| Definitions for parameters | Per | M | FDD-TDDDIFF | FR1-FR2DIFF |
| --- | --- | --- | --- | --- |
| ***codebookParameters***Indicates the codebooks and the corresponding parameters supported by the UE.Parameters for type I single panel codebook (type1 singlePanel) supported by the UE, which are mandatory to report:- *supportedCSI-RS-ResourceList*;- a UE shall support a minimum value of 4 for codebook type I single panel in FR1 in the case of a single active CSI-resource across all bands in a band combination;- a UE shall support a minimum value of 8 in case of wideband CSI report for codebook type I single panel in FR1 in the case of a single active CSI-resource across all bands in a band combination;- a UE shall support a minimum value of 2 for codebook type I single panel in FR2 in the case of a single active CSI-resource across all bands in a band combination.- *modes* indicates supported codebook modes (mode 1, both mode 1 and mode 2);- *maxNumberCSI-RS-PerResourceSet* indicates the maximum number of CSI-RS resource in a resource set.Parameters for type I multi-panel codebook (type1 multiPanel) supported by the UE, which are optional:- *supportedCSI-RS-ResourceList*;- *modes* indicates supported codebook modes (mode 1, mode 2, or both mode 1 and mode 2);- *maxNumberCSI-RS-PerResourceSet* indicates the maximum number of CSI-RS resource in a resource set;- *nrofPanels* indicates supported number of panels.Parameters for type II codebook (type2) supported by the UE, which are optional:- *supportedCSI-RS-ResourceList*;- *parameterLx* indicates the parameter "Lx" in codebook generation where x is an index of Tx ports indicated by *maxNumberTxPortsPerResource*;- *amplitudeScalingType* indicates the amplitude scaling type supported by the UE (wideband or both wideband and sub-band);- *amplitudeSubsetRestriction* indicates whether amplitude subset restriction is supported for the UE.Parameters for type II codebook with port selection (type2-PortSelection) supported by the UE, which are optional:- *supportedCSI-RS-ResourceList*;- *parameterLx* indicates the parameter "Lx" in codebook generation where x is an index of Tx ports indicated by *maxNumberTxPortsPerResource*;- *amplitudeScalingType* indicates the amplitude scaling type supported by the UE (wideband or both wideband and sub-band).*supportedCSI-RS-ResourceList* includes list of the following parameters:- *maxNumberTxPortsPerResource* indicates the maximum number of Tx ports in a resource;.- *maxNumberResourcesPerBand* indicates the maximum number of resources across all CCs within a band simultaneously;- *totalNumberTxPortsPerBand* indicates the total number of Tx ports across all CCs within a band simultaneously.For each codebook type, the UE may report another list of supported CSI-RS resources via *supportedCSI-RS-ResourceListAlt*. In this alternative list;- The UE shall report at least one triplet in *supportedCSI-RS-ResourceListAlt* with *maxNumberTxPortsPerResource* greater than or equal to 8 for FR1;- The UE shall report at least one triplet in *supportedCSI-RS-ResourceListAlt* with *maxNumberTxPortsPerResource* greater than or equal to 2 for FR2. | Band | FD | No | No |

---------------------------------------------END OF CHANGE---------------------------------------------