

Wir stehen für **Wettbewerb** und **Medienvielfalt**.

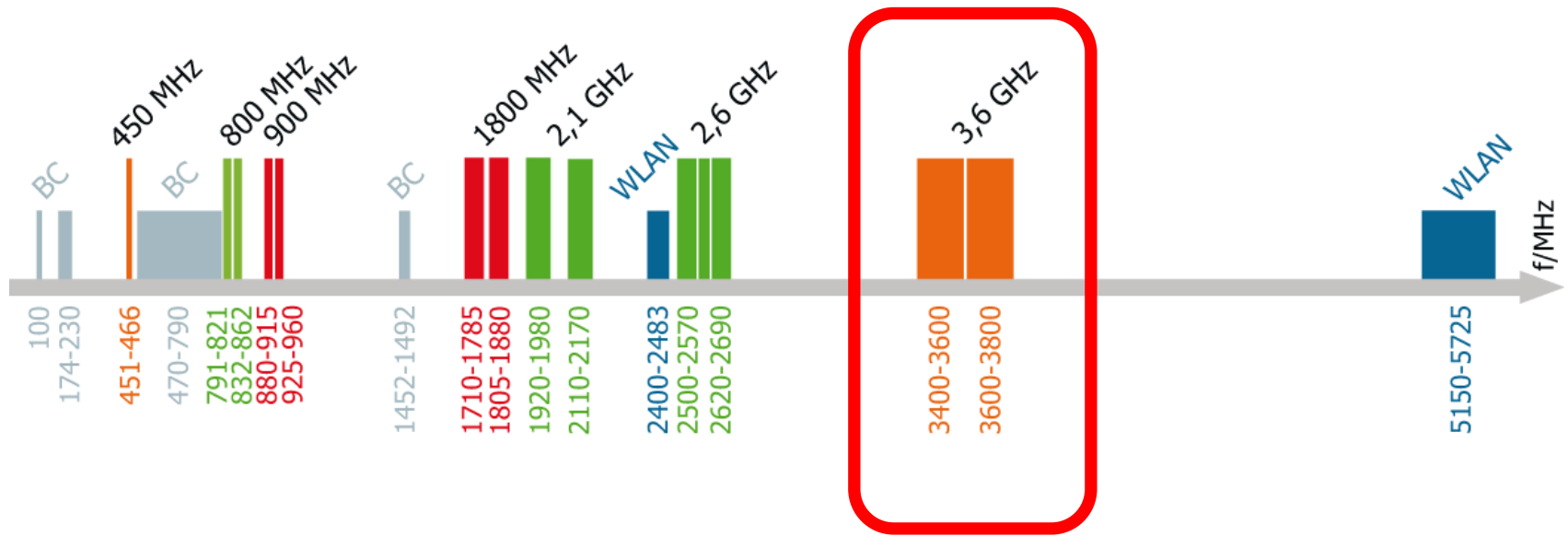
RTR

Update Frequenzen

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Frequency range 3.4 – 3.8 GHz



In Austria:

- 3,4 - 3,6 GHz regional licenses until 31.12.2019 (-> current tender)
- 3,6 - 3,8 GHz available



Radio Spectrum Committee - 3,4 - 3,8 GHz



3,4 – 3,8 GHz

Radio Spectrum Committee (RSC#47, document 13-47)

- EC study (inventory, 2012):
 - 3400-3410 Defence systems, some BWA, harmonised mobile band (IMT)
 - 3410-3600 Harmonised mobile band (IMT). Legacy BWA, defence and PMSE use
 - 3600-3800 Fixed satellite (downlinks): 48 satellites for global communications within Europe

- Stimulate demand:
 - Band shall be used for ECS in line with WAPECS (Wireless Access Policy for Electronic Communications Services)
 - Mix of macro cellular, small cell or backhaul use



3,4 – 3,8 GHz

Radio Spectrum Committee (RSC#47, document 13-47)

- New technical parameters (new annex for Decision EC 2008/411/EC)
 - New BEM (block edge masks) – stimulate demand

- Proposal of a preferred channel arrangement
 - FDD would lead to a 20% loss for WBB (wireless broadband) in 3,4-3,6 GHz
 - TDD would allow for asymmetric
 - TDD would allow for inband-backhauling
 - TDD would allow for higher spectrum efficiency with small cells
 - TDD might require guard channels and/or synchronisation

- Proposed implementation deadline: June 30, 2015.



3,4 – 3,8 GHz

Radio Spectrum Committee (RSC#47, document 13-47)

EC requests comments from Member States on:

1. Compatibility of existing WBB systems (FDD or TDD) in the 3.6 GHz band with the new technical framework of the draft CEPT Report 49 and potential issues.
2. The proposed implementation deadline for applying the new technical conditions, taking also into account the schedule of modification of licenses in line with the EU regulatory framework.
3. Coordination problems (in particular with FSS or FS/fixed-link deployments) for the deployment of WBB systems and their resolution at national or cross-border level.



CEPT - 3,4 – 3,8 GHz

3,4 – 3,8 GHz Band Plan – FDD versus TDD

- CEPT ECC – next meeting Nov. 5-8, 2013:

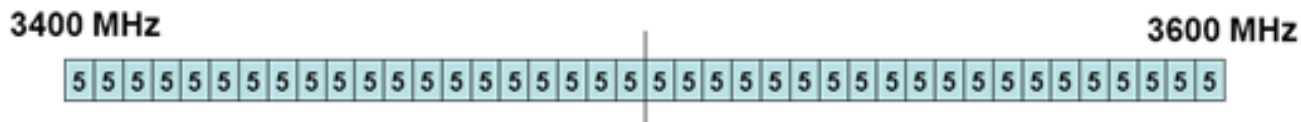


Figure 1: Frequency arrangement for the 3400-3600 MHz band based on TDD

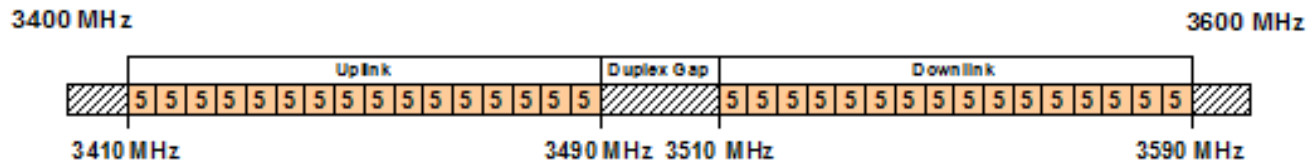


Figure 2: Frequency arrangement for the 3400-3600 MHz band based on FDD



Figure 3: Frequency arrangement for the 3600-3800 MHz band based on TDD



3,4 – 3,8 GHz Band Plan – FDD versus TDD

ECC meeting Nov. 5-8, 2013 – final decision on band plan:

- CEPT Draft Report 49
“Technical conditions regarding spectrum harmonisation for terrestrial wireless systems in the 3400-3800 MHz frequency band”
- CEPT Draft Report 203
“Least Restrictive Technical Conditions suitable for Mobile/Fixed Communication Networks (MFCN), including IMT, in the frequency bands 3400-3600 MHz and 3600-3800 MHz”



3,4 – 3,8 GHz Band Plan – FDD versus TDD

Question: What do operators prefer in 3,4-3,6 GHz?

- FDD or
- TDD or
- TDD + FDD

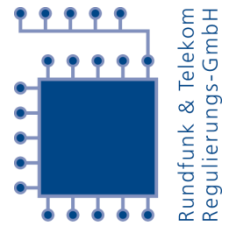


CEPT - Cross-border coordination



Cross-border coordination

- Ongoing work within CEPT PT1 on cross-border coordination – update rules to allow for technology neutrality and to include additional bands
- Oct. 3, 2012: Request to operators for input, single statement received
- Interest on further updates?



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