**3GPP TSG-RAN WG4 Meeting#112 R4-24135xx**

**Maastricht , NL, 19th – 23th Aug, 2024**

**Agenda item:**  8.x.x

**Source:** ZTE Corporation

**Title:** WF for BS parameters for 15GHz

**Document for: Approval**

# Agreement

Agreement:

**Issue 2-1: BS antenna array and sub-array size**

* Proposals
	+ Option 1: BS array size as 1536 and the sub-array size as 4 (CATT)
	+ Option 2: At least 1k elements (Qualcomm)
	+ Option 3: 1536=16x24 (Sub Array size 4) per polarization. (Nokia)
	+ Option 4: Two options based on the simulation assumptions (dual polarization): (Ericsson)
		- 2048 AEs: 8x32 array and 4x1 sub-array
		- 1536 AEs: 8x16 and 6x1 sub-array
* Recommended for further discussions
	+ 3072 AEs dual polarization :
		- 16x24 array and 4x1 sub-array
	+ 4096 AE dual polarization:
		- 16x32 array and 4x1 sub-array
	+ 2048 AE dual polarization:
		- 8x32 array and 4x1 sub-array
	+ 1536 AE dual polarization:
		- 8x16 and 6x1 sub-array

**Issue 2-2: BS antenna array size**

* Proposals
	+ Option 1: Prioritize 4x4 array for Indoor scenarios (Ericsson)
* Recommended WF
	+ Further discuss the proposals

**Issue 2-3: BS Output Power**

* Proposals
	+ Option 1: 43dBm (CATT)
	+ Option 2: 43 dBm for Urban Macro, 23 dBm for indoor, both with dual polarization. (Nokia)
	+ Option 3: Based on Scenario (Ericsson)
		- 43 dBm per polarization for Urban Macro and 23 dBm with dual polarization for Indoor.
		- For both scenarios BS output power is given per 100 MHz, so if wider channel bandwidth is considered, the PSD reduces.
* Recommended WF:
	+ 23dBm for dual polarization for indoor
	+ 46dBm for dual polarization for Urban macro

**Issue 2-4: BS noise factor**

* Proposals
	+ Option 1: 8 dB i.e. follow simulation assumption (CATT)
	+ Option 2: BS Type Dependent (Ericsson, Nokia)
		- 8 dB for Wide-Area BS
		- 13 dB for Medium Range BS
		- 16 dB for Local Area BS
* Agreement:
	+ - 8 dB for Wide-Area BS
		- 13 dB for Medium Range BS
		- 16 dB for Local Area BS

**Issue 2-5: BS power dynamic range**

* Proposals
	+ Option 1: 0 dB (CATT, Ericsson)
	+ Option 2: TBD
* Agreement:
	+ 0 dB

**Issue 1-1: Duplex Mode**

**Agreement:**

* + TDD as a baseline.
	+ Suggestion for TR text found in R4-2411521 which can be further discussed

**Issue 1-2: Channel Bandwidth**

**Agreement:**

* + For LS about 15GHz, choose the single value out of 100MHz, 200MHz or 400MHz as baseline with understanding that the other channel bandwidths are not precluded.

**Issue 1-6: Clarify in TR if Indoor deployments have 1 sector or 3 sector per node**

**Agreement:**

* + 1 sector per node and capture in TR

**Issue 1-8: Co-existence simulation assumptions and Adjacent channel modelling update to TR 38.922**

**Agreement:**

* + Revise R4-2412590 to capture co-existence simulation assumptions and R4-2411093 to capture Adjacent channel modelling in the TR