**Summary of the progress of the studies requested in the ITU-R Resolutions relevant to Study Group 5**

| **Resolution** | **Title** | **WP** | **Status of Studies** | **Deliverables & Approved or Foreseen dates** |
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| Resolution 12-1 | Handbooks and special publications for development of radiocommunication services | WP 5A | The development of future volumes or revision of Handbooks will be contribution driven. | Completed. |
|  |  | WP 5D | The work to develop the Handbook on “Global trends in IMT” has been completed. | Completed. |
| Resolution 34-4  Resolution 35-4  Resolution 36-4 | Guidelines for the preparation of terms and definitions  The organization of vocabulary work covering terms and definitions  Coordination of vocabulary | WP 5A | Taking into account the scopes of these vocabulary-related Resolutions, Working Party 5A is developing a working document on land mobile vocabulary with a view to develop either a new Recommendation or a future revision of the existing [Recommendation ITU-R [M.1797](http://www.itu.int/rec/R-REC-M.1797)](http://www.itu.int/rec/R-REC-M.1797/en) “Vocabulary of terms for the land mobile service”. | * Draft revision of Rec. M.1797 |
| Resolution 50-3 | Role of the Radiocommunication Sector in the ongoing development of IMT | WP 5D | Working Party 5D is conducting the study on IMT taking into account the scope of this Resolution. | - Proposed revision of this Resolution (submitted for adoption to SG 5 meeting in Sept. 2019) |
| Resolution 55-2 | ITU-R studies of disaster prediction, detection, mitigation and relief | WP 5A | Working Party 5A has completed the work on the update of the following Report:   * digital land mobile systems for dispatch traffic | * New Report ITU-R M.2415 * Revision of Report M.2014 (Nov. 2016); * Revision of Report ITU-R M.2377 * Revision of Rec. ITU-R M.1826 (submitted for adoption to SG 5 meeting in Sept. 2019) * Revision of Rec. ITU-R M.2009 * Revision of Rec. ITU-R M.1637 * Revision of Rec. ITU-R M.2015 * Draft revision of Question ITU‑R 209-5/5 (submitted for adoption to SG 5 meeting in Sept. 2019) |
| WP 5B | The work for the revision of the relevant Recommendation has been completed, reflecting new roles of oceanographic radar application to detect tsunami. |  |
| WP 5C | WP 5C has completed the work on the revision of Recommendation ITU-R F.1105 on fixed wireless systems for disaster mitigation and relief operations. |  |
| WP 5D | The study has been completed to develop a new ITU-R Report. | * Revision of Report ITU-R M.2291 |
| Resolution 56-2 | Naming for International Mobile Telecommunications | WP 5D | Working Party 5D is conducting the study on IMT taking into account the scope of this Resolution. | Applies across all WP 5D deliverables |
| Resolution 57-2 | Principles for the process of development of IMT-Advanced | WP 5D | Working Party 5D has conducted and is conducting the study on IMT taking into account the scope of this Resolution. | - Revisions of Recs. ITU-R M.1457 and ITU-R M.2012 (the later has been submitted for adoption to SG 5 meeting in Sept. 2019)  - New Rec. ITU-R M.2101 |
| Resolution 58-1 | Studies on the implementation and use of cognitive radio systems | WP 5A | In conjunction with Question ITU-R 241-2/5, WP 5A has completed the development of new Report on cognitive radio systems in the land mobile services. | - Revision of Question 241‑3/5 (submitted for adoption to SG 5 meeting in Sept. 2019)  - New Report ITU-R M.2441  - New Report ITU-R M.2440 |
| WP 5C | The study is underway to develop. |  |
| Resolution 59-1 | Studies on availability of frequency bands and/or tuning ranges for worldwide and/or regional harmonization and conditions for their use by terrestrial electronic news gathering systems | WP 5C | Under the work plan, the studies have been completed.   * Creation of an ENG database. | * ENG database |
| Resolution 60-1 | Reduction of energy consumption for environmental protection and mitigating climate change by use of ICT/radiocommunication technologies and systems | WP 5A | Working Party 5A has incorporated new developments in technology into its Reports and Recommendations on land mobile systems and standards that will result in reduced energy consumption. There have been no outputs specifically devoted to this topic, as it is covered in the regular updating of the technical and operational characteristics of systems and standards under the purview of Working Party 5A. |  |
| WP 5B | Although no specific contribution was received, the WP 5B meeting discussed its relevance to the scope of this Resolution. The result could be summarized as provided in Note 1. | Note 1. |
|  |  | WP 5D | Working Party 5D is conducting the study on IMT taking into account the scope of this Resolution. | * Revisions of Recs. ITU-R M.1457 and ITU-R M.2012 * Proposed revision of this Resolution (submitted for adoption to SG 5 meeting in Sept. 2019) |
| Resolution 62-1 | Studies related to testing for conformance with ITU-R Recommendations and interoperability of radiocommunication equipment and systems | WP 5B | Although no specific contribution was received, the WP 5B meeting discussed its relevance to the scope of this Resolution. The result could be summarized as provided in Note 2. | No contributions received.  Note 2. |

Note 1: – Aeronautical and maritime systems are designed to expedite the passage of aircraft and ships from one port to another safely in a manner that reduces the flight/voyage time and hence reduces the fuel burnt in undertaking that flight/voyage. Since this fuel/energy saving is significantly greater than any saving that might result from improving the power efficiency of the radio equipment used to facilitate such flights/voyages it is felt more prudent to concentrate on designing systems to further expedite the passage of aircraft/ships rather than on the power efficiency of the radio equipment.

– Where aviation is looking at employing energy efficient systems that are powered through fuel harvesting there is a dilemma because in order to design a robust system that can be powered by such a means spectral efficiency has to be sacrificed.

* In certain cases the introduction of green systems such as wind farms or ships partially powered by kites, additional equipment needs to be installed to either detect the presence of such systems or to mitigate their effects on aeronautical and maritime navigational radio systems.

Note 2: The work of WP 5B is closely related to that of 3 other UN bodies:

– International Civil Aviation Organization

– International Maritime Organization

– World Meteorological Organization.

Due to the global nature of these organizations they are interested in ensuring that their systems are globally interoperable and hence they have well established mechanisms for developing globally harmonised standards and recommended practices. These standards and recommended practices, when addressing radio systems take into account and ensure conformance of such systems to the ITU Radio Regulations.

Additionally, since these systems are routinely used for ensuring the safety of human life and property there is a significant regulatory framework and conformance testing already carried out to ensure that these standards and recommended practices are adhered too.

In the view of WP 5B therefore, there is no need to take any further action towards ensuring conformance or interoperability with the Radio Regulations.

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