



Infotainment

RWS-210434

Volkswagen AG

Input to 3GPP Rel-18 WS

Sidelink positioning

Agenda item 4.2: Non-eMBB-driven Functional Evolution

Sidelink positioning

(out of coverage / partial out of coverage / in coverage)

Motivation:

Some V2X use cases like the VRU (Vulnerable Road User) protection require an accurate position of one UE relative to the other UE. The current positioning technologies such as GNSS don't provide sufficient information. A positioning enhancement, based on sidelink communication in the 5.9GHz ITS band is seen as one enabler of the VRU use case by complementing on-board sensors and existing positioning technologies.

Proposed Rel-18 work:

Improve lateral and longitudinal UE positioning accuracy in out of coverage / partial out of coverage / in coverage scenarios (related to Uu link) via sidelink communication in the 5.9GHz ITS band by complementing existing positioning technologies e.g. GNSS.

Implication to existing NR sidelink releases:

No implications seen.