NR UE feature

NR-based access to unlicensed spectrum

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| Features | Index | Feature group | Components | Prerequisite feature groups | Need for the gNB to know if the feature is supported | Applicable to the capability signalling exchange between UEs (V2X WI only)”. | **Consequence if the feature is not supported by the UE** | **Type**  **(the ‘type’ definition from UE features should be based on the granularity of 1) Per UE or 2) Per Band or 3) Per BC or 4) Per FS or 5) Per FSPC)** | Need of FDD/TDD differentiation | Need of FR1/FR2 differentiation | Capability interpretation for mixture of FDD/TDD and/or FR1/FR2 | Note | Mandatory/Optional |
|  | 4-1 | DL reception in intra-carrier guardband | Capability of reception in the non-zero intra-cell guardband between contiguous RB sets in DL wideband carrier operation wider than 20MHz. |  | yes | no | UE cannot receive in the guardband, it could only receive in the subbands | per Band | No | No |  |  | Optional with capability signalling |
|  | 4-2 | DL reception when gNB does not transmit on all RB-sets of a carrier | Capability of reception in a number of RB sets which is smaller than the number of RB sets of the DL wideband carrier wider than 20MHz. |  | yes | no | UE can guarantee the performance only when all RB sets of a carrier are scheduled by gNB | per Band | No | No |  |  | Optional with capability signalling |
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