



Importance of synchronization in the 5G era

Infocom World Forum 2019

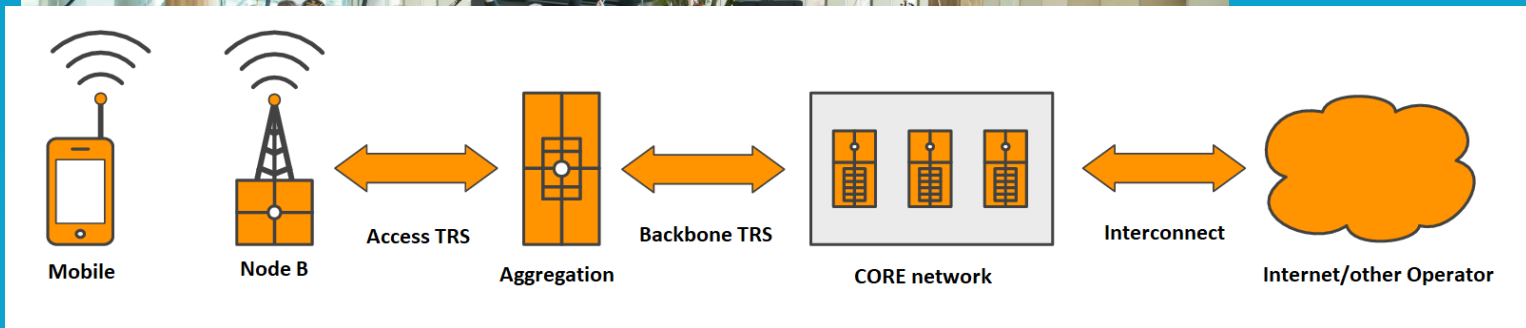
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Why we need to synchronize a Telecom network?

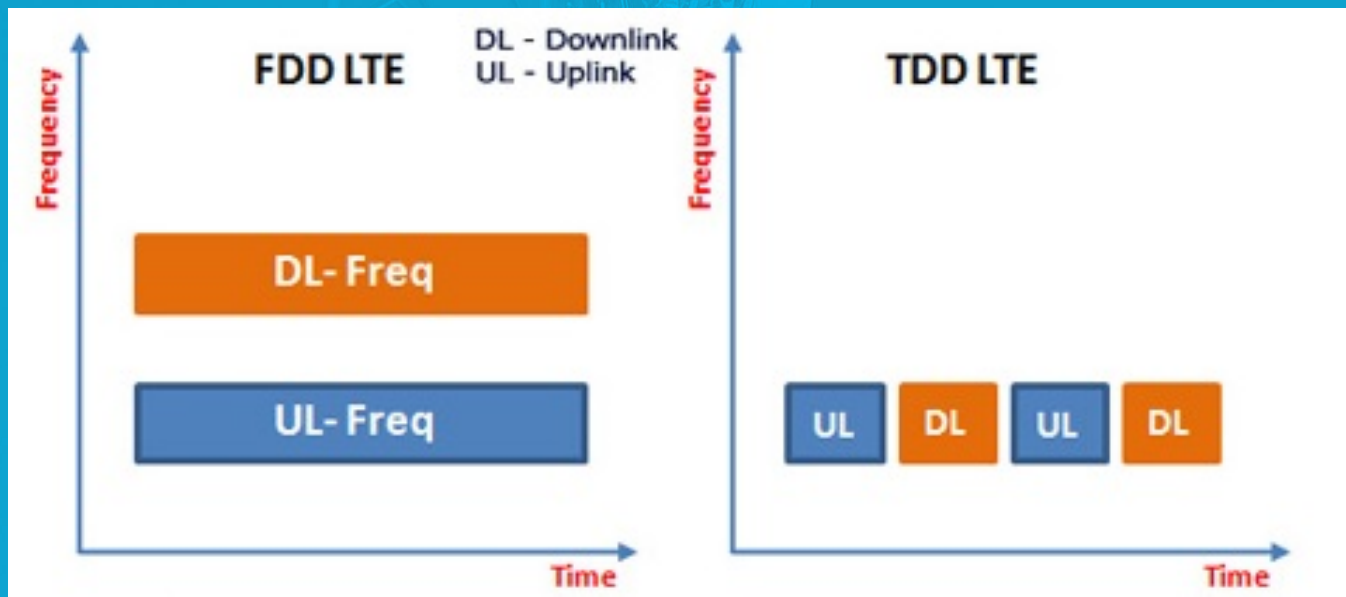


Conductor is a must!

Hungarian National Philharmonic

Synchronization for ALL network elements

5G – new air interface philosophy



New applications and requirements in 5G

- **Autonomous, self-driving cars - Low latency, High speed**
- **Industry 4.0, IoT applications – High concurrent connections, Low power consumption**
- **Private networks, Network Slicing – High speed, Low latency**
- **Fixed wireless connections for homes – High speed**

The most important 5G calling words

- Gigabit speed
- Low latency
- High(er) number of mobiles / cell (ex.: IoT sensors)

Bad/missing synchronization

- Megabit speed – similar in LTE-A networks
- Higher latency – similar as in LTE networks
- Lower number of mobiles / cell (ex.: IoT sensors)

**Slow increase of 5G penetration /
Slow Return of Investment!**



Thank you!

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Network
Synchronization
solutions