

Availability profiles

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Motivation

- In previous meetings we discussed about the correct measurement method as well as how long a channel shall be undisturbed in order to use it.
- Apart from the correct way to measure, different users might have different demands.
 - E.g. long haul “strategic” links on “one frequency, permanent data transmission
 - E.g. short haul “tactical” links, frequency agile, short data transmission
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- One single channel availability metric might lead to the wrong conclusions



Availability Profiles

- Tactical -> short availability (e.g. one minute)
 - Frequencies up to 2 to 30 MHz
 - Channel is available if its is not disturbed/occupied for one minute
- Long haul -> available if channel is available in X consecutive minutes
 - Frequencies up to 2 to 15/30 MHz?
 - E.g. Channel is available, if for 20 minutes not disturbed/occupied, where **two (non consecutive)** minutes might be disturbed (>90% availability)
- Calculate availability in 1 MHz in one hour (similar as today) , alternatively use the channel availability ratio as proposed by Thales at the last meeting.



Common

- Use active antenna (e.g. Clifton Labs)
- Noise estimation
- **Same data gathering**, distinction on analyses
- Report should contain:
 - Date, local-time, sunspot number, coordinates



Discussion

- The presented Profiles are just a introduction to the idea, by no means finished
- Any comments / suggestions welcome

