RP-233795

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What is Notification/Alert in NTN ?

Some observations

A Notification / Alert features for NR-NTN has been first proposed to RAN#101 in [1].

From the contribution we learn:

- **Paging could be missed -> notification to UE of a missed paging proposed**
- **Define "dedicated" notification/alert solution**
- **+18 dB increase proposed for low SNR scenarios**
- **Address new L1 channel, or enhanced L1 channel or L2/3 enhancements**

Questions we have:

- **Why is this particular to NTN, as this has never been proposed to 3GPP for TN ?**
- **Which scenario do we need to address precisely? {(rural) out of coverage} ?**
- **What is the message type and payload size ?**
  - Just a bit to indicate a missed paging ?
  - Vector information pointing user to better coverage ?
- **Which entity decides on the sending of the message ?**
- **Which entity decides on the content of the message ?**
- **What is the expected UE behavior if "out of coverage of an NTN cell" ?** (today UEs are in "any cell selection state" as defined in 38.304)
- **...**

[1] RP-231565

Our conclusions on Notification / Alert for NTN

The overall concept of NTN Notification / Alert is far from being clear in 3GPP !

We suggest an initial study defining requirements in SA1, studying Architecture impacts in SA2 and <u>after</u> that studying technical realization in RAN WGs (RAN1/2/3)

Thanks.