

# **802.15.4s**

## **EU Regional PHY Support Study Group**

# 802.15.4s Meeting Agenda

- Welcome and attendance registration
- IEEE Meeting Procedures and IPR/Anti-Trust Rules
- 15.4 Amendment for EU Regional PHY support
  - Background
  - Requirements
  - Specific editing requirement
- IEEE Amendment process
  - PAR & 5C
  - Task Group
  - Ballots
- Schedule
- AOB
- Next Meeting
- Cose

# Instructions for the WG Chair

- The IEEE-SA strongly recommends that at each WG meeting the chair or a designee:
  - Show slides #1 through #4 of this presentation
  - Advise the WG attendees that:
    - The IEEE's patent policy is described in Clause 6 of the IEEE-SA Standards Board Bylaws;
    - Early identification of patent claims which may be essential for the use of standards under development is strongly encouraged;
    - There may be Essential Patent Claims of which the IEEE is not aware. Additionally, neither the IEEE, the WG, nor the WG chair can ensure the accuracy or completeness of any assurance or whether any such assurance is, in fact, of a Patent Claim that is essential for the use of the standard under development.
  - Instruct the WG Secretary to record in the minutes of the relevant WG meeting:
    - That the foregoing information was provided and that slides 1 through 4 (and this slide 0, if applicable) were shown;
    - That the chair or designee provided an opportunity for participants to identify patent claim(s)/patent application claim(s) and/or the holder of patent claim(s)/patent application claim(s) of which the participant is personally aware and that may be essential for the use of that standard
    - Any responses that were given, specifically the patent claim(s)/patent application claim(s) and/or the holder of the patent claim(s)/patent application claim(s) that were identified (if any) and by whom.
  - The WG Chair shall ensure that a request is made to any identified holders of potential essential patent claim(s) to complete and submit a Letter of Assurance.
  - It is recommended that the WG chair review the guidance in IEEE-SA Standards Board Operations Manual 6.3.5 and in FAQs 12 and 12a on inclusion of potential Essential Patent Claims by incorporation or by reference.
  - Note: WG includes Working Groups, Task Groups, and other standards-developing committees with a PAR approved by the IEEE-SA Standards Board.

# Participants, Patents, and Duty to Inform

- All participants in this meeting have certain obligations under the IEEE-SA Patent Policy.
  - Participants [Note: Quoted text excerpted from IEEE-SA Standards Board Bylaws subclause 6.2]:
    - “Shall inform the IEEE (or cause the IEEE to be informed)” of the identity of each “holder of any potential Essential Patent Claims of which they are personally aware” if the claims are owned or controlled by the participant or the entity the participant is from, employed by, or otherwise represents
      - “Personal awareness” means that the participant “is personally aware that the holder may have a potential Essential Patent Claim,” even if the participant is not personally aware of the specific patents or patent claims
    - “Should inform the IEEE (or cause the IEEE to be informed)” of the identity of “any other holders of such potential Essential Patent Claims” (that is, third parties that are not affiliated with the participant, with the participant’s employer, or with anyone else that the participant is from or otherwise represents)
  - The above does not apply if the patent claim is already the subject of an Accepted Letter of Assurance that applies to the proposed standard(s) under consideration by this group
  - Early identification of holders of potential Essential Patent Claims is strongly encouraged
  - No duty to perform a patent search

# Patent Related Links

- All participants should be familiar with their obligations under the IEEE-SA Policies & Procedures for standards development.
- Patent Policy is stated in these sources:
  - IEEE-SA Standards Boards Bylaws
  - <http://standards.ieee.org/develop/policies/bylaws/sect6-7.html#6>
  - IEEE-SA Standards Board Operations Manual
  - <http://standards.ieee.org/develop/policies/opman/sect6.html#6.3>
- Material about the patent policy is available at
  - <http://standards.ieee.org/about/sasb/patcom/materials.html>

If you have questions, contact the IEEE-SA Standards Board Patent Committee Administrator at [patcom@ieee.org](mailto:patcom@ieee.org) or visit <http://standards.ieee.org/about/sasb/patcom/index.html>

This slide set is available at <https://development.standards.ieee.org/myproject/Public/mytools/mob/slideset.ppt>

# Call for Potentially Essential Patents

- If anyone in this meeting is personally aware of the holder of any patent claims that are potentially essential to implementation of the proposed standard(s) under consideration by this group and that are not already the subject of an Accepted Letter of Assurance:
  - Either speak up now or
  - Provide the chair of this group with the identity of the holder(s) of any and all such claims as soon as possible or
  - Cause an LOA to be submitted

# Other Guidelines for IEEE WG Meetings

- All IEEE-SA standards meetings shall be conducted in compliance with all applicable laws, including antitrust and competition laws.
  - Don't discuss the interpretation, validity, or essentiality of patents/patent claims.
  - Don't discuss specific license rates, terms, or conditions.
    - Relative costs, including licensing costs of essential patent claims, of different technical approaches may be discussed in standards development meetings.
      - Technical considerations remain primary focus
  - Don't discuss or engage in the fixing of product prices, allocation of customers, or division of sales markets.
  - Don't discuss the status or substance of ongoing or threatened litigation.
  - Don't be silent if inappropriate topics are discussed ... do formally object.
  
- See IEEE-SA Standards Board Operations Manual, clause 5.3.10 and "Promoting Competition and Innovation: What You Need to Know about the IEEE Standards Association's Antitrust and Competition Policy" for more details.

# Background

- Work has been under way for 4+ years in ETSI in support of the SRD spectrum extension to 870-876/915-921 MHz
- 5 System Requirements Documents published & delivered to CEPT
  - Generic SRD & RFID, Smart Metering, Smart Cities, Alarms, Vehicular, ALD
- In support of Smart Metering/Smart Grid SRDoc ETSI generated two Technical Specifications
  - TS 102 887-1 PHY derived from 802.15.4g
  - TS 102 887-2 MAC derived from 802.15.4/4e & TIA TR51
- ETSI TS 102 887 work led to SC-M effort
  - Liaisons between ETSI & IEEE
  - SDO resource request procedure
  - Frame ID and IE Format
- TS 102 887-1/2 are SUN Technical Specifications
  - *'Smart Metering European access Protocol'* SMEP
  - Hence endorsements of 15.4g and additions to 15.4g structures
  - TS 102 887-2 defines support for 870/915 MHz bands and adds one new EU specific low rate PHY
    - Defines new Frequency Band ID values in 15.4g Table of Frequency Bands
    - Defines new PHY Type ID value in 15.4g SUN PHY Capabilities IE



# Requirements

- This amendment is needed to align IEEE 802.15.4 and ETSI TS 102 887-1/2
  - Believe all that is required is
    - assign the next two values in 15.4g Table 68f
      - 14 – 870-876 MHz European Band
      - 15 – 915-921 MHz European Band
    - Assign the next value in 15.4g Table 4k
      - PHY Type 9 – O-QPSK PHY defined in TS 102 887-1
    - Add ETSI TS 102 887-1 to References
  - Should review TS 102 887 and make sure no other changes are required
- A PAR & 5C are needed to describe these requirements
  - Note the necessary editing is already known as long as no other changes are required
- Note both ETSI TS 102 887 specifications are available free of charge for down load from the ETSI Portal ([www.etsi.org/portal](http://www.etsi.org/portal))
  - Use Search Tab and select ETSI Work Program

# Specific Requests

- Motion : The 802.15.4s Study Group requests the 802.15 ANA to reserve the following resource identifiers for 15.4s use:
  - The next two Frequency Band IDs (cf: Table 68f of 802.15.4g) for the EU bands 870-87MHz and 915-921MHz respectively
  - The next PHY ID value (cf: Table 4k of 802.15.4g) for the European Low Rate O-QPSK PHY defined in TS 102 887-1
  
- Proposed: Larry Taylor
- Second:
- Vote: For / Against / Abstain
- Motion: Passes / Fails

# Amendment Process

- PAR & 5C
  - Need to draft suitable descriptions
  - Comment cycle and approval
- Task Group
  - At least one TG meeting to develop draft amendment
- Balloting
  - Letter Ballot
  - Sponsor Ballot
  
- Need guidance from 802.15.4 leaders on best way to achieve necessary objectives

# Schedule

- 13-12-06 – 1<sup>st</sup> meeting
- 14-01-23 – LA 802 Wireless Interim
  - 2 sessions proposed on 23<sup>rd</sup> January - AM1 & AM2
  - PAR & 5C to 802.15 WG for approval
- ?? 1<sup>st</sup> Task Group Meeting
  - Draft Amendment text for TG approval
- 14-03-16 Beijing 802 Plenary
  - Draft Amendment for Letter Ballot
- 14-05-21 Hawaii 802 Wireless Interim
  - Draft Amendment for Sponsor Ballot
- 14-07-18 San Diego 802 Plenary
  - Approved amendment to RevCom
  
- Any way to shorten this?

# Discussion & Suggestions