Radiocommunication Study Groups

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English only

WORKING DOCUMENT TOWARDS THE REVISION OF
RESOLUTION ITU-R 65

Principles for the process of future development of IMT-2020 and IMT-2030

1. Introduction:

Resolution ITU-R 65 deals with the development of Recommendations and Reports for the future development of IMT, including Recommendation(s) for radio interface specifications which is an ongoing and timely process with defined outputs that consider developments external to ITU-R;

2. Discussion:

WP5D is currently working on Radio interface technologies towards the future development of IMT, based on input contributions from ITU-R and external organizations, in accordance with the principles set out in Resolution ITU-R 9. It is therefore important to keep this resolution updated

3. Proposal:

Further minor changes are proposed to the draft of the Resolution in the attachment.

Annex 3.10 to Working Party 5D Chairman's Report

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Principles for the process of future development of IMT-2020 and IMT-2030

(2015-2023)

The ITU Radiocommunication Assembly,

considering

a) that Question ITU-R 229/5 addresses "Further development of the terrestrial component of IMT";

b) that the future development of IMT will continue in order to address more needs than those currently addressed by existing IMT;

c) that Recommendation ITU-R M.1645 defined the framework and overall objectives of the future development of IMT-2000 and systems beyond IMT-2000;

d) that Recommendation ITU-R M.2083 defined the framework and overall objectives of the future development of IMT for 2020 and beyond;

e) that Recommendation ITU-R M.[IMT.VISION 2030 AND BEYOND] defines the framework and overall objectives of the future development of IMT for 2030 and beyond;

f) that this Resolution has been successfully applied in the development of IMT-2020, and the procedures and processes developed for IMT-2020 based on this Resolution are in place and continue to be utilized for the future development of IMT-2020 when revising Recommendation ITU R M.2150;

g) that Resolution ITU-R 57 has been successfully applied to the ongoing developments of IMT-Advanced and IMT-2000 and continues to be utilized for the future developments of IMT-Advanced when revising Recommendation ITU-R M.2012 and IMT-2000 when revising Recommendation ITU-R M.1457;

h) that Resolution ITU-R 56 addresses naming for IMT;

i) that it is desirable to have consistent principles for the future development of IMT, which are not addressed in *considering g)* above, regardless of the specific naming that may be further determined,

resolves

in the future development of IMT which is addressed in *considering i)* above:

1 to develop the ITU-R Recommendations and Reports for the future development of IMT, including Recommendation(s) for radio interface specifications;

2 that the development of ITU-R Recommendations and Reports, as per Resolution ITU-R 1, shall be an ongoing and timely process with defined ITU-R outputs, taking into account developments external to ITU-R;

[Chairman's note: SWG RA-23 agreed text up to this point. Resolves *3 was discussed, but the SWG did not have time to reach any conclusions.]*

3 that radio interface technologies that are proposed to be considered for the future development of IMT shall be developed based on submissions from Member States, Sector Members and Associates of relevant ITU-R study groups, and may additionally be based on submissions invited from external organizations, in accordance with the principles set out in Resolution ITU-R 9;

4 that the process for developing Recommendations and Reports for the future development of IMT shall give equal opportunity to all proposed technologies to be evaluated against the requirements for the future development of IMT;

5 that new radio interfaces that are developed over time should be considered for inclusion in the future development of IMT in a timely fashion, and, if appropriate, that the relevant Recommendations be revised;

6 that, in light of the above *resolves*, this process shall include:

a) the definition of minimum technical requirements and evaluation criteria, based on the framework and overall objectives of the future development of IMT, that support the new capabilities expressed in relevant Recommendation(s), taking into account end-user requirements and without unnecessary legacy requirements;

b) an invitation for Members of ITU-R, through a circular letter, to propose candidate radio interface technologies for the future development of IMT;

c) additionally, an invitation to other organizations to propose candidate radio interface technologies for the future development of IMT, under the scope of liaison and collaboration with such other organizations through Resolution ITU-R 9; in such invitations, the attention of these organizations shall be drawn to the current ITU-R Intellectual Property Rights (IPR) policies;

d) an evaluation by ITU-R of the radio interface technologies proposed for the future development of IMT to ensure that they meet the requirements and criteria defined in 6 *a)* above; such an evaluation may utilize the principles for interaction of ITU-R with other organizations as detailed in Resolution ITU-R 9;

e) consensus-building with the objective of achieving harmonization in response to the *considering* paragraphs of this Resolution and which would have the potential for wide industry support of the radio interfaces that are developed for the future development of IMT;

f) a standardization phase in the future development of IMT, where ITU-R develops the IMT radio interface specification Recommendation(s) based on the results of an evaluation report (defined in *resolves* 6 *d)*) and of consensus-building (defined in *resolves* 6 *e)*) ensuring that the specifications meet the technical requirements and evaluation criteria as defined in 6 *a)* or 6 *g)*; in such a standardization phase, work may proceed in cooperation with relevant organizations external to ITU in order to complement the work within ITU-R, using the principles set out in Resolution ITU-R 9;

g) reviews of the minimum technical requirements and evaluation criteria defined in 6 *a)*, taking into account technology advances and end-user requirements changing with time; as the minimum technical requirements and evaluation criteria are changed, these will be

designated as separately identifiable versions for the corresponding names, as defined in Resolution ITU-R 56, for the further development of IMT; the process will include review of existing versions to determine whether they should remain in force;

h) an ongoing and timely process where new radio interface technology proposals may be submitted and existing radio interface specifications can be updated; the process should have flexibility to allow proponents to seek evaluation against any version of the approved criteria currently in force,

instructs the Director of the Radiocommunication Bureau

1 to ensure that proponents of radio interface technologies and standards for the future development of IMT are aware of ITU-R IPR policy pursuant to Resolution ITU-R 1;

2 to provide the necessary support and to implement suitable procedures to meet the requirements of the *resolves* above, including the sending of a circular letter calling for radio interface technology proposals.