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| Director, Radiocommunication Bureau |
| REVIEW OF BR INFORMATION SYSTEMS |

This document provides an overview of information systems used by the Bureau for notice submission, processing, examination, publication and distribution both for terrestrial and space services. Some of the software components are available to administrations and other users on distributed electronic media or by electronic download from the website. Administrations have been requested by several WRC Resolutions to submit notices electronically to the Bureau, and the Bureau to publish electronically.

Today, notices for terrestrial services are handled, stored and published separately from those for space services. Graphical user interfaces and database management systems used inside the Bureau and distributed outside on electronic media have gone in different directions.

Although in recent years the treatment of space notices has improved basic software developed up to twenty years ago and no longer compiling on today’s PC operating system still remain in operation, while software development methods and information exchange techniques have seen drastic changes over the last decade.

Several bodies have acknowledged the importance of reducing the ICT costs by centralizing data and streamlining business processes, as to avoid inappropriate or ad-hoc costly software development. For security, consistency, traceability, audit ability, accessibility and efficiency reasons, all data resulting from submission of notices to the Bureau should be brought in-line with general practices in database management systems namely, brought into one centralized and integrated database system with complete notice transaction processing implementing the different Radio Regulations or Regional Agreements procedures that conceptually are largely similar.

These factors highlight the urgent need for the Bureau to review and revise information systems and related working methods in place for two decades. To further increase the throughput and improve services and interactions with administrations and other users in a context of major budgetary reductions, it is imperative to reconsider organizational aspects, working methods, internal procedures, databases and software.

To address the needs of both the membership and the Bureau, RAG may consider establishing a Task Group composed of representatives from the membership, the Bureau and the ITU Information Services Department that would review and define requirements for a consolidated and integrated information system, largely shared with the membership, and establish a roadmap for its implementation. Most of the work could be done by correspondence. Possible issues for consideration by the Task Group are contained in the Annex to this document.

**Annex: 1**

**ANNEX**

As possible issues to be considered by the Task Group, the Bureau has listed some initial points:

* Data integration into a centralized database system with role-based granting of access rights per specific user in order to control, secure and trace data.
* Review of data structures in accordance with relational DBMS principles (database design) and with regulatory and technical purposes (e.g. Appendix 4 of the Radio Regulations) in order to facilitate data access and queries.
* Establishing and publishing rigorous workflows using standard modelling practices and tools to help communications and common understanding for each terrestrial and space notice types and to support database consistency and database transaction processing.
* Conforming to international standards (e.g. XML) for notice submissions and data exchanges.
* Developing web interface (as e.g. WISFAT (**W**eb **I**nterface for **S**ubmission of **F**requency **A**ssignments to **T**errestrial services)) for the electronic submission of notices pertaining to the space and radio- astronomy services.
* Streamlining terrestrial and space electronic publications, including the IFL Preface, for ease of use.
* Resuming the publication of the International Frequency List (see Article 20).]

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