

802.22 EC Closing Motions Package

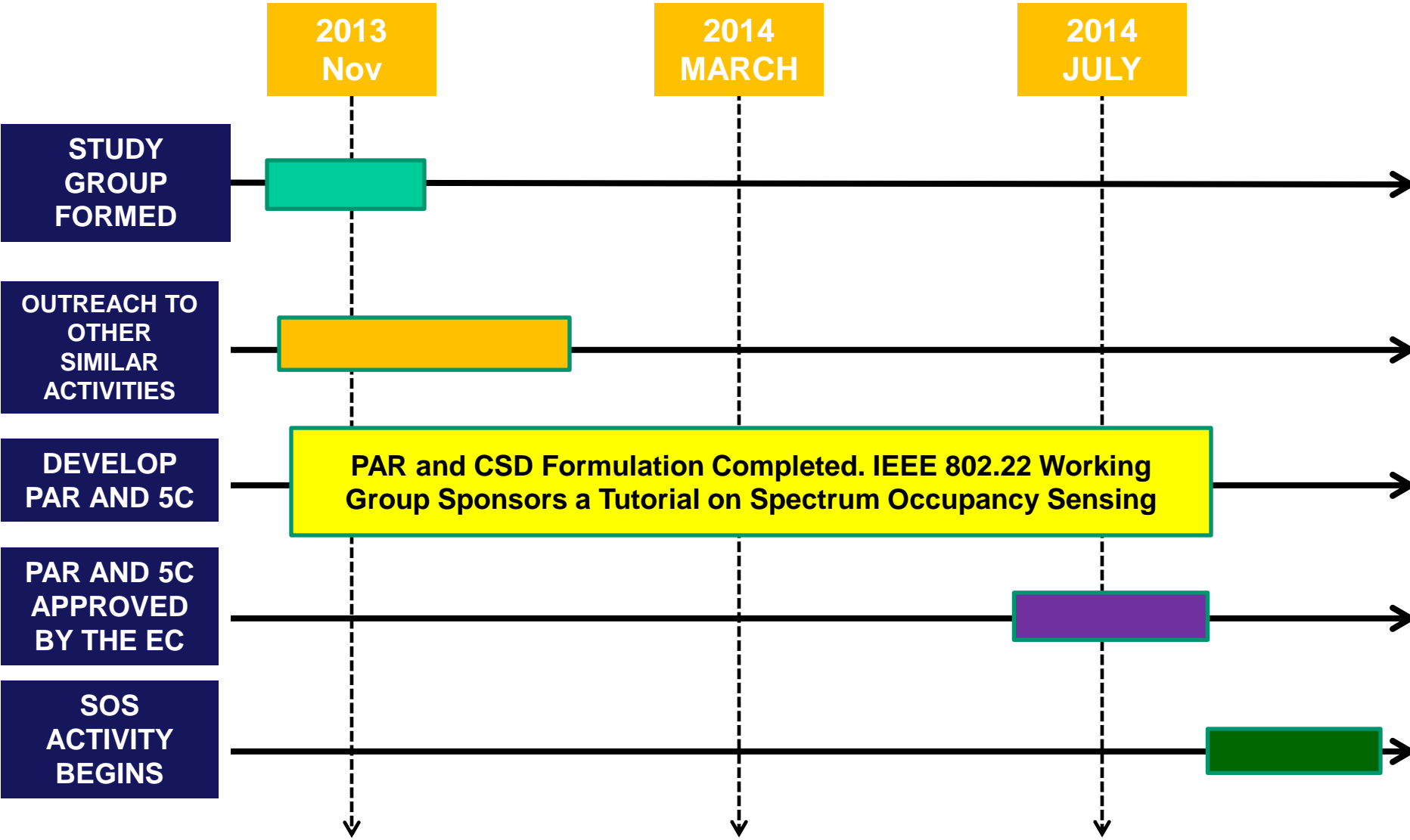
Date: 2014-07-18

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Second Extension for the Spectrum Occupancy Sensing (SOS) Study Group under the 802.22 WG

Timelines of the Study Group



PAR and CSD Formulation Completed. IEEE 802.22 Working Group Sponsors a Tutorial on Spectrum Occupancy Sensing

EC Motion for the Approval of the SOS Study Group

IEEE 802 EC approves Second Extension for the
Spectrum Occupancy Sensing (SOS) Standardization
Study Group under the IEEE 802.22 working group

Move: Apurva N. Mody

Second: Steve Shellhammer

For:

Against:

Abstain:

Motion Passes / Fails

Motion to Approve P802.22.3 PAR on Spectrum Characterization and Occupancy Sensing (SCOS)

**Comments received on P802.22.3
BEFORE Tuesday 5 pm**

Comments from the 802.11 Working Group

2.1 Title – Consider that “SOS” is a internationally recognized acronym for emergency requests. Consider changing or eliminating the acronym...

Response: Accept: Eliminated the acronym

5.2 The Scope should not talk about the “project”, but rather describe the document that will be created. Please remove project specific definitions and instead describe what the standard will be defining.

Response: Accept, the word Project has been changed to ‘Standard’

5.2 “initially” defines? The Standard will have a set definition that as far as this revision is concerned is the only one that will exist. Do not describe or promise future enhancements.

Response: Accept. The word ‘initially’ has been removed

Comments from the 802.11 Working Group

8.1 is for extra explanation for identified clauses. The clause id is not included.
Generally a history is not included in 8.1

Response: Accept. Some of the contents from Section 8.1 has been moved back to Section 5.5 Need for the Standard and the new Section 8.1 only contains a reference

CSD: 1.2.2 – Cite standards correctly.

Response: Accept

CSD: Seems the History is repeated for several responses.

Response: Accept. Redundant information has been removed

CSD: Seems overly verbose

Response: Reduced the verbosity by eliminating repetitions

Comments from the 802.19 Working Group

- Your title is too long. Please shorten the title to something more concise

Response: Accept. The new title has been considerably shortened to ‘Standard for Spectrum Occupancy Sensing’

- Since the scope of the project will become the scope of the actual standard, you should delete comments about the “SOS Project” since when the standard is published, there will no longer be an SOS Project, just an SOS standard.

Response: Accept, the word Project has been changed to ‘Standard’

- The standard should not specify “measurement devices” it should specify “measurement parameters and device behaviors”

Response: Accept.

Comments from the 802.19 Working Group

- The phrase “means that enable coalescing the results from multiple such devices” is quite wordy and does not seem to convey a clear message. Is this intended to say “the standard includes protocols for exchanging measurement information?”

Response: Accept in Principal: Comment has been accepted with a few modifications - The Spectrum Occupancy and Characterization Sensing (SOCS) Standard creates a system specifying measurement parameters and device behaviors. It includes protocols for reporting measurement information that enable coalescing the results from multiple such devices.

- Since when the standard is published the project scope will be the standard scope, you should delete the word “initially” from the scope, so that the scope specifies what is in the standard. In an amendment this could be expanded.

Response: Accept. The word ‘initially’ has been removed

Comments from the 802.19 Working Group

- The sentence “This standard may specify interfaces and primitives to provide value added sensing information to various spectrum sharing database services” seems to describe some commercial benefits that might fit better into the Need section rather than the Scope section of the PAR.

Response: Accept in Principal – We removed ‘may’ but kept this in the Scope section

- In the Need section of the PAR change “low cost sensors” to ““low-cost spectrum occupancy sensors””

Response: Accept in Principal – But reconciled this with 802.18 TAG comments

- The Explanatory Notes Section is used to provide additional information about specific sections in the PAR above. Instead in this PAR it seems to provide a lot of other information but does not explain a specific section above.

Response: Accept. Some of the contents from Section 8.1 has been moved back to Section 5.5 Need for the Standard and the new Section 8.1 only contains a reference

Comments from the 802.18 Working Group

For the 802.22.3 PAR:

For the PAR: We suggest to delete the phrase “creation of low cost sensors for”. in the following line. Low cost would be vendor sensitive.

From: “5.5 Need for the Project: This project will enable creation of low cost sensors for improved spectrum utilization and other shared spectrum applications.”

To: “5.5 Need for the Project: This project will enable improved spectrum utilization and other shared spectrum applications.”

Response: Accept in Principal – Changed to This project will enable improved spectrum utilization and support for other shared spectrum applications. This will benefit the primary users as well as the opportunistic users of the spectrum.

Comments from the 802.18 Working Group

For the CSD we have a couple of suggestions:

In 1.2.3 a)

b. IEEE P1900.6a, should not have the ‘P’, should say “ b. IEEE 1900.6a...

Also further down in paragraph 3, the same.

“... emerging P1900.6a Standard.”

should read: “... emerging 1900.6a Standard.”

Response: Accept in Principal. Reference changed to the published IEEE Std. 1900.6a-2014

Comments from the 802.18 Working Group

In 1.2.4 a) we suggest the term “Companies” be changed to “Organizations” when referring to NICT, ETRI, etc.

Response: Accept.

Also in 1.2.4.a) the paragraph starting with:

“Systems simiar to the proposed SOS has been...”

should read: “Systems similar to the proposed SOS have been...”

Response: Accept.

In 1.2.5 a), the first line should remove ‘low cost’ to be consistent with comment above.

From: “This standard aims at creating economies of scale through uniform and consistent operation of low cost spectrum sensors.”

To: “This standard aims at creating economies of scale through uniform and consistent operation of spectrum sensors.”

Response: Accept

Comments from David Law

802.22.3: This PAR has a very long 8.1 that does not point to any PAR item (as indicated in the parenthetical instruction). I guess it could point to 5.5 Need.

Response: Accept. Some of the contents from Section 8.1 has been moved back to Section 5.5 Need for the Standard and the new Section 8.1 only contains a reference

**Comments received on P802.22.3
AFTER Wednesday 5 pm**

Comments from 802.11 WG

Comment from the 802.11 Working Group

2.1 Suggest title be “Spectrum Characterization and Occupancy Sensing (SCOS)” then update throughout the the PAR.

Response: 802.22 WG accepted that suggestion during the WG closing plenary. The 802.22 WG will request PAR and CSD with that change in the Name from ‘Spectrum Occupancy Sensing’ to ‘Spectrum Characterization and Occupancy Sensing’ to be submitted to the IEEE SA NESCOM.

802.22 WG Motions to Approve the P802.22.3 PAR and CSD, Wednesday, July 16, 2014

Move to approve the contents of the document:22-14-0075Rev4

<https://mentor.ieee.org/802.22/dcn/14/22-14-0075-04-0003-spectrum-occupancy-sensing-par-form.docx> as the contents of the P802.22.3 Spectrum Occupancy Sensing PAR, and the contents of the document:22-14-0061Rev6 <https://mentor.ieee.org/802.22/dcn/14/22-14-0061-06-0003-802-22-spectrum-occuoancy-sensing-criteria-for-standards-development.docx> as the contents of the P802.22.3 Criteria for Standard Development (CSD), to be forwarded to the IEEE 802 EC. To allow the Chair to make a motion during the Closing EC Meeting seeking approval to submit the PAR form to IEEE SA NESCOM. To allow the Chair to make the necessary changes to the PAR form based on the comments from IEEE 802 EC or the IEEE SA NESCOM members and submit the revised PAR to the NESCOM.

Move: Chang-woo Pyo

Second: Jerry Kalke

For: 8

Against: 0

Abstain: 0

Motion Passes.

802.22 WG Motions to Approve the P802.22.3 PAR and CSD, Thursday, July 17th, 2014

The Working Group accepts the suggestion from the 802.11 WG to change the name from ‘Spectrum Occupancy Sensing’ to ‘Spectrum Characterization and Occupancy Sensing (SCOS).’ The 802.22 WG further approves the updated PAR and CSD documents with this editorial change as can be found in documents 22-14-0075Rev5 and 22-14-0061Rev7, (<https://mentor.ieee.org/802.22/dcn/14/22-14-0075-05-0003-spectrum-characterization-and-occupancy-sensing-par-form.docx>),(<https://mentor.ieee.org/802.22/dcn/14/22-14-0061-07-0003-802-22-spectrum-characterization-and-occupancy-sensing-csd.docx>). The 802.22 WG requests the Chair to make a motion during the Closing EC Meeting seeking approval to submit the PAR form to IEEE SA NESCOM. To allow the Chair to make the necessary changes to the PAR form based on any other comments from IEEE 802 EC or the IEEE SA NESCOM members and submit the revised PAR to the NESCOM.

Move: Chang-woo Pyo

Second: Jerry Kalke

For: 7

Against: 0

Abstain: 0

Motion Passes.

EC Motion to Submit the P802.22.3 PAR to IEEE SA NESCOM

EC Approves submission of the P802.22.3 PAR as contained in Document [22-14-0075 Rev4](#) with editorial change in the name from ‘Spectrum Occupancy Sensing’ to ‘Spectrum Characterization and Occupancy Sensing’ as shown in Document [22-14-0075 Rev5](#)

Move: Apurva N. Mody

Second: Steve Shellhammer

For:

Against:

Abstain:

Motion Passes / Fails

**Motion to Approve IEEE 802 Response
to FDIS 60 days ballot Comments on the
IEEE Std. 802.22-2011**

IEEE 802.22 WG Motion to Approve Response to FDIS 60 days ballot Comments on the IEEE Std. 802.22-2011

The IEEE 802.22 Working Group approves the document number [ec-14-0052-INTL](#) to be liaised back to ISO JTC1 in response to the SC6 NB comments under the 60 days ballot of the IEEE Std. 802.22-2011. The IEEE 802.22 Working Group further requests the 802.22 Working Group chair to seek an approval from the 802 EC to liaise this document to ISO JTC1 in response to the SC6 NB comments under the 60 days ballot of the IEEE Std. 802.22-2011. The 802.22 Working Group gives editorial privileges to 802.22 WG chair to put the document in the correct format or to make modifications and corrections based on any comments received from the EC or other members of the community.

Move: Jerry Kalke

Second: Chang-Woo Pyo

For: 9

Against: 0

Abstain: 0

Motion Passes.

**EC Motion to Approve Response to FDIS 60 days ballot
Comments on the IEEE Std. 802.22-2011**

**EC Approves Document [ec-14-0052-INTL Rev1](#) as a
Liaison Response to ISO JTC1 SC6 for the FDIS 60 Days
Ballot Comments on the IEEE Std. 802.22-2011.**

Move: Apurva N. Mody

Second: Steve Shellhammer

For:

Against:

Abstain:

Motion Passes / Fails

**Motion to Approve Liaison Request to Allocate the
Revision Responsibility of the ISO/IEC/IEEE 8802-
22 Standards to the IEEE 802.22 WG**

IEEE 802.22 WG Motion for Liaison Request to Allocate the Revision Responsibility of the ISO/IEC/IEEE 8802-22 Standards to the IEEE 802.22 WG

The IEEE 802.22 Working Group approves the document number [ec-14-0053-INTL](#) to be liaised back to ISO JTC1 to allocate responsibility for the revision process of the ISO/IEC/IEEE 8802-22 series of standards to the IEEE 802.22 WG. The IEEE 802.22 Working Group further requests the 802.22 Working Group chair to seek an approval from the 802 EC to liaise this document to ISO JTC1. The 802.22 Working Group gives editorial privileges to 802.22 WG chair to put the document in the correct format or to make modifications and corrections based on any comments received from the EC or other members of the community.

Move: Peter Flynn

Second: Shigenobu Sasaki

For: 9

Against: 0

Abstain: 0

Motion Passes.

**EC Motion for Liaison Request to Allocate the Revision
Responsibility of the ISO/IEC/IEEE 8802-22 Standards to the
IEEE 802.22 WG**

**EC Approves Document [ec-14-0053-INTL Rev1](#) as a
Liaison Request to Allocate the Revision Responsibility of
the ISO/IEC/IEEE 8802-22 Standards to the IEEE 802.22
WG**

Move: Apurva N. Mody

Second: Steve Shellhammer

For:

Against:

Abstain:

Motion Passes / Fails

References

- 802.22 July Plenary Working Group Motions –
<https://mentor.ieee.org/802.22/dcn/14/22-14-0102-01-000b-2014-july-plenary-working-group-meeting-motions-for-ieee-802-22.docx>
- P802.22.3 Spectrum Characterization and Occupancy Sensing PAR Documents –
 1. PAR Form: [[22-14-0075Rev04](#)], CSD: [[22-14-0061Rev6](#)]
 2. PAR and CSD with Name Change from Spectrum Occupancy Sensing to Spectrum Characterization and Occupancy Sensing
 - PAR Form: [[22-14-0075Rev05](#)], CSD: [[22-14-0061Rev7](#)]
- Liaison to the ISO JTC1 SC6 Response to the FDIS 60 Day Ballot Comments on the IEEE Std. 802.22-2011 [[ec-14-0052-INTL Rev1](#)]
- Liaison to the ISO JTC1 SC6 to allocate the revision responsibility of the ISO/IEC/IEEE 8802-22 Family of Standards to the IEEE 802.22 WG [[ec-14-0053-INTL Rev1](#)]

References

[1] PCAST Report: Realizing Full Potential of the Government Held Spectrum to Spur Economic Growth

http://www.whitehouse.gov/sites/default/files/microsites/ostp/pcast_spectrum_report_final_july_20_2012.pdf