**Background:**

**Issue 1-1-5: Revision of the agreement on applicability requirement**

Proposals

Option 1: (ZTE)

Since no matter the target frequency is same or not with the frequency of serving cell, the L3 SSB measurement on serving cell is always needed to be as the FBS activation/deactivation condition evaluation, the previous applicability requirement needs further revision as below:

**Applicability requirement:**

Baseline: L3 delay enhancements in Rel-19 by optimizing Rx BSF for UE supporting multi-rx simultaneous reception are applicable provided that:

The target carrier(s) to be measured: only one carrier in the single FR2-1 band is configured for L3 SSB measurement and

UE serving carrier(s): UE is configured with single carrier on FR2-1 band, i.e. FR2-1 PCell without CA/DC.

Note: Target and serving carrier frequency can be the same or different. When they are different, NW can configure L3 SSB measurement on both target carrier and serving carrier.

When two MOs are configured by NW, one is for PCC, the other is for the target frequency in which FBS is applicable, NW and UE should be aligned on which MO is the FBS target.

Recommended WF

Check whether the revision is needed.

Discuss whether and how to align NW and UE on which MO is the FBS target, and check if there is any RAN2 impacts.

Agreement:

         The FBS enhancement only applies for the case when the target and serving carrier frequency are same.

         FFS in maintenance which CC to apply the FBS when the target and serving carrier frequency are on different.

~~Tentative agreement:~~

~~Proposal (Moderator):~~

~~When the target and serving carrier frequency are different,~~

~~If the measurements on the target frequency and the measurements on the serving carrier frequency do not collide in time domain, FBS requirements apply for both CCs.~~

~~If the measurements on the target frequency and the measurements on the serving carrier frequency partial or fully collide in time domain, UE measures both CCs following the legacy way, i.e., FBS requirements do not apply for either of CCs.~~

~~Do NOT add one additional bit to differentiate the intra-frequency and inter-frequency in the UE capability for Rx BSF.~~

Session Chair: It is RAN4 common understanding that FBS requirement apply to intra-frequency measurement and inter-frequency measurement within measurement gap.

Agreement:

When the target and serving carrier frequency are different,

* FBS requirement does not apply to inter-frequency measurement without measurement gap.
* FFS inter-frequency measurement with per-FR measurement gap.
* Note: inter-RAT is not in the scope.

Based on above tentative agreement, in my understanding we do not need to differentiate (intra-frequency) and (intra-frequency + inter-frequency) any more (The yellow part is removed). And therefore the following UE capability for Rx BSF feature will be defined:

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 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 | 49-2 | Fast Rx beam sweeping factor for FR2-1 L3 measurement delay reduction | Supports fast Rx beam sweeping factor reduction for L3 measurement for FR2-1. |  | Yes | N/A | UE does not support fast Rx beam sweeping for FR2-1 L3 measurement delay reduction. | Per band | TDD only | FR2-1 only | N/A | Candidate values: {2, 4, 6} for FR2-1.  Note: It is only supported for power class 3. | Optional with capability signalling |