

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

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. We have one old local (Harju county) WiMax licence for the use of 2X14 MHz, the switch-off should be on 31.01.2021 at the latest.

- 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)?

We have coordination agreements applicable to 5G/MFCN with EU neighbouring countries. We also are discussing the including of elements regarding synchronization and frame structures into agreements. We don't have appropriate coordination agreements with non-EU country (Russian Federation) and we are facing difficulties in concluding such agreement because of another type of service in Russian Federation and because mobile service has not status of primary service in Article 5 of ITU Radio Regulations.

- 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)?

The protection limits are based on the ECC Recommendations for cross-border coordination and calculations are based on ITU-R Recommendations. In case of real interference, the exchange of information between Administrations is very effective and frequently used.

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 ...)?

We have the same type of service with our EU neighbouring countries and the same plans in deploying 5G.

Cross border negotiation difficulties (EU and non EU)

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

Yes. With Russian Federation because of other type of service (fixed satellite on the primary basis) in Russian Federation. No difficulty with EU countries.

- Could such difficulty impact 5G deployment and why?

Yes. Due to very restrictive conditions for protection of receiving earth stations, especially in the upper part of the band the deployment of broadband mobile is limited geographically.

Practically all base stations should be coordinated in respect of notified incumbent fixed satellite stations and the conditions for the use are very restrictive. There is also no possibility to claim protection for mobile in the upper part of the band because it's secondary radio service according to Article 5 of ITU RR.