

Radiocommunication Study Groups



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TECHNOLOGY ASPECTS

IEEE

PROPOSED STRUCTURE AND TIMELINE OF RECOMMENDATION ITU-R M.[IMT.RSPEC]

1 Background

The Report of the Seventh Meeting of Working Party 5D (5D/679) includes the following notes regarding the development of Recommendation ITU-R M.[IMT.RSPEC]:

“The overall schedule for M.[IMT.RSPEC] was raised as a point to be considered by WP 5D and discussed in some detail in Ad Hoc Workplan. A discussion was held on clarifying the meaning of “finalization” and “completion” of M.[IMT.RSPEC] considering the experience from the historical work and process on IMT-2000 and Recommendation ITU-R M.1457. Views were expressed that some flexibility could be introduced into the approval process due to time and meetings available in 2011 particularly since the RA and WRC had moved into 2012. The assumption is that IMT.RSPEC based on the global core specifications should be completed in WP 5D Meeting # 10 (March 2011) according to high level schedule previously announced by WP 5D and that there should be time allowed for transposition of the references material to take place during the course of 2011...”

The final overall schedule and the detailed schedule of the Recommendation ITU-R M.[IMT.RSPEC] development and the specific materials required was deferred to a future meeting of WP 5D where additional factors such as the Study Group 5 schedule for 2011 and development schedules of the proponents be taken into account.”

In order for the IMT-Advanced technology proponents to develop the necessary contributions in a timely fashion, the schedule for the development and finalization of Recommendation ITU-R M.[IMT.RSPEC] should be agreed at WP 5D Meeting #8 in June 2010. This schedule should include detailed procedures for Recommendation ITU-R M.[IMT.RSPEC] and its use of externally-developed specifications.

This contribution does not address procedures for future updates of Recommendation ITU-R M.[IMT.RSPEC].

2 Proposal for Global Core Specifications (GCS) and Transpositions

This contribution is developed from the perspective of IMT-ADV/4, which, per 5D/681, we refer to as “*IEEE WirelessMAN-Advanced*”. However, the proposal is intended to apply in principle to all candidate technologies.

Our view is that the core specifications of the technology will be developed within IEEE and documented in IEEE standards. Individual standards-developing organizations are expected to adopt relevant IEEE standards as national, regional, or global standards. We believe that Recommendation ITU-R M.[IMT.RSPEC] should reflect these developments and could do so by implementing a structure similar to that used in Recommendation ITU-R M.1457. Namely, we suggest that Recommendation ITU-R M.[IMT.RSPEC] be developed around technologies supported by a “Global Core Specification” (GCS) supplied by an organization specializing in technology specifications developed with a global perspective. Then, in order to reflect broader international harmonization, Recommendation ITU-R M.[IMT.RSPEC] should also incorporate, by reference, “transposed” specifications developed by organizations that represent the breadth of national, regional, or global adoption of the GCS. The GCS/transposition approach need not be mandatory for all technologies, but it should be available for use when suitable. The transposing organizations could include formal standards developing organizations, but other organizations may also be suitable to develop transpositions. Any organization should be welcome to participate in transposition, with the agreement of the GCS developer.

If ITU-R follows this general approach:

- (1) IEEE will serve as the developer and source of the *IEEE WirelessMAN-Advanced* GCS that would be incorporated into Recommendation ITU-R M.[IMT.RSPEC].
- (2) IEEE intends to transpose the *IEEE WirelessMAN-Advanced* GCS into standards and supply ITU-R with references for inclusion in Recommendation ITU-R M.[IMT.RSPEC]. ARIB and TTA would also be welcome to participate in transposition. It is our understanding that TTA intends to do so. Transposition by other organizations, including the WiMAX Forum, could also be arranged.

3 Proposed Timeline

Given the current workplan and expectations, we propose the following timeline:

- **WP 5D Meeting #8 (2010-06)** – WP 5D issues plans for development of Recommendation ITU-R M.[IMT.RSPEC], including detailed timeline and structural expectations, including opportunity to develop GCS and transpositions.
- **WP 5D Meeting #9 (2010-10)** – WP 5D completes development of draft new Report ITU-R M.[IMT.RADIO], including (provided that requirements are met) two IMT-Advanced technologies.
- **WP 5D Meeting #10 (2011-03)** – WP 5D finalizes and preliminarily agrees Draft New Recommendation ITU-R M.[IMT.RSPEC] based on GCS received prior to the meeting. In particular, IEEE would submit the *IEEE WirelessMAN-Advanced* GCS to the meeting.
 - Note: We express concern with the dates recently proposed (during Meeting #7) for Meeting #10, because those proposed dates (9-16 March 2011) conflict with the previously scheduled session of the IEEE 802 LAN/MAN Standards Committee on 14-18 March 2011 in Singapore. We propose that Meeting #10 be deferred by two or three weeks with respect to the currently posted dates.
- **September 2011** – Deadline for list of references pointing to transpositions of GCS. These references would be incorporated into an updated draft of Recommendation ITU-R M.[IMT.RSPEC] for review at WP 5D Meeting #11.
- **WP 5D Meeting #12 (2011-10)** – WP 5D reviews and agrees the completed Draft New Recommendation ITU-R M.[IMT.RSPEC], including transposition references, for submission to the November 2011 meeting of Study Group 5.

Contact: (tbd)
