

# Cross-border agreement in the band 790-862 MHz : CEPT/RCC framework agreement

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# WRC-12 Agenda Item 1.17

- WRC-12 agenda item 1.17 addresses the « sharing studies between the mobile service and other services in the band 790-862 MHz in Regions 1 and 3 »
- One issue relating to the borders between CEPT and RCC countries : the compatibility between Mobile Service and Aeronautical RadioNavigation Service

# Mobile Service in CEPT in the band 790-862 MHz

- ECC Decision(09)03 and EC Decision 2010/267/EU on harmonised technical conditions for the use of the band 790-862 MHz by the mobile service
- Draft EU Radio Spectrum Policy Programme includes an obligation to carry out the authorization process in the 800 MHz before 1st January 2013
- Channeling arrangement defined for FDD (same as for RCC) :
  - base station transmit : 791-821 MHz
  - mobile station transmit : 832-862 MHz
- Authorizations given in Germany and Sweden, Process initiated in France.

# RCC-CEPT in CPM

- Two opposed methods (keeping/suppressing agreement procedure under 9.21) from RCC and CEPT with an underlying debate : does the current 9.21 procedure allow deployment of mobile service in countries bordering countries operating ANRS ?
- Instead of disputing about a procedure, a « win-win » common position : « *If bilateral agreements are reached before WRC-12 with all countries having entered in these bilateral discussions in order to be able to deploy mobile service, it will show that the developed mechanism works appropriately and there is no need to change the status of the current allocations in the frequency band concerned* »

# RCC-CEPT Framework Agreement

- To be used as a starting point in bilateral discussions, based on symmetrical conditions for both administrations
- Examples of thresholds for protection of ARNS:
  - Field strength at the border of 46 (rural) or 34 (urban) dB $\mu$ V/m/MHz @ 10 m
  - Coordination distance from border of 11 km (rural) and 20 km (urban)
- Information to be given on existing stations (ie ARNS) in order to determine the interference environment of future mobile networks

# Coordination matrix

	BUL	D	DNK	EST	FIN	HNG	LTU	LVA	NOR	POL	ROU	S	SVK	TUR
ARM														C
AZE														C
BLR							C	C		C				
GEO														C
KAZ														
KGZ														
MDA														
RUS	C (TDD)	C (TDD)	C (TDD)	C	C		C	C	C	C		C (TDD)		C (TDD)
TJK														
TKM														
UKR						C				C	C		C	C
UZB														

C	required coordination agreement with ARNS;
C (TDD)	required coordination agreement with ARNS in case of TDD frequency arrangement;
C	information should be confirmed
	coordination agreement with ARNS is not required;

# Responsibility of RCC and CEPT administrations

- Decision № 44/1 of the BOARD OF THE COMMUNICATIONS ADMINISTRATIONS HEADS : “To recommend the interested RCC CAs to sign bilateral agreements with RCC CAs and CEPT on the matter of using the frequency band 790-862 MHz based on the coordinated documents”
- In ECC and CPG meetings, CEPT administrations have been invited to enter into bilateral discussions with relevant RCC countries. Review of the progress in CPG meeting in June 2011. In case of CEPT (ie “mobile service” side) concerned administration not taking the necessary steps to get such Agreement signed, this situation will not be taken into account in working towards the overall solution on agenda item 1.17.
- Actions at the European Union level for the same request to EU Member States

# In progress ...

- First signed agreement : A basic agreement between Hungary and Ukraine has been signed which includes the possibility for Hungary to implement LTE base stations up to 20 km from the border without coordination with ARNS. Furthermore they agreed that after Ukrainian party finishes LTE/ARNS compatibility test, distance mentioned in the Basic principles may be decreased
- Baltic countries / Russian Federation : meeting second week of august
- Finland / Russian Federation : meeting in autumn
- Many other meetings ... big effort from all sides to reach signed agreements in this frequency band before WRC-12. This is the responsibility of all CEPT and RCC countries.

# What about broadcasting ?

- WRC-12 Agenda item 1.17 will not affect the rights and obligations of administrations under GE-06
- However, cross-border compatibility between broadcasting and mobile services is difficult
- Therefore, it would be better to have cross-border discussions in case an administration wishes to implement an allotment/assignment in channel 61 to 69 : it is generally possible to find alternative solutions below channel 60 !

# Conclusions

- RCC and CEPT have put in place a win-win process respecting the right of administrations to use spectrum for mobile service while ensuring the protection of ARNS
- This is ultimately the responsibility of individual administrations to sign bilateral agreements which will ensure the success of this process
- As any cross-border coordination issue, administrations have all interest in discussing practical issues and identifying win-win solutions ...

Thank you for your attention  
Discussion and Questions?