**Issue 1-3-1: detailed UE capability for CSSF enhancement**

**Solution 1 (measure one CC per band):**

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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** |
| 49. NR\_RRM\_Ph5 | 49-3 | L3 serving cell and neighbor cells measurement and report on one serving carrier per-band for intra-frequency measurements without measurement gap | Support of serving cell and neighbor cells measurement and report on one serving carrier per-band for intra-frequency measurements without measurement gap if multiple serving carriers are configured in a same band. |  | Yes |  | UE does not support serving cell and neighbor cells measurement and report on one serving carrier per-band for intra-frequency measurements without measurement gap if multiple serving carriers are configured in a same band. | Per-UE | No | FR2-1 only |  | UE indicating this capability shall meet the corresponding enhanced requirements in TS38.133 Clause 9.2.3.2, 9.1.5.1.1, 9.1.5.1.2, 9.1.5.1.3, and 9.1.5.1.4  | Optional with capability signaling |

 **Solution 3 (3 searchers):**

**This capability has been agreed in last meeting, and following is just to remove the square bracket**

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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** |
| 49. NR\_RRM\_Ph5 | 49-1 | Simultaneous L3 measurement on three carriers for measurements without measurement gap under CA/DC operation. | Support of measuring serving cell and neighbor cells measurement on three carriers simultaneously for measurements without measurement gap.Support of separate indications for different cases: {FR1 only CA and FR1 only NR-DC}, {FR1 only EN-DC}, {FR1+FR2 CA PCell is FR1 only}, and {FR1+FR2 NR-DC PCell is FR1 only}. |  | Yes |  | UE does not support measuring serving cell and neighbor cells on three carriers simultaneously for measurements without measurement gap. | Per-UE | No | No |  | UE indicating this capability shall meet the corresponding enhanced requirements defined in TS38.133 Clause 9.1.5.1.1, 9.1.5.1.2, and 9.1.5.1.3 if the feature is supported. | Optional with capability signaling |