**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
  + 1536 AEs:
    - 16x24 array and 4x1 sub-array
    - 8x16 array and 6x1 sub-array
  + 2048 AEs:
    - 2048 AEs: 8x32 array and 4x1 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:
  + 23 dBm per polarization and dual polarization for indoor
  + 43dbm per polarization and 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