

LIAISON STATEMENT

Title: ETSI Evaluation Group Status

Date: 04 February 2021

From (source): **TC MSG, WG EVAL**

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Response to: **N/A**
(if applicable)

Attachments: **N/A**
(if applicable)

1. Overall description:

The ETSI Evaluation Group (ETSI EG) is the Working Group (WG) MSG EVAL of the Technical Committee (TC) Mobile Standards Group (MSG).

With this LS we want to inform that

- the work by ETSI EG on assessment of DECT-2020 NR as per Reports ITU-R M.2410, ITU-R M.2411 and ITU R M.2412 has reached a status allowing exchange of information with other IEG registered to ITU-R evaluating DECT-2020 NR in the “way forward option 2”.
- ETSI EG was able to conclude that DECT-2020 NR is able to support URLLC services.
 - o PHY configurations (see table below) have been evaluated with different transmit antenna array configurations. Maximum Ratio Combining (MRC) was employed at receiver-side. Selection of MCS: Most robust and able to carry at least 32 byte.

PHY Config	(μ, β)	Duration	SCS	MCS (TBS)	B	Number of antenna at UE	H-ARQ use?
1	(1,1)	416.667 μ s (10 symbols)	27 kHz	MCS 1 (296 bits)	1.728 MHz	4	no
2	(2,1)	208.333 μ s (10 symbols)	54 kHz	MCS 2 (368 bits)	3.456 MHz	4	no
3	(2,2)	208.333 μ s (10 symbols)	54 kHz	MCS 0 (288 bits)	6.912 MHz	4	no

- o We identified 3 channel re-use to work with certain Tx antenna array configurations and PHY configurations at 700 MHz and 4 GHz.

- We identified 7 channel re-use to allow operation at 700 MHz and 4 GHz with a quite high margin compared to the minimum required SINR for the reliability criterion.
- Further investigations by ETSI EG will deal with (4,1) and other configurations and the use of H-ARQ.
- ETSI EG has on-going work on mMTC with three partners from academia and two companies employing three independent system level simulations and one link level simulation platform. First results will be included in the interim report of ETSI EG to be submitted to the ITU-R WP 5D meeting in March 2021.

2. Actions:

- Consider exchange of information with ETSI EG on DECT-2020 NR evaluation topics as required.

3. Date of next meetings of the originator:**WG MSG EVAL #5**

Fri 12.2.2021 09 – 12 CET

WG MSG EVAL #6

Fri 19.2.2021 09 – 13 CET