IEEE P802.21 Media Independent Handover Services

Tentative Minutes of the IEEE P802.21 Working Group

Session #42 Meeting, Taipei, Taiwan

Chair: Subir Das

Vice Chair: Juan Carlos Zuniga

Secretary: H Anthony Chan

Editor: David Cypher

(Version: Technical corrections from last version are as marked in red.)

# First Day PM1 (1:30PM-3:30PM): V104; Monday, January 10, 2011

## 802.21 WG Opening Plenary (Chair of IEEE 802.21WG): Meeting is called to order by Subir Das, Chair of IEEE 802.21WG at 1:50PM with opening notes (21-11-0007-00).

## Approval of the Jan 2011 Meeting Agenda (21-10-0241-00)

### We might change later if less slots are needed in some TGs

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|   | **Monday** | **Tuesday** | **Wednesday** | **Thursday** |
| **AM-1****8:00-10:00a** |  | Security TG | Security  | HBS TG  |
| **AM-2****10:30-12:30** |  | HBS TG | Security  | HBS TG |
| **PM-1****1:30 – 3:30p** | 802.21 WG Opening Plenary | SRHO TG | HBS TG  |  SRHO TG  |
| **PM-2****4:00 – 6:00p** | Security TG | SRHO TG  | SRHO TG  | 802.21 WG Closing Plenary  |
| **Eve****6:00 – 9:00p** |  |  | Social Event  |  |

### Agenda is approved with unanimous consent.

### Note: Agenda is later amended to the following (21-10-241-01):

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|   | **Monday** | **Tuesday** | **Wednesday** | **Thursday** |
| **AM-1****8:00-10:00a** |  | Security TG | Security TG | HBS TG  |
| **AM-2****10:30-12:30** |  | Security TG | Security TG | HBS TG |
| **PM-1****1:30 – 3:30p** | 802.21 WG Opening Plenary | SRHO TG | Security TG |  SRHO TG  |
| **PM-2****4:00 – 6:00p** | Security TG | SRHO TG  | SRHO TG  | 802.21 WG Closing Plenary  |
| **Eve****6:00 – 9:00p** |  |  | Social Event  |  |

## IEEE 802.21 Session #42 Opening Notes

### WG Officers

#### Chair: Subir Das

#### Vice Chair: Juan Carlos Zuniga

#### Secretary: Anthony Chan

#### Editor: David Cypher

#### 802.11 Liaison: Clint Chaplin

#### 802.16 Liaison: Peretz Feder

#### IETF Liaison: Yoshihiro Ohba

The WG has 32 voting members as of this meeting.

### Network information for the documents

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

### Attendance and voting membership are presented.

#### Attendance is taken electronically ONLY at <https://seabass.ieee.org/imat/index>

#### Enter your personal information and profile

#### Mark attendance during every session

There is an access code by accident which has not yet been fixed. Manual attendance is taken this morning.

#### Total number of 802.21 WG sessions: 14 (Tentative)

#### 11 sessions for 75% attendance to be counted towards WG voting membership.

#### All attendance records on the 802.21 website. Please check the attendance records for any errors

### Voting membership

#### 802.21 Voting membership is described in DCN 21-06-075-02-0000

#### Maintenance of Voting Membership

Two plenary sessions out of four consecutive plenary sessions on a moving window basis

One out of the two plenary session requirement could be substituted by an Interim session

#### WG Letter Ballots: Members are expected to vote on WG LBs. Failure to vote on 2 out of last 3 WG LBs could result in loss of voting rights

### Miscellaneous Meeting Logistics are presented.

#### Breaks:

#### AM coffee break 10:00-10:30AM;

#### Lunch 12:30-1:30PM;

#### PM coffee break 3:30-4PM

#### Monday evening session on HBS TG.

#### Wednesday night: Social at 6PM onwards

### Rules on registration and media recording policy are presented.

### Rules on Membership & Anti-Trust are presented

### Rules to inform about patents are presented as follows:


### Chair asked whether there are any potential essential patent claims by any 802.21 WG participants. None.


### Other guidelines for IEEE WG meetings, including discussions that are inappropriate are presented.


### LMSC Chair’s guidelines on commercialism at meeting are presented.

### Rules on copyright are presented. Note that the copyright procedures are being updated.

### Chair: How many people are attending the IEEE 802.21 WG meetings for the first time? Floor: counted 0

## Letter ballot #4a Results

### LB#4 started on November 23, 2010 and ended on December 22, 2010

### Result is published on December 23, 2010 http://www.ieee802.org/21/ballots.html

### Summary

#### Approve : 16

#### Disapprove : 8

#### Abstain: 02

#### Return ratio : 81%

#### Approval ratio : 66%

### The ballot is not approved

## Letter Ballot #5 Result

### LB#4 started on November 23, 2010 and ended on December 22, 2010

### Result is published on December 23, 2010 <http://www.ieee802.org/21/ballots.html>

### Summary

#### Approve : 12

#### Disapprove : 11

#### Abstain: 03

#### Return ratio : 81

#### Approval ratio : 52%

### The ballot is not approved

## Objectives for the January Meeting

### Task Group Activities

#### 802.21a: Security Extensions to MIH Services

Letter Ballot #5 Comment Resolution

#### 802.21b: Handovers with Broadcast Services

Discuss Letter Ballot #4a comments and resolve them if possible

#### 802.21c: Single Radio Handovers

Draft document discussion and preparation for a TG draft specification

## Next session:

### Plenary: 14-17 March, 2011, Singapore

#### Co-located with all 802 groups

### Meeting details

#### http://ieee802.facetoface-events.com/session/68

### Registration information

#### Early Registration: $800 US before 6pm PST, Monday, January 17, 2011 (UTC Time: Tuesday, January 18, 2011, 2am)

#### Standard Registration: $1000 US before 6pm PST, Monday, February 28, 2011 ( UTC Time: Tuesday, March 1, 2011, 2am)

#### Late / On-Site Registration: $1200 US after 6pm PST, Monday, February 28, 2011 (UTC Time: Tuesday, March 1, 2011, 2am)

### Hotel information

#### Early bird Deadline: before January 22, 2011 at 6pm (Singapore Time = GMT+8 = 2am PST) SG$250.(~$192.US)/night + taxes (

#### GROUP RATE Deadline: before February 22, 2011 at 6pm (Singapore Time = GMT+8 = 2am PST) SG$296.(~$227.US)/night + taxes

#### EXTRA PERSONS (>2): +SG$50/night/(person >21)

## November Plenary Meeting Minutes (21-10-0253-01).

### Meeting minutes is approved with unanimous consent.

## 802 architecture update is presented by Subir Das

### 802.21 WG has submitted comments to 802.1 LB with Disapprove vote.

#### Antonio has submitted several comments.

## 802.21a Security task group update (21-11-005-00) is presented by TG Chair, Yoshihiro Ohba

### Progress so far:

#### January 2009: The 1st 802.21a meeting

#### March 2009: Issued CFP

#### May – Sept 2009: Proposal Presentations (7 proposals)

#### Nov 2009 – May 2010: Harmonization discussions

#### July 2010 – Completed down-selection

#### Sep & Nov 2010 – Open issue discussion

#### Nov 23 – Dec 22: Letter Ballot (LB5)

### Letter Ballot #5 Statistics

#### Result: Not approved

#### (Approve, Disapprove, Abstain) = (12/11/3)

#### Return ratio = 81%

#### Approval ratio = 52.17%

#### Number of comments = 296 (Editorial 150, Technical 146)

### Main Objectives of this meeting:

#### Resolve outstanding issues as much as possible

#### Produce 802.21a draft specification D1.0 to be ready for WG Letter Ballot after this meeting

### Jan Agenda

### Monday, January 10th, 2011, PM2: Comment resolutions (Editorial & Technical)

### Tuesday, January 11th, 2011, AM1: Comment resolutions (Technical)

### Wednesday, January 12th, 2011, AM1 & AM2: Comment resolutions (Technical)

## 802.21b Broadcast handovers task group update is presented by Subir Das

### Hongseok has summarized the comments in an excel sheet (21-11-0001-00)

## 802.21c Single radio handover task group update (21-11-0008-00) is presented by TG Chair, Junghoon Jee

### Progress December, 2010

#### MIH Implementation and Deployment: 21-10-0224-01-srho: il-Kwon Cho (NIA)

#### Inter-RAT ND&S Standardization Status: 21-10-0221-00-srho: Junghoon Jee (ETRI):

#### Proposal Discussion

21-10-0228-01-srho: Dapeng Liu (China Mobile)

21-10-0215-00-srho: Kim Chang (Huawei)

21-10-0225-00-srho: Hongseok Jeon (ETRI)

#### Conference Calls: January 4th, 2011 8:00 ET

### Items to be covered this week:

#### Proposal Discussion: 21-10-0228-04-srho

#### Future Planning

A lot of progress has happened in WiMAX. The 3GPP profile, which was not considered before, is now in the coming version after all these 802.21 efforts. It is good that more companies have begun to support 802.21.

Some companies had their own perceptions on 802.21, but in the recent conference calls, we have the opportunities to clarify.

## Future PAR discussion.

### A new PAR P100.5 has recently been approved. It is proposing to coordinate different networks. It is noted that plenty of people have the perception that 802.21 is for handover only as opposed to the broader scope of media independent services. It is worth considering a PAR discussion on such services.

Openflow: The work originally started under GENI project in Stanford and GENI is a joint project sponsored by NSF. Several universities are involved including Princeton and Rutgers.

Openflow is basically a control plane to virtualize the resources at the access network level.

## Future meeting logistics

Task groups need to complete the work on time, and it may be the case that we cannot avoid Interim meeting. However, the Interim meetings can be co-located with either 802.16 or 802.11.

## Any other business

There is a question on registration fee, when it is charged and when the receipt will be available.

The IEEE meeting Internet access is available 24 hours in the second floor.

## Meeting recess at 3:10PM

# Fourth Day PM2 (4-6PM): V104; Thursday, January 13, 2011

## 802.21 WG Meeting called to order by Subir Das, Chair of IEEE 802.21WG at 4:25PM with agenda (21-10-0241-01)

## WiMAX Forum Update is presented by Junghoon Jee

### Currently MIH is in the WiMAX TWG profile as an optional feature, and WiMAX Forum will give separate certification if the vendor implements the profile.

### Next week, TWG will conduct third letter ballot to finalize the status. It is still possible for companies to propose to remove the profile, and it is necessary to have at least 61% vote. It is necessary to coordinate with the WiMAX Forum members.

## 3GPP Update is briefed by Junghoon Jee

### In the 3GPP WiFi offloading, it is necessary to separate the different flows.

### Motorola proposed to use different feeds (WiFi and 3GPP) for the same flow but is not approved.

### There was also discussion to generalize the ANDSF policy model.

## 802.21c report (21-11-0014-00) is presented by TG Chair, Junghoon Jee

### Proposal Discussion

21-11-0010-04

21-11-0010-05

Result: 21-11-0010-06-srho

### Conference Calls

#### January 27th, 2011 21:00 ET

#### March 1st, 2011 21:00 ET

## 802.21a report (21-11-0013-00) is presented by TG Chair, Yoshihiro Ohba

### Progress in January 2011 Meeting and Next Step

#### Resolved all LB5 comments: Latest comment file: 21-11-0003-04

#### Next step: First recirculation Letter Ballot after January meeting

### 802.21a Task Group motions

#### The Motion: ‘The 802.21a TG authorizes the TG Editor to incorporate the comment resolutions as discussed in document 21-11-0003-04, and produce IEEE P802.21a™/D02’ was moved by Lily Chen, second by Subir Das, and passes unanimously.

### 802.21a Task Group motion

#### The Motion: ‘The 802.21a TG requests the 802.21 WG to issue a recirculation LB on the question “Should IEEE P802.21a /D02 be forwarded to Sponsor Ballot?”’ was moved by Lily Chen, second by: Subir Das, and passes unanimously

### Teleconference schedule

#### Feb 14 (Mon), 2011, 10am – noon, Eastern Time

## 802.21b report is presented by Subir Das

Received draft of ballot comment resolution from editor. Some technical comments have been addressed.

## IETF liaison report (21-11-0015-00) is present by Yoshihiro Ohba

### MIPSHOP WG

#### Dynamic Host Configuration Protocol (DHCPv4 and DHCPv6) Options for Access Network Discovery and Selection Function (ANDSF) Discovery: draft-das-mipshop-andsf-dhcp-options-07 is in RFC Editor Queue

### HOKEY WG

#### Not much to report on

### MEXT WG

#### RFC 3775bis: draft-ietf-mext-rfc3775bis-10.txt ; Status: IESG Evaluation::Revised ID needed

#### Flow binding (mapping between flow and CoA): I-D.ietf-mext-flow-binding defines transport of the mapping; Status: In RFC Ed Queue (AUTH48 REF); I-D. ietf-mext-binary-ts defines Traffic Selectors: Status: In RFC Ed Queue (AUTH48 REF)

#### DHCPv6 Prefix Delegation for NEMO: I-D. draft-ietf-mext-nemo-pd, Status: Status: In RFC Ed Queue (MISSREF)

#### Home Agent reliability: I-D. ietf-mip6-hareliability, Status: I-D exists

### NETLMM WG

#### Closing

### NETEXT WG

#### Dynamic Host Configuration Protocol (DHCPv4 and DHCPv6) Options for Access Network Discovery and Selection Function (ANDSF) Discovery: draft-das-mipshop-andsf-dhcp-options-07 is in RFC Editor Queue

### EMU (EAP Methods Update) WG

#### Requirements for a Tunnel Based EAP Method: http://datatracker.ietf.org/doc/draft-ietf-emu-eaptunnel-req/ , Status: Approved by IESG . The WG issued a CFP for Tunnel Based EAP Method solutions

### Status of BoF proposals

#### DMM - Distributed Mobility Management: No BoF but discussed in MEXT WG, Discussion ongoing, possibly to be a work item of MEXT

#### LWIP - Light-Weight IP Protocol Design: Charter revised after BoF in IETF79

#### ARMD - Address Resolution for Massive amount of hosts in one broadcast Domain: Discussion ongoing after BoF in IETF79

#### NBS - Name-Based Sockets: Discussion ongoing after BoF in IETF79

## Liaison report from 802.16 is presented by Peretz Feder

### 16m and Project planning groups

The document 16m will be separate from the previous 16.

16m is in the last circulation: and has proposals to extend to interoperate.

LG is proposing to interoperate WiFi and WiMAX, but is not using MIH.

GLL proposal from Intel is no longer in this release of 16m.

Update on 802.16m Sponsor Ballot: There is a compromise to accept no proposal at this point. That means it will not accept proposal to remove MIH, and also it cannot accept proposal to complete the missing items.

## Motions

### Motions the WG to issue a recirculation LB on the question “Should IEEE P802.21a /D02 be forwarded to Sponsor Ballot?”

#### Moved by: Yoshihiro Ohba

#### Second by: Lily Chen

#### Result: passed by unanimous consent.

## Teleconference schedule

### 802.21a TG

#### Feb 14 (Mon), 2011, 10am – noon, Eastern Time

### 802.21b TG

#### Feb 17 9AM ET

#### March 1 9AM ET

### 802.21c TG

#### Thursday January 27 at 9PM Eastern Time.

#### Tuesday March 1 at 9PM Eastern Time.

## Future session information

### Plenary: 14-17 March 2011, Marina Bay Sands, Singapore

#### Co-located with all 802 groups

### Interim: 16-19 May 2011, Banff, Alberta, Canada.

#### Meeting co-located with 802.16

### Plenary: 18-21 July 2011, Hyatt Regency San Francisco,

#### Co-located with all 802 groups

### Interim: 19-22 September 2011, TBD

#### Meeting co-located with 802.16

### Plenary: 7-10 Nov 2011, Hyatt Regency Atlanta

#### Co-located with all 802 groups

### Interim: 9-12 January 2012, TBD

#### Meeting co-located with 802.16

### Plenary: 11-16 March 2012, Macao? (non North America)

#### Co-located with all 802 groups

### Interim: target 14-17 May 2012, TBD

#### Meeting co-located with 802.16

### Plenary: 15-20 July 2012, Grand Hyatt Manchester, San Diego, CA

#### Co-located with all 802 groups

### Interim: 10-13 September 2012, TBD

#### Meeting co-located with 802.16

### Plenary: 11-16 Nov 2012, Grand Hyatt, San Antonio, TX

#### Co-located with all 802 groups

## Adjourn at 5:47PM until March 2011 Plenary in Singapore

Task Group Minutes

IEEE P802.21 Media Independent Handover Services

Tentative Meeting Minutes of the IEEE P802.21b Single Radio Handover Task Group in November 2010 Plenary

Chair: Juan Carlos Zuniga

Vice Chair: Burak Simsek

Editor: Hongseok Jeon

Minutes taken by H Anthony Chan

# Fourth Day PM1 (1:30PM-3:30PM): V104; Thursday, January 13, 2011

## 802.21b TG Meeting is called to order by Subir Das at 1:45PM.

## Letter Ballot #4a resolution (21-10-0001-00)

Editor has prepared a letter ballot resolution documented in file 21-10-0001-00, and there are additional editorial resolutions in the file 21-10-0001-01. The file 21-00-0001-00 is used during the discussion.

Some of the technical comments are addressed as indicated in document 21-11-0001-02.

## Motion

Motion the 802.21b TG authorizes the TG Editor to incorporate the editorial comments that are not indicated as deferred in document 21-11-0001-00, and produce IEEE P802.21b™/D02.01.

Moved by: H Anthony Chan

Seconded: Yoshihiro Ohba

Motion is approved with unanimous consent.

## Teleconferences

Feb 17 9AM ET

March 1 9AM ET

## Meeting adjourns at 3:35PM.

IEEE P802.21 Media Independent Handover Services

Tentative Meeting Minutes of the IEEE P802.21c Single Radio Handover Task Group in November 2010 Plenary

Chair: Junghoon Jee

Vice Chair: H Anthony Chan

Editor: Dapeng Liu

Minutes taken by H Anthony Chan

# Second Day PM1 (1:30PM-3:30PM): V104; Tuesday, January 11, 2011

## 802.21c TG Meeting is called to order by Junghoon Jee, Chair of IEEE 802.21TGc at 1:45PM with agenda as stated in (21-11-0008-00).

## Proposal discussion (21-11-0010-00)

### Section 9.6 is edited as shown in 21-11-0010-01:

### Section 9.6 Phase 1:

Phase 1 is analogous to the process of using target interface to discover network in existing dual radio handover and to listen to broadcast messages in homogeneous network handover.

This phase is primarily a pull type. Is it necessary to include a push type?

Push in ANDSF is on an IP connection.

### Section 9.6 Phase 2a:

#### Edited to enable handover decision to be made by MN, network, or both.

### Section 9.6 Phase 2b:

#### It is desired to elaborate on the pre-registration procedure, but it differs among different networks. An example can be found in DCN 21-10-0068 and 21-09-0145. Edited to elaborate pre-registration using wording about context from 21-09-0145 as an example.

## Recess at 3:25PM

# Second Day PM2 (4:00PM-6:00PM): V104; Tuesday, January 11, 2011

## 802.21c TG Meeting is called to order by Junghoon Jee, Chair of IEEE 802.21TGc at 4:10PM with agenda as stated in (21-11-0008-00).

## Proposal discussion continued (21-11-0010-00)

### Section 9.6 is edited as shown in 21-11-0010-01:

### Section 9.6 Phase 3:

#### Edited as shown in 21-11-0010-01.

The editing is done to explain more it clearly about the preparation of target link establishment.

### Section 9.6 Phase 4:

#### Edited to elaborate the handover execution process.

## Recess at 5:25PM

# Third Day PM2 (4:00PM-6:00PM): V104; Wednesday, January 12, 2011

## 802.21c TG Meeting is called to order by Junghoon Jee, Chair of IEEE 802.21TGc at 4:30PM with agenda as stated in (21-11-0008-00).

## Teleconference minutes (21-11-0008-00).

### Minutes of teleconference meeting on January 3 is passed with unanimous consent.

## Proposal discussion continued (21-11-0010-01)

### Changes are proposed as shown in 21-11-0010-02 are approved.

## Proposal discussion continued (21-11-0010-02)

### Proposal to merge Sections 9.5 and 9.6 is passed with unanimous consent and is preliminarily described in 21-11-0010-03. It is noted that editing is needed on this preliminary merge.

### Changes are proposed as shown in 21-11-0010-03 are approved with unanimous consent.

## Proposal discussion continued (21-11-0010-03)

### Changed the word “Section” to “Clause” throughout the document.

### Edited the Clause on SRHO messages.

### Changes are proposed as shown in 21-11-0010-04 are approved.

## Recess at 6:25PM

# Fourth Day AM2 (10:30AM-12:30PM): V104; Thursday, January 13, 2011

## 802.21c TG Meeting is called to order by H Anthony Chan per instruction from Junghoon Jee, Chair of IEEE 802.21TGc at 10:30AM.

### A note is received from Junghoon Jee that he is caught up at a critical discussion affecting MIH at a 802.16PPC ad hoc which is scheduled at the last minute.

## Proposal discussion continued (21-11-0010-04)

### The changes shown in 21-11-0010-04 are accepted. The resulting base document becomes 21-11-0010-05.

### Edited the Clause on SRHO messages.

### Changes are proposed as shown in 21-11-0010-04 are approved.

## Proposal discussion continued (21-11-0010-05)

### Added sub-clause headings into Clause 9.8.

### Noted that the extension name of primitive cannot be called a message.

### The text in clause 9.6 on SRHO procedure is cleaned up.

### Changes are proposed as shown in 21-11-0010-06 are approved as the new base approval document.

## Junghoon Jee has returned from the 802.16PPC to resume chairing the meeting.

## Teleconference schedule

### Thursday January 27 at 9PM Eastern Time.

### Tuesday March 1 at 9PM Eastern Time.

## Recess at 12:21AM

# Attendees

|  |  |  |
| --- | --- | --- |
| Name | Affiliation | Percentage |
| Chen Lily  | NIST  | 100 |
| Feder Peretz  | ALCATEL-LUCENT | 100 |
| Jee Junghoon | Electronics and Telecommunications Research Instititute (ETRI) | 100 |
| Ohba Yoshihiro  | TOSHIBA Corporation | 100 |
| Chan Anthony | Huawei Technologies Co. Ltd. | 100 |
| Park, Hyunho | Electronics and Telecommunications Research Instititute (ETRI | 100 |
| Bernal-Hidalgo, Fernando | University of Murcia | 100 |
| Lin, Kun-Yi | National Taipei University of Technology | 100 |

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