 

IEEE P802.21 Media Independent Handover Services

Minutes of the IEEE P802.21 Working Group (DCN 21-13-0112-00-0000)

Session #56 Meeting, Big Island, HI, USA

Chair: Subir Das

Vice Chair: H Anthony Chan

Editor: David Cypher

Secretary: Charles E. Perkins

# First Day PM1 (10:45am-12:30pm): KONA 2 ; Monday, May. 13, 2013

## 802.21 WG Opening Plenary: Meeting is called to order by Subir Das, Chair of IEEE 802.21WG with opening notes (DCN: 21-13-00 79-00-0000 ).

## May 2013 Meeting Agenda (DCN: 21-13-0066-00-0000)

### Agenda bashing:

#### Monday PM2 changed to 802.21m

#### Tuesday AM-2 changed to OmniRAN

#### Tuesday PM-1 changed to 802.21c

#### Tuesday PM-2 changed to 802.21c

### Revised agenda (21-13-0066-01-0000) was approved without any objection.

## IEEE 802.21 Session #56 Opening Notes (DCN 21-13-0080-00-0000 )

### Attendance procedures

### Duty to inform, etc.

### Question on call for Intellectual Property declaration: No one declared

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

### New member count = 0

## Discussion about “Copyright - consult with IEEE before using material”

### Question: Richard Foy: what does "all" material mean?

### Subir: all material presented at meetings?

### Richard: no, just all "submitted" material. Not spoken material.

### Richard: IEEE does not "create" or "author" anything -- people do.

## Objectives for May meeting

### Task group presentations 802.21c (DCN: 21-13-041-01) and 802.21d (DCN: 21-13-013-00)

## 802.21c agenda and update from Charlie Perkins for H Anthony Chan (DCN: 21-13-0081-01):

### Agenda: Complete comment resolution

### Progress so far

#### Completed all comments resolution at the March plenary and in subsequent teleconference held by BRC (Ballot Resolution Committee). Accordingly the draft specification is updated and posted in the private area as IEEE\_P802.21c\_D03

#### Began ballot recirculation on April 26, and closed on May 13 2013. The result was;

Approve --13,

Disapprove --04,

Abstain - 05

Return ratio =77.27%,

Approval ratio= 76.47%

## 802.21d agenda (DCN: 21-13-0077-00) and update (DCN: 21-13-0085-00) from Yoshihiro Ohba:

### 802.21d draft status & Issue discussion; last meeting completed with proposal harmonization

### Issue discussion & 802.21d demonstration request

### Revised 802.21d draft status

### TG voting on asking for LB

## 802.21m discussion

### Observation for 802.21m project: needs attention to use cases in order to determine the features that can be associated for the use cases.

#### It would be useful to provide guidance for operators to help determine the feature sets that should be considered for particular use cases.

### "What has prevented deployment?"

#### --> "What are deployment requirements"

#### --> "What are barriers to deployment"

#### Most operators already have similar (but non-standard) features

#### Subir: IEEE does not really have the end customers

### Question: how do we market 802.21?

#### Why would an operator want to open up their networks so that customers can roam to a competitor?

#### Ajoy: how is this connected to ANDSF?

#### Subir: Hotspot 2.0 is using 802.11u but not using 802.21

## 802.21.1 Discussion

Several use cases are mentioned

## 802.21 future meetings

### For Geneva meeting, early registration is essential, because then the ITU badge can be requested

### Registration deadline is May 24, 2013

### September 2014 Interim either in Athens, Greece or Kobe, Japan hotels.

# Day 4 PM2 (4:00pm-6:00pm): KONA 2; Thursday, May.16, 2013

## 802.21 WG Closing Plenary: Meeting is called to order by Subir Das, Chair of IEEE 802.21WG (21-13-0093-00).

## Meeting Updates

## 802.21c Single Radio Handovers Task Group (21-13-0081-04)

### Sessions: Tue PM1, PM2; Wed PM2

### Comments resolution: 21-13-0084-00

### All comments resolution from Ballot #6b are either completed or assigned at May Interim meeting. The assigned comments resolution are to be completed by June 1 for comments #2-140

### Expect to begin recirculation in end of June, 2013.

### Teleconferences

#### May 30 Thursday 8PM ET morning in Asia

#### June 11 (Tues), 9:30-11:30 am, US ET

#### June 25 (Tues), 8- 10 pm, US ET

#### July 9 (Tues), 9:30-11:30 am, US ET

## 802.21d Multicast Management Task Group (21-13-0090-00)

### Progress in May 2013 Meeting: Resolved all remaining issues:

#### Response Flag

#### GKB details

#### Bootstrapping GKB

#### MN-initiated join

#### GKB data types

### An early implementation of 802.21d is demonstrated with the following scenario at the end of the session

#### One Command Center and 4 MNs

#### Network-initiated Join/Leave with group key distribution

#### Group commands encrypted by group key

#### Compromised MN cannot obtain updated group key

### An updated draft with all resolved issues was produced and posted in private area as 802.21d D01

### TGd Motion

* Motion: The Task Group authorizes the TG Chair to move a WG motion “The Working Group authorizes the WG Chair to carry out a Working Group 30 days Letter Ballot on the question ‘Should P802.21d D01 be forwarded to Sponsor Ballot?’ in WG Closing Plenary on May 16, 2013
* Moved by: Charles E. Perkins
* Seconded by: Stephen Chasko
* Yes: 5
* No: 0
* Abstain: 0
* Result: Motion passes

### Next Steps

#### Ask WG for starting 30-day Letter Ballot after this meeting

#### Planned LB period: June 1, 2013 – June 30, 2013

### Teleconferences

#### July 3 (Wed) 8am-10am ET

#### July 10 (Wed) 8am-10am ET

## 802.21m -- 802.21-2008 Revision Task Group

### Progress: (21-13-0098-00)

#### Discuss 21-13-0082-01-0000-toc-level-3, an abbreviated version of the Table of Contents for the base document

#### Created 21-13-0095: abbreviated ToC for 802-21a

#### Created 21-13-0097: abbreviated ToC for 802-21b

### Teleconference:

#### June 11, 2013, 8-10pm, US EST

## 802.21.1 meeting report (21-13-0096-00-0000)

### TG 802.21.1 had one session during his meeting

#### AM2 session, May 16, 2013

### There were three presentations on new use cases:

#### https://mentor.ieee.org/802.21/dcn/13/21-13-0091-00-0000-new-scenarios-for-miis.pptx

#### https://mentor.ieee.org/802.21/dcn/13/21-13-0092-01-MuGM-new-scenarios-for-802-21-1.pptx

#### <https://mentor.ieee.org/802.21/dcn/13/21-13-0071-00-0000-explaining-that-how-to-solve-of-the-user-authentication-in-case-of-mih.doc>

### Teleconference Schedule (Tentative)

#### June 24, 2013 , 8- 10 am, US EST

## 802.11 report (21-13-0099-00-0000)

### 802.11ac – Very High Throughput <6GHz

#### Successor to 802.11n at frequencies less than 6GHz

### 802.11af – TVWS (TV White Space)

### 802.11ah – Sub-1GHz

### 802.11ai – Fast Link Setup

#### Speed up initial link setup

### 802.11aj – CMMW

#### Chinese Millimeter Wave

### 802.11ak – General Link

#### Enhancements For Transit Links Within Bridged Networks

### 802.11aq – Pre-Association Discovery

### 802.11mc – New Maintenance group (compilation of all approved amendments)

#### Working towards 802.11-2015

### 802.11 High Efficiency Wireless (HEW) SG

### 802.11 WNG Wireless Next Generation SC

* Five presentations at May 2013 meeting
  + DSRC Supporting Information (11-13-0543-01-0wng-dsrc-support-information.pptx) – Lee Armstrong
  + Dedicated Short Range Communication (DSRC) Applications Tutorial (11-13-0541-00-0wng-dsrc-applications-tutorial.pptx) – John Kenney
  + Coexistence issues between 802.11p and 802.11ac in the proposed UNII-4 band (11-13-0552-00-0wng-802-11p-dsrc-and-802-11ac-coexistence.ppt) – Jim Lansford
  + Backoff protocol for IEEE 802.11 devices (11-13-0494-00-0wng-ieee-presentation-backoff.ppt) – Andrey Lukyanenko
  + IEEE 802.11 Accounting Extensions (11-13-0504-00-0wng-802-11-accounting-extensions.pptx) – Max Riegel

### Regulatory SC

### ISO/IEC JTC1/SC6

### Architecture SC

# WG Motions

Move to authorize the Ballot Resolution Committee (BRC) to resolve WG LB6b comments and approve the related contributions via teleconferences

Move: Charles E. Perkins

Second: Clint Chaplin

For: 06

Against: 00

Abstain: 00

Motion Passes

Move to authorize the P802.21c Editor to incorporate all the resolutions of letter ballot #6b comments into P802.21c /D03 and produce P802.21c/D04

Move: Charles E. Perkins

Second: Clint Chaplin

For: 06

Against: 00

Abstain: 00

Motion Passes

Motion to authorize the Working Group chair to initiate a LB#6 re-circulation Letter Ballot on the question “Should P802.21c/D04 be forwarded to Sponsor Ballot?”

Move: Charles E. Perkins

Second: Clint Chaplin

For: 06

Against: 00

Abstain: 00

Motion Passes

The Working Group authorizes the WG Chair to carry out a Working Group 30 days Letter Ballot on the question ‘Should P802.21d D01 be forwarded to Sponsor Ballot?’

Move: Yoshihiro Ohba

Second: Charlie E. Perkins

For: 06

Against: 00

Abstain: 00

Motion Passes

# Future Sessions – 2013

* **Plenary: 14-19, July 2013, Geneva, Switzerland** 
  + Co-located with all 802 groups
* **Interim: 15-20, Nanjing Zhong Shan Hotel, September 2013, Nanjing , China**
  + Co-located with all 802 wireless groups
* **Plenary: 10-15 Nov 2013, Hyatt Regency Reunion, Dallas, TX, USA** 
  + Co-located with all 802 groups

# Future Sessions – 2014

* **Interim: 19-24 January, 2014, Century Plaza, Los Angeles, CA, USA**
  + Co-located with all 802 groups
* **Plenary: 16-21 March, 2014, TBD (Non-American Venue)** 
  + Co-located with all 802 groups
* **Interim: 11-16 May 2014, Hilton Waikoloa Village, HI**
  + Co-located with all wireless groups
* **Plenary: 13-18, July 2014, Manchester Grand Hyatt, San Diego, CA, USA** 
  + Co-located with all 802 groups
* **Interim: 14-19, September 2014, TBD (Europe or Asia venue)** 
  + Co-located with all 802 wireless groups
* **Plenary: 2-7 Nov 2014, Grand Hyatt, San Antonio, TX, USA**
  + Co-located with all 802 groups

# Attendance

|  |  |
| --- | --- |
| Chaplin Clint | Samsung Electronics |
| Chasko Stephen | Landis+Gyr |
| Das Subir | Applied Communication Sciences |
| KAMBAYASHI TORU | Toshiba Corporation |
| Jeong Sangkwon | IMRC, Korea |
| Yoshikazu Hanatani | Toshiba Corporation |
| Ohba Yoshihiro | TOSHIBA Corporation |
| Perkins Charles | Futurewei Technologies |
| Singh Ajoy | Apple |
| Randall Karen | NSA/ISD |

# The meeting was adjourned at 5:40pm

 

IEEE P802.21 Media Independent Handover Services

Tentative Meeting Minutes of the IEEE P802.21c Single Radio Handover Task Group in May 2013 Interim

Chair: H Anthony Chan

Vice Chair: Dapeng Liu

Technical Editor: Charles Perkins

Secretary: Hyunho Park

# Second Day First Day PM1 (1:30pm-3:30pm): KONA 2 ; Tuesday, May. 14, 2013

## 802.21c WG ballot recirculation report (DCN: 21-13-0081-02)

### The results of WB ballot recirculation on IEEE P802.21c/D03 conducted from April 26 to May 13 2013 are as follows:

#### There are 13 approve, 4 disapprove, and 5 abstain. It passes with 76.5% approval.

#### There are 143 comments, of which 82 are editorial and 61 are technical.

## Comments resolutions (DCN: 21-13-0084-00)

### Charles Perkins chaired session for comments resolution on IEEE P802.21c/D03.

## Meeting recess at around 3:30PM

# Second Day First Day PM2 (4pm-6pm): KONA 2 ; Tuesday, May. 14, 2013

## Comments resolutions (DCN: 21-13-0084-00)

### Meeting continues on comments resolution on IEEE P802.21c/D03, and the results are recorded in 21-13-0084-01

## Meeting recess at around 6PM

# Third Day First Day PM2 (4pm-6pm): KONA 2 ; Wednesday, May. 15, 2013

## Comments resolutions (DCN: 21-13-0084-01)

### Meeting continues on comments resolution on IEEE P802.21c/D03, and the results are recorded in DCN: 21-13-0084-02

### All comments resolution from Ballot #6b are either completed or assigned at this May Interim meeting. The goal is to get everything completed by June 1, 2013 except PICS, MIB, RDF Schema . That is, the assigned comments are to be resolved and completed by June 1, 2013. . Yoshi has kindly consented to resolve the remaining comments on PICS after the document is more stable in early June.

### It is planned to begin the recirculation in end of June, 2013.

## The following teleconferences are tentatively scheduled but may cancel them once draft IEEE P802.21c/D04 becomes available for recirculation:

### May 30, 2013 (Thur) 8-10PM ET

### June 11, 2013 (Tue) 9:30-11:30AM ET

### June 25, 2013 (Tue) 8-10PM ET

### July 9, 2013 (Tue) 9:30-11:30AM ET

## Meeting recess at around 6PM

IEEE P802.21 Media Independent Handover Services

Meeting Minutes of the IEEE P802.21d Group Management Task Group

Chair: Yoshihiro Ohba

Editor: Antonio de la Oliva

# First Day AM1 Meeting: Kona 2; Tuesday, May 14

## Meeting called to order by Chair at 8:15AM

Call for volunteer to take minutes. Charles Perkins and Yoshihiro Ohba are the minutes-taker for Tuesday AM1

## Meeting Agenda (21-13-0077-00) is presented by Chair

The IEEE 802.21d task group is scheduled to meet Tuesday AM1, Wednesday AM1&AM2 and Thursday AM1. The agenda was approved with no objections.

## Meeting Minutes Approval

The following meeting minutes are approved with no objections.

* DCN 21-13-0057-00 (March 2013 F2F meeting minutes)
* DCN 21-13-0072-00 (April 17, 2013 teleconference minutes)
* DCN 21-13-0075-00 (May 8, 2013 teleconference minutes)

## Opening Notes (21-13-0085-00) is presented by Chair

Slides #1-#4 shown, Note Well, Duty to Inform

Call for essential patents (No one responds)

New TGd Schedule is presented. Letter Ballot and Sponsor Ballot schedules are shifted two month ahead due to completion of harmonization in March 2013.

The latest 802.21d draft is 802.21d D00-002 which is available at the member-only page.

If open issues are resolved in this week, TG plans to have a vote on sending 802.21d draft to WG to initiate the Letter Ballot.

## 802.21d Document Status presented by Antonio de la Oliva

802.21d D00-002 is presented by Antonio de la Oliva.

Group manipulation and push certificate primitives are moved to service management category.

ResponseFlag is added to MIH\_Link\_Configure\_Threshold.request and MIH\_Net\_HO\_Commit.request primitives.

In 8.2.2, text is added for explaining that no ACK is used for multicast MIHF ID.

Changes in Figure 24 (Transaction destination state machine) shall be highlighted.

In 9.4.2, MN-initiated join text is still missing.

In p44, format of SubgroupRange is defined.

In p45, Step 1) is removed since silent discarding of received message upon decryption failure is the right approach. Accordingly GROUP\_STATUS code 1, 4 and 6 are removed.

Complete Subtree TLV data type shall be changed from OCTET\_STRING to COMPLETE\_SUBTREE.

GroupKeyData shall be changed to optional for MIH\_MN\_Group\_Manipulate response and MIH\_Net\_Group\_Manipulate {request.indication} messages.

## Detailed explanation of GKB operation by Toru Kambayashi

Toru presented GKB details described in DCN: 21-13-0073-01.

DCN: 21-13-0076 shall be discussed in Wednesday AM2.

## Recess at 10AM

# Second Day AM1 Meeting: Kona 2; Wednesday, May 15

## Meeting called to order by Chair at 8:10AM

Minutes are taken by Yoshihiro Ohba.

## Bootstrapping MKB presented by Yoshikazu Hanatani

Yoshikazu Hanatani presented the document (DCN: 21-13-0076-00).

Question: Are both MIH\_Push\_Credentials and MIH\_Pull \_Credentials are new primitive?

Comment: MIH\_Pull \_Credentials primitives are new. MIH\_Push\_Credentials primitives are replacement of MIH\_Push\_Certificate.

Question: The MIH\_Push\_Credentials and MIH\_Pull \_Credentials primitives support only certificates. Should we add support other type of credentials including symmetric key credentials?

Comment: We can add support other type of credentials during letter ballot.

The document has been accepted to be incorporated to 802.21d draft.

## MN-initiated Join text presented by Antonio de la Oliva

Antonio de la Oliva presented the document (DCN: 21-13-0086-00).

Question: Should “transport” be plural?

Comment: Editor shall determine whether it is singular or plural.

The document has been accepted to be incorporated to 802.21d draft.

## Recessed at 9:00am

# Second Day AM2 Meeting: Kona 2; Wednesday, May 15

## Meeting called to order by Chair at 10:30AM

Minutes are taken by Yoshihiro Ohba.

## 802.21d demonstration presented by Toru Kambayashi and Yoshikazu Hanatani

Toru Kambayashi and Yoshikazu Hanatani presented the document (DCN: 21-13-0089-00) and showed a demonstration using 3 laptop PCs, one PC for Command Center and two PCs for 4 MNs. The following scenarios are shown.

* Network-initiated Join/Leave with group key distribution
* Group commands encrypted by group key
* Compromised MN cannot obtain updated group key

## GKB data type description presented by Toru Kambayashi

Toru-kambayashi presented the document (DCN: 21-13-0088-00).

The document has been accepted to be incorporated to 802.21d draft.

## Recess at 10:20AM

# Third Day AM1 Meeting: Kona 2; Thursday, May 16

## Meeting called to order by Chair at 9:00AM

Minutes are taken by Yoshihiro Ohba

## Revised 802.21d draft presented by Antonio de la Oliva

Editor (Antonio de la Oliva) presented 802.21d D00\_003 which incorporates the resolutions that were agreed by the group in this week.

Comment: GROUP\_STATUS should not have “join unsuccessful” and “leave unsuccessful” status. On the other hand it should have “unchanged” status.

The comment was accepted and Editor produced 802.21d D01 reflecting the comment.

## Closing Note by Chair

TG closing note is captured in DCN: 21-13-0055-00-MuGM.

The following motion was taken.

Motion: The Task Group authorizes the TG Chair to move a WG motion “The Working Group authorizes the WG Chair to carry out a Working Group 30 days Letter Ballot on the question ‘Should P802.21d D01 be forwarded to Sponsor Ballot?’” in WG Closing Plenary on May 16, 2013

* Moved by: Charles E. Perkins
* Seconded by: Stephen Chasko
* Yes: 5 / No: 0 / Abstain: 0
* Result: Motion passes

Teleconference schedule was discussed. The group agreed on the following tentative schedule.

* July 3 (Wed) 8am-10am ET
* July 10 (Wed) 8am-10am ET

## The meeting adjourned at 9:40am