

ATU/ITU-REGIONAL RADIOCOMMUNICATION SEMINAR for Africa 2015

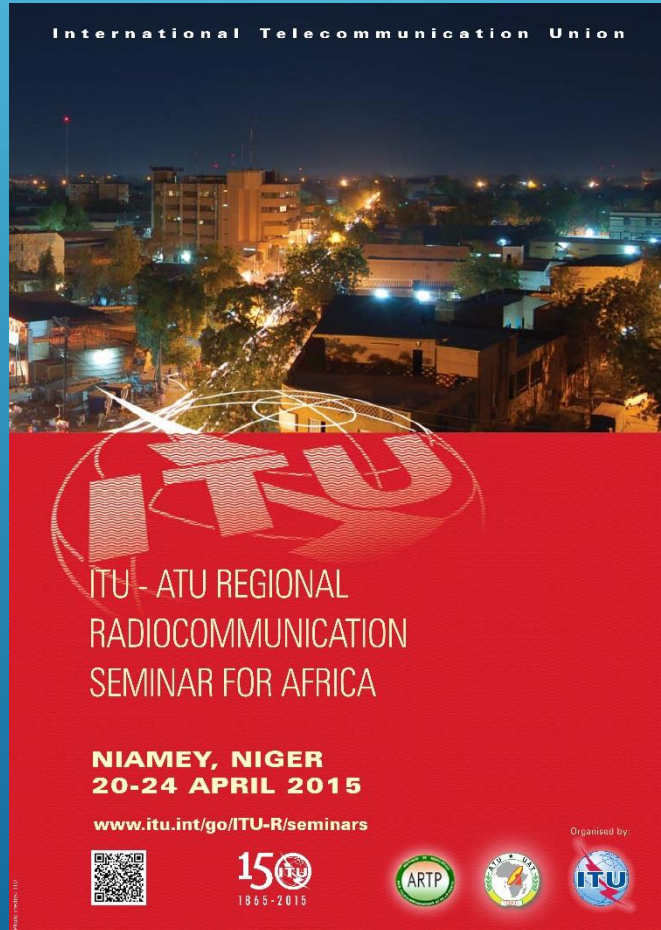


Niamey 20-24 April 2015

A web portal for broadcasting services



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Radiocommunication Engineer
BR



Agenda

- Portal overview
- The tools

eQry

ePub

eTools

myAdmin

- Future directions
- Hands-on exercises

Portal overview

Access to the Portal

<http://www.itu.int/ITU-R/eBCD/eQry.aspx>



The screenshot shows the ITU-R eBCD portal homepage. The top navigation bar includes the ITU logo, language links (Arabic, Chinese, Spanish, French, Russian), and search options. The main content area is titled 'Broadcasting Services Division' and describes the division's role in examining frequency assignments and providing assistance. A sidebar on the left lists various services, with 'Broadcasting Services' highlighted. A right sidebar features a 'GE 06' focus box, a circled 'eBCD' logo with the text 'Broadcasting data only a few clicks away!', and a list of upcoming events.

ITU International Telecommunication Union

Home : [ITU-R](#) : [Terrestrial Services](#) : Broadcasting

Broadcasting Services

- Our Bands
- MIFR
- Plans
- HFBC
- Forum
- FAQ
- On-line services/Software
- Reference documents

ITU Sectors | Newsroom | Events | Publications | Statistics | About ITU

Broadcasting Services Division

Broadcasting Services Division (BCD) examines notices and submissions for frequency assignments concerning television and sound broadcasting terrestrial services in all broadcasting bands (LF, MF, HF, VHF and UHF) and provides assistance to administrations with respect to the technical, regulatory and administrative procedures applicable to the planning of terrestrial broadcasting services.

Its main activities include:

- Examining proposed modifications to the frequency Plans with respect to their impact on other administrations in accordance with the procedures specified in the Regional Agreements.
- Examining proposed notifications for recording in the Master International Frequency Register (MIFR) in accordance with the Radio Regulations and associated Regional Agreements.
- Examining the compatibility analysis for HF broadcasting requirements submitted for inclusion in the seasonal schedules in accordance with Article 12 of the radio Regulations.
- Providing assistance and training to administrations in the application of relevant provisions of the Radio Regulations and Regional Agreements.
- Developing technical software that assist administrations in the planning and coordinating of terrestrial broadcasting services.

Contact: brbcd@itu.int

In focus!

GE 06
Frequency coordination for Sub-Saharan Africa

[Sub-Sahara GE06 Frequency Coordination Meetings](#)

Broadcasting Databases

eBCD

Broadcasting data only a few clicks away!

Coming events

- 17-19 July 2013, Nairobi, Kenya.
[3rd and Final GE06 Frequency Coordination Meeting for Sub-Saharan African countries](#)
- 26-30 August 2013, Bratislava, Slovakia.
[B13 Season HFCC/ASBU Frequency Coordination Conference](#)

eBCD : Overview

myAdmin

"My own office
@ ITU: opening ~24/7"

BR DB

Daily copy

eTools

"My test calculations
on-demand"

BR DB

Weekly copy

ePub

"Special Sections,
the publication day!"

BR DB

Snapshot

eQry

"Fast search
on Plans and MIFR"

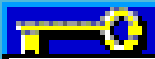
BR DB

Daily copy

Overview



TIES users



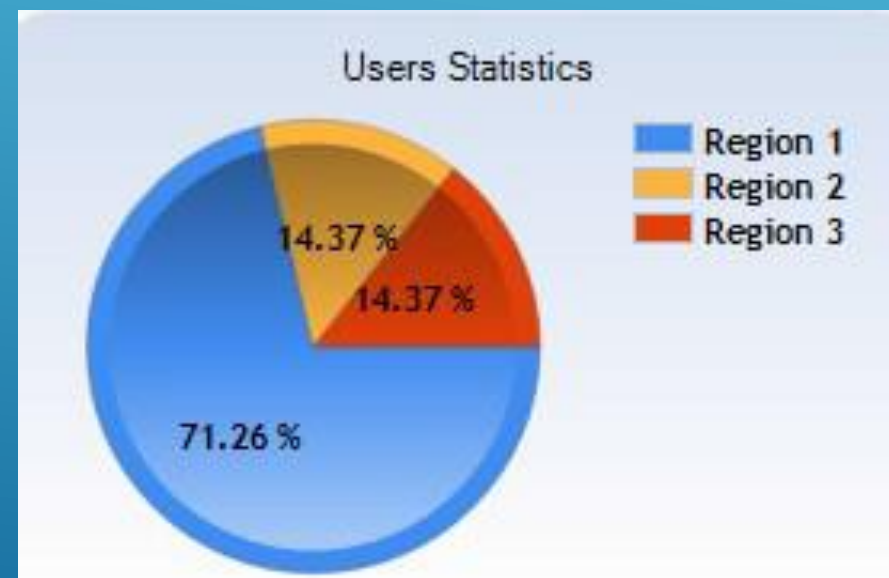
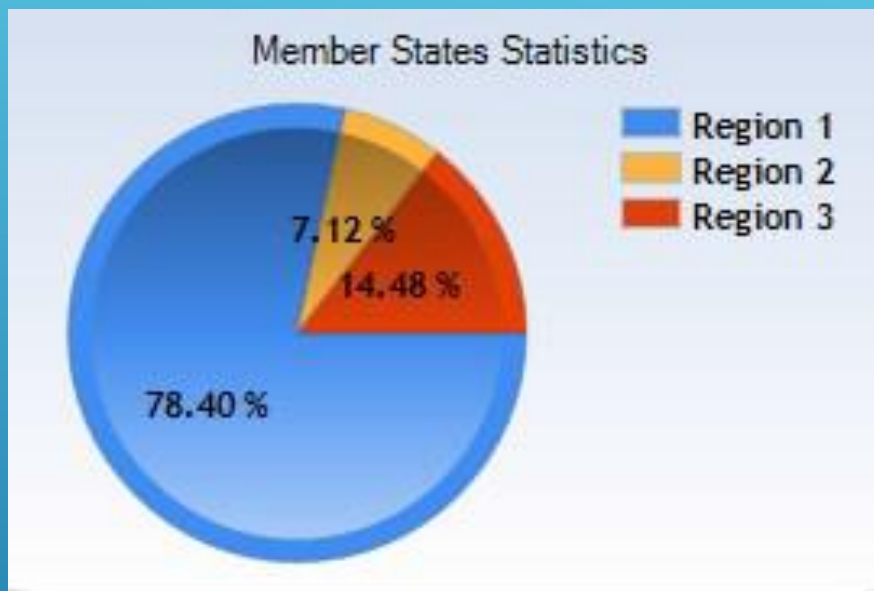
TIES users

BCD authorization required

Tips:

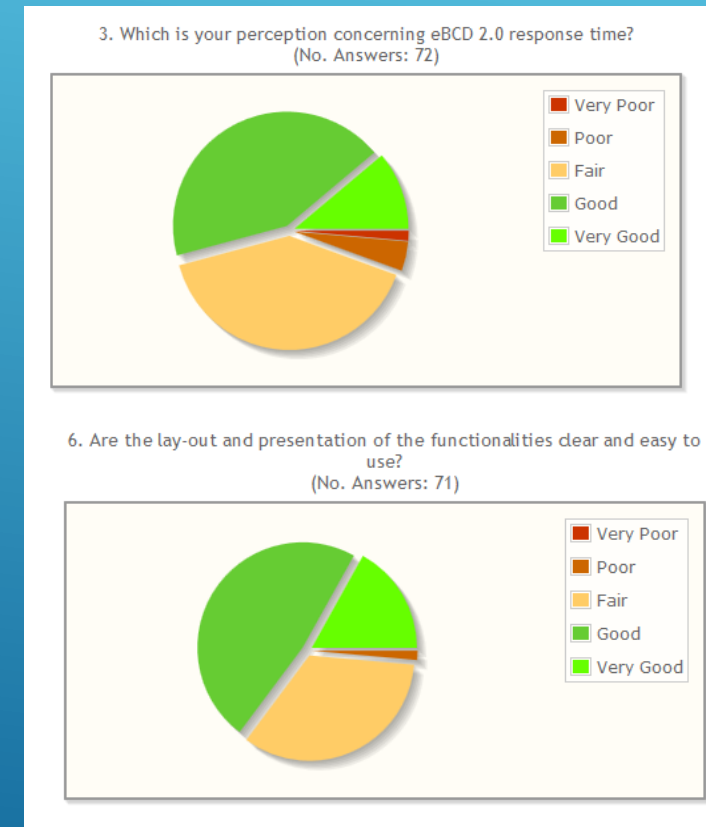
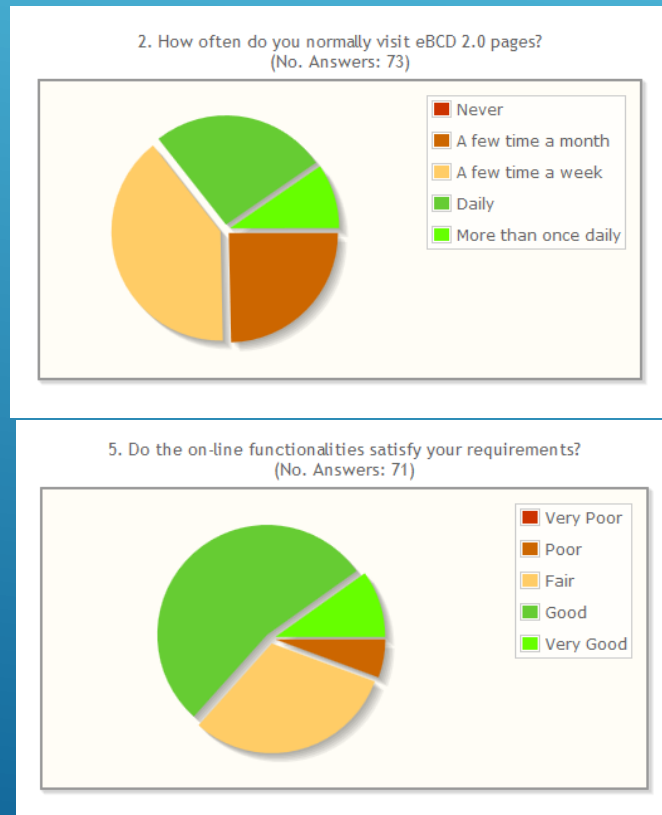
- Check your TIESaccount@itu.int for eBCD 2.0 e-communications

Overview

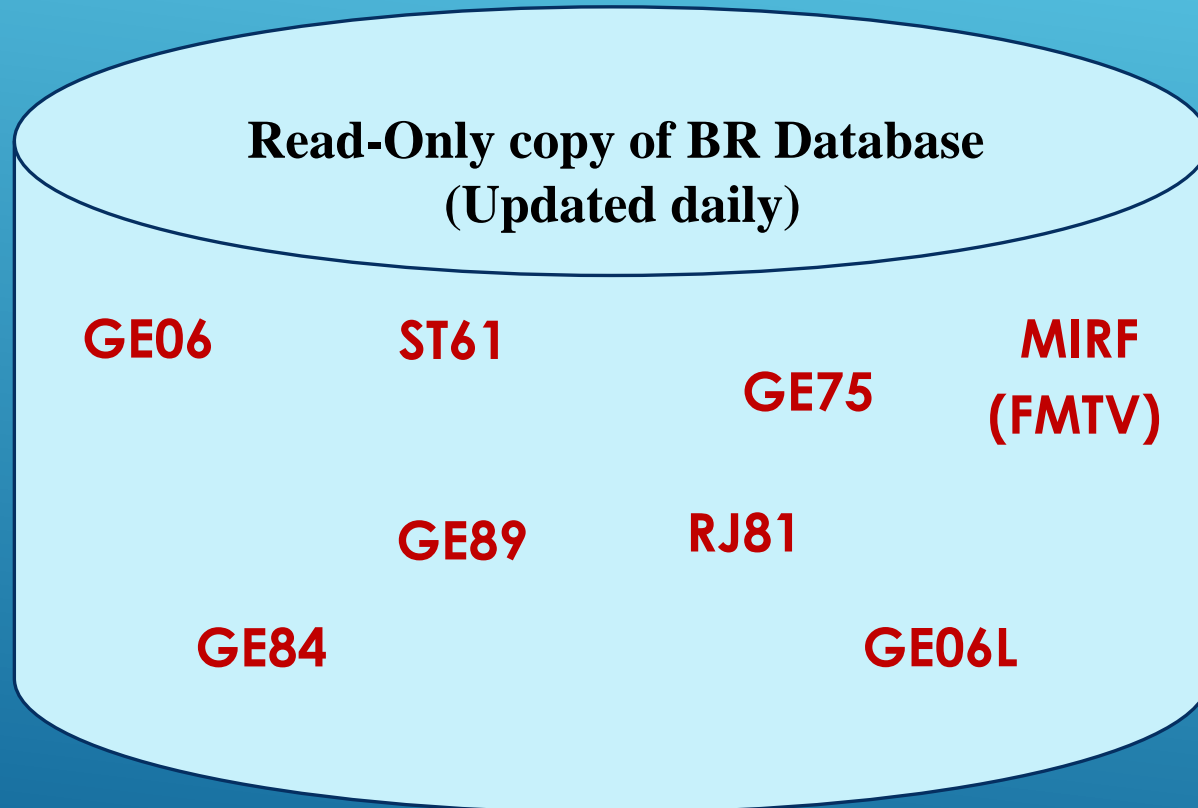


2014 Survey

- 15 January -1 March 2014
- 73 users from 22 Member States
- 30% replies (240 users consulted eBCD 2.0 in that period)
- New requested functionalities evaluated and partly already implemented (see Survey results)



*"Online search
on Plans and MIFR"*



Search by :

- Administration
- Geographic Area
- Frequency
- Administration Unique Identifier
- BR Identification number
- Status (Recorded/Published)
- Site/Allotment name

*"Special Sections,
the publication day!"*

Database Snapshots at publication date

GE06

ST61

GE75

**MIRF
(FMTV)**

GE89

RJ81

GE84

GE06L

Search by :

- . **BR IFIC number**
- . **Administration**
- . **My notifications**
- . **Notifications which affect me**

*"On-demand test
calculations"*

eTools

GE06

- **GE06D** Plan Modification (Coordination/Conformity)
- **GE06A** Coordination exam.
- **GE06D** Compatibility
- **GE06D** Compatibility (ATU)
- **GE06D** Compatibility (ASMG)



RJ81

- Plan Modification
- What-if studies

Propagation

- ITU-R P1812 Point to Point
- ITU-R P1812 Point to Area
- ITU-R P1546 Point to Area



Notice Generation

- Notice Generation (Export to SGML output)



eTools: e-notice submission



The ITU distributed processing infrastructure will treat your test submission and inform you at completion!



Check your TIES account!

yourTIESname@ties.itu.int



eTools: job processing

Pending

Process

Success

Failed

Test Packages: click to hide all

Job Id	Job Name	Job Status	Job Type	Date of Request	Date of Start Run	Date of Completion	Process	Elapsed Time (minutes)
6167	degert_0	Success	Art4_PlanModification	11/12/2012 3:10:52 PM	11/12/2012 3:11:02 PM	11/12/2012 3:11:59 PM	BR-GE06-2_2	1
14157	test	Success	Art4_PlanModification	11/20/2014 4:55:08 PM	11/20/2014 4:55:09 PM	11/20/2014 4:56:42 PM	CALC1_46	2
14145	manara_0	Failed	Art4_PlanModification	11/19/2014 3:21:33 PM	11/19/2014 3:21:38 PM	11/19/2014 3:22:13 PM	CALC1_22	1

Test Packages 10717: click to show all

Job summary [Delete](#) [Share](#)

job id	job name	job status
10717	MOZ-Nairobi	Failed

Job Input

Adm	E-notice file	Number of Notices
MOZ	MOZ_19.07.2013.txt	179

Job Output: ERROR

Problem parsing notices:
target not found for TB5 notice where t_adm_ref_id = MOZ1305361
target not found for TB5 notice where t_adm_ref_id = MOZ1305364

Please contact brbcd@itu.int
if the error message is unclear

eTools: privacy & job sharing



Jobs (e-notice and results) are owned and visible ONLY by submitter...




...you can now share them with other eBCD registered users!



eTools: back-end infrastructure

- 28 independent processes currently available in ITU servers for calculations.

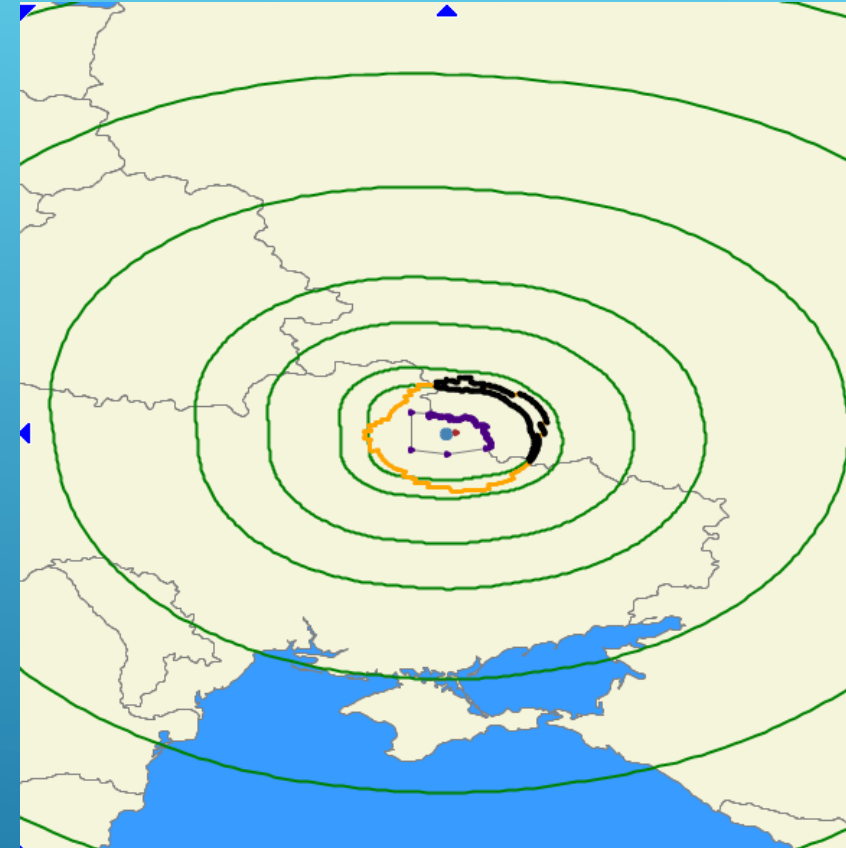


The BR completed a pilot-project to integrate external cloud resources if needed

GE06D Plan Modification



Coordination examination



Conformity examination

Compatibility Analyses

Interference calculations between new notices
(from electronic notification files)
and existing plan notices and recorded
assignments/allotments

Job summary

[Delete](#)[Share](#)

job id	job name	job status
14168	test	Success

Job Input

Adm	E-notice file	Number of Notices
LBN	LBN_12846_IN_all.txt	122

Job Output

[Download results](#)

Results available for
one-month only!

Results is an MS Access mdb file for
download to be visualized with GE06Calc.

ITU-R P1812 calculations

Propagation prediction model using terrain profile

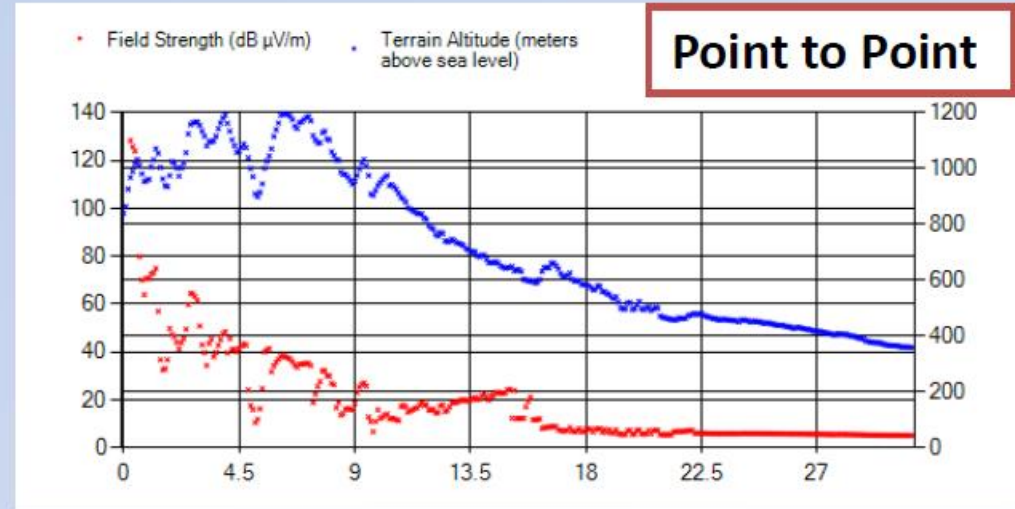
- 30 MHz - 3 GHz
- 0.25 km – 3000 km
- 1% < time < 50%
- 1% < locations < 99%

SRTM3 terrain database
3 arc-sec resolution (90 m)

still P1812-1



P1812-3(09-13)



ITU-R P1546 calculations

Propagation prediction model

- 30 MHz -3 GHz
- 1 km – 3000 km
- 1% < time < 50%
- 50% locations

Terrain database can be used to improve accuracy

Could also be adapted for location probabilities in the range (1%- 99%)



Beta Release!

Point-to-area prediction of field strength for the broadcasting, land mobile, maritime mobile and certain fixed services (e.g. those employing point-to-multipoint systems)



"My own office
@ ITU: opening ~24/7"

myAdmin



My Mail Box

Communication between the BR and the Member State:

Ex: Plan notices not yet published (for specific cases)

→GE06D notices under Conformity Review (30 days)



"My own office
@ ITU: opening ~24/7"

myAdmin

My Plan Statistics

Plan notices and assignments submitted by my Administration

Plan notices in coordination which affect my Administration

Notices under treatment ready for Part B



Coordination given/received by my Administration in the last 30 days

My MIFR Statistics

MIFR assignments and notices (part 1, 2, 2B, 3) submitted by my Administration

My Profile: services subscription

Send me an E-mail when new Special Sections containing my notifications or notifications affecting me are available on the web

Send me an E-mail when Coordination/Objection for my notices enters the database

Future directions

- Please send us your eFeedback!
 - How can we improve our services?
 - What do you need?
- Please answer the online survey and help us improve

“Thanks for your attention!”