

# Alignment of ITU and ICAO frequency databases

**Aligning of the ITU International Frequency List (IFL) with  
frequency assignments for which the coordination  
has been completed through ICAO**

Workshop

Mexico City, Mexico, 6 – 10 November 2017

Robert Witzen  
Loftur Jónasson  
Mie Utsunomiya

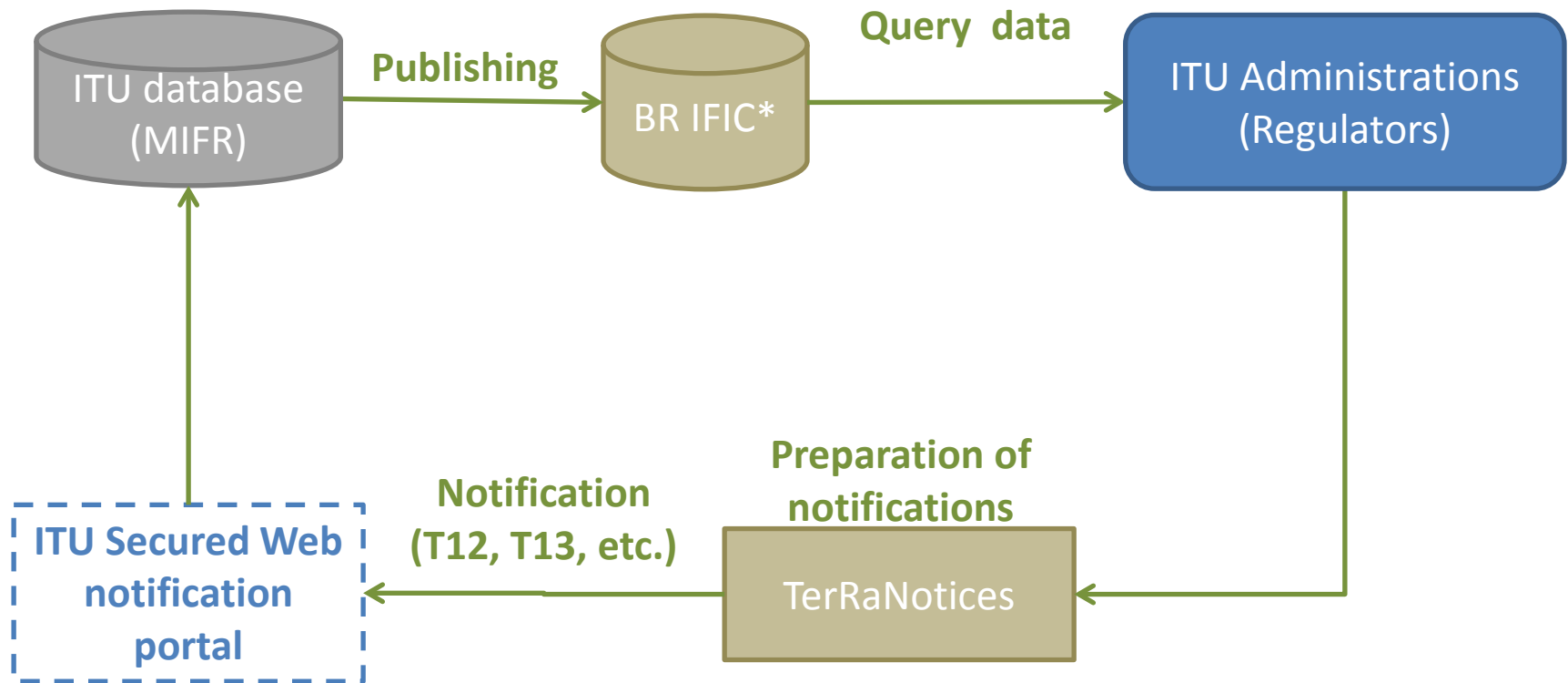
# Background

- ITU Master Register is a worldwide frequency database for **all services**
- Frequency Finder is worldwide database for **aeronautical frequencies**
- In 2012 comparison between ITU and ICAO databases showed that ICAO data are more accurate and up-to-date
- WRC-12 considered the matter and invited ICAO/ITU to align databases
- WG-F discussed the issue in September 2012 and March 2014

# Problems and Solutions


- **Problem 1:** the format, structure and parameters of ICAO database and the MIFR are different. **Solution:** development of a **notice generation tool** for converting data and generating ITU notifications. **Status: completed.**
- **Problem 2:** aviation authorities are not permitted to update Master Register. ITU administrations have no access to the ICAO database. **Solution:** make ICAO data available for ITU through Web. **Status: ongoing**
- **Problem 3:** ITU administrations may have difficulties to compare the MIFR and ICAO data to identify updates to Master Register. **Solution:** development of a **comparison tool**. **Status: completed.** Both tools are linked in TerRaNotices.
- **Problem 4:** aeronautical data are sensitive and shall not be publically available. **Solution:** **2 levels of protection** (discussed further in this presentation). **Status: ongoing**

# Update of ITU database (standard)



\* BR IFIC: BR International Frequency Information circular

# ITU Secured Web notification portal



**International Telecommunication Union**

---

Security ( show explanation )

This is a public or shared computer(**Session duration 10 minutes**)

This is a private computer(**Session duration 240 minutes**)

---

Username:

Password:

---

© International Telecommunication Union. All rights reserved.



**ITU-R Web Interface for Submission of Notifications of Frequency Assignments/Allotments to Terrestrial Services (WISFAT)**

1- Submission of notices under one of the following procedures of the Radio Regulations (RR)

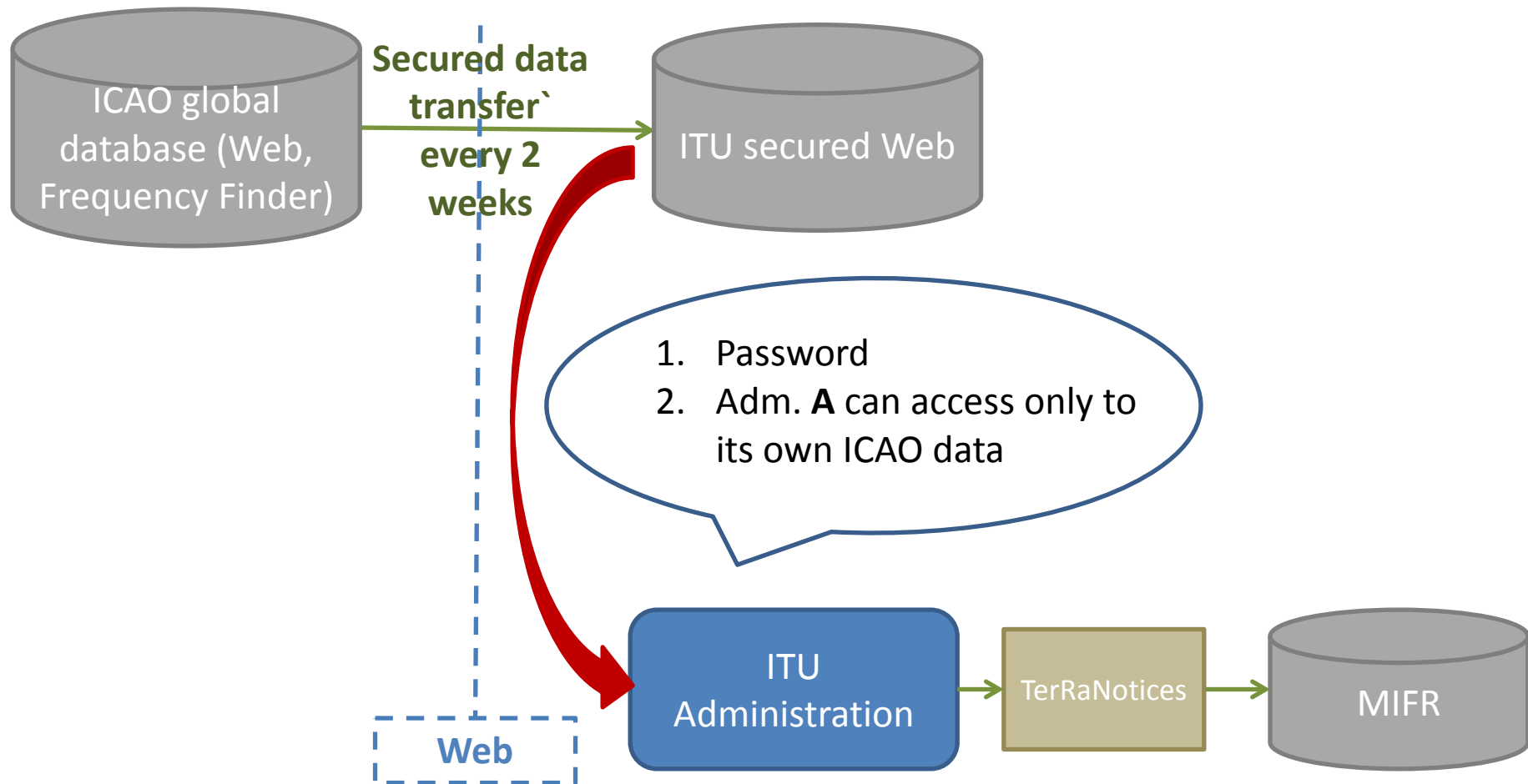
- Article 9 (Coordination procedure)
- Article 11 (Update of the Master Register)
- Article 12 (HFBC Seasonal Planning)
- Appendix 25 (Allotment Plan - Coast radiotelephone stations - 4000 kHz to 27500 kHz)

2- Submission of notices in application of a Regional Agreement for update of the Plan

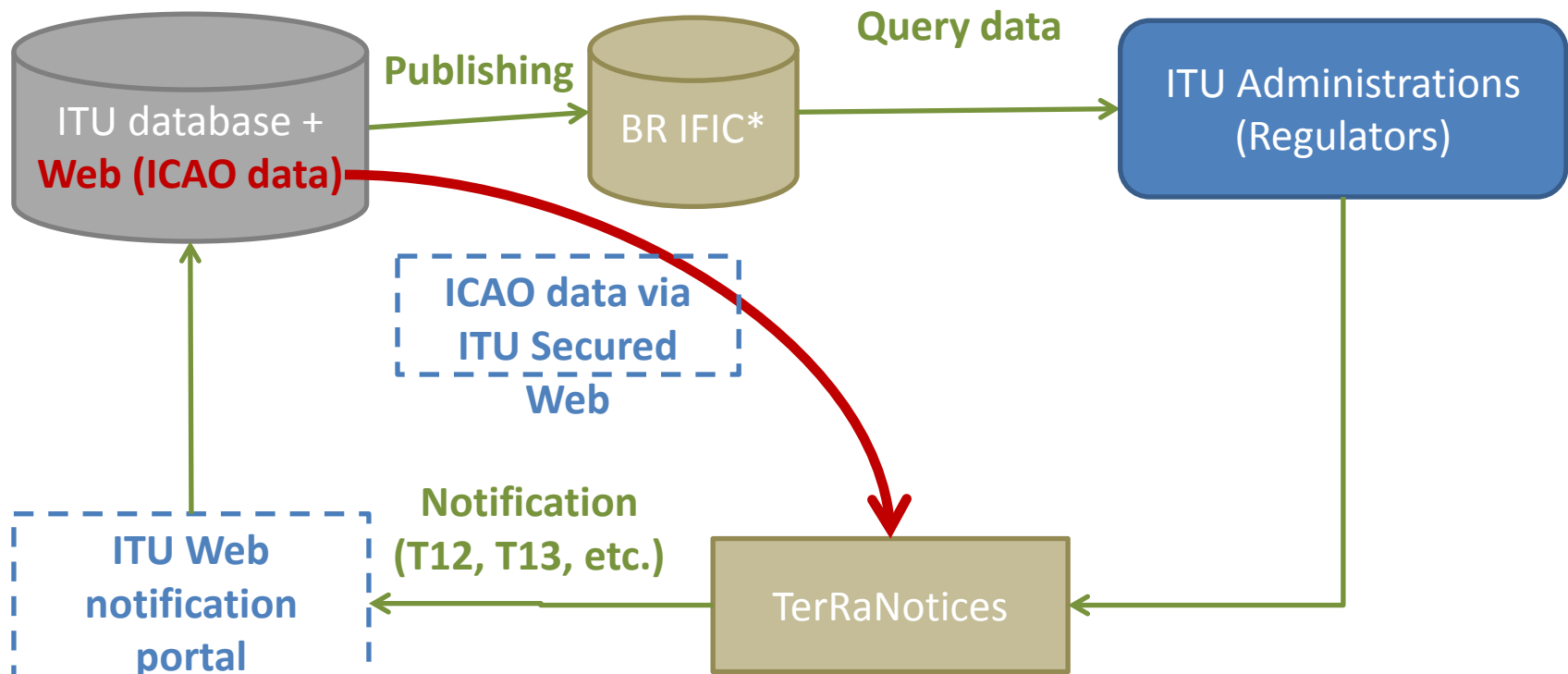
- GE75 (Sound Broadcasting - Regions 1 and 3-LF/MF bands)
- RB1 (Sound Broadcasting - Region 2 - MF band)
- GB4 (Sound Broadcasting - Regions 1 and part of 3 - 87.5 - 108 MHz)
- GB5-M (Maritime-Mobile / Aeronautical Radionavigation - Region 1 - MF bands)
- GB5-EMA (Maritime radionavigation (radiobeacons-European maritime area - 283.5-315 kHz)
- GB9 (TV Broadcasting - African Broadcasting Area and neighbouring countries - Bands I and III)
- ST61 (TV Broadcasting - European Broadcasting Area - 41-68 MHz, 87.5-100 MHz and 162-174 MHz)
- GE06 (Analogue and digital broadcasting - parts of Regions 1 and 3 - 174-230 MHz and 470-862 MHz)

General information about Web submission of notices  
Contact for further queries ([ictpr@itu.int](mailto:ictpr@itu.int))

# Proposed interface with ICAO database



# ITU Terrestrial System overview



1. Cross-comparison of ICAO and ITU data.
2. Generation of the correct notices