**3GPP TSG RAN WG1 #101 R1-200nnn**

**e-Meeting, May 25th – June 5th, 2020**

**Agenda item:** 7.2.6.5

**Source:** Moderator (Ericsson)

**Title:** TP for eMIMO lowPAPR thread #1

**Document for:** Discussion and Decision

1. Analysis

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| Reasons for change | In 38.214, there is a missing case for determining the $n\_{ID}^{RS}$: “the higher-layer parameter dmrsUplinkTransformPrecoding-r16 is configured and π/2-BPSK modulation is not used for PUSCH”. |
| Summary of changes | Introduce the missing case in specifications |
| Specs/Sections impacted | TS 38.211 V16.1.0, section 6.4.1.1.1.2 |
| Consequences if not approved | The spec is either ambiguous or erroneous  |

1. Text proposal

TP for TS 38.211 V16.1.0

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| < Start TP for TS 38.211 V16.1.0>===========================================================================6.4.1.1.1.2 Sequence generation when transform precoding is enabled<unchanged text omitted>The sequence group $u=\left(f\_{gh}+n\_{ID}^{RS}\right) mod 30$, where $n\_{ID}^{RS}$ is given by- $n\_{ID}^{RS}=n\_{ID}^{PUSCH}$ if $n\_{ID}^{PUSCH}$ is configured by the higher-layer parameter *nPUSCH-Identity* in the *DMRS-UplinkConfig* IE and, - the higher-layer parameter *dmrsUplinkTransformPrecoding-r16* is not configured or the higher-layer parameter *dmrsUplinkTransformPrecoding-r16* is configured and π/2-BPSK modulation is not used for PUSCH, and - the PUSCH is neither scheduled by RAR UL grant nor scheduled by DCI format 0\_0 with CRC scrambled by TC-RNTI according to clause 8.3 in [5, TS 38.213];- $n\_{ID}^{RS}=N\_{ID}^{n\_{SCID}}$ if the higher-layer parameter *dmrs-UplinkTransformPrecoding-r16* is configured, π/2-BPSK modulation is used for PUSCH, the PUSCH transmission is not a msg3 transmission, and the transmission is not scheduled using DCI format 0\_0 in a common search space;- $n\_{ID}^{RS}=N\_{ID}^{cell}$ otherwise<unchanged text omitted>===========================================================================< End TP for TS 38.211 V16.1.0> |