 

IEEE P802.21 Media Independent Handover Services

Minutes of the IEEE P802.21 Working Group (DCN 21-16-0056-00)

Session #73 Meeting, Macau, China

Chair: Subir Das

Vice Chair: Hyeong-Ho Lee

# First Day PM1 (01:30pm-03:30pm): Room Galileo 2803; March 14, 2016

## 802.21 WG Opening Plenary: Meeting is called to order at 01:30pm by Subir Das, Chair of IEEE 802.21 WG with opening notes

## March, 2016 Meeting Agenda (DCN: 21-16-0043-00-0000-session-73-agenda)

### Agenda bashing:

#### Revised agenda (DCN: 21-16-0043-01-0000) was approved without any objection.

# IEEE 802.21 Session #73 Opening Notes (21-16-0046-00-0000)

### Meeting logistics: all meetings in Room Galileo 2803

### <http://mentor.ieee.org/802.21/documents>

### Attendance procedures, logistics, breaks

### Duty to inform slides 1-4, etc.

### Request to make Intellectual Property declaration

#### No one declared any patent claims in this session

### LMSC Chair’s Guidelines on Commercialism at meetings

### WG chair and vice chair elections will be held on PM1 Monday in this meeting session

### IEEE 802.21 WG will be involved in the activity of ISO/IEC/JTC1/SC6 SC from this meeting

### IEEE 802 EC 5G standing committee meetings are scheduled during evening sessions on Monday and Tuesday.

### 802.11 WNG SC meeting is scheduled on AM1 Tuesday

## Working Group Status

### 802.21m: Revision Project

#### Completed WG Letter Ballot

### 802.21.1: Use cases and Services

#### Completed WG Letter Ballot

## Working Group Objectives for March meeting

### 802.21m: Revision Project

#### Address remaining comments and update the draft specification

#### Fix other issues in the draft specification

### 802.21.1: Media Independent Services

#### Address remaining comments and update the draft specification

#### Fix other issues in the draft specification

## Future Sessions – 2016

### Interim: May 15-20, 2016, Hilton Waikoloa Village, HI, USA

* + Co-located with all wireless groups

### Plenary: 24-29 July 2016, Grand Hyatt, San Diego, USA

* + Co-located with all 802 groups

### Interim: September 11-16, 2016, Marriot, Warsaw, Poland

* + Co-located with all 802 wireless groups

### Plenary: 6-11 Nov 2016, Grand Hyatt, San Antonio, TX, USA

* + Co-located with all 802 groups

## May IEEE 802 Wireless Interim meeting logistics

### May 15-20, 2016, Hilton Waikoloa Village, Big Island, HI, USA

### Event and Registration information are available now at:

* + Event Information : http://802world.org/plenary
  + HOTEL RESERVATIONS: <https://resweb.passkey.com/go/IE8>
  + Early Bird Rate: $159.00/Night +Tax ( Rate applies to first 40% of Room Block or 6:00 PM Hawaii Time, Friday March 18th Single/Double Occupancy Run of House Rooms, Internet access included.)
  + IEEE 802 RATE: $US 174.00/Night +Tax (Rate applies to the remainder of the Room Block or 6:00 PM Hawaii Time, Friday April 15th; Single/Double Occupancy Run of House Rooms, Internet access included)
  + EXTRA ADULTS: $US 20.00/Night +Tax ( Per Night Rate applies to Extra Adults (>2))
  + Reservation Assistance: Hilton Waikoloa Telephone: +1 (808) 886-1234
  + Toll Free Reservations Phone (US and Canada): 1-800-HILTONS (1-800-445-8667)
  + For international number please visit hotel website
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## Future Sessions – 2017

### Interim: January 15-20, 2017, Hyatt Regency, Atlanta, GA, USA

* + Co-located with Wireless groups

### Plenary: March 12-17, 2017, Hyatt Regency Vancouver

* + Co-located with all 802 groups

### Interim: May 13-18, 2017, Daejeon Convention Center, Daejeon, Korea (TBC)

* + Co-located with all wireless groups

### Plenary: July 9-14, 2017, Estrel Hotel and Convention Center, Berlin, Germany

* + Co-located with all 802 groups

### Interim: September 10-15, 2017, Hilton Waikoloa Village, Kona, HI, USA, 802 Wireless Interim Session.

* + Co-located with all 802 wireless groups

### Plenary: November 5-10, 2017, Caribe Hotel and Convention Center, Orlando, FL, USA

* + Co-located with all 802 groups

## Session #72 minutes (DCN: 21-16-0022-0000) was approved without any objections.

## Meeting minutes of the IEEE P802.21.1 and IEEE P802.21m Joint Teleconferences (DCN: 21-16-0040-00-0000, 21-16-0041-00-0000, 21-16-0042-00-0000) were approved without any objections.

## WG Chair explained about the background and role of IEEE 802 EC 5G SC (Standing Committee) (DCN: ec-16-0017-00-5GSG-5g-sc-agenda-march-2016), and the meeting has appointed Mr. Hyeong Ho LEE as a representative of IEEE 802.21 WG to the 5G SC.

## 802.21m Opening Notes and discussion (DCN: 21-16-0048-00-REVP)

#### Five sessions were scheduled.

#### TG completed the Letter Ballot in January, 2016

#### Addressed the comments and updated the draft

#### Draft is available in private area

#### Objective of this 802.21m TG Meeting

* + Comments resolution
    - Resolve the remaining comments and finish discussions
    - Update the draft and make it ready for Letter Ballot
    - Request WG Chair to initiate the LB
  + Schedule a joint session with IEEE 802.21.1
    - Thursday, March 17, 2016: PM1 1:30-3:30pm

## 802.21.1 Opening Notes and discussion (21-16-0049-00-SAUC)

#### Five sessions were scheduled.

#### TG completed the Letter Ballot in January, 2016

#### Addressed the comments and updated the draft

#### Draft is available in private area

#### Objective of this 802.21.1 TG Meeting

* + Comments resolution
    - Resolve the remaining comments and finish discussions
    - Update the draft and make it ready for Letter Ballot
    - Request WG Chair to initiate the LB
  + Schedule a joint session with IEEE 802.21m
    - Thursday, March 17, 2016: PM1 1:30-3:30pm

## Relationship with ECHONET Lite Consortium

Chair informed that Japanese ECHONET Consortium (http://echonet.jp/english/) expressed interests in using 802.21m and 802.21.1 technologies in ECHONET Lite consortium profile specification. Towards that ECHONET Lite Architecture WG Chair approached to IEEE 802.21 WG Chair regarding the collaboration process so that ECHONET Lite members can obtain, review and refer to the draft specifications. WG Chair discussed the matter with LMSC Chair and approached IEEE-SA Staff for creating a MOU. IEEE-SA is now drafting the MoU that will facilitate the collaboration with the ECHONET Lite Consortium and with its members.

## IEEE 802.21 WG election results

#### IEEE 802.21 WG had Chair and Vice Chair elections were held on PM1 Monday as per the agenda.

#### There were only two candidates: one for the Chair (Subir Das) and one for the Vice Chair (Hyeong Ho Lee).

#### Results are as follows:

* + Confirm Subir Das as WG Chair (6/0/0).
  + Confirm Hyeong Ho Lee as WG Vice Chair (6/0/0).

#### The affiliation and the endorsement letters have been already provided to the Recording Secretary of IEEE 802 EC.

## Meeting adjourned at 03:30pm

# Day 4 PM1 (01:30pm-03:30pm): Room Galileo 2803; March 17, 2016

## 802.21 WG Closing Plenary: Meeting is called to order by Subir Das, Chair of IEEE 802.21WG

### Agenda was updated (DCN: 21-16-0043-02-0000-session-73-agenda).

### Closing report (DCN: 21-16-0055-00-0000-session-73-closing-plenary-notes)

## TGm 802.21-2008 Revision closing note (DCN: 21-16-0054-00-revp-session-73-closing-notes)

### TG 802.21m had three sessions during this meeting

* + AM2 Tuesday, Mar 15, 2016
  + AM1 Wednesday, Mar 16, 2016
  + AM1 Thursday, Mar 17, 2016
  + Thursday AM1 was jointly held with 802.21.1

## Progress in March 2016 Meeting

* + TG discussed all remaining LB comments
  + Summary of comments
* Accepted: 144
* Revised: 35
* Rejected: 06
  + Commentary file and resolutions are available at:
* https://mentor.ieee.org/802.21/dcn/16/21-16-0009-11-REVP-lb8-comments-and-resolution.xlsx
  + TG discussed and accepted additional contributions
* https://mentor.ieee.org/802.21/dcn/16/21-16-0051-00-REVP-method-for-adding-indication-messages-to-mis-push-certificate-command-and-mis-revoke-certificate-command.docx
* https://mentor.ieee.org/802.21/dcn/16/21-16-0047-03-REVP-miis-basic-schema-and-related-problems.docx
  + Editor produced draft D2.0 and made available to member’s private area.

### 802.21m Teleconference (Tentative):

* + March 29, 2016, Tuesday, 7:30-9:00 am, US EST
  + May 9, 2016, Monday, 7:30-9:30 am, US EST
  + May 13, 2016, Friday, 7:30-9:30am, US EST
  + All calls are scheduled jointly with 802.21.1

### TG 802.21.1 closing note (DCN: 21-16-0053-00-sauc-session-73-closing-notes)

### TG 802.21.1 had four sessions during this meeting

* + PM2 Monday, Mar 14, 2016
  + PM2 Tuesday, Mar 15, 2016
  + PM1 Wednesday, Mar 16, 2016
  + AM1 Thursday, Mar 17, 2016
  + Thursday AM1 was jointly held with 802.21m

### Progress in March 2016 Meeting

* + TG discussed all remaining LB comments and resolved them
  + Summary of comments
* Accept: 124
* Revised: 36
* Reject: 04
  + Commentary file with resolutions are available
* https://mentor.ieee.org/802.21/dcn/16/21-16-0008-09-SAUC-lb9-comments-and-resolution.xls
  + TG discussed and accepted the following document
* https://mentor.ieee.org/802.21/dcn/16/21-16-0036-05-SAUC-alternatives-of-key-delivery-mechanism-described-in-5-14-of-draft-ieee-802-21-1.docx
* https://mentor.ieee.org/802.21/dcn/16/21-16-0050-00-SAUC-proposed-modification-of-figures-36-37-and-related-texts-in-ieee-p802-21-1-d01-1-draft.docx
  + Editor produced draft D2.0 and made available to member’s private area.

### 802.21.1 Teleconference (Tentative):

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## Teleconferences (Tentative)

### 802.21m and 802.21.1 Joint Teleconferences

* + March 29, 2016, Tuesday, 7:30-9:00 am, US EST
  + May 9, 2016, Monday, 7:30-9:30 am, US EST
  + May 13, 2016, Friday, 7:30-9:30am, US EST

## WG Motions passed (Full details are in 21-16-0055-00-0000)

##### Move to authorize the BRC to resolve any remaining LB#8 comments (6/0/0)

* P802.21m BRC: Yoshihiro Ohba, Lily Chen, Yoshikazu Hanatani, Yusuke Shimizu, Tomoki Takazoe, Hyeong Ho Lee, and Subir Das

##### Move to authorize the P802.21m Editor to produce the draft document for Letter Ballot initiation (6/0/0)

##### Motion to authorize the Working Group chair to initiate Letter Ballot (LB#10) on the question “Should P802.21m/D02 be forwarded to Sponsor Ballot?” (6/0/0)

##### Move to authorize the BRC to resolve any remaining LB#9 comments (6/0/0)

* P802.21.1 BRC: Yoshihiro Ohba, Lily Chen, Yoshikazu Hanatani, Yusuke Shimizu, Tomoki Takazoe, Jin Seek Choi, Hyunho Park, Hyeong Ho Lee, and Subir Das

##### Move to authorize the P802.21.1 Editor to produce the draft document for Letter Ballot initiation (6/0/0)

##### Motion to authorize the Working Group chair to initiate Letter Ballot (LB#11) on the question “Should P802.21.1/D02 be forwarded to Sponsor Ballot?” (6/0/0)

# Future Sessions

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## Chair emphasized keeping the schedule of drafting work, and encouraged members to submit proposal for future project discussion.

# Attendance

|  |  |
| --- | --- |
| Chaplin Clint | Self |
| Das Subir | Applied Communication Sciences |
| Goldberg Jonathan | IEEE SA Liaison |
| Hanatani Yoshikazu | Toshiba Corporation |
| Lee Hyeong-Ho | ETRI |
| Shimizu Yusuke | Panasonic Corporation |
| Takazoe Tomoki | Panasonic Corporation |

# The meeting was adjourned at 02:15pm

 

IEEE P802.21.1 Media Independent Services and Use Cases

Meeting Minutes of the IEEE P802.21.1 Task Group

Chair: Subir Das

Editor: Hyeong Ho Lee

# Meeting Minutes of the IEEE P802.21.1 Task Group

## Monday, PM2 Meeting, March 14, 2015 (4:00-6:00 PM)

Meeting called to order by Chair at 4:05 AM

Opening note was presented by Chair (DCN: 21-16-0049-00)

Chair read the rules and reminded the patent policies.

No LOA was declared.

Editor presented the DCN 21-16-0008-08. This document contains the resolution of all the comments of LB9. Editor also presented the draft P802.21.1 D01.1 that is in the private area.

Contribution 21-16-0033-01-REVP was presented. This document was updated based on the BRC teleconference held on February 25. RDF schema of the new IEs were updated. This will be included in IEEE 802.21m draft specification.

DCN 21-16-0036-03 was also presented and discussed. This is related to Section 5.14. It was decided that MN\_NAI will be replaced by MN Identifier and editor will do the consistency check.

Other notes in the document were discussed and resolved. A new version 21-16-0036-04 will be submitted.

## Tuesday, PM2 Meeting, March 15, 2016 (4:00-6:00 PM)

Meeting called to order by Chair at 4:00pm

DCN 21-16-0050-00 was presented. This is related to Figures 36 and 37 in draft IEEE P802.21.1 D01.1.

Link\_Preparation.indication and Link\_Preparation.response are changed to MIS\_Link\_Preparation.indication and MIS\_Link\_Preparation.response, respectively .

The changes are accepted.

TG went over Clause 7 of the draft P802.21.1 D01.1 that is in the private area. Few changes were suggested. Several figures were updated. Clause N.4.1 has been updated.

## Wednesday, PM1 Meeting, March 16, 2016 (1:30-3:30pm)

Meeting called to order by Chair at 1:30pm

Yoshikazu Hanatani presented DCN 21-16-0036-04-SAUC. TG discussed and suggested some edits.

Changes were reflected and DCN 21-16-0036-05-SAUC was uploaded and accepted.

Editor will reflect the changes accordingly to the draft specification.

Editor presented commentary spread sheet DCN: 21-16-0008-08 and TG went over all the comments. Some minor edits were done in ‘Remarks’ section. DCN: 21-16-0008-09 was uploaded and accepted

Summary of comments resolution:

Total comments received: 164

Accept: 124

Revised: 36

Reject: 04

HEMS use case had some edits and it was discussed.

## Thursday, AM1 Meeting, July 17, 2016 (8:00-10:30 am)

Chair called the meeting to order at 8:05 AM

This session was jointly held with 802.21m

Editor walked through the draft 2.0 version and discussed the changes. Chair uploaded both clean and marked versions of the draft to the private area.

TG discussed about the plan for Letter Ballot initiation. During closing plenary, WG Chair will be requested to initiate the LB so that it can finish before May Interim meeting. It was mentioned that the LB will be 30 days and it will be a new LB.

Teleconference Dates (Tentative):

March 29, 2016, Tuesday, 7:30-9:00 am, US EST

May 9, 2016, Monday, 7:30-9:30 am, US EST

May 13, 2016, Friday, 7:30-9:30am, US EST

Meeting was adjourned at 9:30 am.

** **

**IEEE P802.21 Media Independent Handover Services**

**Minutes of the IEEE P802.21m Task Group**

**Chair: Subir Das**

**Editor: Yoshikazu Hanatani**

# Meeting Minutes of the IEEE P802.21m Task Group

* 1. **Tuesday, AM2 Meeting, Galileo 2803, March 15, 2016 (10:30-12:30 PM)**

Meeting called to order by Chair at 10:30 AM

Opening note was presented by Chair (DCN: 21-16-0048-00)

Chair read the rules and reminded the patent policies.

No LOA was declared.

Yoshikazu Hanatani DCN 21-16-00-0047-01-REVP presented and TG discussed it. Following issues were identified:

1. MIS\_IQ\_TYPE\_LIST defined in Table E.20 of the 21m includes following parameters, but they are not included in MIIS basic schema. I suggest to remove following parameters from MIS\_IQ\_TYPE\_LIST.
   * Bit 32: IE\_KEY\_DIST\_INF
   * Bit 33: IE\_PoS\_INTG\_ALG\_INF
   * Bit 34: IE\_PoS\_ENCR\_ALG\_INF
   * Bit 35: IE\_PoS\_PRF\_INF
2. Following parameters are included in MIIS basic schema, but MIS\_IQ\_TYPE\_LIST does not have corresponding parameter. They shall be added to MIS\_IQ\_TYPE\_LIST defined in Table E.7 of 21.1.
   * ie\_pos\_tunnel\_mgmt\_prto
   * ie\_pos\_ip\_nai
   * ie\_d2d\_peer\_id
   * ie\_d2d\_config
3. Following information elements should be included in Table 6 of 21.1.
   * ie\_pos\_tunnel\_mgmt\_prto
   * ie\_pos\_ip\_nai
4. Data type of NAI is not defined.

These issues were discussed and proposed solutions are principally accepted. In Table F.1, Information Identifier value names will be included with a foot note that they are used for 802.21.1.

Based on the comments DCN 21-16-00-0047-02-REVP will be uploaded. Changes in this version will be reflected in the draft specification.

* 1. **Wednesday, AM1 Meeting, Galileo 2803, March 16, 2016 (8:00-10:00 AM)**

Meeting called to order by Chair at 8:04 AM

Yoshikazu Hanatani presented DCN 21-16-00-0047-02-REVP and TG discussed it. This document is accepted.

DCN 21-16-0051-00-REVP was also presented by Yoshikazu Hanatani. The proposal was to add an Indication message to minimize the responses from a large number of end devices when MIS\_Push\_Certificate and MIS\_Revoke\_Certificate commands are used. TG members discussed this and the proposal was accepted.

Editor will reflect the changes in draft 802.21m specification.

TG revisited all the comments that were received. DCN: 21-16-0009-09-REVP was looked at and some minor changes were made in ‘Remarks’ section.

Summary of comments resolution:

Total comments received: 185

Accepted: 144

Revised: 35

Rejected: 06

* 1. **Thursday, AM1 Meeting, Galileo 2803, March 17, 2016 (8:00-10:00 AM)**

Chair called the meeting to order at 8:05 AM

This session was jointly held with 802.21.1

Editor walked through the draft 2.0 version and discussed the changes. Chair uploaded both clean and marked versions of the draft to the private area.

TG discussed about the plan for Letter Ballot initiation. During closing plenary, WG Chair will be requested to initiate the LB so that it can finish before May Interim meeting. It was mentioned that the LB will be 30 days and it will be a new LB.

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May 9, 2016, Monday, 7:30-9:30 am, US EST

May 13, 2016, Friday, 7:30-9:30am, US ES

Session ended at 9:30 am.