IEEE P802.22 Wireless RANs

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| 2014 July Plenary Working Group Meeting Minutes for IEEE 802.22 |
| Date: 2014-07-14 |
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**IEEE 802.22**

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Abstract

This document contains the minutes of the IEEE 802.22 Working Group 2014 July Plenary Meeting held in San Diego from 14th to 18th, July 2014.

Wireless Regional Area Networks

**July 2014 Plenary**

**MINUTES**

##### 14th July Monday PM1 (WG Opening Plenary)

The WG chairman, Dr Mody, called the meeting to order at 1:45 PM local time. There were 11 participants (10 are voting members) were in the room at the opening of the session.

**1.1 Approval of Agenda**

**The WG chair, Dr. Mody, explained agenda for the plenary session in San Diego.**

***Motion - Approval of Agenda***

Move to Approve the Agenda as shown in Document 22-14-0087 Rev0

(https://mentor.ieee.org/802.22/dcn/14/22-14-0087-00-0000-ieee-802-22-wg-July-plenary-agenda.xls)

Move: Peter Flynn

Second: Jerry Kalke

For: 9 (no objection)

Against: 0

Abstain: 0

**Motion Passes**. Agenda is approved

**1.2 Approval of the minutes of the last session**

The minutes of the 802.22 May Interim Meeting Minute can be found at:

https://mentor.ieee.org/802.22/dcn/14/22-14-0088-00-0000-meeting-minutes-of-ieee-802-22-wg-may-hawaii.docx

***Motion- Approval of Minutes***

Move to Approve the 802.22 working group May Interin meeting minute at Hawaii as shown in Document 22-14-0088 Rev0

(https://mentor.ieee.org/802.22/dcn/14/22-14-0088-00-0000-meeting-minutes-of-ieee-802-22-wg-may-hawaii.docx)

Move: Jerry Kalke

Second: Chang-Woo Pyo

For: 9

Against: 0

Abstain: 0

**Motion Passes**. Minutes are approved

**2. Administrative Issues**

The WG Chair, Dr. Mody, reviewed the usual administrative slides on Patent Policy, Letter of Assurance, Anti-trust statement, IEEE code of ethics, etc.

The WG Chair, Dr. Mody, reminded everyone that the attendance recording is being done electronically as usual.

**3. Discussions during the Working Group Session**

1. New commers introduction: Brian Johnson has briefly introduced himself and expressed his willingness to contribute to the working group.

2. Ranga Reddy has been ackownledged for his outstanding contributions towards the completion of 802.22a standard.

3. Dr. Mody has gone through the comments on 802.22 and its responses as a result of the IEEE ISO PSDO Standards approval process.

4. The following motions were held:

***Motion- Approval for the comments reltated to the IEEE 802.22 ISO approval through PSDO process***

The IEEE 802.22 Working Group approves the comment reponses created by IEEE 802 JTC1 Standing Committee as proposed on pages 39 to 41 in document number 11-14-0553-04-0jtc-agenda 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.

(<https://mentor.ieee.org/802.11/dcn/14/11-14-0553-04-0jtc-agenda-for-hawaii-in-may-2014.pptx>)

Move: Jerry Kalke

Second: Chang-Woo Pyo

For: 8

Against: 0

Abstain: 0

**Motion Passes**.

***Motion- to forward IEEE Std. 802.22a-2014 to the ISO JTC1 through the IEEE ISO PSDO process***

*Motion to forward IEEE Std. 802.22a-2014 to the ISO JTC1 through the IEEE ISO PSDO process.*

Move: Peter Flynn

Second: Toh Keat-Beng

For: 8

Against: 0

Abstain: 0

**Motion Passes**.

5. The following straw polls were held:

Do you support the “get802 program”?

Yes: 9

No: 0

Abstain: 1

Would you support free and open access to all 802 standards?

Yes: 10

No: 0

Abstain: 0

Would you support free and open access to all 802 work in progress?

Yes: 3

No: 7

Abstain: 0

Would you support IEEE SA providing all its published standards at no charge without the need for corporate sponsorship as a basic service of IEEE SA?

Yes: 10

No: 0

Abstain: 0

6. The meeting was recessed at 15:30 PM.

##### 16th July Wednesday AM1/AM2

1. WG chairman Dr Mody called the meeting to order at 08:30 AM local time.
2. There were 10 participants (9 voting members) in the room.
3. The slot was used for the P802.22.2 PAR and CSD comment resolution. The comments can be found in the document doc.: 802.22-14/0098-0000-00.
4. A straw poll was held to change the acronym ‘SOS’ in order to solve one of the comment from doc.: 802.22-14/0098-0000-00. The preferred acronym was ‘SOCS’, which stands for ‘Spectrum Occupancy and Characterization Sensing’.
5. The group later decided on going back to ‘Spectrum Occupancy Sensing’ system and removing the ‘SOS’ acronym.

##### 16th July Wednesday PM1

The following motion was held during this slot.

**Motion– 802.22.3 Std. for Spectrum Occupancy Sensing PAR and Criteria for Standard Development – Approval to submit to EC and make subsequent changes**

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.

**Motion to approve 802.22 response to response to P802.22.3 PAR on Spectrum Occupancy Sensing**

802.22 WG approves the resolution to the comments on the P802.22.3 PAR on Spectrum Occupancy Sensing and the CSD as contained in document 22-14-0098Rev1

<https://mentor.ieee.org/802.22/dcn/14/22-14-0098-01-0000-spectrum-occupancy-sensing-par-csd-comment-resolutions.pptx>

Move: Chang-woo Pyo

Second: Peter Flynn

For: 8

Against: 0

Abstain: 0

Motion Passes.

##### 17th July Thursday AM2

1. The closing plenary meeting was called to order at 11:15 AM.
2. The WG chair conducted the closing plenary according to doc.: 802.22-0087-00-0000
3. 9 participants were in the room (8 voting members)
4. The following motions were held:

***Motion- Approval for the comments reltated to the IEEE 802.22 ISO approval through PSDO process***

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 priviledges to 802.22 WG chair to make modifications and corrections based on any comments received from the EC or other members of the community.

<https://mentor.ieee.org/802-ec/dcn/14/ec-14-0052-00-INTL-ieee-802-response-to-fdis-comments-on-ieee-std-802-22-2011.pptx>

Move: Jerry Kalke

Second: Chang-Woo Pyo

For: 9

Against: 0

Abstain: 0

**Motion Passes**.

***Motion – Liaison to ISO/IEC/JTC1 for ISO/IEC/IEEE 8802-22 Maintenance to 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 priviledges to 802.22 WG chair to make modifications and corrections based on any comments received from the EC or other members of the community.

<https://mentor.ieee.org/802-ec/dcn/14/ec-14-0053-00-INTL-liaison-to-iso-iec-jtc1-for-iso-iec-ieee-8802-22-maintenance-to-ieee-802-22-wg.pptx>

Move: Peter Flynn

Second: Shigenobu Sasaki

For: 9

Against: 0

Abstain: 0

Motion Passes.

***Motion – to schedule the teleconferences***

The IEEE 802.22 Working Group authorizes the chair to schedule teleconferences as he sees fit from now until November 2014 plenary to conduct any business of the 802.22 WG.

Move: Peter Flynn

Second: Shigenobu Sasaki

For: 9

Against: 0

Abstain: 0

Motion Passes.

***Motion – to support the formation of the 802.24 smart grid task group***

The IEEE 802.22 WG supports the formation of the Smart Grid Task Group with the scope defined in 24-14-0015-03-0000-smart-grid-tg-scope. IEEE 802.22 WG has identified the following topics that are of interest to the WG:

- Regional Area Networks for utility network backhaul and distribution

<https://mentor.ieee.org/802.24/dcn/14/24-14-0015-03-0000-smart-grid-tg-scope.pdf>

Move: Ivan Reede

Second: Shigenobu Sasaki

For: 7

Against: 0

Abstain: 0

Motion Passes.

**Motion– 802.22.3 Std. for Spectrum Characterization and Occupancy Sensing PAR and Criteria for Standard Development – Approval to submit to EC and make subsequent changes**

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.

**Motion– to establish a liaison relationship with the WhiteSpace Alliance**

Move to establish a liaison relationship with the WhiteSpace Alliance.

Move: Chang-woo Pyo

Second: Ivan Reede

For: 6

Against: 0

Abstain: 1

Motion Passes.

**Motion– to confirm the appointment of the 802.22 WG secretary**

Move to confirm Mr. Gabriel Villardi to the 802.22 WG secretary.

Move: Chang-woo Pyo

Second: Ivan Reede

For: 7

Against: 0

Abstain: 1

Motion Passes.

**Motion– to adjourn**

Move to adjourn.

Move: Chang-woo Pyo

Second: Ivan Reede

For: 7

Against: 0

Abstain: 0

Motion Passes.

The following straw polls were held:

**How many peole like San Diego as a meeting location?**

Yes: Unanimous consensus

**802.22 Attendance List January, 2014 Interim**

|  |  |  |
| --- | --- | --- |
| Ca **Hwang** hi | Rad**Sunghyun**akrishna | Ky ETRI, Korea ocera |
| **Kalke** | **Jerry** | CBS |
| **Gabriel** | **Villardi** | NICT, Japan |
| **Pyo** | **Chang-Woo** | NICT, Japan |
| **Ivan** | **Reede** | AmeriSys |
| **Paul** | **Nikolich** |  |
| **Apurva** | **Mody** | BAE Systems |
| **Masayuki** | **Oodo** | NICT |
| **Keat-Beng** | **Toh** |  Hitachi KokusaiiHlab |
| **Peter** | **Flynn** | Texas Instrument |
| Brian | Johnson | Texas Instrument |
| **Shigenobu** | **Sasaki** | Niigata University |
| Lisa | Perry |  |
|  |  |  |

*Note: Participants who had voting status appear in* ***bold****.*

**ANNEX**

**Working Group Contributions**

https://mentor.ieee.org/802.22/dcn/14/22-14-0057-00-0000-802-22-revision-par-document-pdf.pdf

https://mentor.ieee.org/802.22/dcn/13/22-13-0168-02-0000-802-22-response-to-the-comments-on-the-802-22-revision-par.pptx

https://mentor.ieee.org/802.22/dcn/13/22-13-0168-02-0000-802-22-response-to-the-comments-on-the-802-22-revision-par.pptx

https://mentor.ieee.org/802.22/dcn/13/22-13-0138-07-0000-802-22-revision-par.docx

https://mentor.ieee.org/802.22/dcn/14/22-14-0032-01-0000-802-22-march-plenary-wg-agenda.xls

https://mentor.ieee.org/802.22/dcn/14/22-14-0053-00-0000-802-22-wg-comments-on-pars-for-consideration-during-the-march-2014-plenary.pptx

https://mentor.ieee.org/802.22/dcn/14/22-14-0039-00-0000-march-plenary-opening-report.ppt

https://mentor.ieee.org/802.22/dcn/14/22-14-0032-00-0000-802-22-march-plenary-wg-agenda.xls

https://mentor.ieee.org/802.22/dcn/13/22-13-0156-04-0000-802-22-revision-par-new-csd-5c.docx

https://mentor.ieee.org/802.22/dcn/13/22-13-0168-01-0000-802-22-response-to-the-comments-on-the-802-22-revision-par.pptx

https://mentor.ieee.org/802.22/dcn/14/22-14-0023-00-0000-overview-of-ieee-802-22-working-group.pptx

https://mentor.ieee.org/802.22/dcn/13/22-13-0138-06-0000-802-22-revision-par.docx

https://mentor.ieee.org/802.22/dcn/13/22-13-0156-03-0000-802-22-revision-par-new-csd-5c.docx

https://mentor.ieee.org/802.22/dcn/13/22-13-0156-02-0000-802-22-revision-par-new-csd-5c.docx

https://mentor.ieee.org/802.22/dcn/14/22-14-0011-00-0000-ieee-802-22-wg-january-interim-agenda.xls

https://mentor.ieee.org/802.22/dcn/14/22-14-0010-00-0000-meeting-minutes-of-ieee-802-22-wg-november-plenary-dallas.docx

https://mentor.ieee.org/802.22/dcn/13/22-13-0176-00-0000-802-22-wg-closing-report-november-2013-plenary-meeting.ppt

https://mentor.ieee.org/802.22/dcn/13/22-13-0138-05-0000-802-22-revision-par.docx

https://mentor.ieee.org/802.22/dcn/13/22-13-0172-00-0000-802-22-ec-closing-motions.pptx

https://mentor.ieee.org/802.22/dcn/13/22-13-0171-00-0000-spectrum-occupancy-sensing-study-group.pptx

https://mentor.ieee.org/802.22/dcn/13/22-13-0170-01-0000-802-22-wg-motions-at-nov-2013-plenary.docx

https://mentor.ieee.org/802.22/dcn/13/22-13-0156-01-0000-802-22-revision-par-5c.docx

https://mentor.ieee.org/802.22/dcn/13/22-13-0138-04-0000-802-22-revision-par.docx

https://mentor.ieee.org/802.22/dcn/13/22-13-0168-00-0000-802-22-response-to-the-comments-on-the-802-22-revision-par.pptx

https://mentor.ieee.org/802.22/dcn/13/22-13-0161-00-0000-press-release-for-spectrum-occupancy-system-study-group-formation.doc

https://mentor.ieee.org/802.22/dcn/13/22-13-0160-00-0000-correction-to-the-annex-9-of-the-itu-wp-6a-chairman-s-report.doc

https://mentor.ieee.org/802.22/dcn/13/22-13-0155-00-0000-november-plenary-working-group-agenda.xls

https://mentor.ieee.org/802.22/dcn/13/22-13-0159-00-0000-802-22-september-interim-meeting-minutes.doc

<https://mentor.ieee.org/802.22/dcn/13/22-13-0136-00-0000-september-interim-working-group-agenda.xls>

https://mentor.ieee.org/802.22/dcn/13/22-13-0137-00-0000-aug-22-revision-par-discussions-meeting-minutes.docx

https://mentor.ieee.org/802.22/dcn/13/22-13-0138-00-0000-802-22-revision-par.docx

https://mentor.ieee.org/802.22/dcn/13/22-13-0143-01-0000-ieee-802-22-july-plenary-working-group-meeting-minutes.doc

<https://mentor.ieee.org/802.22/dcn/13/22-13-0143-01-0000-ieee-802-22-july-plenary-working-group-meeting-minutes.doc>

<https://mentor.ieee.org/802.22/dcn/13/22-13-0136-01-0000-september-interim-working-group-agenda.xls>

<https://mentor.ieee.org/802.22/dcn/13/22-13-0138-01-0000-802-22-revision-par.docx>

<https://mentor.ieee.org/802.22/dcn/13/22-13-0152-00-0000-802-22c-amendment-par-on-spectrum-sensing-information-representation-dissemination-and-fusion.docx>

<https://mentor.ieee.org/802.22/dcn/13/22-13-0152-01-0000-802-22c-amendment-par-on-spectrum-sensing-information-representation-dissemination-and-fusion.docx>

https://mentor.ieee.org/802.22/dcn/13/22-13-0154-00-0000-wg-motions.pptx

https://mentor.ieee.org/802.22/dcn/13/22-13-0136-00-0000-september-interim-working-group-agenda.xls

https://mentor.ieee.org/802.22/dcn/13/22-13-0126-00-0000-ieee-802-22-july-plenary-closing-report.ppt

https://mentor.ieee.org/802.22/dcn/13/22-13-0123-01-0000-ieee-802-22-inputs-to-doc-18-13-0085-for-itu-question-236-on-power-grid-management-systems.docx

https://mentor.ieee.org/802.22/dcn/13/22-13-0123-00-0000-ieee-802-22-inputs-to-doc-18-13-0085-for-itu-question-236-on-power-grid-management-systems.docx

https://mentor.ieee.org/802.22/dcn/13/22-13-0096-02-0000-july-plenary-working-group-agenda.xls

https://mentor.ieee.org/802.22/dcn/13/22-13-0116-00-0000-ieee-802-11-activities-on-spectrum-sharing.ppt

https://mentor.ieee.org/802.22/dcn/13/22-13-0115-00-0000-ieee-802-15-4m-wpan-standard-in-tvws.pptx

https://mentor.ieee.org/802.22/dcn/13/22-13-0114-00-0000-ieee-itu-joint-meeting-spectrum-sharing-and-white-space-standardization-to-bridge-the-digital-divide.pptx

https://mentor.ieee.org/802.22/dcn/13/22-13-0113-00-0000-ieee-802-and-itu-welcome-meeting.pdf

https://mentor.ieee.org/802.22/dcn/13/22-13-0112-00-0000-ieee-802-19-1-overview.pptx

https://mentor.ieee.org/802.22/dcn/13/22-13-0111-00-0000-itu-r-studies-on-crs-including-white-spaces.pdf

https://mentor.ieee.org/802.22/dcn/13/22-13-0110-00-0000-tvws-managing-the-spaces-or-better-managing-inefficiencies.pptx

https://mentor.ieee.org/802.22/dcn/13/22-13-0109-00-0000-ieee-802-22-whitespace-enabled-rural-broadband-to-cognitive-m2m.pptx

https://mentor.ieee.org/802.22/dcn/13/22-13-0096-01-0000-july-plenary-working-group-agenda.xls

https://mentor.ieee.org/802.22/dcn/13/22-13-0099-00-0000-july-plenary-opening-report.ppt

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<https://mentor.ieee.org/802.22/dcn/13/22-13-0072-01-0000-may-interim-working-group-agenda.xls>

<https://mentor.ieee.org/802.22/dcn/13/22-13-0077-00-0000-march-plenary-working-group-meeting-minutes.doc>

<https://mentor.ieee.org/802.22/dcn/13/22-13-0085-00-0000-ieee-802-response-to-the-unii-band-nprm.docx>

<https://mentor.ieee.org/802.22/dcn/13/22-13-0087-00-0000-802-22-inputs-to-itu-question-236-on-smart-grid-power-management-systems.docx>

<https://mentor.ieee.org/802.22/dcn/13/22-13-0054-00-0000-march-plenary-ec-closing-motions.ppt>

<https://mentor.ieee.org/802.22/dcn/13/22-13-0034-03-0000-march-plenary-working-group-agenda.xls>

<https://mentor.ieee.org/802.22/dcn/13/22-13-0034-02-0000-march-plenary-working-group-agenda.xls>

<https://mentor.ieee.org/802.22/dcn/13/22-13-0046-01-0000-802-22-inputs-to-802-24-for-sgip-pap2.xlsx>

<https://mentor.ieee.org/802.22/dcn/13/22-13-0046-00-0000-802-22-inputs-to-802-24-for-sgip-pap2.xlsx>

<https://mentor.ieee.org/802.22/dcn/13/22-13-0043-00-0000-march-plenary-working-group-motions.doc>

<https://mentor.ieee.org/802.22/dcn/13/22-13-0034-01-0000-march-plenary-working-group-agenda.xls>

<https://mentor.ieee.org/802.22/dcn/13/22-13-0041-00-0000-802-22-wg-opening-report.ppt>

<https://mentor.ieee.org/802.22/dcn/13/22-13-0039-00-0000-january-interim-wg-meeting-minutes.doc>

<https://mentor.ieee.org/802.22/dcn/13/22-13-0034-00-0000-march-plenary-working-group-agenda.xls>

<https://mentor.ieee.org/802.22/dcn/13/22-13-0001-00-0000-802-22-january-interim-wg-agenda.xls>

<https://mentor.ieee.org/802.22/dcn/13/22-13-0005-00-0000-ieee-802-22-1-advanced-beaconing-press-release.docx>

<https://mentor.ieee.org/802.22/dcn/13/22-13-0006-00-0000-november-2012-penary-working-group-meeting-minutes.doc>

<https://mentor.ieee.org/802.22/dcn/13/22-13-0007-00-0000-802-22-inputs-to-802-18-on-fcc-nprm-in-the-3550-3650-mhz-band.doc>

<https://mentor.ieee.org/802.22/dcn/12/22-12-0104-01-0000-802-24-sg-tag-input.xls>

<https://mentor.ieee.org/802.22/dcn/13/22-13-0006-01-0000-november-2012-penary-working-group-meeting-minutes.doc>

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**Regional Area Smart Grid and Critical Infrastructure Monitoring**

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https://mentor.ieee.org/802.22/dcn/13/22-13-0045-03-000b-802-22b-mar-2013-report.pptx

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<https://mentor.ieee.org/802.22/dcn/11/22-11-0118-04-rasg-par-for-enhanced-broadband-and-monitoring-amendment.doc>

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**Press Release**

<https://mentor.ieee.org/802.22/dcn/13/22-13-0005-00-0000-ieee-802-22-1-advanced-beaconing-press-release.docx>

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**Executive Committee Motions and Reports**

https://mentor.ieee.org/802.22/dcn/13/22-13-0054-00-0000-march-plenary-ec-closing-motions.ppt

https://mentor.ieee.org/802.22/dcn/13/22-13-0043-00-0000-march-plenary-working-group-motions.doc

<https://mentor.ieee.org/802.22/dcn/13/22-13-0041-00-0000-802-22-wg-opening-report.ppt>

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##### Advanced Beaconing to Expand Protection of Licensed Service

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