



**Fixed Wireless Communications Committee
Adopted Meeting Notes
February 21, 2020
13:00 to 14:30**

To discuss priorities for backhaul related activities

Participants

Jean-Yves Bernard (Chair)	Rogers	Paul Goodrick	Rogers
Michael Christensen	ISED	Richard Leung	Rogers
Lisa Amirault	ISED	Mario Antczak	Bell
Magdoly Rondón	ISED	Rob Berezowski	Sasktel/CWTA
Fu Keong Chan	ISED	Esam Ghanem	Xplornet/CWTA
Doug Davies	Nokia/CECA	Daniel Verrault	Videotron/CWTA
Frank Korinek	Motorola/CECA	Cam Wyatt	Shaw/CWTA
Viet Nguyen	Ericsson/CECA	Francois Guathier	Octave/CABC
Jody Mitiche	Ericsson/CECA	Etienne Leroux	YRH/CABC
Tim Gordon	TELUS	Martin Levert	Hydro Quebec/CEA
Sam Luu	TELUS		
Dave Hughes	TELUS	David Farnes (Secretary)	RABC
Adam Tenenbaum	TELUS		

Opening Discussion

- Dave Farnes provided rollcall. He referenced an email note/agenda and supporting document that was provided.
- Jean-Yves welcomed everyone.
- Jean-Yves explained that his email note provided suggestions for potential work items. These suggestions were primarily pulled from a contribution made by RABC in 2013 related to the backhaul consultation. The objective today is to identify priority work items using the list Jean-Yves provided, plus any new items members or the Department wish to raise.

SRSP-306.4/306.5

- Jean-Yves, consideration to combine these as the frequency spacing is not consistent between the two, nor are they aligned with the FCC. Adam yes interested in modernizing the band. Rob yes, we should look at 6 GHz. Cam agrees, should combine the SRSPs. US is looking at this band for 5G and wi-fi. Lisa, FCC consultation for licence exempt use; International review for consideration as IMT. Magdoly, ISED following FCC closely; trying to understand potential impacts of FCC ruling before working on SRSPs.
- Jean-Yves, 6 GHz is still important for backhaul systems, especially for long inter-city links.
- Viet believes 6 GHz is important for utilities. Our review should potentially avoid frequencies that are under review by the FCC. Martin concerned about losing 6 GHz and the possible domino effect through 7 GHz. Utilities need wider bandwidth at 6 GHz.
- Sam, can we gather information about usage in this band? Jean-Yves, not now but perhaps as part of our work if we establish 6 GHz as a priority work item.
- Richard, it would be good to combine the two bands. Rob, FCC action will require policy decisions in Canada – may need the policy consultation in advance of a technical review of the SRSPs.

Use of Smaller Antennas (18 and 23 GHz)

- Doug, yes, we spent a lot of time looking at the use of smaller antennas in other bands. Richard yes, should revisit as we will be seeing more street level installations. Magdoly, ISED mentioned that, as pointed out in the spectrum outlook, many Canadian companies have requested revision of the 23 GHz band for increase of spectrum; may need policy change as some portions of this band are designated for multipoint communications system or for future designation.
- Jean-Yves, better to review SRSPs once, rather than twice as the reviews are very time intensive. Cam agrees.
- Lisa, should we look at 23 before 18 because of congestion? Doug has heard that there is interest in 32 GHz over 38 GHz. Cam, we should look at 23 GHz because spectrum may be increased. Richard, look at 23 GHz because existing SRSP is from 1997.

New RF Channel Bandwidth

- Sam, we should look at 8 GHz. Martin, we should look at 7&8 GHz.
- Magdoly, what about the previous request from RABC to look at smaller bandwidth for 70 and 80 GHz? Is this still a request and at what priority? Cam, this was a request based on reasoning related to the old fee structure. It may not be an issue/request in light of the new fee structure being implemented. Viet agrees, not an issue. Tim agrees, request no longer needed.

Microwave Licence Application Evaluation Criteria (internal ISED guideline document)

- Jean-Yves, the Department has indicated it would accept feedback on this document. Do we want to provide feedback/update the guideline? Richard, yes the operators should look at this – look at the minimum hop length requirements (these may not apply with new technology). Cam agrees. Sam agrees. Etienne we should also look at five 9s, difficult for some operators. Rob agrees with a review.
- Magdoly, is this a priority over the SRSPs? Suggest holding a meeting to discuss the guidance document and to invite the ISED regional offices to participate in the meeting. Members agree this is a good suggestion.

138 GHz and 174 GHz (D Band)

- Richard asked whether there is any international activity related to this band? Jean-Yves replied yes, ISG group in ETSI. Viet, Ericsson has a statement on D-band. **Action for Viet to share Ericsson statement.**
- Jean-Yves asked about the need to have backhaul links supporting larger than 10 gigabit range. Doug, Cam and Etienne agreed on more.
- Lisa noted that above 90 GHz, there are no ITU recommendations yet.

26.5 to 28 GHz (raised as “other” topics) (SRSP 325.25)

Magdoly noted that the spectrum outlook contemplated a new channel plan. Lisa asked, is this a priority? Jean-Yves asked whether ISED would be adding flexible use and maybe rescinding SRSP-325.25? Lisa responded yes to flexible use with a new SRSP (above 26.5 GHz) together with an update to SRSP-325.25 (for below 26.5 GHz). Viet asked whether they would be worked in parallel? Michael indicated that a new 500 series SRSP is required for the auction (above 26.5 GHz). The auctioned bands would be removed from the SRSP-325.25, however this SRSP is still required and must be updated. There are policy considerations too

Setting of Priorities

Lisa noted the review of 32 GHz (just underway) and 1.7 GHz (coming soon). The RABC list should establish priority work to follow these two SRSPs.

New RABC proposed Priorities:

1. 23 GHz (additional spectrum and possible support of smaller antenna)
2. Improvement of fixed service use in the 6 GHz band
3. Possible support of smaller antenna in 18 GHz band
4. Support of wider RF channel bandwidth in 7 and 8 GHz bands

Additional work discussed without any priority assignment:

1. Industry/ISED (including regional offices) discussion on possible improvement of "Microwave Licence Application Evaluation Criteria" guidelines' document. This would

be a separate activity/meeting independent of the review of fixed services SRSPs.
Meeting to be that called at a mutually agreed date

2. There is agreement that SRSP-325.25 for fixed service between 25.25 to 26.5 GHz would be reviewed at appropriate time when the Department would be looking at spectrum use below 26.5 GHz following WRC-19 outcome. ISED confirmed that SRSP-325.25 for fixed service from 27.5 to 28.35 GHz has already a moratorium
3. It has been agreed that a SRSP for fixed service around 138-174 GHz is of interest, however since there is still no ITU-R recommendation for fixed service in the frequency range, it is premature to prioritize such work at this time. RABC will continue monitoring and will discuss further with the department as technology evolves.

The meeting adjourned at 15:30.

J. David Farnes
General Manager