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| **Radiocommunication Advisory Group Geneva, 24-27 June 2014** |  |
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|  | **Document RAG14-1/9-E** |
| **30 May 2014** |
| **English only** |
| Director, Radiocommunication Bureau | |
| Further Development of THE ITU-R documents  database search facility | |

At the nineteenth meeting of the RAG, the RAG invited the Director to develop a database, within existing budgetary limitations, that enable ITU-R Recommendations to be searched and filtered by categories such as the radiocommunication service(s) and applicable frequency band, and at the twentieth meeting of the RAG, a demonstration version using the M-series Recommendations, which can be filtered by radiocommunication service(s) and frequency range, was prepared for review and comment.

Since then, further development of the database facility has been limited by lack of resources. In April 2014, considering the impact of the early introduction of an ITU-R Recommendations search database and its search tool to ITU Membership, and also the usefulness of expansion of this search function to the ITU-R documents such as Questions, Reports, Handbooks, Resolutions, the Ministry of Internal Affairs and Communications (MIC), Japan kindly provided a voluntary contribution of US $290 000 to encourage and expedite this search database development, which BR is responsible for, and to make it accessible for ITU members, including developing countries, by sufficiently equipped functions which make the database more effective and useful.

The planned development of the database is presented in Annex 1 to this document.

Annex 1  
  
Development of ITU-R documents database search facility

Supported by the voluntary contribution kindly provided by the MIC, Japan, work has commenced on the further development of the database. Experts from the Japanese administration have conducted an intensive review of ITU-R Recommendations to refine the search elements, and a search database for Recommendations using these search elements is being progressively developed. This work is also being supported by the ITU's IS section, where the search database is being developed in parallel with the ITU’s ongoing migration to the new Sharepoint platform.

A web-based demonstration page which covers the M, F and S series Recommendations with additional search criteria is expected to be available at <https://extranet.itu.int/itu-r/rsg/docs/filter.aspx> for review and comment before the twenty first RAG meeting. You can login to the database using your TIES username and password, in the same way as you would to access the study group meetings Sharepoint sites.

The main functions planned to be provided are:

1) Additional search functions

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| Simple / Detailed Search | Two pages, “Simple Search” & “Detailed Search”, will be prepared. Starting with a “Simple Search” page and a button to access the “Detailed Search” page. |
| Multi-step searches | Additional searches using the previous search result will be available to filter the results more efficiently. |
| Export of search results | Search results will be able to be exported into a file. |

2) Additional search criteria

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| Series | Selection of multiple series will be available in the “Detailed Search” page. |
| text search and keywords | Full text search of Recommendations will be available with the following options.  i) default: full text search.  ii) checkbox “Title only”: search for text in the title only  iii) checkbox “Keywords” : search only from keywords which are explicitly defined in the Recommendations. |
| Services | Search by upper services covers lower sub-classified services. The search menu will be provided in a hierarchical tree structure showing the relationship between upper services and the lower sub-classified services to easily identify services which cover a broader range of services. |
| Categories | Search by categories will be available in the “Detailed search” page. The following general categories have been identified so far by reviewing the M, F and S Series Recommendations.  i) Technical/operational characteristics or parameters  ii) Sharing/compatibility issues  iii) Frequency arrangements  iv) Error performance/availability objectives  v) High Frequency (HF) systems  vi) Antenna reference patterns  vii) Vocabulary  viii) IMT  Recommendations can be classified with multiple or without categories. About 66% of the M, F, S Series Recommendations are covered by the above categories. |
| Frequency | More precise frequency ranges (up to 20 frequency ranges per Recommendation) are included in the search database. Since a frequency range between the lowest applicable frequency and the highest applicable frequency are considered as the frequency range of a Recommendation in the previous version, more precise searches by frequency range will be possible in the new version. |
| Responsible SGs/WPs | Search by responsible SGs/WPs will be available in the “Detailed Search” page. |
| Status | Search by the status of Recommendations (“In force”, “Superseded”, “Suppressed”) will be available in the “Detailed Search” page.. |

3) Other search criteria being considered

a) Cross Reference

Identification of Recommendations which are IBR would be relatively straightforward. However, non-IBR Recommendations (referred to in the RR, but not IBR) could also be very useful but this may require more examination and consideration.

4) Activities to be implemented to complete the development of ITU-R documents database search facility

a) finalize the specification of search elements for all ITU-R Recommendations;

b) expand the database to include ITU-R Questions, Reports, Handbooks and Resolutions;

c) develop a search application accessible by mobile terminals;

d) document the working procedures specifying roles & responsibilities of the ITU/BR and ITU-R SGs/WPs to maintain the database.

This final item regarding working procedures is especially important in order to maintain the search database keep it up to date. It is expected that the database development for all ITU-R Recommendations will be finalized by the December 2014. Extending the database to ITU-R Questions, Reports, handbooks and Resolutions, and the possible development of a mobile application, would be carried out in 2015-2016. The estimated completion date of the whole project is by the end of 2016.

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