEE 802 technologies will play in 5G.**
- **Identifying relevant activities and mechanisms, together with costs and benefits, that can help IEEE 802 achieve that vision, such as:**
  - **Creating an IEEE 802 5G specification.**
  - **Generating a proposal to ITU-R for IMT-~~2020~~, considering the different alternatives:**
    - as a single technology,
    - as a set of technologies,
    - or as one or more technologies within a proposal from external bodies (e.g., 3GPP).
  - **Identifying appropriate spectrum needs and means to obtain it (e.g. contributing to ITU-R SG5, in conjunction with 802.18, etc.).**

During its lifetime, to act as the communication point with other IEEE organizations on this topic.