

## Questionnaire on cross-border agreements (EU and non EU) in the 3.4-3.8 GHz band

### Denmark

#### 5G / MFCN cross-border agreements:

- Do you have some MFCN use which is not in conformity with EU decision (xx) and when this legacy use is expected to switch-off?
  - Yes. Two small FDD-licenses. However, both licenses expire no later than 1 July 2021 or as soon as the band is licensed following an auction.
- What are the status of cross-border agreements applicable to 5G/MFCN in the 3.4-3.8 GHz with each of neighbouring countries (EU and non EU)? Do these agreements include elements regarding synchronization and frame structures? Is there a difficulty regarding the synchronisation with legacy MFCN networks (e.g. WiMax)?
  - Final drafts with the two relevant neighbours (Germany and Sweden) are ready for signature. With regards to synchronization no specific, default frame structure is set in the agreements. The agreements contain values to clearly incentivize operators to ensure either cross-border synchronization or mitigation techniques.
  - With regards to the legacy FDD services there are provisions to address the minor cross-border issues.
- How the risk of interference from 5G base station to 5G base station at the border is addressed? Is there any procedure for the case when real interference occurs (e.g. method of measurement, exchange of information, common measures, etc)?
  - If no crosss-border agreements between operators are made to ensure synchronization/mitigation, then the low field strength limits of ECC REC(15)01 apply per the bilateral agreements. The enforcement of this will be handled via the normal channels.

#### 5G / others services cross-border agreements:

- Could you describe the elements of cross-border agreements regarding the coexistence between 5G and other services in the 3.4-3.8 GHz band, (concerned services, coexistence method, expected impact on 5G deployment ...)?
  - No other services than MFCN (5G and legacy) are covered in the agreements. Only one satellite earth station is in operation in the band in Denmark and its geographical location makes it a non-cross-border issue (national only).

#### Cross border negotiation difficulties (EU and non EU)

- Do you meet any difficulty in current cross border negotiations (EU and non EU)?

- No.
- Could such difficulty impact 5G deployment and why?
  - No problems met.