**3GPP TSG- RAN WG1 #120 *2xxxxxx***

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| *CR-Form-v12.3* |
| **Draft CHANGE REQUEST** |
|  |
|  | **38.214** | **CR** | **-** | **rev** | **-** | **Current version:** |  |  |
|  |
| *For* [***HE******LP***](http://www.3gpp.org/3G_Specs/CRs.htm#_blank)*on using this form: comprehensive instructions can be found at* [*http://www.3gpp.org/Change-Requests*](http://www.3gpp.org/Change-Requests)*.* |
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| ***Proposed change affects:*** | UICC apps |  | ME |  | Radio Access Network |  | Core Network |  |

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|  |
| ***Title:***  | Introduction of UE-initiated/event-driven beam management |
|  |  |
| ***Source to WG:*** | Nokia |
| ***Source to TSG:*** | R1 |
|  |  |
| ***Work item code:*** | NR\_MIMO\_Ph5 |  | ***Date:*** | 2025-02-17 |
|  |  |  |  |  |
| ***Category:*** | **B** |  | ***Release:*** | Rel-19 |
|  | *Use one of the following categories:****F*** *(correction)****A*** *(mirror corresponding to a change in an earlier release)****B*** *(addition of feature),* ***C*** *(functional modification of feature)****D*** *(editorial modification)*Detailed explanations of the above categories canbe found in 3GPP [TR 21.900](http://www.3gpp.org/ftp/Specs/html-info/21900.htm). | *Use one of the following releases:Rel-8 (Release 8)Rel-9 (Release 9)Rel-10 (Release 10)Rel-11 (Release 11)…Rel-17 (Release 17)Rel-18 (Release 18)Rel-19 (Release 19) Rel-20 (Release 20)* |
|  |  |
| ***Reason for change:*** | Introduction of UE-initiated/event-driven beam management |
|  |  |
| ***Summary of change:*** | Introduction of UE-initiated/event-driven beam management |
|  |  |
| ***Consequences if not approved:*** | UE-initiated/event-driven beam management would not be supported |
|  |  |
| ***Clauses affected:*** |  |
|  |  |
|  | **Y** | **N** |  |  |
| ***Other specs*** | **X** |  |  Other core specifications  | TS 38.212, 38.213 |
| ***affected:*** |  | **X** |  Test specifications | TS/TR ... CR ...  |
| ***(show related CRs)*** |  | **X** |  O&M Specifications | TS/TR ... CR ...  |
|  |  |
| ***Other comments:*** |  |
|  |  |
| ***This CR's revision history:*** |  |

<omitted text>

5.2.1.5.4 Event-triggered reporting (NEW)

For a UE configured with a *CSI-ReportConfig* with the higher layer parameter *eventType-r19* set to ‘event2’, for periodic reference signals with the same periodicity,

if during the *eventDetectionTimeWindowLength-r19,* the L1-RSRP [measured and counted independently] for *eventInstanceCount-r19* times for any of the reference signals configured by *newBeamResourceSetEvent2-r19* is an *eventThreshold-r19* greater than the L1-RSRP of

- the reference signal indicated by the DCI field *tci-PresentInDCI if* the *NZP-CSI-RS-ResourceSet* is configured with *repetition* set to 'on', else

- the SSB which is QCLed with the measured reference signal,

the UE transmits ‘0’ on a PUCCH format 0 or format 1 indicated by *firstPUCCHResourceConfig-UEIBR-r19*, and

the UE reports *nrofReportedRS-UEIBR-r19* CRIs and, when *enabledCurrentBeamReport-r19* is configured as ‘yes’, the reference signal indicated by the DCI field *tci-PresentInDCI*, or the SSB which is QCLed with this reference signal:

- on PUSCH if *reportTransmissionMode-r19* is configured as ‘ModeA’ and as indicated by the CSI trigger state in the CSI request field in DCI format 0\_1/0\_2, or

- on CG-PUSCH if *reportTransmissionMode-r19* is configured as ‘ModeB’ and as indicated by *configuredResourceForSecondChannelOfModeB-r19* and *X* symbols after sending the PUCCH , and where the periodicity of the PUCCH and CG-PUSCH channels is the same.

For a UE configured with a *CSI-ReportConfig* with the higher layer parameter *eventType-r19* set to ‘event7’, for periodic reference signals with the same periodicity,

if during the *eventDetectionTimeWindowLength-r19,* the L1-RSRP [measured and counted independently] for *eventInstanceCount-r19* times for any of the periodic activated TCI state reference signals configured by *tci-StatesToAddModList* is an *eventThreshold-r19* greater than the L1-RSRP of the reference signal with the *valueOfQ-r19* highest L1-RSRP out of the activated TCI state reference signals,

the UE transmits ‘0’ on a PUCCH format 0 or format 1 indicated by *firstPUCCHResourceConfig-UEIBR-r19*, and

the UE reports *nrofReportedRS-UEIBR-r19* CRIs:

- on PUSCH if *reportTransmissionMode-r19* is configured as ‘ModeA’ and as indicated by the CSI trigger state in the CSI request field in DCI format 0\_1/0\_2, or

- on CG-PUSCH if *reportTransmissionMode-r19* is configured as ‘ModeB’ and as indicated by *configuredResourceForSecondChannelOfModeB-r19* and *X* symbols after sending the PUCCH, and where the periodicity of the PUCCH and CG-PUSCH channels is the same.

For a UE configured with a *CSI-ReportConfig* with the higher layer parameter *eventType-r19* set to ‘event1’, …

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