 

IEEE P802.21 Media Independent Handover Services

Minutes of the IEEE P802.21 Working Group (DCN 21-13-0164-00-0000)

Session #57 Meeting, Geneva, Switzerland

Chair: Subir Das

Vice Chair: H Anthony Chan

Editor: David Cypher

Secretary: Charles E. Perkins

# First Day PM1 (10:45am-12:30pm): CICG G-19 ; Monday, July 14, 2013

## 802.21 WG Opening Plenary: Meeting is called to order by Subir Das, Chair of IEEE 802.21WG with opening notes (DCN: 21-13-0121-00-0000).

## July 2013 Meeting Agenda (DCN: 21-13-0107-00-0000)

### Agenda bashing:

### Revised agenda (21-13-0107-01-0000) was approved without any objection.

### Monday Tutorial will be in meeting room #284, Main Tower ITU-Popov1 & Popov2

### OmniRAN meeting in CCV-Room C (building next door), but mostly joint sessions

## IEEE 802.21 Session #57 Opening Notes

### 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

### LB #6c results: 88% approve, want to have 100% approval. Have requested conditional approval. If no new disapprove votes are received, can go to Sponsor Ballot in November.

### May 2013 (DCN 21-13-0121-00-0000) minutes were approved (no objections).

### In November, Ethernet inventors will be invited (Metcalf & …) to celebrate Ethernet anniversary

## Discussion of Proposed 5C rule changes

### ec-13-0032-01-00EC-proposed-rule-changes-for-july-2013.pdf),

### Proposed changes will not apply to existing PARs

## Working Group Objectives for July meeting

### Task group presentations 802.21c (DCN: 21-13-0123-01)

### Task group presentations 802.21d (DCN: 21-13-0122-00)

### Task group discussion in 802.21m, create issue spreadsheet

### Task group presentations 802.21.1

## 802.21c agenda and update (DCN: 21-13-0123-01) from H Anthony Chan:

### Agenda: Complete comment resolution

### Important to complete by Wednesday in order to avoid delay of Sponsor Ballet until November.

## 802.21d agenda and update (DCN: 21-13-0122-00) from Yoshihiro Ohba:

### 802.21d draft status & Issue (DCN 21-13-0113-00) discussion

## 802.21m agenda and discussion from Charlie Perkins

### No presentations submitted yet

### Agenda is not finalized. Current plan is to continue and finalize proposed Table of Contents

## 802.21.1 agenda and discussion from Subir Das

### Agenda has time for presentations of two use cases

## Should read operations manual and 5C update

## 802.21 future meetings discussion

# Day 4 PM2 (4:00pm-6:00pm): CICG G-19; Thursday, July 18, 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 liaison report (DCN 21-13-0141-00-0000)

## WG Motions voted and passed

## IETF liaison report (DCN 21-13-0140-00-0000)

### Dmm very active

### MIH working group documents expired!

### Roll multicast

### Rmt sdp / flute

## TGd Multicast Management closing note (DCN 21-13-0139-01)

### LB7 comment resolution (209 resolved, 46 remain)

### LB7 ballot resolution committee approved

### WG motions passed

##### resolve WG LB7 comments and approve the related contributions via teleconferences

##### P802.21d Editor to accept the resolution passed during July, 2013 plenary meeting and by the LB7 BRC during teleconferences and produce P802.21d/D02

##### WG Chair to initiate a LB7 re-circulation ballot on the question “Should P802.21d/D02 be forwarded to Sponsor Ballot

### Teleconference schedule

##### August 7 (Wed) 8am-10am ET

##### August 21 (Wed) 8am-10am ET

##### August 28 (Wed) 8am-10am ET

## TGc Single Radio Handovers closing note (DCN 21-13-0123-02)

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

### All comments are resolved.

### Comments resolution file: 21-13-0117

### Teleconference schedule

##### Aug 13 Tuesday 9:30AM ET (Evening in Asia, PM in Europe, 6:30 in California)

##### Aug 20 Tuesday 8PM ET (morning in Asia)

##### Sept 10 Tuesday 9:30AM ET (evening in Asia)

### WG motions passed

##### Editor to incorporate all the resolutions of letter ballot #6 comments into P802.21c /D04 and produce P802.21c/D05

##### Authorize the Working Group chair to initiate a LB#6 re-circulation Letter Ballot on the question “Should P802.21c/D05 be forwarded to Sponsor Ballot?”

## TGm 802.21-2008 Revision closing note (DCN 21-13-0136-00)

### Session: Thur. AM1

### Discussion of 802.21m versus 802.21.1 structure and relationships

### Document translation from Lisa Perry, IEEE document support

### Teleconference schedule

#### Aug 29 Tuesday 8PM ET (morning in Asia)

## 802.21.1 closing note (DCN 21-13-0137-00)

### TG 802.21.1 had one session during his meeting

### There were four presentations on use cases:

* + https://mentor.ieee.org/802.21/dcn/13/21-13-0110-02-0000-udid-research-for-user-authentication.doc
  + https://mentor.ieee.org/802.21/dcn/13/21-13-0128-00-MISU-interworking-service-architecture-and-requirements.ppt
  + https://mentor.ieee.org/802.21/dcn/13/21-13-0119-00-MISU-proposal-on-new-mih-service-for-proximity-service-communications.pptx
  + https://mentor.ieee.org/802.21/dcn/13/21-13-0130-01-MISU-proposal-on-new-mih-service-for-broadband-access-via-heterogeneous-access-systems.pptx

### Teleconference: September (Thurs), 2013 , 8- 10 am, US EST

## 802.21 closing note (DCN 21-13-0138-00)

### Task Groups Update

* 802.21c Single Radio Handovers Task Group
  + https://mentor.ieee.org/802.21/dcn/13/21-13-0140-00-0000-ietf-liaison-report.ppt
* 802.21d Multicast Management Task Group
  + https://mentor.ieee.org/802.21/dcn/13/21-13-0139-01-MuGM-tgd-closing-note.ppt
* 802.21m: Revision Task Group
  + https://mentor.ieee.org/802.21/dcn/13/21-13-0136-00-REVP-session-57-closing-note.ppt
* 802.21.1: Media Independent Services Task Group
  + https://mentor.ieee.org/802.21/dcn/13/21-13-0137-00-SAUC-july-2013-closing-notes.pptx

### Liaison Reports

* 802.11 Report
  + [https://mentor.ieee.org/802.21/dcn/13/21-13-0141-01-0000-802-11-liaison-report-for-2013-07.ppt](https://mentor.ieee.org/802.21/dcn/13/21-13-0141-00-0000-802-11-liaison-report-for-2013-07.ppt)
* IETF Report
  + https://mentor.ieee.org/802.21/dcn/13/21-13-0140-00-0000-ietf-liaison-report.ppt

### Teleconference Schedule

### 802.21c Teleconferences:

### August 13 (Tues), 2013, 9:30- 11:30 am, ET

### August 20 (Tues), 2013, 8- 10 pm, ET

### September 10 (Tues), 2013, 9:30- 11:30 am, ET

### 802.21d Teleconferences:

### August 07 (Wed), 8-10 am, ET

### August 21 (Wed) 8-10am, ET

### August 28 (Wed) 8-10am, ET

### 802.21m Teleconference:

### August 29 (Thurs), 2013, 8-9 pm, ET

### 802.21.1 Teleconference

### September (Thurs), 2013, 8- 10 am, US EST

### Future Locations

Discussion about going to Sponsor Ballot; explain packet that goes to EC

## Discussion about approval of OmniRAN SG continuation

### 802.21 supports, but prefers production normative Stage 2

## September, 2013 Interim registration is open. $550 early-bird registration before July 31 (hurry)

## Future Sessions

# WG Motions

## Move to authorize the P802.21c Ballot Resolution Committee (BRC) to resolve WG LB6d and LB6e comments and approve the related contributions via teleconferences

* Move: Anthony Chan
* Second: Charlie Perkins
* For: 10
* Against: 00
* Abstain: 00

Motion Passes

## Move to authorize the P802.21c Editor to incorporate all the resolutions of letter ballot #6c comments into P802.21c /D04 and produce P802.21c/D05

* Move: Anthony Chan
* Second: Charlie Perkins
* For: 10
* Against: 00
* Abstain: 00

Motion Passes

## Move to authorize the P802.21c Editor to incorporate all the resolutions of letter ballot #6d comments into P802.21c /D05 and produce P802.21c/D06

* Move: Anthony Chan
* Second: Charlie Perkins
* For: 10
* Against: 00
* Abstain: 00

Motion Passes

## Move to authorize the Working Group chair to initiate a LB#6d re-circulation Letter Ballot on the question “Should P802.21c/D05 be forwarded to Sponsor Ballot?”

* Move: Anthony Chan
* Second: Charlie Perkins
* For: 10
* Against: 00
* Abstain: 00

Motion Passes

## Move to authorize the Working Group chair to initiate a LB#6e re-circulation Letter Ballot on the question “Should P802.21c/D06 be forwarded to Sponsor Ballot?”

* Move: Anthony Chan
* Second: Charlie Perkins
* For: 10
* Against: 00
* Abstain: 00

Motion Passes

## Move to authorize the P802.21 WG Chair to make a motion to the IEEE 802 Executive Committee for conditional approval to forward the IEEE 802.21c Draft for Sponsor Ballot

* Move: Anthony Chan
* Second: Charlie Perkins
* For: 10
* Against: 00
* Abstain: 00

Motion Passes

## 802.21d LB BRC committee formed

### LB7 BRC members:

* + Antonio de la Oliva
  + Toru Kambayashi
  + Yoshikazu Hanatani
  + Lily Chen
  + Karen Randall
  + Subir Das
  + Yoshihiro Ohba (Chair)
  + Charles E. Perkins

## Move to authorize the P802.21d Ballot Resolution Committee (BRC) to resolve WG LB7 comments and approve the related contributions via teleconferences

* Move: Yoshihiro Ohba
* Second: Antonio de la Oliva
* For: 10
* Against: 00
* Abstain: 00

Motion Passes

## Move to authorize the P802.21d Editor to incorporate all the resolutions of letter ballot #7 comments into P802.21d /D01 and produce P802.21d/D02

* Move: Yoshihiro Ohba
* Second: Antonio de la Oliva
* For: 10
* Against: 00
* Abstain: 00

Motion Passes

## Move to authorize the Working Group chair to initiate a LB#7a re-circulation Letter Ballot on the question “Should P802.21d/D02 be forwarded to Sponsor Ballot?”

* Move: Yoshihiro Ohba
* Second: Antonio de la Oliva
* For: 10
* Against: 00
* Abstain: 00

Motion Passes

# Future Sessions – 2013

* **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 |
| 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 |
| Randall Karen | NSA/ISD |

# The meeting was adjourned at 5:59pm

 

IEEE P802.21c Single Radio Handover Task Group

Chair: H Anthony Chan

Vice Chair: Dapeng Liu

Technical Editor: Charles Perkins

Secretary: Hyunho Park

# Meeting Minutes of the IEEE P802.21c Single Radio Handover Task Group in July 2013 Plenary

## Day1 PM2 (4:00PM-6:00PM): CiCG19; Monday, July 18, 2013

### Meeting is called to order by H. Anthony Chan, chair of 802.21c TG, with agenda (DCN# 21-13-0123-00).

### Comments from the 53th comment number of “LB comments and resolution (DCN# 21-13-0117-00-srho)” were discussed and results of the discussion are as follows.

## Comment #42 (Clause: 5.9.3 , Pg: 11, Figure 11d): Figure seems to be much bigger than the rest Make it the same format as 11c, for example.

## Resolution: PHY and L2 of TPoS are lower layers fiber. Thus, the figure was determined to be updated by referring other standard documents.

## Comment #48: There is no ANQP Server anywhere defined, in addition, the MIHF cannot perform translation between protocols

## Resolution: The ANQP server name is changed into advertising service server, 4.5.9 in IEEE 802.11-2010.

## Comment #65 (Clause 3, Pg.:3, Line: 2) How will the MN identity whether the Information server is a virtual or not? Either define the how part or delete the 'virtual'. It should be just like another Information Server. Delete "To the MN the Proxy Information server appears to be a virtual Information Server of the originating network."

## Resolution: Modified definition of proxy information server is “proxy Information Server: A Server that can assist the mobile node to obtain the required information when a query is made via the originating network. To the MN, the proxy Information Server appears to be an Information Server of the originating network.”

## Comment#66 (Clause 3, Pg.:3, Line: 5) How will the MN identity whether the PoA is a virtual or not? Either define the how part or delete the 'virtual'. It should be just like another PoA Delete "To the MN, the proxy PoA appears to be a virtual point of 5 attachments (PoA) in the target network. It enables such services as preregistration of the MN."

## Resolution: Modified definition of proxy PoA is “An entity that provides service to a mobile node and a target point of attachment via the originating network. To the MN, this entity appears to be a point of attachment (PoA) in the target network. It enables such services as preregistration of the MN. “

## Comment #s 2, 3, 4, 5, 6, 43, 48, 71, 72, 76, 77, and 79 are discussed and resolved.

## Day2 AM2 (10:30AM-12:30PM): CiCG19; Tuesday, July 16, 2013

### Meeting is called to order by H. Anthony Chan, chair of 802.21c TG, with agenda (DCN# 21-13-0123-00).

### Comments from the 53th comment number of “LB comments and resolution (DCN# 21-13-0117-01-srho)” were discussed and results of the discussion are as same as follows.

## Comments (Comment #8, 9 10, and 11) about MIH\_Prereg\_Ready were discussed with remedy document that is “Proposed modification on MIH\_PreReg\_Ready primitives and messages in IEEE 802.21c (DCN#21-13-0116-00).” After discussion about remedy document, the remedy document was determined to be updated. The updated document was accepted.

## About modification of protocol stacks in figure 11c and figure 11d, L2 message of the target link on top of MIH was discussed. The modified figures were determined to have more discussion. Thus, the discussion defers to PM2 session.

## Comment #s12, 13, 41, 43, 53, 54, 82, 83, 84, 85, 86, 90, 91, 92, 93, 94, 95, 96, 97, 98, and 99 are discussed and resolved.

## Day2 PM2 (16:00PM-18:00PM): CiCG19; Tuesday, July 16, 2013

### Meeting is called to order by H. Anthony Chan, chair of 802.21c TG, with agenda (DCN# 21-13-0123-00).

### H. Anthony Chan informs of “Figure for Comment #78 for SRHO lb6b (DCN# 21-13-0126-00-srho).”

### “LB comments and resolution (DCN# 21-13-0117-05-srho)” were discussed and results of the discussion are as follows.

## Comment #82: It should be 'PoS information elements include …' Replace 'PoS information includes' with 'PoS information elements include'

## Resolution: About comment 82, (c) of clause 6.5.4 was determined to be merged into (b) of clause 6.5.4 of IEEE 802.21-2008 standard.

## Comments (Comment #78, 79, and 80) about Figure 11c and Figure 11d were discussed and determined as follows.

## Resolution for Figure 11c and Figure d



Figure 11c: Transport of L2 frame of target interface via MIH using the logical connection at the Target PoS to the SRHO-capable TPoA



Figure 11d. Transport of L2 frame via the proxy PoA to a legacy TPoA which is not SRHO-capable.

## Comment #s 83, 90, 95, 101 were resolved.

### Comment resolutions (DCN# 21-13-0117-05-srho)” were determined to be updated.

## Day4 PM1 (13:30AM-15:30PM): CiCG19; Thursday, July 18, 2013

### Meeting is called to order by H. Anthony Chan, chair of 802.21c TG, with agenda (DCN# 21-13-0123-01).

### The updated draft document was discussed and updated.

### “Proposed remedy for the Proxy for Information Services (DCN#21-13-0133-00)” including updated clause 5.9.3 of draft document was discussed.

## Text of clause 5.9.3 was updated based on Figure 11c and d.

### “Proposed remedy for the Proxy for Information Services (DCN#21-13-0133-00)” including updated clause 5.9.3 of draft document was discussed.

### Teleconference schedule was discussed and determined.

### The final TGc report and agenda (DCN# 21-13-0123-02) was approved.

### The meeting adjourned at 15:30 PM

 

IEEE P802.21d Group Management Task Group

Chair: Yoshihiro Ohba

Editor: Antonio de la Oliva

# Tentative Minutes of the IEEE P802.21d Group Management Task Group in July 2013 Plenary

## First Day AM1 Meeting: CICG Room #19; Tuesday, July 16

### Meeting called to order by Chair at 8:05AM

Call for volunteer to take minutes. Lily Chen is the minutes-taker for Tuesday AM1

### Meeting Agenda (21-13-0122-00) is presented by Chair

The chair presented the agenda for the week in Geneva. The agenda was agreed.

### Meeting Minutes Approval

May 2013 TGd meeting minutes are merged in the WG meeting minutes and were approved by the WG in the WG opening plenary.

Teleconference meeting minutes for July 10 (DCN 115-00) were accepted.

### Opening Notes (21-13-0124-00) is presented by Chair

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

Call for essential patents (No one responds)

### Letter Ballot #7 comment resolution

The group discussed comment resolutions in the DCN 135-05. The session focused on the comments which resolution has been suggested by the technical editor.

### Recess at 10AM

## Second Day AM2 Meeting: CICG Room #19; Wednesday, July 17

### Meeting called to order by Chair at 10:00AM

Minutes are taken by Yoshihiro Ohba.

### Letter Ballot #7 comment resolution

The group discussed comment resolutions in the DCN 135-06. The session first discussed the comments marked as editorial. Comments #83, #84, #139 marked as editorial were changed to technical category.

The group then discussed technical comments on sections 1 through 6.

### Recessed at 9:00am

## Second Day PM2 Meeting: CICG Room #19; Wednesday, July 17

### Meeting called to order by Chair at 4PM

Minutes are taken by Yoshihiro Ohba.

### Letter Ballot #7 comment resolution

The group discussed technical comments on sections 7 through 9.

As part of comment resolution, Lily Chen presented DCN 132-00 in relation to comments #219 and #220. The group agreed to use NIST P-224 and NIST P-256 as EC curves used for ECDSA. Whether SHA-256 should be used for both curves is the remaining issue. Lily and Karen agreed to work on text to address comments #219 and #220.

### Recess at 18:05AM

## Third Day AM2 Meeting: CICG Room #19; Thursday, July 18

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

Minutes are taken by Yoshihiro Ohba

### Letter Ballot #7 comment resolutions

The latest commentary file is DCN 113-08.

The group continued discussion technical comments on sections 7 through 9.

As part of comment resolution, Karen Randall presented proposed resolution for comments #219 and #220. It was agreed to use SHA-256 for both P-224 and P-256. On the other hand, whether SHA-256 should be used for both curves is still an issue, which requires to check with the proposer (Stephen Chasko). Karen agreed to submit a contribution on line-by-line remedy for #219 and #220.

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### Closing Note by Chair

TG closing note is captured in DCN #139-01.

Three WG motions about LB7 comment resolution will be passed to the WG closing plenary.

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

## August 7 (Wed) 8am-10am ET

## August 21 (Wed) 8am-10am ET

## August 28 (Wed) 8am-10am ET

### The meeting adjourned at 12:30pm

 

IEEE P802.21m Revision Project Group

Chair: Charlie Perkins

Minutes: Lili Chen

# Third Day AM1 Meeting: CICG Room #19; Thursday, July 18

## The chair called to order;

## The chair presented agenda, the document number is DCN 21-13-134-00

## The chair asked whether new issues shall be added

## Question was raised from the group on whether we consider the new material in 21m. We can take out things if something should not be there. For example, some service or message which has never been used. Some primitives may need to be removed.

## How to coordinate with IEEE 802.21.1

## Shall we take out the handover services? Can we consider pre-registration as a service and authentication another service? We don’t know whether the pre-registration and authentication are two services.

### We may call it media independent control function. When it is used for handover, we can call it handover function.

### For example, location service can be used for handovers and other services. If the architecture stays as it is, some use cases may not be covered.

### Handover is the major use case. For example, as it is presented in document #130, it is from one backhaul to another. It does not involve mobile node. It is network selection from network side, not end user selection.

### Let’s not tie ourselves to handovers. If we move all the handover related to 21.1, then how many pages are needed to cover those.

## The discussions on the relation between 21m and 21.1.

### 21m will be the frameworks;

### 21.1 is about how to use the frameworks. Handover is just one service.

### 21m will start to determine what to keep and what need to change. It will call for contribution. It will go with the normal procedure.

### Decision to take handover services out of 802.21, present to 802.21.1 as a first use case

### Discussion about granularity of services. If a service becomes used by most other 802.21.1 “use cases”, does it belong in 802.21m?

### Subir: we have to start with something, and work from there

### Charlie: we should allow for success, and if there are dozens of services using 802.21m then that counts as a very positive development. Subir: agreed.

## Spreadsheet to be created and uploaded to document repository. Spreadsheet will contain issues for 802.21m that have been identified for resolution – for instance, errors in base specification.

### Subir will send an initial list of issues for the spreadsheet

## Lisa Perry will send Microsoft Word version of 802.21-2008-updated, 802.21a, and 802.21b

## Charlie will take proposed new Table of Contents and create new draft document from the translated documents received from Lisa Perry

## Teleconference scheduled for August 29, 2013, 8PM Eastern Time, morning in Asia.