**3GPP TSG-WG1 Meeting #106bR1-21xxxxx**

**e-meeting, October 11 – 19, 2021**

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| *CR-Form-v12.0* |
| **DRAFT CHANGE REQUEST** |
|  |
|  | **36.211** | **CR** | **xxx** | **rev** | **x** | **Current version:** | **16.7.0** |  |
|  |
| *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 | **X** | Radio Access Network | **X** | Core Network |  |

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| ***Title:***  | Introduction of new bandwidths for 5G broadcast |
|  |  |
| ***Source to WG:*** | Ericsson |
| ***Source to TSG:*** |  |
|  |  |
| ***Work item code:*** | LTE\_terr\_bcast\_bands\_part1 |  | ***Date:*** | 2021-11-02 |
|  |  |  |  |  |
| ***Category:*** | B |  | ***Release:*** | Rel-17 |
|  | *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-12 (Release 12)**Rel-13 (Release 13)Rel-14 (Release 14)Rel-15 (Release 15)Rel-16 (Release 16)* |
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| ***Reason for change:*** | Introduction of new bandwidths for 5G broadcast |
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| ***Summary of change:*** | Added a statement on which bandwidth to use for broadcast |
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| ***Consequences if not approved:*** | Incomplete support for 6/7/8 MHz bandwidths |
|  |  |
| ***Clauses affected:*** | 6.5 |
|  |  |
|  | **Y** | **N** |  |  |
| ***Other specs*** |  | **X** |  Other core specifications  |  |
| ***affected:*** |  | **x** |  Test specifications | TS/TR ... CR ...  |
| ***(show related CRs)*** |  | **x** |  O&M Specifications | TS/TR ... CR ...  |
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| ***Other comments:*** |  |
|  |  |
| ***This CR's revision history:*** |  |

## 6.5 Physical multicast channel

The physical multicast channel shall be processed and mapped to resource elements as described in clause 6.3 with the following exceptions:

- No transmit diversity scheme is specified.

- Layer mapping and precoding shall be done assuming a single antenna port and the transmission shall use antenna port 4.

- The PMCH can only be transmitted in the MBSFN region. For PMCH with Δ*f* = 15 kHz, the index  in the first slot in the MBSFN subframe fulfils  where  is equal to the value given by the higher layer parameter *non-MBSFNregionLength* [9].

- The PMCH shall use extended cyclic prefix.

- The PMCH is not mapped to resource elements used for transmission of MBSFN reference signals.

- In clause 6.3.1, for Δ*f* = 1.25 kHz and Δ*f* ≈ 0.37 kHz, the scrambling generator shall be initialised at the start of each slot.

- For  the following exception applies to clause 6.3.5:

- The text "which meet all of the following criteria in the current subframe" shall be replaced by "which meet all of the following criteria in the current slot"

- The mapping to resource elements on antenna port not reserved for other purposes shall be in increasing order of first the index over the assigned physical resource blocks and then the index .

- For PMCH symbols belonging to an MBSFN area with configured, shall be replaced by in clauses 6.3, 6.10.2, and 6.12.