

Effective Spectrum Usage Policy Committee  
Telecommunications Technology Subcommittee, Telecommunications Council  
Provisional Summary of Minutes (3rd Meeting)

1. Date

Thursday, October 12, 2006, 10:30 to 11:40 a.m.

2. Location

B2 Auditorium, Ministry of Internal Affairs and Communications

3. Attendees (honorifics omitted)

Chair: Norihisa Doi (Chuo University)

Vice-Chair: Kazuyoshi Kurokawa (Hosei University)

Members: Susumu Itoh (Tokyo University of Science), Shingo Omori (National Institute of Information and Communications Technology), Michiko Kuroda (Tokyo University of Technology), Naohisa Komatsu (Waseda University), Takeshi Hattori (Sophia University), Masaaki Mitani (Tokyo Denki University), Masayoshi Wakao (Association of Radio Industries and Businesses)

Secretariat: MIC representatives (Tominaga (Director, Radio Policy Division), Koizumi (Senior Frequency Coordination Officer, Radio Policy Division), Ohno (Senior Frequency Coordination Officer, Radio Policy Division))

4. Agenda

- (1) Interim report from the Working Group on Effective VHF/UHF Spectrum Usage
- (2) Method of proceeding with examinations at the Effective Spectrum Usage Policy Committee
- (3) Upcoming examination schedule

5. Outline of proceedings

- Mr. Wakao, quoting from Reference 2022-3-1, gave an explanation of the interim report from the Working Group on Effective VHF/UHF Spectrum Usage. Mr. Wakao is the Chair of the Working Group.
- Discussions were held on how to proceed with examinations at the Effective Spectrum Usage Policy Committee with regard to Reference 2022-3-2 and the previous explanation of Reference 2022-3-1.
- The Secretariat explained the tentative upcoming examination schedule, referring to Reference 2022-3-3.

## 6. Particulars of the proceedings

The following comments and exchanges occurred during the discussions.

### (1) Interim report from the Working Group on Effective VHF/UHF Spectrum Usage

The Working Group Chair, Mr. Wakao, gave an explanation of the interim report, emphasizing the following points:

- The work leading up to the interim report included classifying the 149 proposed systems.
- At the present time, there are 33 types of systems remaining, as maximum respect was given to the intents of the proposals. Closer screening of the types of systems is necessary.
- The Working Group requests that this Committee discuss how future examinations at the Working Group should be continued.

### (2) Method of proceeding with examinations at the Effective Spectrum Usage Policy Committee

#### a. The following questions and answers transpired.

#### (1) State of examinations on the necessary frequency bandwidths and frequencies subject to reorganization

Mitani: To what degree does the total of the necessary frequency bandwidths for the classified systems exceed the frequencies subject to reorganization?

Wakao: On page 72 of the interim report, it shows that there is space, although the figures are compiled separately by band for VHF<sub>L</sub>, VHF<sub>H</sub>, and UHF. Note that these figures are simply tallied for each classified system, and it does not

mean that all bands are necessary. We will continue to look at this in the next step of our examinations.

(2) International frequency allocation developments

Omori: While we need to consider international trends with respect to frequency allocations, have your Working Group examinations to this point been conducted from both a frequency and application standpoint?

Wakao: The Working Group kept its examinations to only those applications that conform to international frequency allocations. In our upcoming examinations, it will be necessary to discuss trends in international standardization.

(3) Examination scope of common conditions

Hattori: Are the examinations at this Committee to include detailed technical conditions for each system?

Secretariat: The mandate of this Committee is to examine effective usage policies, such as usage configurations and how many applications can be fit in the spectrum. Detailed examinations between systems will be held at a different venue once systems are about to be actually adopted.

b. The following comments were made.

(1) Comments on the classification of system types

Hattori: The usage principles for each frequency band should be set. For example, the UHF (700 MHz) band is used for mobile phones along with the 900 MHz band, and the VHF<sub>L</sub> band is used for broadcasting, including multimedia broadcasting. Also, these should be arranged by broader spectrum usage concepts, such as “shared-used systems” instead of by individual systems.

Mitani: We need to examine mechanisms allowing the use of shared networks because sharing of wireless resources is likely to develop as it has in the wired world. Also, we need to discuss the classification of systems from the points of safety and security, business feasibility, degree of frequency congestion, and required costs as well.

Kuroda: We should incorporate such ideas as the rise of private-communication platforms and time-division use of frequencies.

Komatsu: We have to be careful with shared platforms, since the required service quality is not uniform and varies by user and provider. Furthermore, we should consider liberalizing research and development to stimulate academic research.

(2) Comments on frequency assignments

Kuroda: Frequencies should be assigned with priority on public applications, particularly those for safety and security.

Mitani: We need to check each system proposal to see how serious these proposals are from a business standpoint.

Hattori: We should clarify the foundation of the required frequencies when the systems are first introduced and of the required frequencies after the market expands. Furthermore, in any new frequency assignment, examinations must balance demands from the perspective of the community with the importance from the market perspective of “building industries.”

Itoh: There was a comment that the frequencies assigned to digital radio and other broadcasts should be limited to 18 MHz of the VHF<sub>L</sub> band. But I’m afraid this won’t be enough bandwidth in the future, after the growth of broadcasts to mobile terminals. This requires cautious examination. Also, regarding the idea of assigning an entire 52 MHz band in the VHF<sub>H</sub> band to private communications, I realize safety and security are important aspects, but I think this needs to be examined comprehensively, including also the perspective of economic ripple effects and other benefits.

(3) Other comments

Wakao: Regarding the way to proceed in our upcoming examinations, I think the pros and cons of the proposed systems should be probed exhaustively with the main focus being on how effectively the VHF and UHF bands will be used.

c. Items to be examined before the next Committee meeting

The Chair, Mr. Doi, requested that the Secretariat investigate and report on the following matters for the next Committee meeting.

- (1) The possibility of implementing shared-usage systems and platforms in private systems
- (2) The technical foundations requiring UHF band frequencies to be assigned to ITS [intelligent transportation systems]
- (3) Further integration in the digital broadcasting category
- (4) The technical foundations related to the difficulty in using the VHF<sub>L</sub> band for digital radio

(3) Upcoming examination schedule

(1) Upcoming proceedings

- At the next Committee meeting, the Committee will examine details of the Working Group report and discuss how to organize the classifications and policies on what matters to have the Working Group study. After this, the Committee will make a work request to the Working Group.
- Following this, the Working Group will study spectrum usage policies including appropriate frequency assignments corresponding to (2) to (5) (pages 1 and 2, Reference 2022-3-1) and will report to a suitable Committee meeting in time for the VHF/UHF partial report in June next year.

(2) Next Committee meeting

- The Committee wishes to hold the 4<sup>th</sup> Committee meeting in November. The Secretariat will contact the members separately about the date and location.
- At the 4<sup>th</sup> Committee meeting, the Committee plans to determine specific matters to request to the Working Party including the future schedule of the Working Party.

Distributed Materials

Submitted by

Reference 2022-3-1: Interim report from the Working Group on Effective VHF/UHF Spectrum Usage *Secretariat*

Reference 2022-3-2: Opinions and comments on the interim report *Members*

Reference 2022-3-3: Upcoming examination schedule (tentative) *Secretariat*

Supplement 1: Effective Spectrum Usage Policy Committee, Summary of Minutes (2nd Meeting) *Secretariat*