World Radiocommunication Seminar 2016
12-16 December, Geneva, Switzerland

Online tools and electronic communication means for terrestrial services

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International Telecommunication Union

Agenda

- The eBCD2.0 platform for broadcasting services
  - eQuery, ePub, eTools, myAdmin
  - Integration of outgoing correspondence in myAdmin
- Online Validation and eMIFR tools for all terrestrial services
- Conclusion and outlook: Towards a fully electronic BR for terrestrial services?

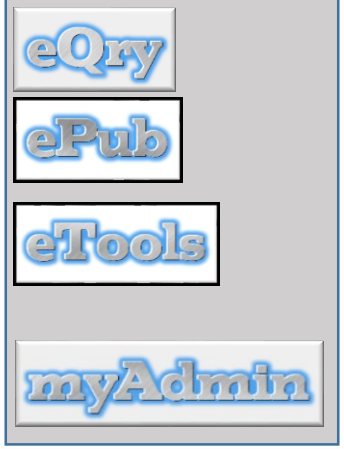
eBCD2.0 platform for broadcasting services

Objectives

Bring the BR closer to Administrations with added-value services

- **Provide access to up-to-date broadcasting data**
- **Provide access to Special Section at publication date**
- **Provide calculation-on-demand services in the scope of broadcasting agreements and relevant propagation models**
- **Help administrations in following more easily plan modification procedures and related deadlines**

Output



Outcome

- **Reduce workload on both BR and administrations**
- **Reduce the need for printed documents**

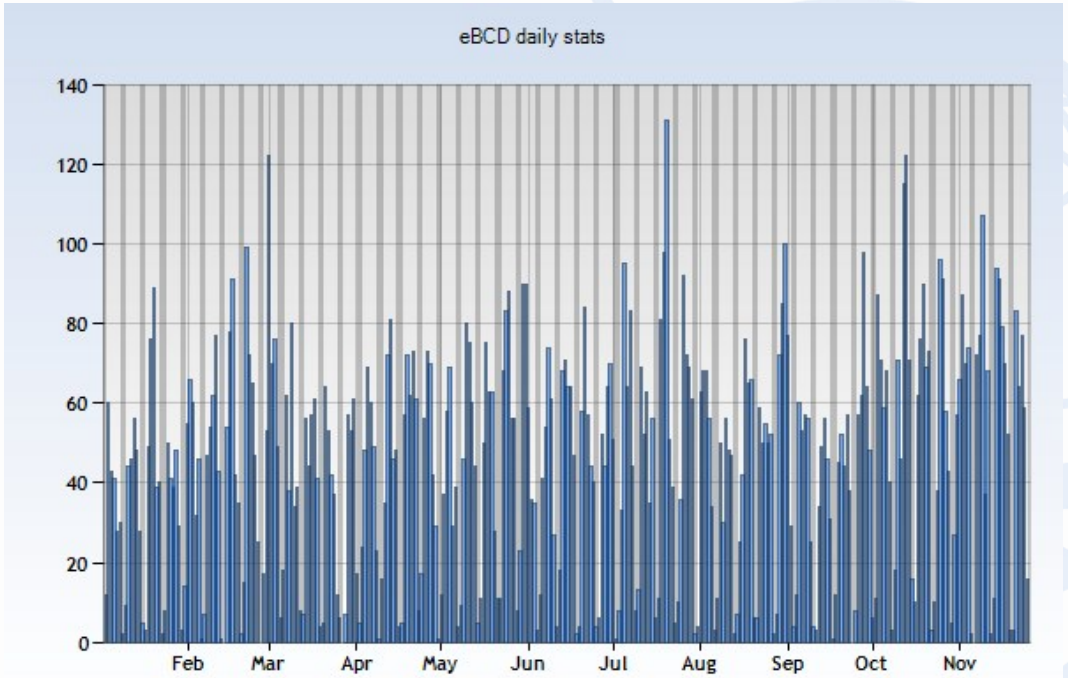
Portal description

eBCD 2.0 Broadcasting Online

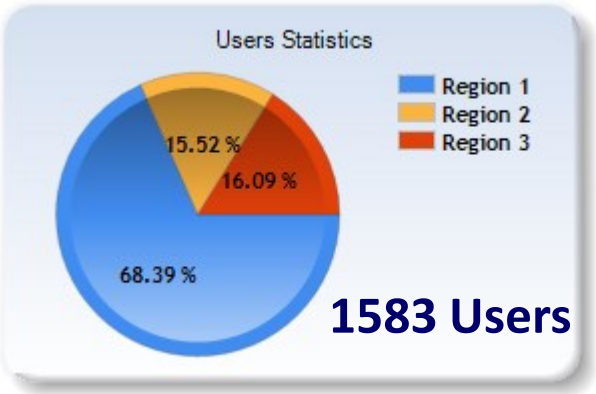
eBCD2.0 platform for broadcasting services

- Secure communication with administrations (https)
- In production since 2010

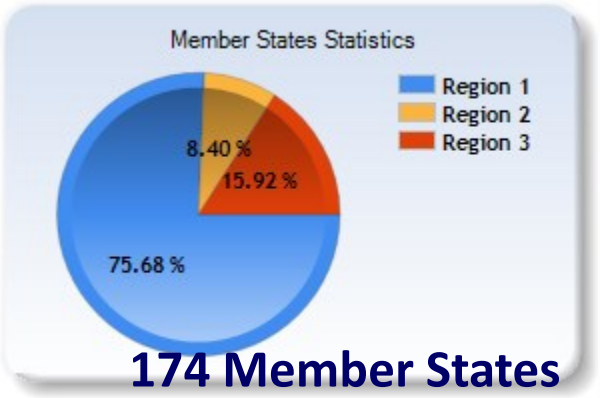
eBCD2.0 platform for broadcasting services



Number of daily logins 2016



1583 Users



174 Member States

Last month statistics:
~60 logins/day, 237 users, 92 Administrations

eQry

"Online search on Plans and MIFR"

Read-Only copy of BR Database (Updated daily)

GE06 ST61 GE75 MIFR (FMTV)
GE89 RJ81
GE84 GE06L

Search by:

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

- GE06: Contour ID, Plan Entry, Assignment code, TV chan., Frequency block

NEW

Generate e-notice file (Export to SGML)

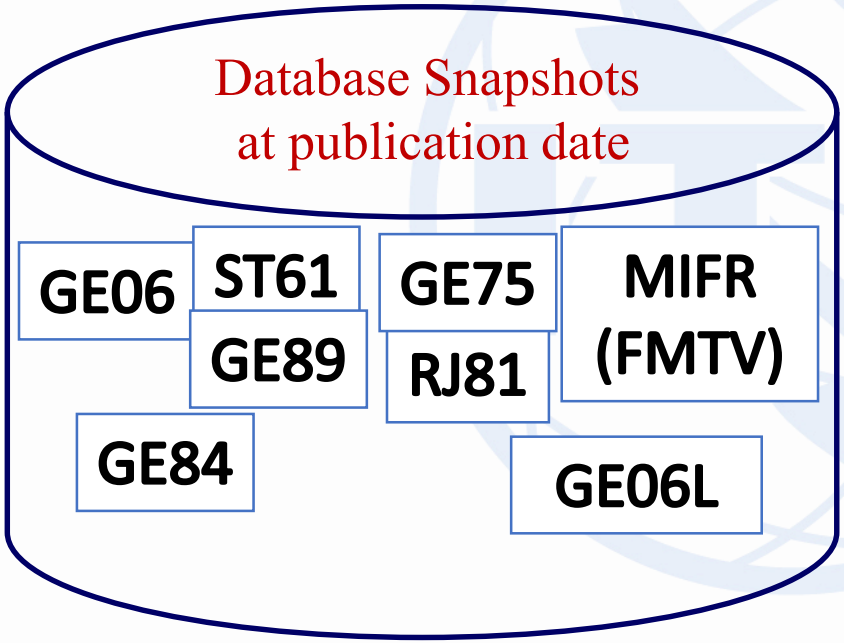
- GE06D under testing. Target deliver March 2017
- LF/MF under testing.

Notice generation reusing TerRaNotices software (SOA)

eBCD 2.0 Broadcasting Online

ePub

"Special Sections, the publication day!"



Search by:

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

eTools

"On-demand test calculations"

GE06

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

RJ81

- Plan Modification
- What-if studies
- What-if studies configurable Enom

GE84 NEW

- Compatibility Analyses (with integrated notice validation)

Propagation NEW

- ITU-R P1812v4 Point to Point
- ITU-R P1546 Point to Area

Notice Generation

- Notice Generation (Export to SGML output)

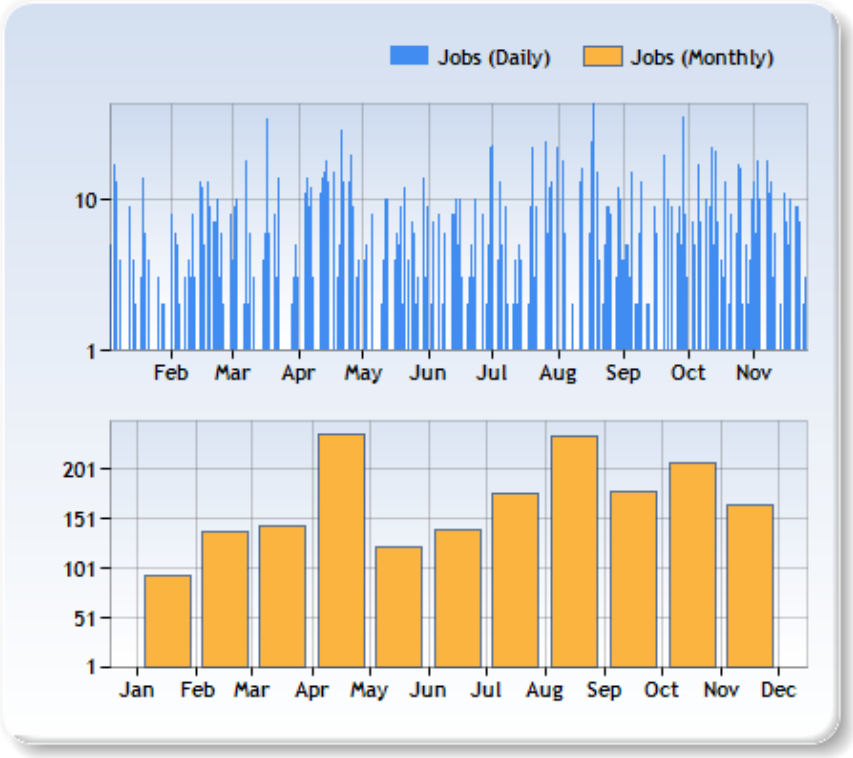
eBCD 2.0 Broadcasting Online

eTools

2016 statistics

More than **2000 jobs** run by **188 users** from **88 Administrations**

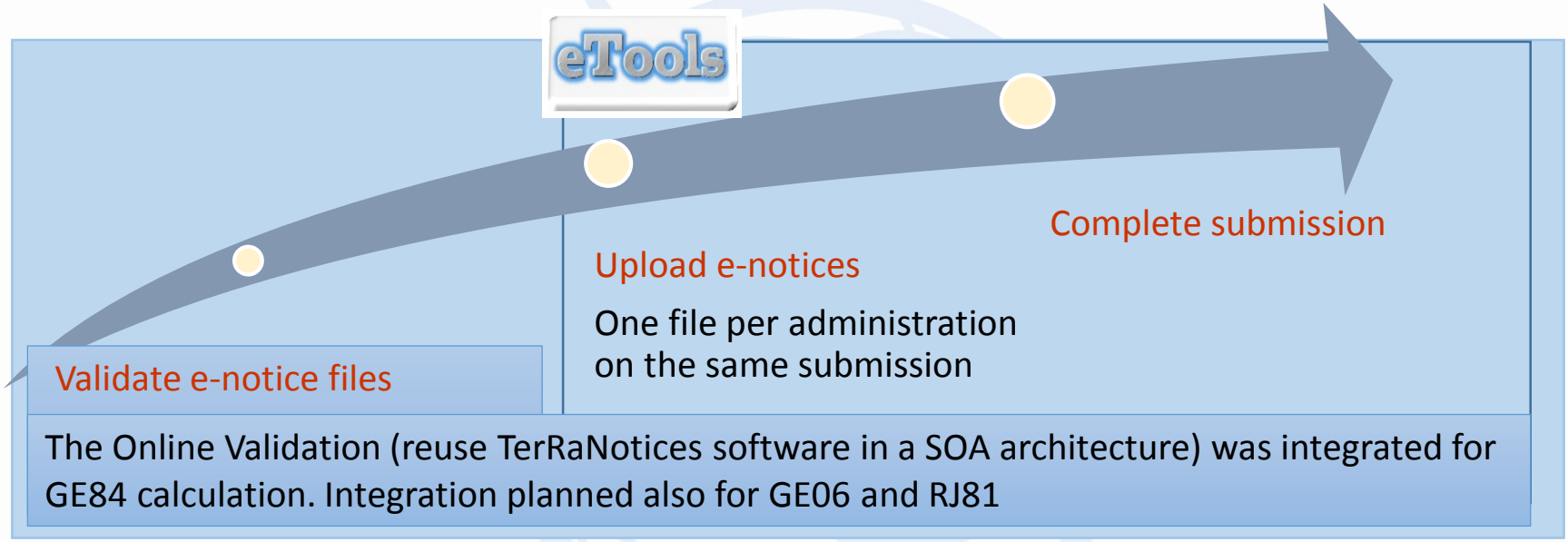
Calculation Type	# Job
GE06D Plan Modification (Coordination/Conformity)	638
GE06D Compatibilities	313
GE06A Coordination	13
ITU-R P.1812	106
RJ81 Plan modification	44
GE84 compatibility	342
ITU-R P.1546	108
Notice Generation	752



eBCD 2.0 Broadcasting Online

eTools: e-notice submission

GE06, RJ81	GE84



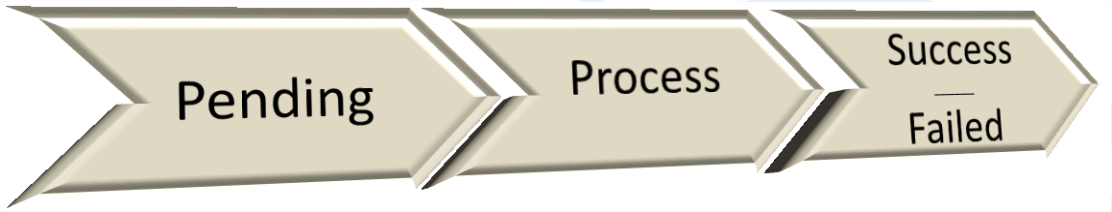
The Online Validation (reuse TerRaNotices software in a SOA architecture) was integrated for GE84 calculation. Integration planned also for GE06 and RJ81

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



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 and collaboration

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

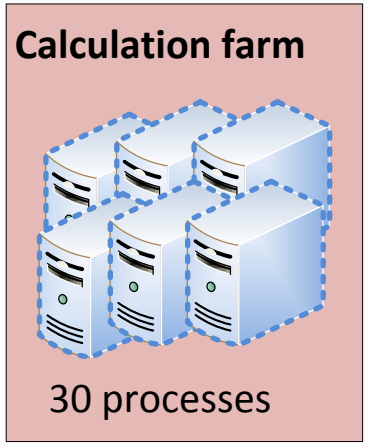
Facilitate coordination!

...you can now share them with other eBCD registered users! (web2.0)

Around **200 jobs** shared by **72 users** from **45 Administrations**

eTools: back-end infrastructure

- **30 independent processes currently available in ITU servers for calculations.**

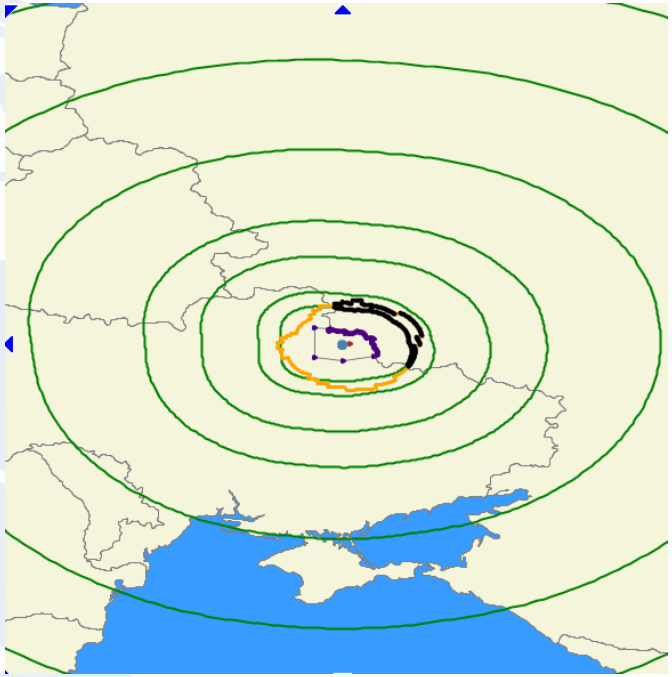


Processes distributed in such a way to minimize waiting time.

NEW

eTools: GE06D plan modification

Coordination examination



Conformity examination

More during GE06 workshop!

eTools: GE06 compatibility analyses

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

ATU planning (2012-2013)

ASMG planning (2014-2015)

COMTELCA planning (2017) NEW

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

More during GE06 workshop!

Results available for one-month only!

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

eBCD 2.0 Broadcasting Online

eTools: RJ81
plan modification and what-if studies

CITEL requests (2014-2015)

eTools Disclaimer eTools Documentations

The processing system is currently **ONLINE** (28 processes available)

Please select the calculation type

RJ81 | RJ81 what-if studies | Beta Release

Job Input

Adm	E-notice file	Number of Notices
ARG	ARG_13493_IN.txt	2

Job Output

Proposed Modification	Administrations with incompatibilities
760kHz_LU6	CHL B ARG
1140kHz_LU22	CHL ARG

Select the proposed modification	Select the affected protected station
All	All

Results | sw_50%_A | sw_BC | gw_D | gw_N

ID Number	Frequency Assigned (kHz)	Country	Station Name	Class of Station	BR Serial Number Affected	Frequency Assigned Affected (kHz)	Country Affected	Station Name Affected	Class of Station Affected	RJ81 List Affected	Time of Operation	Azimuth (deg)	Distance (km)	Symbol	Protected Value (mV/m)	NFS (mV/m)	NFS or EU before (mV/m)	EU after (mV/m)	Note
1	760	ARG	LU6	B	090001717	760	B	PLANALTO	B	A	N	0	14	Y	2.65	2.39	4.56	5.15	
1	760	ARG	LU6	B	090001717	760	B	PLANALTO	B	A	N	20	14	Y	2.65	2.39	4.56	5.15	
1	760	ARG	LU6	B	090001717	760	B	PLANALTO	B	A	N	40	14	Y	2.65	2.39	4.56	5.15	
1	760	ARG	LU6	B	090001717	760	B	PLANALTO	B	A	N	60	14	Y	2.65	2.41	4.56	5.16	
1	760	ARG	LU6	B	090001717	760	B	PLANALTO	B	A	N	80	14	Y	2.65	2.42	4.56	5.16	
1	760	ARG	LU6	B	090001717	760	B	PLANALTO	B	A	N	100	14	Y	2.65	2.44	4.56	5.17	
1	760	ARG	LU6	B	090001717	760	B	PLANALTO	B	A	N	120	14	Y	2.65	2.46	4.56	5.18	
1	760	ARG	LU6	B	090001717	760	B	PLANALTO	B	A	N	140	14	Y	2.65	2.48	4.56	5.19	
1	760	ARG	LU6	B	090001717	760	B	PLANALTO	B	A	N	160	14	Y	2.65	2.5	4.56	5.2	
1	760	ARG	LU6	B	090001717	760	B	PLANALTO	B	A	N	180	14	Y	2.65	2.51	4.56	5.21	
1	760	ARG	LU6	B	090001717	760	B	PLANALTO	B	A	N	200	14	Y	2.65	2.51	4.56	5.21	
1	760	ARG	LU6	B	090001717	760	B	PLANALTO	B	A	N	220	14	Y	2.65	2.5	4.56	5.2	
1	760	ARG	LU6	B	090001717	760	B	PLANALTO	B	A	N	240	14	Y	2.65	2.49	4.56	5.2	
1	760	ARG	LU6	B	090001717	760	B	PLANALTO	B	A	N	260	14	Y	2.65	2.48	4.56	5.19	
1	760	ARG	LU6	B	090001717	760	B	PLANALTO	B	A	N	280	14	Y	2.65	2.46	4.56	5.18	
1	760	ARG	LU6	B	090001717	760	B	PLANALTO	B	A	N	300	14	Y	2.65	2.44	4.56	5.17	
1	760	ARG	LU6	B	090001717	760	B	PLANALTO	B	A	N	320	14	Y	2.65	2.42	4.56	5.16	
1	760	ARG	LU6	B	090001717	760	B	PLANALTO	B	A	N	340	14	Y	2.65	2.4	4.56	5.16	
1	760	ARG	LU6	B	081010190	760	B	CANDELARIA	C	A	N	200	11	Y	4.18	3.63	7.25	8.11	

RJ81

- Plan Modification
- What-if studies
- What-if studies configurable Enom

If there is interest we can organize a RJ81 training session during WRS!

eBCD 2.0 Broadcasting Online

eTools: GE84 compatibility analyses

Job summary Delete Share

job id	job name	job status
29866	test	Success

Job Input

Adm	E-notice file	Number of Notices
HRV	HRV_amendment_notice.txt	1

Configuration Information

Top 20 only | Consider Tip | TV also | Polarization Discrimination (dB) 10 | Trigger NFS from proposed modification for EU calculations (dB (μV/m)) 30

Job Output

Input notice file validated by the OnlineValidation process on 10/10/2016 4:09:57 PM

Proposed Modification	Administrations with which the limits of 4.3.7.1/4.3.7.2 are exceeded	Eu (dB(μV/m))
87.8MHz_BOGOMOLJE	BIH HRV SVN SRB I GRC	93.579

Select the proposed modification: 87.8MHz_BOGOMOLJE

Export Results to Excel

GE84 Compatibility Analyses Description

Results | Interference To | Interference From

Assign ID	Adm	Intent	Stn Cls	Assigned Frequency (MHz)	Polar	Site Name	Total Distance (km)	Cold Sea Path (km)	Warm Sea Path (km)	Super refractivity Path (km)	ERP (dBW)	Azimuth (deg)	Protection Ratio (dB)	NFS (dB (μV/m))	EU Ref (dB (μV/m))	Proposed EU (dB (μV/m))	Current EU (dB (μV/m))	EU increase (dB (μV/m))
084005671	BIH	RECORDED	BC	87.8	M	CAPLJINA	51	0	19	0	30	90	45	90.327	91.374	96.91	91.439	5.471
084006190	HRV	RECORDED	BC	87.7	H	BABINO POLJE	61	0	55	0	27.1	136	33	79.33	84.221	89.068	86.734	2.334
084006380	HRV	RECORDED	BC	87.9	H	LASTOVO	42	0	42	0	15	193	33	76.784	88.541	90.056	88.492	1.564
084005599	BIH	RECORDED	BC	87.8	M	FOCA KMUR	143	0	20	0	30	74	37	69.607	96.018	96.208	96.048	0.16
084005728	BIH	RECORDED	BC	87.8	H	JAJCE JEZERO	134	0	9	0	29.5	5	37	69.399	83.394	90.162	89.735	0.427
084005611	BIH	RECORDED	BC	87.9	M	KONJIC B	91	0	16	0	30	58	25	66.226	89.715	89.697	89.472	0.225
084006435	HRV	RECORDED	BC	87.7	H	MOLUNAT	137	0	53	0	29.8	122	25	61.07	82.625	83.407	83.155	0.252
084006572	HRV	RECORDED	BC	88	H	STON	64	0	39	0	29.9	121	7	58.611	95.551	95.057	95.048	0.009
084006629	HRV	RECORDED	BC	87.7	H	VRLIKA	100	0	10	0	24.6	333	25	57.545	81.403	93.97	93.956	0.014
084005512	BIH	RECORDED	BC	87.7	M	HUM	138	0	15	0	30	53	25	57.075	94.988	96.202	96.196	0.006
084005730	BIH	RECORDED	BC	87.9	H	KAKANJ	141	0	11	0	30	39	25	56.38	109.908	109.91	109.91	0
084006200	HRV	RECORDED	BC	87.8	H	BIOGRAD	160	0	29	0	17.4	307	37	55.344	78.313	94.045	94.037	0.008
084102538	GRC	RECORDED	BC	87.8	H	AGNANTIA	392	0	288	0	26	140	37	51.682	80.518	129.753	129.753	0
084005737	BIH	RECORDED	BC	87.9	M	KLADANJ	183	0	13	0	30	48	25	50.908	91.894	91.874	91.872	0.002

More during GE84 workshop!

eTools: ITU-R P.1812 calculations

Beta Release!

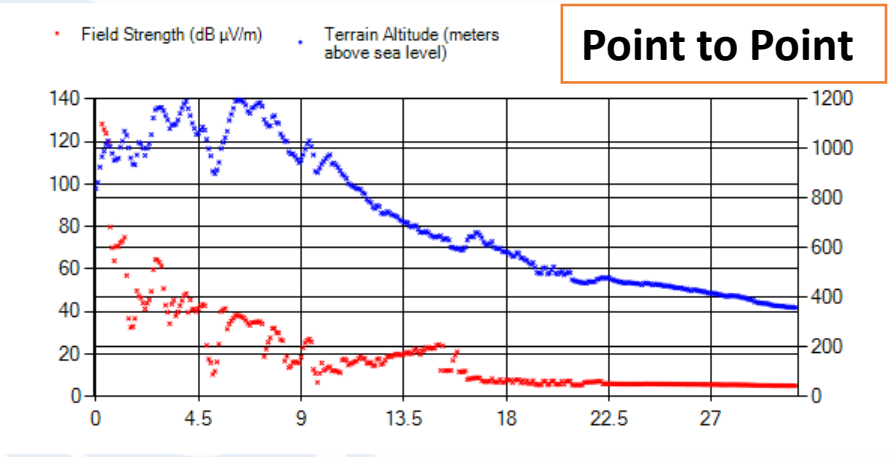
Propagation prediction model using terrain profile

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

SRTM3 terrain database 3 arc-sec resolution (90 m)
Planned to move to 1 arc-sec (30m) early 2017

P1812-4(07-15)

Point to Point



Point to Area

eTools: ITU-R P.1546 calculations

Beta Release!

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%)

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)

eBCD 2.0 Broadcasting Online

myAdmin

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

CR 408: Restricted access to focal point only **since November 2016** for myAdmin and e-mail notification services.

eBCD Focal Points

AFG	0	AFS	0	AGL	1	ALB	0	ALG	3	AND	0	ARG	0	ARM	0	ARS	2	ATG	0	AUS	1	AUT	5
AZE	1	B	0	BAH	0	BDI	0	BEL	4	BEN	2	BFA	0	BGD	0	BHR	2	BIH	1	BLR	2	BLZ	0
BOL	2	BOT	0	BRB	0	BRM	0	BRU	0	BTN	0	BUL	3	CAF	0	CAN	0	CBG	0	CHL	0	CHN	3
CLM	0	CLN	0	CME	6	COD	0	COG	0	COM	0	CPV	0	CTI	2	CTR	0	CUB	0	CVA	1	CYP	2
CZE	2	D	2	DJI	0	DMA	0	DNK	1	DOM	0	E	0	EGY	2	EQA	0	ERI	0	EST	2	ETH	0
F	7	FIN	5	FJI	0	FSM	0	G	6	GAB	0	GEO	2	GHA	0	GMB	0	GNB	0	GNE	0	GRC	0
GRD	0	GTM	0	GUI	0	GUY	0	HND	0	HNG	7	HOL	0	HRV	0	HTI	0	I	0	IND	2	INS	0
IRL	3	IRN	0	IRQ	0	ISL	0	ISR	0	J	0	JMC	0	JOR	0	KAZ	0	KEN	0	KGZ	0	KIR	1
KNA	0	KOR	1	KRE	0	KWT	0	LAO	0	LBN	0	LBR	0	LBY	0	LCA	0	LIE	0	LSO	0	LTU	0
LUX	1	LVA	2	MAU	0	MCO	0	MDA	1	MDG	0	MEX	0	MHL	0	MKD	0	MLA	3	MLD	0	MLI	0
MLT	2	MNE	0	MNG	0	MOZ	0	MRC	4	MTN	0	MWI	0	NCG	0	NGR	0	NIG	0	NMB	0	NOR	4
NPL	0	NRU	0	NZL	2	OMA	6	PAK	1	PHL	1	PNG	0	PNR	0	POL	0	POR	3	PRG	0	PRU	0
PSE	2	QAT	0	ROU	1	RRW	0	RUS	2	S	0	SDN	3	SEN	0	SEY	6	SLM	0	SLV	0	SMO	0
SMR	0	SNG	1	SOM	0	SRB	2	SRL	0	SSD	0	STP	0	SUI	2	SUR	0	SVK	5	SVN	2	SWZ	0
SYR	0	TCD	0	TGO	0	THA	0	TJK	0	TKM	0	TLS	0	TON	0	TRD	0	TUN	5	TUR	0	TUV	0
TZA	0	UAE	0	UGA	0	UKR	2	URG	0	USA	0	UZB	1	VCT	0	VEN	0	VTN	3	VUT	0	YEM	0
ZMB	2	ZWE	0																				

159 focal points notified by **62 Administrations**

If focal point not notified → BR will use official email addresses for notification services (BUT no myAdmin access then ☹)

myAdmin

Focal point only

Mailbox: BR Output Channel
Communication between the BR and the Member State

Notices under Review (GE06)

GE06D notices to be deleted in 30 days (in coordination since 2 years and 75 days): 49

GE06D

GE06D: assignments in the Waiting ReviewQ: 267

Export to Excel | Google Earth | Generate e-notice

Total number of records 49. Click on h

Adm Id	BR Id	Date of Receipt
KGZ/JAL/058	114088466	24 Jul 2014
KGZ/JAL/059	114088467	24 Jul 2014
KGZ/JAL/060	114088468	24 Jul 2014

GE06D

Export to Excel | Google Earth | Generate e-notice

Total number of records 267. Click on

Adm Id	BR Id	Adm	Intent	PE	Sit
0001-0099	115154418	NOR	ADD	4	FOI
0001-0100	115154416	NOR	ADD	4	SO
0001-0170	116098510	NOR	ADD	4	ÅRI
0001-0171	116098511	NOR	ADD	4	ÅFJ

Notices under conformity review: 2

GE06D

Export to Excel | Google Earth | Generate e-notices (Export to SGML)

Total number of records 2. Click on headers to sort

Adm Id	BR Id	Adm	Intent	PE	Site/Allot Name	TV Channel/Freq Block
GNCCBT621	116184059	GEO	ADD	3	DAMALA	9
GNCCBT622	116184060	GEO	ADD	3	AKHALKALAKI	11

Latest Special Sections annex to the latest BR IFIC (2834) on date 6 Dec 2016

Your proposed plan modifications **to be published (Internal site ONLY)**

Plan	Special Section	PubPart	Number of Notices
GE06	125	A1	4
GE06	125	B1	5

Plan modifications affecting your administration **to be published (Internal site ONLY)**

Plan	Special Section	PubPart	Number of Notices
GE06	125	A1	18

eBCD 2.0 Broadcasting Online

myAdmin

Focal point only

Plans and MIFR statistics

myAdmin

Your own office for broadcasting services at the ITU
(last update: 30 Nov 2016)

Adm(ITU) | MailBox | GE06D | GE06A | **GE84** | ST61 | GE75 | RJ81 | MIFR

Recorded Assignments	7513
Notices under treatment	85
Notices under treatment ready for Part B	22
Notices under treatment receiving objection	58
Notices under treatment which affect me	412
Notices under treatment which affect me I objected to	99
Comments given in the last period (30 days)	14
Comments received in the last period (30 days)	13

GE84/F

Total number of records 22. Click on headers to sort

Export to Excel | Google Earth | Generate TB3

BR Id	Adm	Site Name	Assigned Frequency	Intent	Special Section	End Date (Comments)	Coord Completed
116103589	F	POMMIERS	95.8	ADD	242		AUT BEL D E I LIE LUX MCO SUI
116103588	F	SAINTES BEAULIEU	105.3	MODIFY	242		E G
116112427	F	ISBERGUES	101.7	MODIFY	242		BEL D G HOL LUX SUI
116112426	F	LA FERTE BERNARD 2	95.8	MODIFY	242		AUT BEL D G HOL I LIE LUX SUI

GE84/Affected for F

Total number of records 412. Click on headers to sort

Export to Excel | Google Earth | Generate e-notices (Export to SGML)

BR Id	Adm	Site Name	Assigned Frequency	Intent	Special Section	End Date (Comments)	Coord Completed
116184619	G	RHYL C	103.1	ADD	246	2 Mar 2017	
116190417	G	MANCHESTER HULME C	90.1	ADD	246	2 Mar 2017	
116184631	LUX	Luxembourg	103.4	ADD	246	2 Mar 2017	BEL D F G HOL SUI
116184621	SUI	MALIX BRAMBRUEESCH	99.2	MODIFY	246	2 Mar 2017	AUT D F I LIE

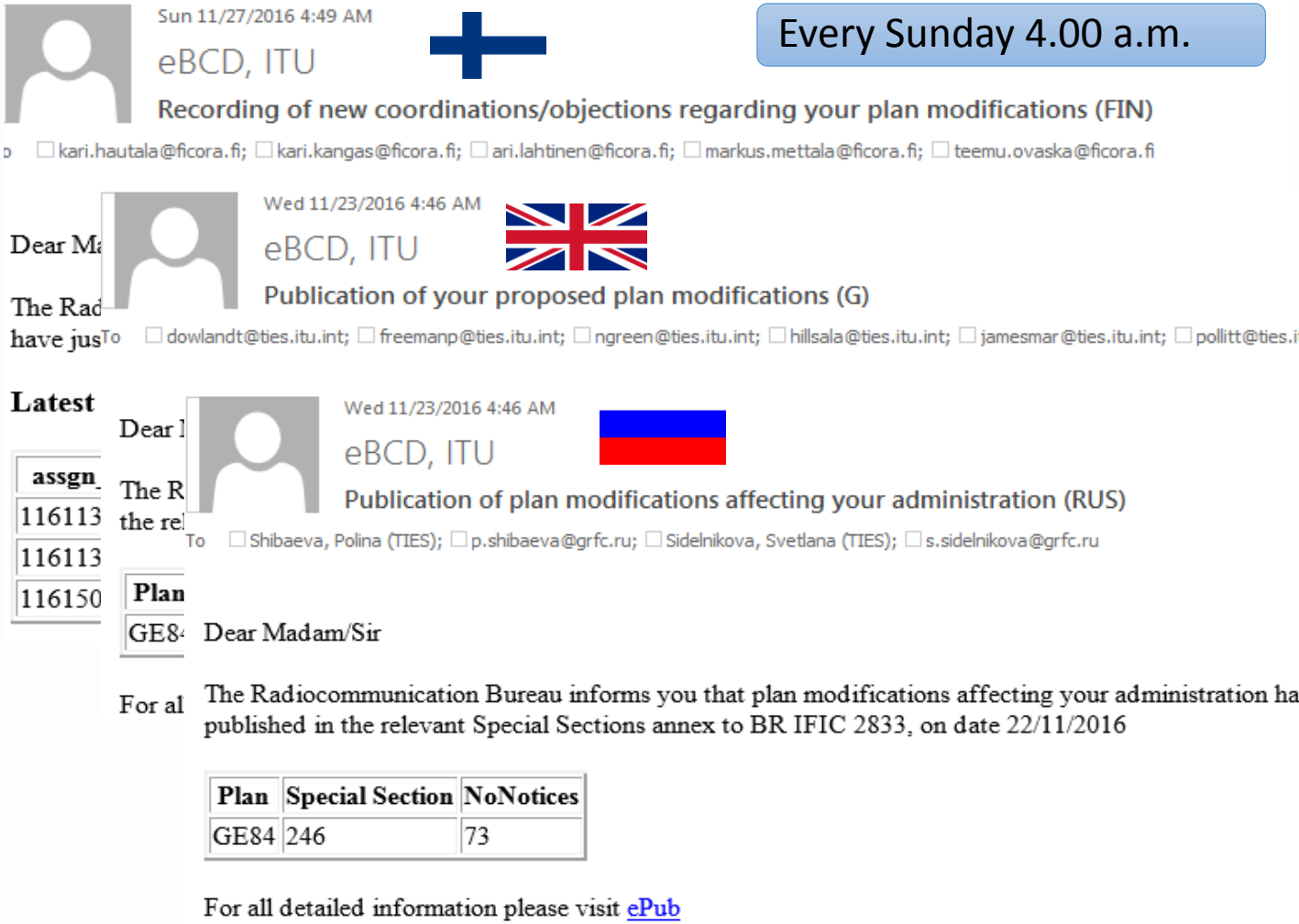
eBCD 2.0 Broadcasting Online

myAdmin

Focal point only

E-mail notification services

Every Sunday 4.00 a.m.



Sun 11/27/2016 4:49 AM

eBCD, ITU

Recording of new coordinations/objections regarding your plan modifications (FIN)

kari.hautala@ficora.fi; kari.kangas@ficora.fi; ari.lahtinen@ficora.fi; markus.mettala@ficora.fi; teemu.ovaska@ficora.fi

Wed 11/23/2016 4:46 AM

eBCD, ITU

Publication of your proposed plan modifications (G)

To dowlandt@ties.itu.int; freemanp@ties.itu.int; ngreen@ties.itu.int; hillsala@ties.itu.int; jamesmar@ties.itu.int; pollitt@ties.itu.int

Wed 11/23/2016 4:46 AM

eBCD, ITU

Publication of plan modifications affecting your administration (RUS)

To Shibaeva, Polina (TIES); p.shibaeva@grfc.ru; Sidelnikova, Svetlana (TIES); s.sidelnikova@grfc.ru

Dear Madam/Sir

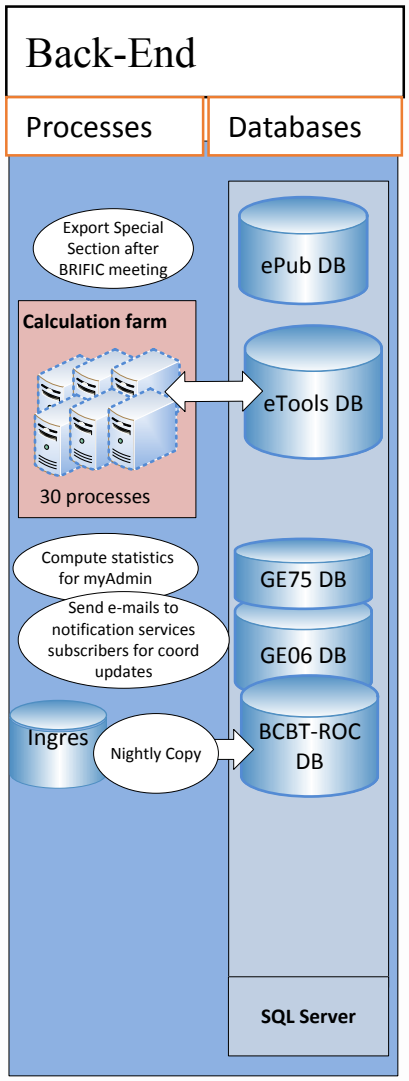
The Radiocommunication Bureau informs you that plan modifications affecting your administration have just been published in the relevant Special Sections annex to BR IFIC 2833, on date 22/11/2016

Plan	Special Section	NoNotices
GE84	246	73

For all detailed information please visit ePub

eBCD 2.0 Broadcasting Online

eBCD2.0 platform for broadcasting services



Front-End

eBCD 2.0 Broadcasting Online

ePub

"Special Sections, the publication day!"

eTools

"My test calculations on-demand"

eQry

"Fast search on Plans and MIFR"

myAdmin

Focal point only

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

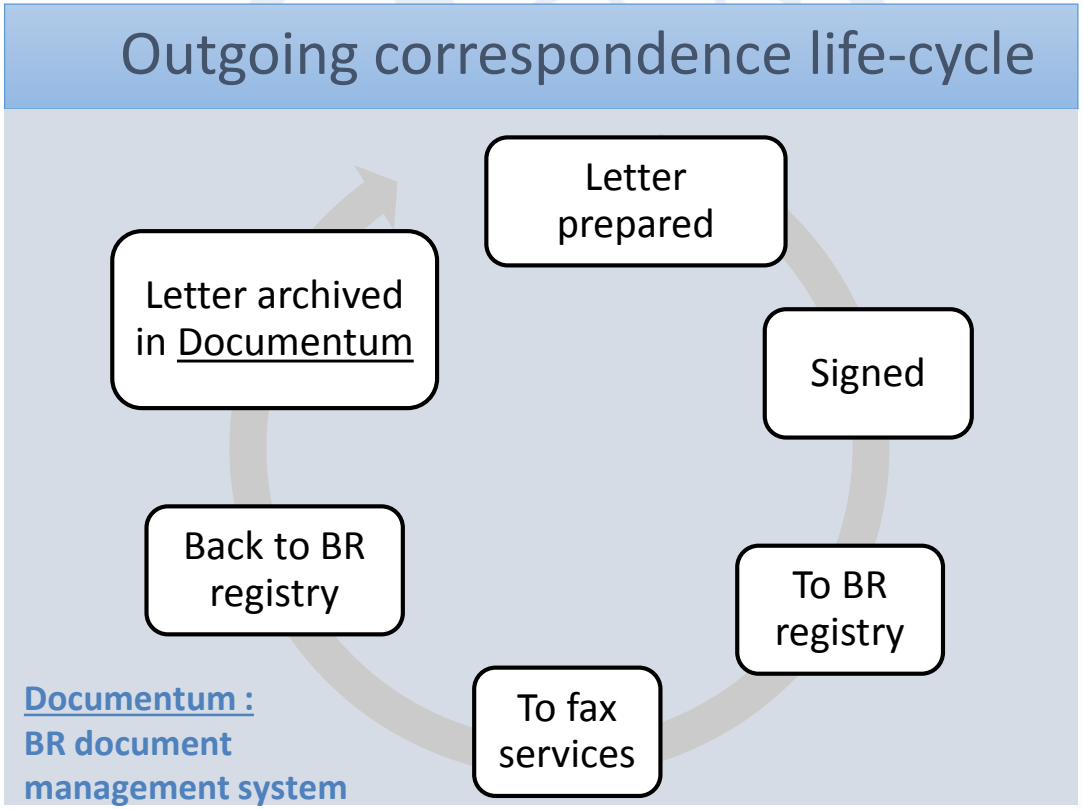
MailBox

- Latest Special Section
- Latest received agreements
- GE06 notices under review

E-mail notification services (Coordination, Special Section)

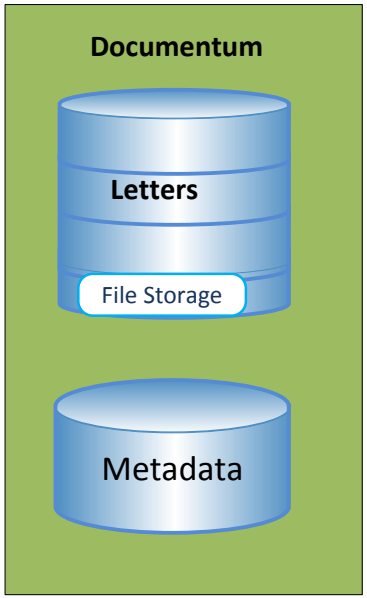
eBCD2.0 platform for broadcasting services

RRB request (May 2016): letters and remainders (GE06 4.1.4.10) should be received by Administrations by **other electronic means** in addition to FAX



eBCD2.0 platform: Documentum-myAdmin interface

Process to retrieve each night new ARCHIVED letters and related metadata
d_yesterday < d_sent < d_now



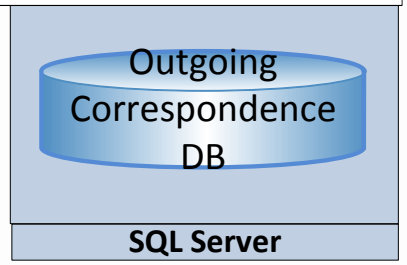
1) Retrieve pdf and metadata

- d_sent
- Rx Adms
- Language
- Plan Name
- Special Section
- Reminder Type

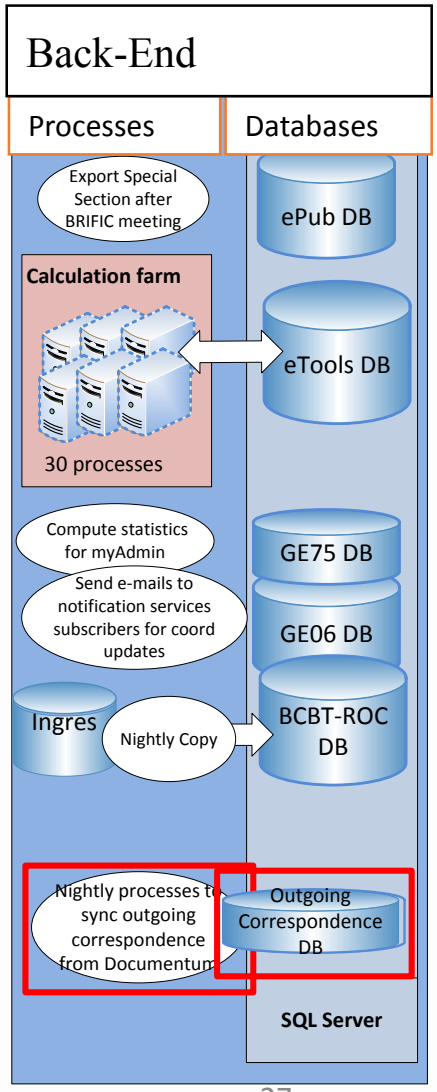
2) Determine:

- Date_deadline
- Date_reminder (if any)

3) Store data in myAdmin back-end database



eBCD2.0 platform for broadcasting services



Front-End

eBCD 2.0 Broadcasting Online

ePub — "Special Sections, the publication day!"

eTools — "My test calculations on-demand"

eQry — "Fast search on Plans and MIFR"

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

MailBox
- Latest Special Section
- Latest received agreements
- GE06 notices under review
- Outgoing Correspondence

E-mail notification services (coord. data, Special Section)

BR outgoing correspondence dashboard

Outgoing Correspondence dashboard

Select	Plan	Special Section	Lang	Reminder	Date_sent	Date_deadline	Date_reminder	Document	Not Ack	Ack	IsExposed	SrcUpdate
☑	GE84	242	S	GE84_70days_affected	19 Sep 2016	13 Oct 2016	25 Jul 2016	O-2016-003473	E		TRUE	fodetra
☑	GE84	244	S	GE84_0days_affected	28 Sep 2016	16 Nov 2016		O-2016-003654	E		TRUE	fodetra
☑	GE06	97	E	GE06_2y75days_earlywarn_notifier	29 Sep 2016	28 Dec 2016	18 Dec 2016	O-2016-003680	DNK		TRUE	castrojl
☑	GE06	97	E	GE06_2y75days_earlywarn_notifier	29 Sep 2016	28 Dec 2016	18 Dec 2016	O-2016-003681	KGZ		TRUE	castrojl
☑	GE06	97	E	GE06_2y75days_earlywarn_notifier	29 Sep 2016	28 Dec 2016	18 Dec 2016	O-2016-003682	TUR		TRUE	castrojl
☑	GE06	97	E	GE06_2y75days_earlywarn_notifier	29 Sep 2016	28 Dec 2016	18 Dec 2016	O-2016-003683	UKR		TRUE	castrojl
☑	GE06	119	E	GE06_4p1p4p10_affected	29 Sep 2016	8 Nov 2016	29 Oct 2016	O-2016-003686	G IRL		TRUE	manara
☑	GE06	119	F	GE06_4p1p4p10_affected	29 Sep 2016	8 Nov 2016	29 Oct 2016	O-2016-003687	BEL F		TRUE	manara
☑	GE84	242	F	GE84_70days_affected	19 Sep 2016	13 Oct 2016	25 Jul 2016	O-2016-003471	AND BEL LUX TUN	ALG F	TRUE	fodetra
☑	GE84	242	E	GE84_70days_affected	19 Sep 2016	13 Oct 2016	25 Jul 2016	O-2016-003451	AUT BLR CHN CZE D EST GRC HOL I KAZ LIE LTU MDA MNG POL S SVK SVN UKR UZB	FIN GEO LVA POR	TRUE	fodetra
☑	GE06	120	E	GE06_75days_notifier	3 Oct 2016			O-2016-003729	D		TRUE	manara
☑	GE06	120	E	GE06_75days_notifier	3 Oct 2016			O-2016-003737	NOR		TRUE	manara
☑	GE06	120	E	GE06_75days_notifier	3 Oct 2016			O-2016-003738	RUS		TRUE	manara
☑	GE06	121	F	GE06_50days_affected	5 Oct 2016	30 Oct 2016		O-2016-003785	BEL		TRUE	manara
☑	GE06	119	E	GE06_4p1p4p10_notifier	29 Sep 2016			O-2016-003688	G		TRUE	manara
☑	GE84	244	F	GE84_0days_affected	28 Sep 2016	16 Nov 2016		O-2016-003652	AND MCO TUN	BEL F LUX MRC SUI	TRUE	fodetra
☑	GE84	244	E	GE84_0days_affected	28 Sep 2016	16 Nov 2016		O-2016-003646	ALB ARM AUT AZE BIH CHN CZE D DNK GRC HNG HOL HRV I IRN KAZ LTU MDA MKD MNE MNG NOR POL RUS S SRB SVK TUR UKR	BLR BUL EST FIN G GEO IRL LVA POR ROU SVN	TRUE	fodetra
☑	GE06	121	E	GE06_50days_affected	5 Oct 2016	30 Oct 2016		O-2016-003763	D DNK I LTU MAU RUS S	CZE G IRL NOR SVK	TRUE	manara
☑	GE06	123	S	GE06_0days_affected	11 Oct 2016	25 Dec 2016		O-2016-003886	E		TRUE	castrojl
☑	GE06	123	E	GE06_0days_affected	11 Oct 2016	25 Dec 2016		O-2016-003880	AUT CZE D DNK G HOL HRV I IRL NIG POL SVN	POR	TRUE	manara
☑	GE06	123	F	GE06_0days_affected	11 Oct 2016	25 Dec 2016		O-2016-003883	BEL MTN TCD	ALG F	TRUE	manara

myAdmin

Focal point only

New E-mail notification services: Outgoing correspondence

Mon 11/14/2016 2:56 PM

eBCD, ITU

Special Section GE06/123 of BRIFIC No 2830 dated Tuesday, October 11, 2016 (ALG)

To maghraou@ties.itu.int; maghraouiimene@gmail.com; derrijj@ties.itu.int; derridjassia@gmail.com; Belaid, Hamza (TIES); belaidhamza@gmail.com

Cc Castro, Juan Luis

Dear Madam/Sir

On date Tuesday, October 11, 2016 the Bureau addressed you a correspondence (Ref. No.31B(BCD)O-2016-003883) concerning the above-mentioned Special Section.

The Bureau wishes to inform you that this correspondence is now available also in the Mailbox section of the myAdmin portal.

myAdmin

Your own office for broadcasting services at the ITU (last update: 30 Nov 2016)

Adm(ITU) | MailBox | GE06D | GE06A | GE84 | GE89 | GE75 | MIFR

Welcome user manara

BR Outgoing Correspondence (BETA release)

Plan	Special Section	Correspondence	Date Letter	Deadline	Document	Number of days for comment/action
GE84	245	Publication of Special Section	25 Oct 2016	14 Dec 2016	31E(BCD)O-2016-004155	14
GE06	123	Publication of Special Section	11 Oct 2016	25 Dec 2016	31B(BCD)O-2016-003883	25
GE84	243	70 days reminder	9 Nov 2016	8 Dec 2016	31E(BCD)O-2016-004412	8
GE84	242	70 days reminder	19 Sep 2016	13 Oct 2016	31E(BCD)O-2016-003471	expired

eBCD 2.0 Broadcasting Online

myAdmin: viewing letters in MailBox

Beta test since 14 November 2016 (**58 letters (from 15 Sep. 2016)** to **81 Administrations**)

First week of beta testing:

39 focal points from 29 different administrations have been reading the pdf files

myAdmin

Your own office at the ITU (last update: 21 Oct 2016)

Adm(ITU) | **MailBox** | GE06D | GE06A | GE84 | GE75 | RJ81 | MIFR

Welcome user manara

BR Outgoing Correspondence

Plan	Special Section	Language	Correspondence	Date Letter	Deadline
GE06	119	E	4.1.4.10 (notifier)	29 Sep 2016	N/A
GE06	123	E	Publication of Special Section	11 Oct 2016	25 Dec 2
GE84	244	E	Publication of Special Section	28 Sep 2016	16 Nov 2

Latest Special Sections annex to the latest BR IFIC (2831) o

Your proposed plan modifications **to be published (Internal site ONLY)**

Plan	Special Section	P
GE84	245	
GE84	245	

Plan modifications affecting your administration **to be published (Interr**

Plan	Special Section	P
GE84	245	

Notices under Review

GE06D: assignments in the Waiting ReviewQ: 4

myAdmin

Your own office at the ITU (last update: 4 Nov 2016)

Adm(ITU) | **MailBox** | GE06D | GE06A | GE84 | ST61 | GE75 | RJ81 | MIFR

Welcome user manara

BR Outgoing Correspondence

Plan	Special Section	Language	Correspondence	Date Letter	Deadline	Document	Number of days for comment/action
GE06	119	F	4.1.4.10	29 Sep 2016	8 Nov 2016	O-2016-003687	3
GE84	244	F	Publication of Special Section	28 Sep 2016	16 Nov 2016	O-2016-003652	11
GE75	153	F	Publication of Special Section	2 Aug 2016	22 Dec 2016	O-2016-002755	47

Latest Special Sections annex to the latest BR IFIC (2832) on date 8 Nov 2016

Your proposed plan modifications **to be published (Internal site ONLY)**

Plan	Special Section	PubPart	Number of Notices
GE06	124	A1	1

Plan modifications affecting your administration **to be published (Internal site ONLY)**

Plan	Special Section	PubPart	Number of Notices
GE06	124	A1	9

eBCD 2.0 Broadcasting Online

Online Validation

Delivered prior to WRS-14

The Online Validation tool allows administrations to validate their notice file, before official submission via WISFAT

The processing system is currently **ONLINE**
Contact: brtpr_dp@itu.int

New Validation | Logout

Refresh

Jobs History for user: manara

Test Packages 31412: click to show all

Job summary Delete

job id	job name	job status
31412	ugatest	Completed

Job Input

Adm	E-notice file	Number of Notices
UGA	UGAtest.txt	1

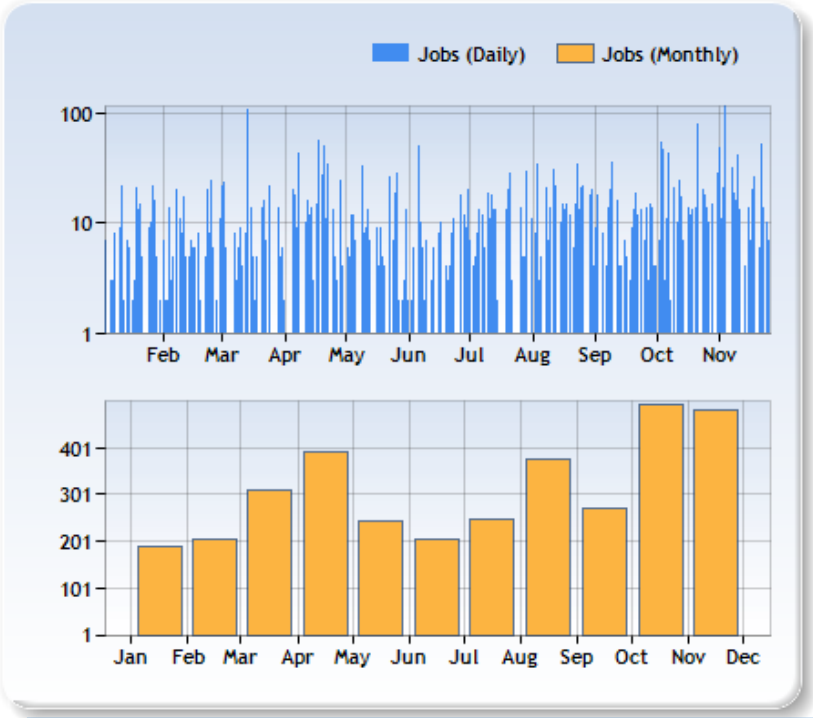
Job Output

Parse status: T_PARSE_HAS_WARNINGS
Total number of errors: 4
Total number of warnings: 1

Notice 1 (Line 4) - GT1/MODIFY
Line 4 : DeepVal Warning - Could not perform further notices validation checking, due to previous errors.
Line 1 (4) : Error : Either t_ref_plan_cfg OR t_sys_var & t_rx_mode should be submitted for this notice type.
Line 17 (20) : Error : t_ref_plan_cfg : invalid value or make sure that the value is typed correctly

Reuse TerRaNotice validation software, eTools functionalities in a SOA architecture

2016 Statistics



- 64 Administrations
- 163 Users
- > 4500 Validation jobs

eMIFR

NEW

Delivered prior to WRC-15

eMIFR

MIFR (Terrestrial Services) on-line query (BETA release)

MIFR (Broadcasting) MIFR (FXM) MIFR (all)

MIFR (ALL): Selection Criteria

Administration	Geographic Area	Notice Type	Class of Station
AFG AFS AGL ALB ALG ARG ARM ARS	ABW AFG AFS AGL AIA ALB ALG ALS	1A1 1A2 1A4 1A5 1A7 1B1 1C1 1Z0	AL FA FB FC FD FG FL FP AM BC BT

Status: Recorded Pending

Assigned Frequency: MHz f_{min} f_{max} $f_{min} \leq$ Assigned Frequency $\leq f_{max}$ only

Unique Id. code given by Admininistration

Identifier assigned by the BR from to

Date of Receipt (from) Date of Receipt (to)

Site Name: TORINO

Apply Filter Remove Filter

MIFR (All)

Total number of records 10. Click on headers to sort

Export to Excel Google Earth

BR Id	Adm	Geo Area	Site Name	Location	Assigned Frequency (MHz)	Intent		
080015495	I	I	TORINO	007°44'00" E - 45°02'00" N	0.657	RECORDED		
080225070	I	I	TORINO COLLINA	007°42'00" E - 45°06'00" N	212.5	RECORDED		
080606153	I	I	TORINO COLLINA	007°40'00" E - 45°04'00" N	522	RECORDED		
080607250	I	I	TORINO	007°44'00" E - 45°02'00" N	546	RECORDED		
080608609	I	I	TORINO	007°39'00" E - 45°04'00" N	578	RECORDED	1A4	BT
080610086	I	I	TORINO	007°44'00" E - 45°02'00" N	626	RECORDED	1A4	BT
103046152	I	I	TORINO	007°44'00" E - 45°02'00" N	746	RECORDED	TB2	BT
080623514	I	I	TORINO CASELLE	007°39'00" E - 45°11'00" N	1052	RECORDED	1B1	AM
080623522	I	I	TORINO CASELLE	007°39'00" E - 45°12'00" N	1056	RECORDED	1B1	AM
080623683	I	I	TORINO POIRINO	007°52'00" E - 44°55'00" N	1116	RECORDED	1B1	AM

Query system for the simultaneous retrieval of data from the terrestrial portion of the MIFR (FMTV, LFMF and FXM)

Administrative

Emission Characteristics

Assigned Frequency (MHz)	1052	Nature of Service	
Reference (carrier) Frequency		Frequency deviation (MHz)	
Class of Emission	PXX--	Energy dispersal (kHz)	
Bandwidth Code	700K	System Type Code(s)	

Station and Site Information

Operations

Operation 1

General Characteristics

Power Type	X	Polarization	
Power to the Antenna (dBW)	30	Antenna Directivity	
Radiated Power (dBW)	30 E	Azimuth of Maximum Radiation (°)	
Maximum Antenna Gain (dB)		Maximum Effective Antenna Height (m)	
Maximum Gain Toward the Local Horizon (dB)		Height of Antenna Above Ground Level (m)	
Gain Type		Elevation Angle (°)	
Maximum Power Density (dBW/Hz)		Beamwidth (°)	
		Reference Antenna	

Receiving Station Information

RX1

Site Name		Geographical Type	CIRCLE
Geographic Area		Zone ID	
Region	1	Geographical coordinates	007°39'00" E - 45°11'00" N
		Radius (km)	80

Findings Information

Online Tools survey

Please answer the 2016 online survey and help us improve our online service offer

Survey WRS 2014

- 15 Jan- 1 Mar2014 → 73 users from 22 Member States
- 30% replies (240 users consulted eBCD 2.0 in that period)
- New requested functionalities evaluated and most voted implemented (see Survey results)

Conclusion and outlook: Towards a fully electronic BR for terrestrial services?

- eBCD2.0 platform constantly improved and extended.
- SOA architecture, shows the flexibility of the system, which can be easily expanded to incorporate other online services.
- New Online Tools for terrestrial services (Online Validation and eMIFR)
- The platform might serve as a basis for online access to different BR databases, publication, correspondence and calculations, providing administrations with added value services.
- Your e-feedback is important! Please answer the 2016 online survey

"Thanks for your attention!"