
IEEE P802.18
Radio Regulatory - TAG
Meeting Minutes

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Abstract

Chairman Carl Stevenson called the March 2003 meeting of the RR-TAG at 2:57pm on Monday and identified a list of tasks for the group's review and potential action.

The group discusses and arrives at the following items and solutions:

- 01-185/IB-364 –NPRM for additional 2.5GHz spectrum – Need to comment
- RM-10666 – Having commented on the related NOI 02-280,we need to comment – recommend delay till after 02-280 has been resolved
- Boxer-Allen and related House bills – Chair will prepare a ‘thank you’ note and solicit further course of actions to be taken
- ARRL – Concern they are attempting to provoke a confrontation on 2.4GHz spectrum. While considered a ‘lose – lose’ situation, group feels there is no course of action beyond monitoring the plans and promulgating the data to regulatory and legislative individuals
- Canada MSS Measurements Contribution – DoD is concerned and requesting issue’s data on the proposal, we have received expert analysis data
- 5GHz Italy Regulation – Request clarification of their intent, did they mean to exclude DFS
- FCC NOI broadcast – Depends on time availability and Internet access quality

Presentations by industry and regulatory representatives:

- Andy Grove presents four presentations on the current status of License Exempt spectrum in the UK RA
- Bruce Kraemer provides update on the Korean 2.3 and 2.4GHz spectrum proposal
- Dave Hytha presents information on the BlueTooth SIG document DA 02-2152 attempting to resolve channel bandwidth issues and is requesting guidance from the RR-TAG
- Mike Lynch presents an overview of the Telecommunications Industry Association

The RR-TAG researched, developed comments, and approved the following five documents. These will be forwarded on to the wireless 802 WGs for their review and approval and then to the SEC to be released as 802 comment documents. They are available on the RR-TAG server as:

18-03-014r0_Letter_re_Unlicensed_Spectrum_Bills.doc
18-03/023d0-Italy_Clarification.doc
18-03/023d1-Italy_Clarification.doc
18-03/024d1-Cmts_IB-01-185_IB-02-364_Addtl_2.4GHz_Spectrum.doc
18-03-019d2-Canadian_Radiometer_Cmts.doc
18-03-021d1_802_Opp_Pet_RM-10666.doc

The chair identified a failing with the motions as they were presented. The motion format failed to account for the possibility that one or more WGs might not approve them blocking their release as 802 documents. He asked for a motion to release any of those that failed to be sent as RR-TAG documents. This motion was passed.

RR-TAG meeting adjourned Thursday at 4:00pm

These are the minutes from the IEEE 802.18 RR-TAG Plenary meeting, held in Dallas, TX, 10-14 March 2003. The function of the TAG is to promote communications between the standards organization and the regulatory agencies, respond to regulatory proposals that may impact wireless standards of IEEE 802, and to provide liaison between the WGs and Regulatory agencies.

Monday 13 Jan 03

The Chair, Carl Stevenson, calls the meeting to order at 2:57pm local

Chair announces that Glenn Beckett, and Erwin Nobel have volunteered to relinquish their voting rights within 802.18 in order to minimize quorum requirements at meetings, due to their inability to continue to participate actively.

Chair identifies the following topics, from those on the RR-TAG server, for group's review and potential action:

01-185/IB 02-364 -- Possibility of additional unlicensed spectrum adjacent to 2.4GHz

RM-10666 -- Petition for Rulemaking by National Translator Association

ARRL 2.4 GHz – Potential outdoor high power data communications by Amateur's in 2.4GHz

Canada_MSS_Meas_Contrib_WP4A – Canadian MSS RLAN energy measurement procedure

Scoreboard_Rep_Cmts_SPTF -- Reply comments to RR-TAG comments on SPTF report

Boxer/Allen and companion House bills letter of thanks and offers of support

ITALY, Italy_Translation -- 5GHz regulations in Italy

FCC broadcast on Thurs 13th of NOI on MMDS and ITFS asking for de-interleaving spectrum

UK comments on 5725-5875 MHz band change

The group discusses and arrives at the following items and solutions:

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RM-10666 – Having commented on the related NOI 02-280, we need to comment – recommend delay till after 02-280 has been resolved

Boxer-Allen and related House bills – Chair will prepare a 'thank you' note and solicit further course of actions to be taken

ARRL – Concern they are attempting to provoke a confrontation on 2.4GHz spectrum

While considered a 'lose – lose' situation, group feels there is no course of action beyond monitoring the plans and promulgating the data to regulatory and legislative individuals

Canada MSS Measurement Contribution – DoD is concerned and requesting issue's data on the proposal, we have received expert analysis data

5GHz Italy Regulation – Request clarification of their intent, did they mean to exclude DFS

FCC NOI broadcast – Depends on time availability and Internet access quality

Chair assigns homework to group to review data on:

01-185/IB-364 – Adjacent Spectrum

RM-10666 – NTA

ARRL

Chair will draft BA, Italy, and RM-10666 letters

Chair announces that the RR-TAG closing plenary has been moved to 3:30pm on Thursday, to accommodate the Thursday evening 802.16 plenary session.

Chair declares the group in recess at 5:06pm until 8:00am Tuesday

Tuesday 11 Mar 03

Chair re-convenes TAG at 8:00am

Chair presents 802.18-03-014d0 for the group's review, discussion and approval.

Motion:

To approve document 18-03-014r0_Letter_re_Unlicensed_Spectrum_Bills.doc and to authorize the chair make necessary editorial and format changes, to make appropriate WG motions for approval and to Submit to SEC at their closing plenary for approval to insert appropriate individualized heading.

Motion: Peter Murray

Second John Ley

Any discussion – none

Any objections – motion passes by unanimous consent 0830

Chair puts the document on appropriate WG servers and e-mails the reflectors of 802.11, 15, 16, and 20 asking for their review and motion approval at their plenary sessions.

John Notor presents data he has gathered overnight on impact of additional 2.4GHz allocation, it is “2.4GHz unlicensed extension analysis – jn031003.doc”

He identified the spectrum as allocated to MOBILE SATELLITE, and RADIODETERMINATION SATELLITE space to earth links.

The potential spectrum occurs in two blocks, 2483.5 – 2492.5 and 2498 – 2500 MHz, the skipped 5.5MHz block is currently allocated to MSS Ancillary Terrestrial Components (ATC). The R&O states that ATC systems shall be capable of operating over the entire 2483.5 – 2500MHz band. Currently 2483.5 – 2500MHz is listed as a protected band in 15.205.

Considering the nine MHz block, John voiced the opinion that this would afford a fourth non-overlapping channel for 802.11b systems but has concerns with band edge spurious emission levels for 802.11g systems. He comments that 802.15 systems would be able to use the spectrum for interference mitigation.

John will prepare a bullet list of how wireless 802 systems could benefit and will draft letter based on the data we discussed.

Chair asks for a discussion on RM-10666 (Petition by National Translator Association) based on the homework assignment. Peter Murray questions the need for commenting at this time and recommends waiting to see the Commissions actions and then respond to comments that result of any Notice. Discussion feels that consideration on this petition should be delayed until after determination of the NoI ET Docket 02-380 (Spectrum sharing TV channels with license-exempt devices). Chair will prepare a document for further discussion.

Andy Gowans presents four presentations on the current status of the UK RA:

- (03-015r0)802.18UK update on 5GHz Bands A&B
- (03-016r0)802.18UK update on 5GHz Band C
- (03-017r0)802.18UK update on OFDM in 2,4GHz
- (03-018r0)802.18UK update on BFWA above 11GHz

Currently the documents are in “Informal Input Documents” and will be put onto the server with the document numbers shown within the parenthesis.

In the process of changing EN300-328v1.4.1 from references to OFDM to Wide Band Modulation, expect final approval by the end of April 03

BFWA -Broadband Fixed Wireless Access

Band A = 5150-5350

Band B = 5470-5725

Band C = 5725-5875

RTTT = Road Transport and Traffic Telematics

ENG = Outside impromptu broadcast link

MoD = Ministry of Defense

SRD = Short Range Devices

VNS = Voluntary National Specification

Approval of Band C for FWA is working toward approval by end of summer 03

They are considering 'Light Licensing' which will be more for tracking the number and location of installed sites as opposed to technical licensing. And, they currently have Electronic Licensing for some services.

The chair call for lunch recess at 12:25pm, RR-TAG will resume at 1:30pm

Chair calls the meeting back in session at 1:33pm.

Chair recommends review of Italy_Translation and Canada_MSS_Meas_Contrib_WP4A while he attends CAC meeting schedule for 2:00-3:00pm

Reading of Italy paper appears to indicate general conformance with ERC DEC (99)23 with an exception of 5150-5250MHz band where TPC provision is not mentioned. Jim Raab and Andy Gowens volunteer to draft a letter of clarification.

The Canadian paper proposes a method on signal analysis to identify aggregate RLAN energy. Two accompanying documents are from the European Space Agency with their analysis of the proposed method. The US radar community is concerned with the viability of the proposal and is requesting comments on elements of the method. The group discussed which elements to prioritise and the data to be supplied.

Bruce Kraemer arrives with his update on the Korean spectrum proposal 802.11-03/186r0

Bruce comments that Korea is supportive of the WRC-03 AI 1.5 for RLAN allocation.

ETRI = Electronics and Telecommunications Research Institute

MIC = Ministry of Information and Communication

RR-TAG discusses the possibility of inviting them to come to Singapore and present their spectrum plans. Bruce will continue working with the Koreans and improve the communications with the RR-TAG and will report back on Thursday

Jim and Andy has a draft comment letter "Italy Clarification" and has e-mailed it to the Chair, whom will put it on the server for the group to review overnight.

The Chair also suggests continued thinking of inclusions into the Canadian comment letter.

Chair calls the meeting into recess at 5:11pm until 8:00am Wednesday

Wednesday 12 March 03

Chair calls meeting back into session at 8:15am, and comments that the session will be breaking at 10:00am for the 802.11, .15 mid week plenary sessions.

Denis presents first cut draft of 18-03-020r0 and the group does review and cleanup editing of the document.

Group discusses the talking points of RM-10666 comments document

Chair calls the meeting into recess at 10:07am to resume at 1:00pm

Chair calls meeting to order at 1:05pm

John Notor his recalculation of the extension details and plans to write the paper overnight and have it for review on Thursday morning

Jim Raab presents the Italy clarification letter, and the group reviews and suggests minor changes.

Motion:

To approve document 18-03/023d0-Italy_Clarification.doc and to authorize the chair make necessary editorial and format changes, to make appropriate WG motions for approval and to Submit to SEC at their closing plenary for approval for filing with Italian Regulatory Agency.

Motion: Peter Murray

Second: John Notor

Any discussion: - none

Any objections – motion passes by unanimous consent 2:05pm

Dave Hytha presents information on the BlueTooth SIG information DA 02-2152. He request RR-TAG support on 15.3 current channel hopping rules prevents hopping to overlapping channels. The HomeRF exception allows bandwidths up to 5 MHz wide signals. Currently plans are for bandwidths on the order of 1.4MHz at the 20dB points. This results in spectrum overlap, and would require either redefinition of the bandwidth specification to 14dB down or to permit the overlap. Dave will be providing a liaison letter requesting RR-TAG review and comment of the best approach to resolve the channelling issue. He indicates that a response is required in four weeks.

Denis reports that modification to the Canadian file has been lost and attempts to locate it on the machine have not been successful. He plans on re-constructing it overnight.

Chair discusses the ARRL plan for high power RLAN usage. He plans on doing simulation studies with several 100 Watt repeaters. His base plan is promulgate their plans and the results from his simulations. At this time it is premature to publish anything against their plan, better to wait and see what ARRL does.

Meeting is in recessed at 5:00pm until Thursday 0800

Thursday 13 Mar 03

Chair calls meeting to order at 8:10pm
Review of the Italian letter
Review of the 2.4GHz band extension comment
Review of the National Translator Association comment
Review of the Canadian measurement proposal comment

Motion:

To approve document 18-03/023d1-Italy_Clarification.doc and to authorize the chair make necessary editorial and format changes, to make appropriate WG motions for approval and to Submit to SEC at their closing plenary for approval and transmission to the Italian Regulatory Agency.

Motion: Peter Murray

Second: John Notor

Any discussion: - none

Any objections – motion passes by unanimous consent, noon local

Recess for lunch 12:07pm with plan to meet at 1:00pm

Group gets sandwiches and returns to the meeting room where the discussion continues.

Chair reconvenes meeting during the working lunch at 12:28pm

Motion:

To approve document 18-03/024d1-Cmts_IB-01-185_IB-02-364_Addtl_2.4GHz_Spectrum.doc and to authorize the chair make necessary editorial and format changes, to make appropriate WG motions for approval and to Submit to SEC at their closing meeting for approval and transmission to the Commission.

Motion: Peter Murray

Second: John Notor

Any discussion: - none

Any objections – motion passes by unanimous consent, 12:38pm

Group reviews, edits, and comments on the Canadian comments.

Motion:

To approve document 18-03-019d2-Canadian_Radiometer_Cmts.doc and to authorize the chair make necessary editorial and format changes, to submit to SEC for approval and transmission to US/WRC preparatory process.

Motion: Denis Kuwahara

Second: John Ley

Any discussion: - none

Any objections – motion passes by unanimous consent, 1:08pm

Chair requires time to finalize the comments on RM-10666.

Chair calls a recess at 1:15pm until 3:00 for the RR-TAG closing Plenary

Re-convene the meeting at 3:05pm

Carl presents 18-03-021d1-802_Opp_Pet_RM-10666 for review

Motion:

To approve document 18-03-021d1_802_Opp_Pet_RM-10666.doc for review and to authorize the chair make necessary editorial and format changes, to submit the WGs for motion and approval, and to SEC for approval and transmission to the Commission.

Motion: Yoram Solomon

Second: Denis Kuwahara

Any discussion: - none

Any objections – motion passes by unanimous consent, 3:33pm

Other business:

Motion:

To provide the Chair authority to edit documents that have been approved at this session in the RR-TAG, that do not gain SEC approval as a 802 document, to make them 802.18 filing in accordance with LMSC rules.

Motion: Denis Kuwahara

Second: Peter Murray

Any discussion: -- none

Any objections – motion passes by unanimous consent, 3:44pm

Mike Lynch presents TIA public policy -- they meet via face to face and telecon meeting approximately eight times a year.

TIA Policy Statement on Unlicensed Use of Spectrum

TIA Agenda Spectrum Policy WG

ET Docket 00-258 & NPRM may be the first attempt at putting communications below licensed services.

TIA is located at 13th and Pennsylvania Ave

Mike will e-mail the Chair details on TIA and ask him to put it on the RR-TAG reflector.

Chair asks For Any Other Business – none heard

Motion to adjourn

Motion: Peter Murray

Second: Yoram

Discussion none

Any Objection: none -- RR-TAG meeting adjourned at 4:00pm

These notes are respectfully submitted by,

Denis Kuwahara