**3GPP TSG-RAN WG4 Meeting #112 R4-2413884**

**Maastricht, Netherlands, Aug. 19th – Aug. 23rd, 2024**

**Agenda item:** 8.21.3

**Source:** Ericsson

**Title:** Coffee break discussion minutes for [112][222] Netw\_Energy\_NR\_enh

**Document for:** Approval

# Introduction

This is the ad-hoc minutes for ad-hoc session for Netw\_Energy\_NR\_enh WI.

**Issue 2-2-2: Case 1 - OD-SSB based deactivated SCell measurement before OD-SSB indication**

* Proposals
	+ Option 1: Nokia, CMCC
		- The L3 deactivated SCell measurement requirement should be re-designed.
			* UE is not expected to perform any measurement on the deactivated SCell before OD-SSB is triggered.
				+ The existing measurement requirements for a deactivated SCell do not apply.
* Discussion
	+ Moderator: The issue includes both (Case #1, Scenario #2) and (Case #1, Scenario #2A)
* MTK: Unnecessary, no strong view.
* Apple: How to differentiate normal SCell and NES SCell?
* Nokia: Fine with the proposal.
* QC: It should be L3.
* Nokia: Up to other WGs to discuss indication
* ZTE: Do we need the FFS?
* Agreement:
	+ In (Case #1 Scenario #2) and (Case #1, Scenario #2A), UE is not expected to perform the SSB based deactivated SCell L3 measurement before OD-SSB is triggered.
		- Note: How to differentiate OD-SSB SCell and normal SCell depends on other WGs’ discussion.

**Issue 2-2-10: Case #1 and Scenario #2A - unknown SCell activation**

* Proposals
	+ Option 1: Nokia, CMCC, Ericsson, CATT
		- RAN4 shall specify the OD-SSB based unknown SCell activation delay in Case #1 and Scenario #2A.
			* Not to define known SCell activation in Case #1 and Scenario #2A
	+ Option 1a: Ericsson, CATT
		- When OD-SSB transmission is together with the SCell activation command, UE follows the legacy Rel-15 unknown SCell activation requirement once the unknown cell condition is met.
			* FFS: Clarify that the SSB used in activation procedure is on-demand SSB
			* FFS: the OD-SSB transmission time instance A
* Discussion
	+ Apple: There are some OD-SSB triggered before MAC-CE command.
	+ CMCC: It’s better to discuss known/unknown condition first.
	+ Intel: RAN4 can only focus on unknown case.
	+ Vivo: Apple’s scenario is covered in (Case #1, Scenario #2)
	+ Huawei: There are other scenarios together with (Case #1, Scenario #2).
	+ Intel: There are some other possible cases. Do we need to specify all of them?
	+ Xiaomi: RAN4 can preclude the transition case.
	+ Nokia: Clarify (Case #1, Scenario #2A) is only for the case no additional OD-SSB triggered before SCell activation command.
* Tentative agreement:
	+ Option 1: RAN4 to only define unknown SCell activation in (Case #1, Scenario #2A) provided that the OD-SSB is the first OD-SSB triggered by NW.
	+ Option 2: RAN4 only specifies requirements assuming the target SCell is unknown in (Case #1, Scenario #2A)
	+ Option 3: RAN4 needs to further consider the scenario (Case #1, Scenario #2A) together with the OD-SSB transmission in (Case #1, Scenario #2) for deactivated SCell OD-SSB measurement.

**Issue 2-4-3: Searcher assumption for OD-SSB**

* Proposals
	+ Option 1: vivo
		- RAN4 to discuss the searcher assumption of OD-SSB based cell identification, which would impact the CSSF of intra-frequency L3 or L1 measurements.
* Discussion

Moderator: Any CSSF enhancement is better to capture in NR\_RRM\_Ph5.

* Recommended WF
	+ Further discussion

Intel: We don’t need to touch CSSF in this WI.

Apple: Whether it can be covered by transition requirement.

Nokia: Related to NCD or CD?

QC: Not mix with searcher requirement here.

vivo: We can consider Apple’s proposal.