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| Director, Radiocommunication Bureau | |
| Further Development of THE ITU-R documents  database search facility | |

At the 19th meeting of the RAG, the RAG invited the Director to develop a database, within existing budgetary limitations, that would enable ITU-R Recommendations to be searched and filtered by categories such as the radiocommunication service(s) and applicable frequency band.

In April 2014, considering the impact of its early introduction, 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 USD 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.

Since then, supported by experts from the Japanese Administration and ITU’s IS section, the development of the ITU-R documents database search facility has been progressed, where the search database is being developed in parallel with ITU’s ongoing migration to the new Sharepoint platform.

The objectives of the ITU-R documents database search facility are as follows:

• Identify search criteria for the search database for the ITU-R documents (Recommendations, Questions, Reports and Handbooks)

• Review all ITU-R documents and extract search elements

• Develop a database and search tools for ITU-R documents on the ITU’s new Sharepoint platform

• Implement synchronizing function for maintaining the ITU-R documents and their search elements

• Document the working procedures specifying roles and responsibilities of ITU/BR and ITU‑R SGs/WPs to maintain the database

• Develop a search application accessible by mobile terminals.

Since the last RAG meeting, we have been working on the review and extraction of search elements from all remaining ITU-R Recommendations Series, and the development of the search tool for remaining search criteria such as frequency search, cross reference, on Sharepoint platform.

During that time, we devoted most of the time to the frequency search function. We encountered some limitations and characteristics of the Microsoft Sharepoint application for implementation of frequency search function, and after some trial and error, we found that it was difficult to develop the frequency search tool as we expected. Following consultation with Microsoft, we consequently developed the frequency search function tool by using a separate search page.

In parallel, we also worked on the review of the ITU-R Questions and the development of its search tool on the Sharepoint platform.

The current progress and the developed demonstration site is as follows:

# 1 Database website (demonstration version)

A web-based demonstration page (top page) is at <https://extranet.itu.int/brdocsearch>. All updates and detailed instructions regarding the ITU-R documents search database facility will be provided on this page. You can log into the database using your TIES username and password, in the same way as you would to access the study group meetings’ Sharepoint sites.

# 2 ITU-R Recommendations search database

The ITU-R Recommendations search database will be available at <https://extranet.itu.int/brdocsearch/R-REC/Forms/Folders_InForce.aspx> before the 22nd RAG meeting, with all ITU-R Recommendations covered. Although the data still require further verification, all ITU-R Recommendations with all search criteria listed below have been covered.

a) Recommendation series

b) Recommendation status

Only in-force Recommendations were reviewed for the search criteria c) to f).

• In force

• Superseded

• Suppressed

c) Radio services

d) Radio category

Recommendations can be classified with multiple or without categories.

• Technical/operational characteristics or parameters

• Sharing/compatibility issues

• Frequency arrangements

• Error performance/availability objectives

• High Frequency (HF) systems

• Antenna reference patterns

• Vocabulary

• IMT

e) Responsible SGs/WPs

f) Cross reference

• IBR and reference location in RR

• non-IBR (referred to in the RR, but not IBR) and reference location in RR

g) Applicable frequencies (up to 20 frequency ranges)

The search tool could filter the Recommendations where the defined frequency ranges include the specified frequency range. Frequency search will be provided in a separate page. The link to jump to the frequency search page is placed on the ITU-R Recommendations search main page.

h) Text search

Metadata search and full text search are available.

# 3 ITU-R Questions search database

The ITU-R Questions search database will be available at <https://extranet.itu.int/brdocsearch/R-QUE/Forms/Folders_InForce.aspx> before the 22nd RAG meeting, with all ITU-R Questions covered. Although the data still require further verification, all ITU-R Questions with all search criteria listed below have been covered.

a) Responsible SGs/WPs

b) Question category

c) Year

d) Question status

Only in-force Questions have been incorporated into the database at this stage.

e) Text search

Metadata search is available.

# 4 Future work

At this stage, the search database for ITU-R Recommendations and ITU-R Questions will be ready for review and comment.

In parallel to the development of the search database of ITU-R Recommendations and ITU-R Questions, the review of the ITU-R Reports has been started. The search criteria for ITU-R Reports will be similar to the ones for the ITU-R Recommendations.

The implementation of ITU-R Questions and Reports on the search database is expected to be finalized within 2015, followed by the implementation of the ITU-R Resolutions and Handbooks in 2015-2016. Consideration of the procedure to maintain the database and the possible development of a mobile application will be carried out in 2016.

The estimated completion date of the whole project is by the end of 2016.

If the time schedule permits, a demonstration of the database search facility will be provided during the RAG meeting.

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