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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** |
| 59. NR\_AIML\_air | 59-1-1 | UE-side beam prediction for BM Case1 | UE knows the RX beam corresponding to the predicted TX beam in set A if the predicted Tx beam is not QCL Type-D to a known TCI for BM Case-1Alt: UE can skip Rx beam sweeping time during TCI state switch toward the target predicted Tx beam in set A which is not QCL Type-D to a known TCI for BM Case-1. | Layer-1 FG: **58-1-2**  | yes | N/A | The network needs to transmit additional samples of reference signal corresponding to the predicted TX beam of set AAlt: Rx beam sweeping time can not be skipped during TCI state switch toward the target predicted Tx beam in set A which is not QCL Type-D to a known TCI for BM Case-1. | Per UE | TDD | FR2-1 only | N/A |  | Optional with capability signaling |
| 59. NR\_AIML\_air | 59-1-2 | UE-side beam prediction for BM Case2 | UE knows the RX beam corresponding to the predicted TX beam in set A if the predicted Tx beam is not QCL Type-D to a known TCI for BM Case-2Alt: UE can skip Rx beam sweeping time during TCI state switch toward the target predicted Tx beam in set A which is not QCL Type-D to a known TCI for BM Case-2. | Layer-1 FG: 58-1-4  | yes | N/A | The network needs to transmit additional samples of reference signal corresponding to the predicted TX beam of set AAlt: Rx beam sweeping time can not be skipped during TCI state switch toward the target predicted Tx beam in set A which is not QCL Type-D to a known TCI for BM Case-2. | Per UE | TDD | FR2-1 only | N/A |  | Optional with capability signaling |