A web portal for broadcasting services

eBCD 2.0
Broadcasting Online

Andrea Manara

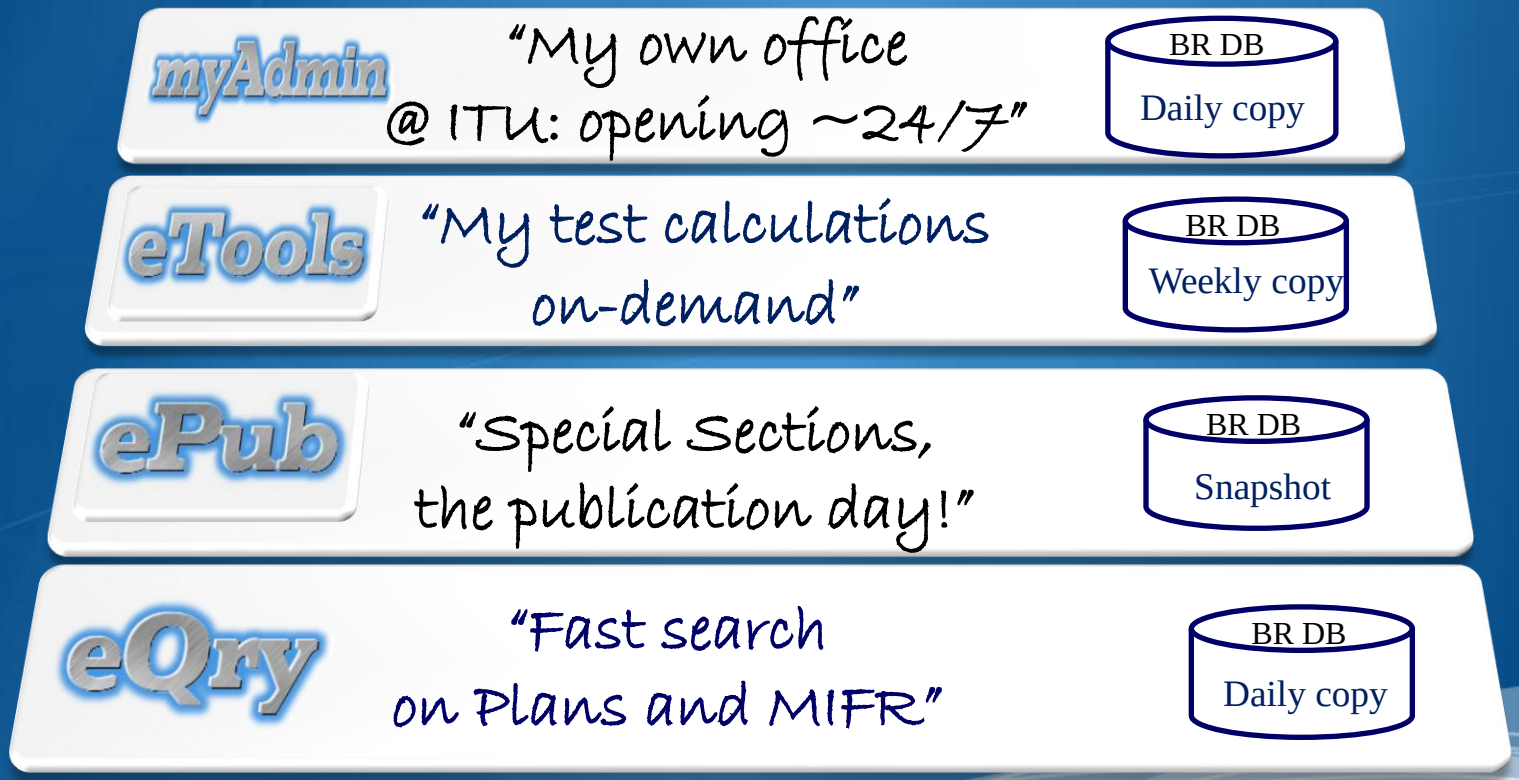
ITU International Telecommunication Union

Agenda

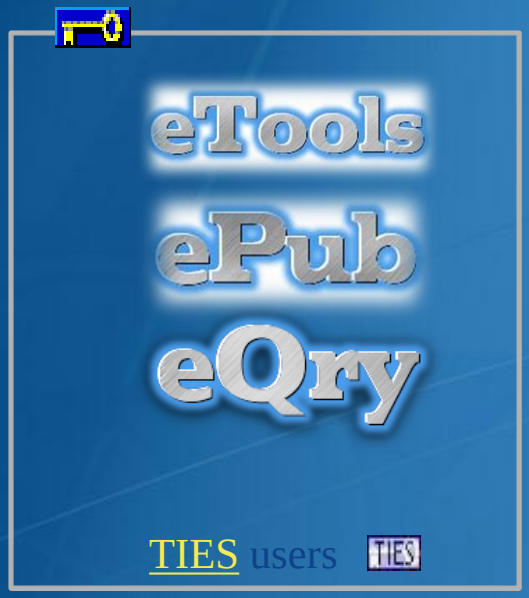
- Portal overview
- The tools

- Future directions
- Hands-on exercises

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

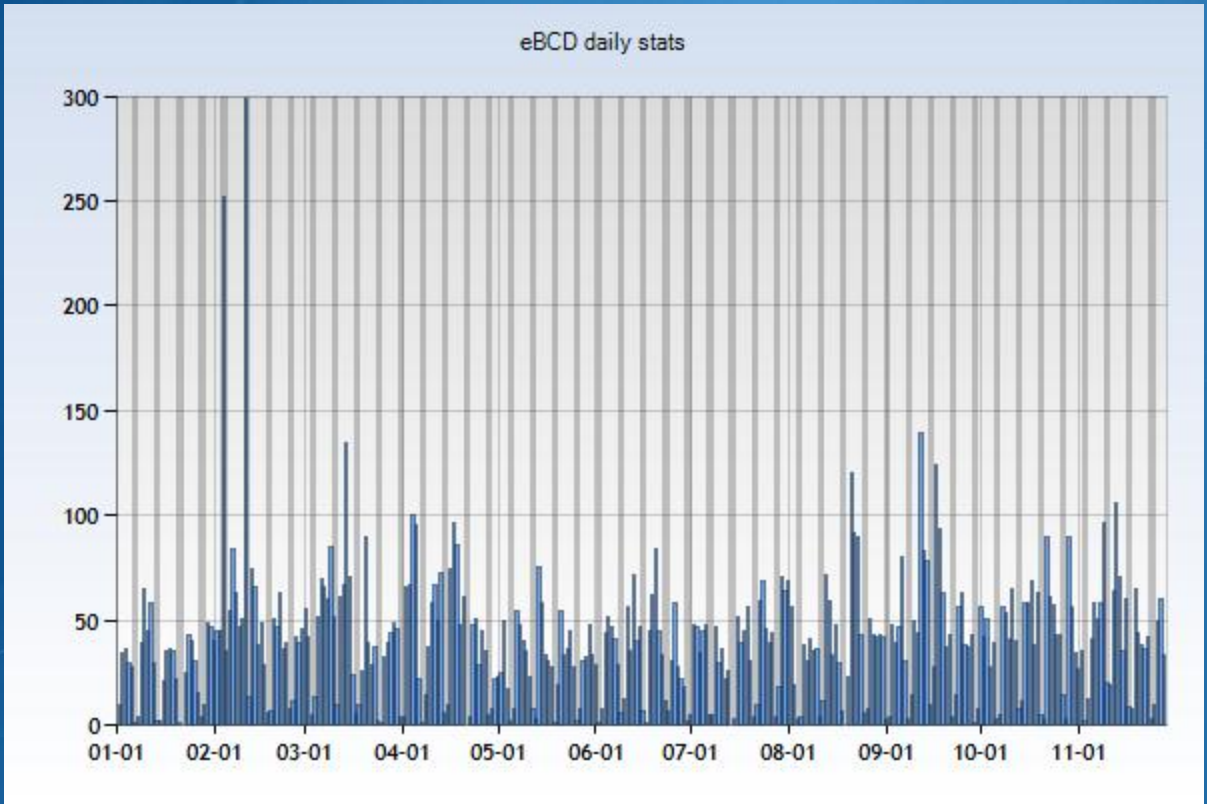
Overview



Tips:

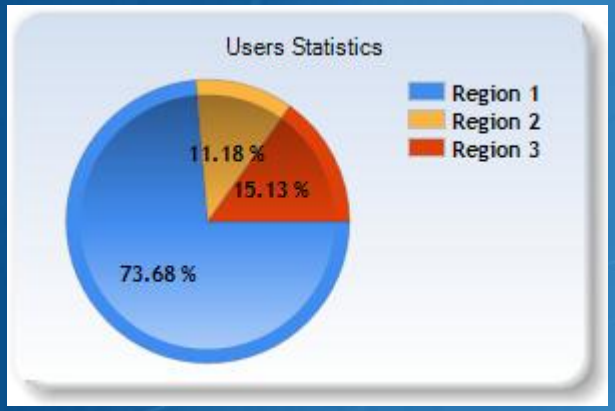
- Check yourTIESaccount@itu.int for eBCD 2.0 e-communications
- You can set Email Forwarding to your work account from here

Overview

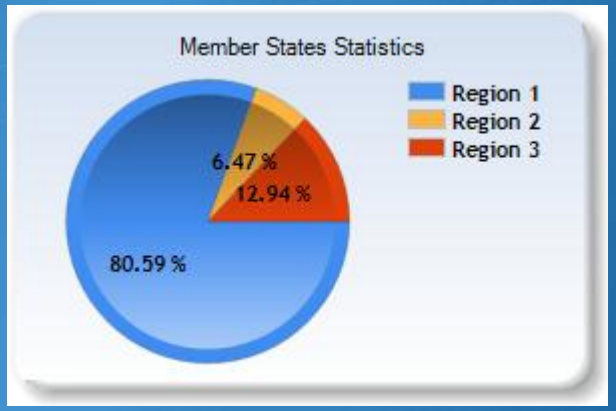


Number of daily user logins (2012)

Overview



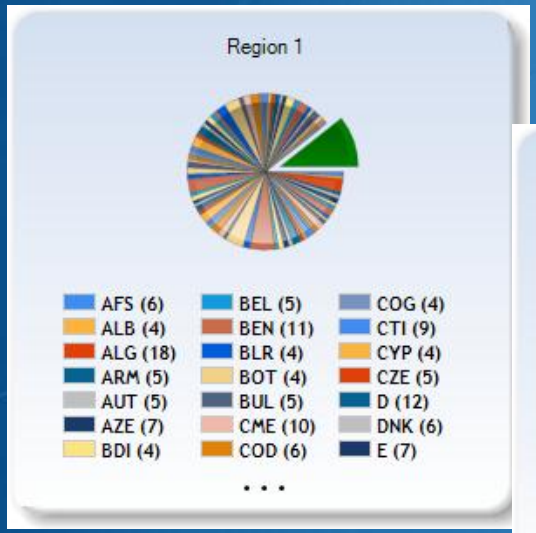
832 Users



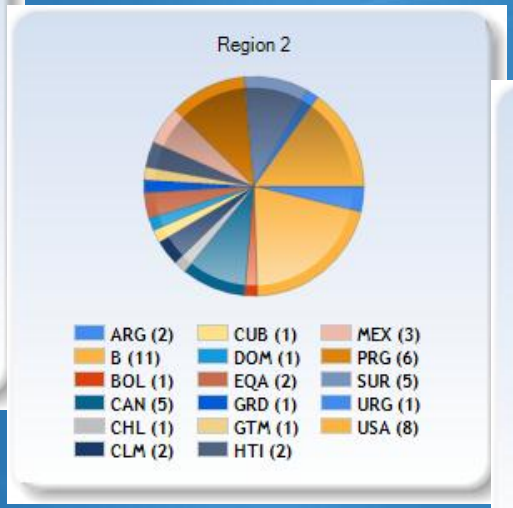
152 Member States

Overview

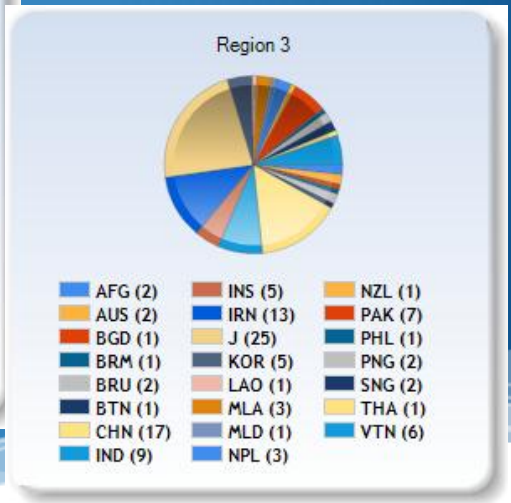
Region 1
668 Users
112 Member States



Region 2
53 Users
17 Member States

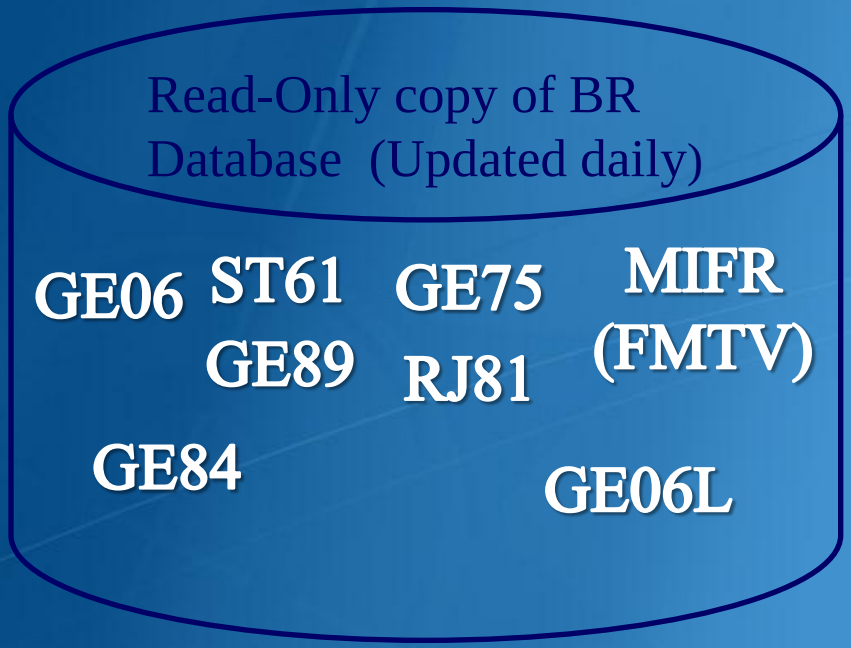


Region 3
111 Users
23 Member States



"Online search on Plans and MIFR"

eQry

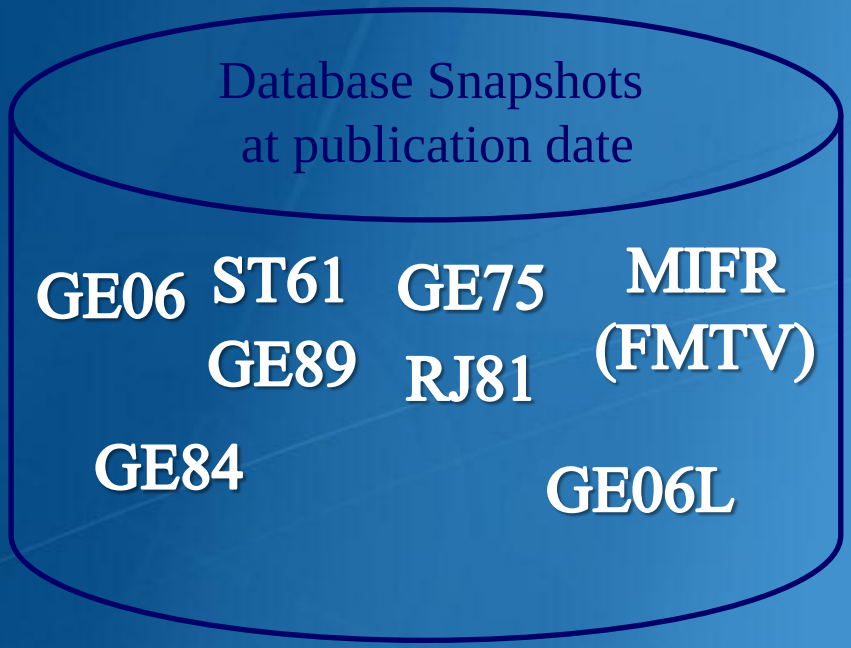


Search by:

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

"Special Sections, the publication day!"

ePub

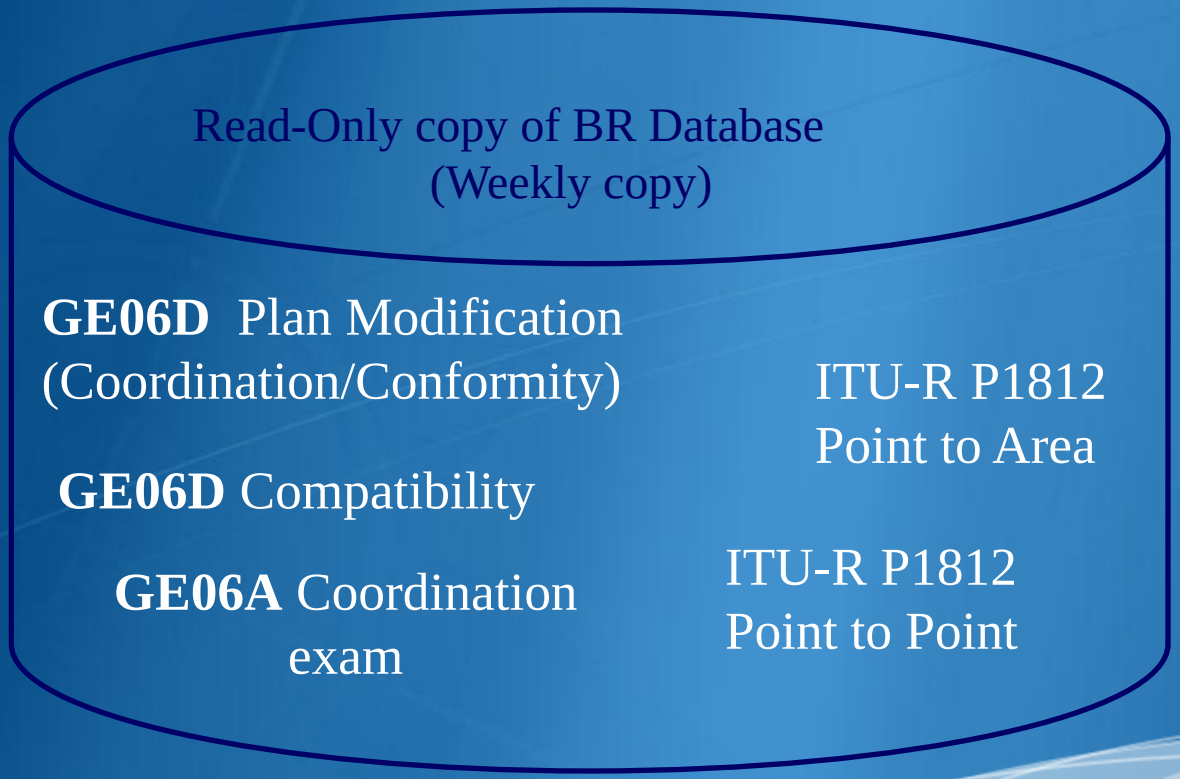


Search by:

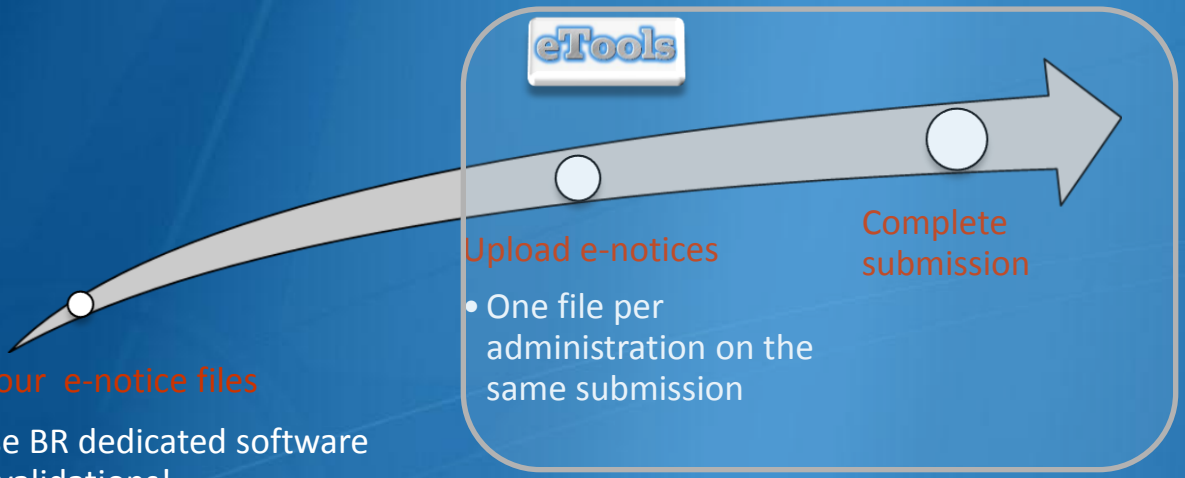
- BR IFIC number
- Administration
  - My notifications
  - Notifications which affects me

"On-demand test calculations"

eTools



eTools: e-notice submission



Validate your e-notice files

- Please use BR dedicated software tools for validations!

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

New Submission

The following package has been submitted

Job summary

Submitter	manara
Job Name	test_0
Job Type	Art4_PlanModification
Job Identifier	1451
Job Status	Pending Cancel job Share

Job summary

Submitter	manara
Job Name	test_0
Job Type	Art4_PlanModification
Job Identifier	1451
Job Status	Success Delete Share
Calculation Results	View

Submitter	manara
Job Name	manara_0
Job Type	Art4_PlanModification
Job Identifier	6194
Job Status	Failed Error File Delete Share

In case of failure,
check the error file

eTools: privacy & job sharing

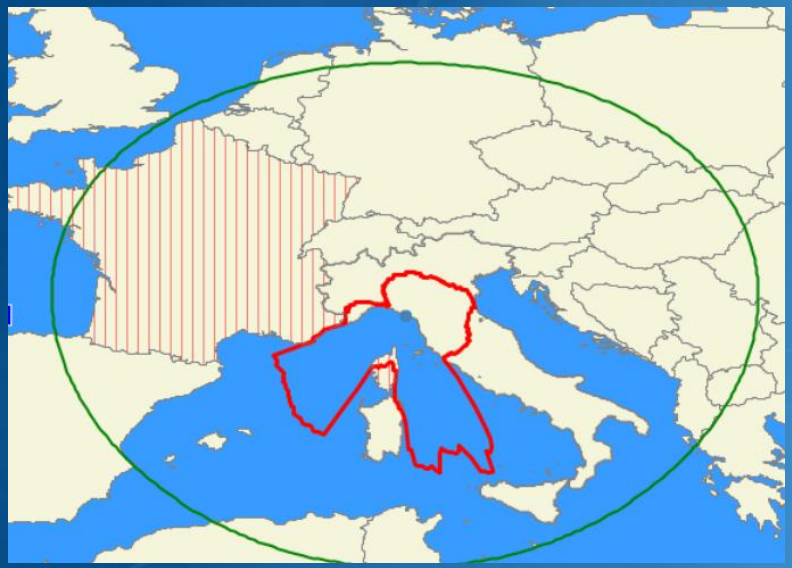
Jobs (e-notice and results) are owned and visible ONLY by submitter…

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

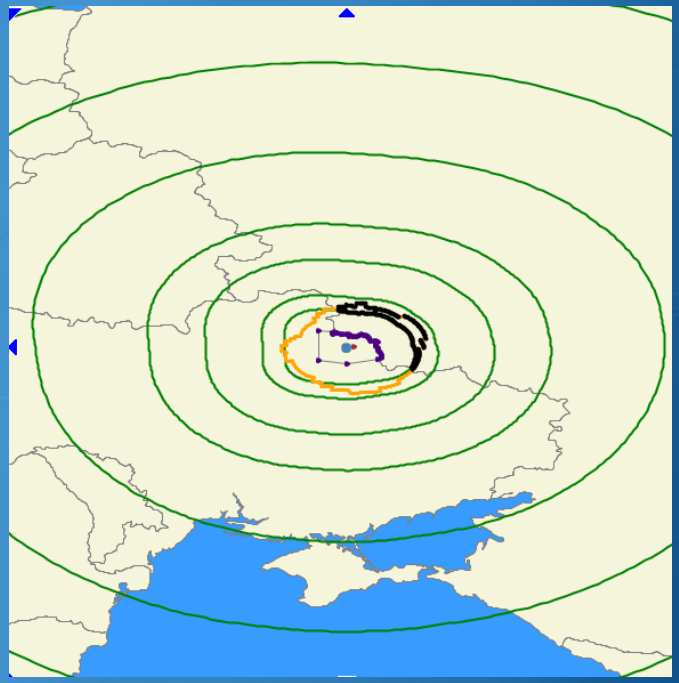
eTools: back-end infrastructure

- Six independent processes currently available in ITU servers
- System can upscale easily according to computing demand

GE06D Plan Modification



Coordination examination

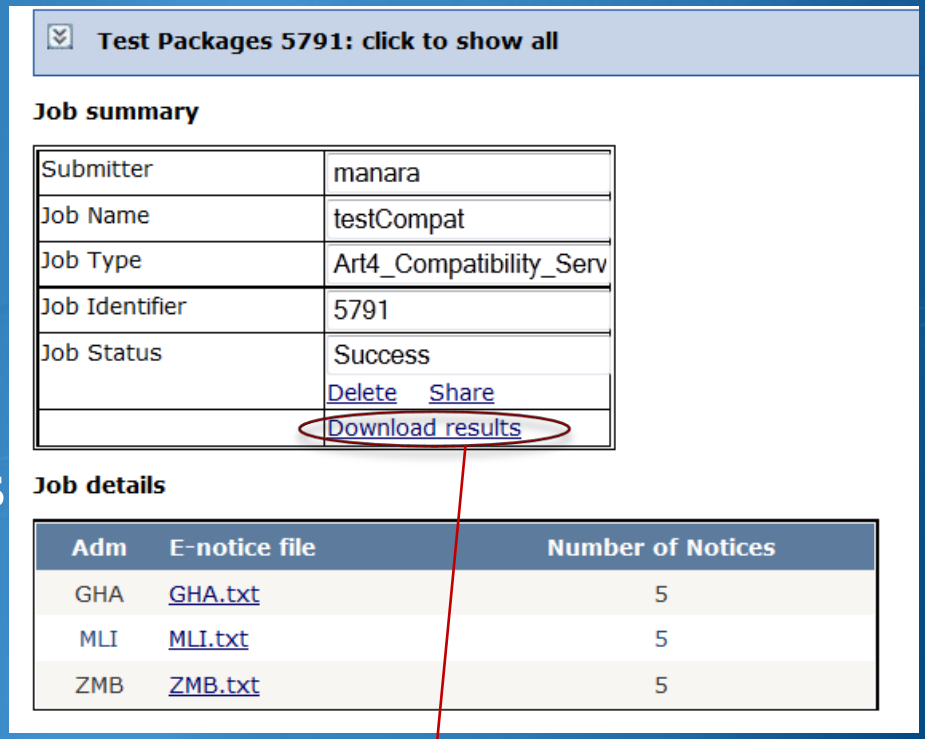


Conformity examination

eBCD 2.0
Broadcasting Online

Compatibility Analyses

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



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

eBCD 2.0 Broadcasting Online

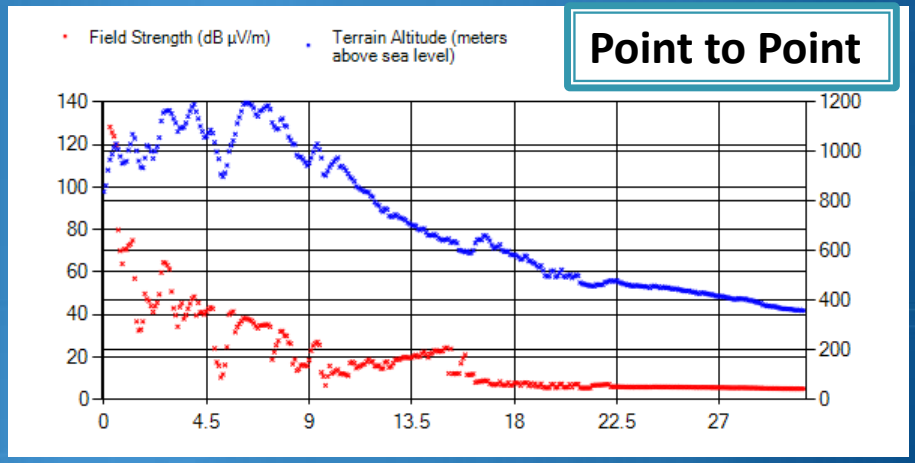
ITU-R P1812 calculations

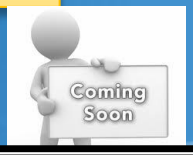
Propagation prediction model using terrain profile

- 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



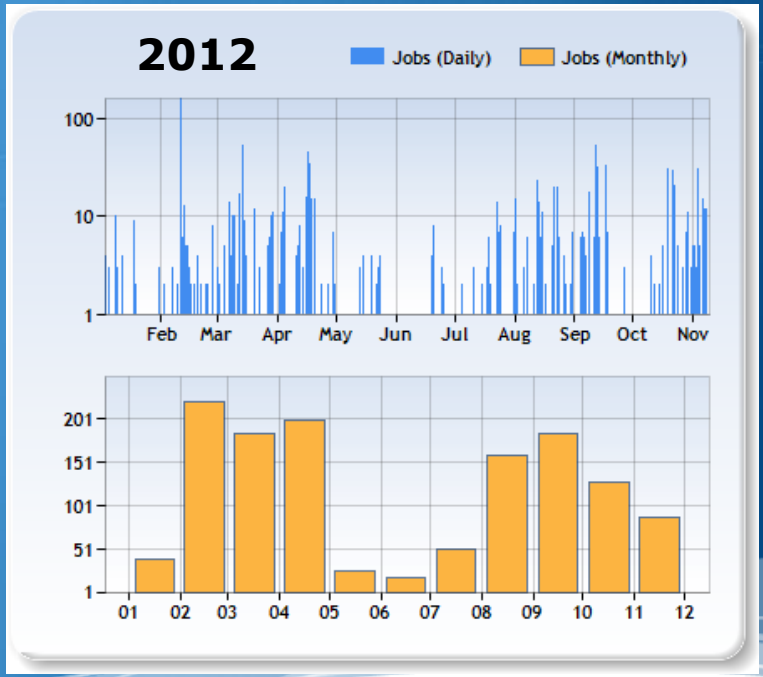


P1812-2(02-12)

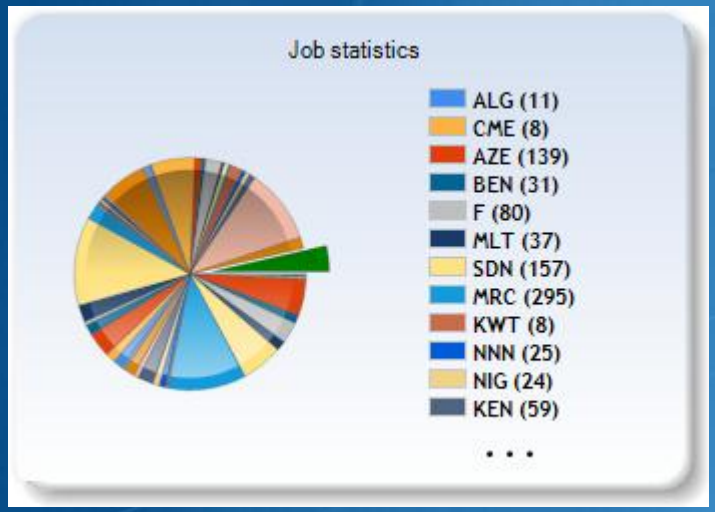
eBCD 2.0 Broadcasting Online

eTools usage

Calculation Type	# Jobs
GE06D Plan Modification (Coordination/Conformity)	1512
GE06D Compatibility	1313
GE06A Coordination	204
ITU-R P1812 Point2Point	310
ITU-R P1812 Point2Area	59
GE06D Compatibility (ATU replanning)	226

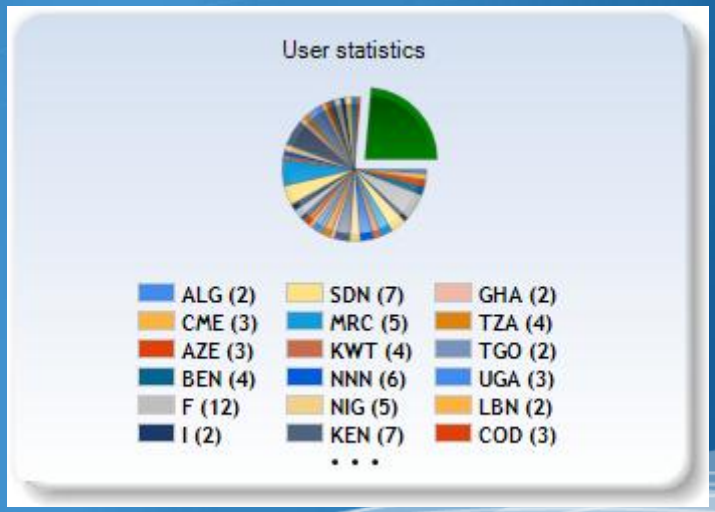


eTools usage



87 Member States

221 Users



"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

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 own office
@ ITU: opening ~24/7"

myAdmin

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

830 subscribers

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

705 subscribers

Future directions

- Improve performance (speed)
- Add services in eTools
  - Article 5 (GE06D) conformity examination
  - Ex. Assist administrations the planning of VHF-FM sound broadcasting services in accordance with the GE84 Agreement (GE84PLN evolution):
- Add services in myAdmin

Future directions

- Open access to broadcasting recorded data to the general public
- Integrate HF
- Extend the functionalities outside the broadcasting community?

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 attentions!"

Hands-on Exercise

Exercise no.1 eQry	Exercise no.2 ePub
1. Set selection criteria for plans/MIFR published notices or recorded assignments 2. Retrieve the data 3. Browse through summary information and notice/assignment details 4. Export the information to Excel 5. View the data in Google Earth.	1. Consult data concerning Special Sections of a plan of your choice a. Browse affected/notifying administrations b. Browse through summary information and notice/assignment details 2. Select a BR Ific of choice a. View published Special Sections if any b. View MIFR (FMTV) records if any 3. Select your Administration a. For the Plan of your choice, find the Special Sections which included your modifications or notifications affecting your administrations

Hands-on Exercise

Exercise no.3 eTools

1. Read the Disclaimer to make sure you understand scope and limitations of the tool
2. Submit a job by uploading one or more notice files for a test calculations of your choice
3. Display the results when the calculation completes (you may want to check your ties account, you may also want to set a forwarding rule to your normal office e-mail account)
4. Share the job with one or more of your neighbors. Verify that he can access your test data.
5. Delete a job if you are not more interested in it.

Exercise no.4 myAdmin

1. Log-in. If this is the first time a request for authorization will be sent to the BR. Verify your TIES account for communications concerning your granted access to this tool.
2. Verify your Mail Box. Is there any message from the BR?
3. Browse through your Plan Statistics.
    a. Look at your notices under treatment. Are there any objection or missing coordination?
    b. If so you may discuss one notification with colleagues from concerned Member States.
        i. In case of GE06 plan, look together at coordination contours.
        ii. You may want to submit via eTool P1812 calculations which may help to give you a more precise view of the situation considering terrain data.
    c. Look at notices under treatment which affect you.
        i. Did you compete the coordination for all those notices?
4. Browse through your MIFR statistics
    a. Do you have notices published in Part 1, 2, 2B or C?