**3GPP TSG-RAN WG2 Meeting #109bis-e R2-200**

**Electronic, 20 April – 30 April 2020**

**Agenda Item: 6.19 Other NR Rel-16 WIs/SIs**

**Source: CMCC**

**Title: Summary for views on NR HST CRs**

**Document for: Discussion and decision**

# 1 Introduction

Agreements in RAN2#109-e on RAN2 signaling design for NR HST:

Agreements [AT109e][050][R16 Other WISI]

* Introduce network assistant signalling in the IE ServingCellConfigCommon and IE ServingCellConfigCommonSIB to enable the enhanced RRM requirements for Rel-16 NR HST.
* Introduce network assistant signalling in the IE ServingCellConfigCommon and IE ServingCellConfigCommonSIB to enable the enhanced UE demodulation requirements for HST-SFN deployment with joint transmission scheme for Rel-16
* Introduce new UE capability for NR HST to indicate whether UE is capable of supporting the enhanced RRM requirements.
* Introduce new UE capability for NR HST to indicate whether UE is capable of the enhanced demodulation processing for HST-SFN joint transmission scheme with velocity up to 500km/h.

CMCC prepared the corresponding CRs [1-2] in this meeting based on above agreements. This paper is to collect companies’ views on HST CRs based on [R2-2003508](file:///D%3A%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2%5CTSGR2_109bis-e%5CDocs%5CR2-2003508.zip) and [R2-2003509](file:///D%3A%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2%5CTSGR2_109bis-e%5CDocs%5CR2-2003509.zip) [1-2].

**[AT109bis-e][047][NR16 Other] NR HST (CMCC)**

Scope: Treat papers above on NR HST. If convergence is difficult, this may be treated on-line.

Wanted Outcome: Agreed-in-principle CRs

Deadline: April 28 0700 UTC

# 2 Companies’ views on HST CRs

**Q1: Whether 38.331 CR for HST in** [**R2-2003508**](file:///D%3A%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2%5CTSGR2_109bis-e%5CDocs%5CR2-2003508.zip) **is agreeable?**

|  |  |  |
| --- | --- | --- |
| **Company** | **Y/N** | **Comments** |
| CMCC | Yes |  |
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**Q2: Whether 38.306 CR for HST in** [**R2-2003509**](file:///D%3A%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2%5CTSGR2_109bis-e%5CDocs%5CR2-2003509.zip) **is agreeable?**

|  |  |  |
| --- | --- | --- |
| **Company** | **Y/N** | **Comments** |
| CMCC | Yes |  |
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The CRs are provided for Rel-16. But for operators, in order to meet the strong requirement for the HST market, it is preferable to allow UE early implementation in Rel-15.

Background: The Rel-14 LTE HST feature is early implemented from Rel-13 without RAN2 specification change [3].

**Q3: Is it acceptable for you to allow HST feature (including RRM enhancement and UE demodulation enhancement) to be early implemented by UE in Rel-15?**

|  |  |  |
| --- | --- | --- |
| **Company** | **Y/N** | **Comments** |
| CMCC | Yes | From RAN2 point of view, HST early implementation for R15 UEs can be allowed.  |
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# Reference

1. [R2-2003508](file:///D%3A%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2%5CTSGR2_109bis-e%5CDocs%5CR2-2003508.zip) 38.331 CR on introduction of RRC parameters and UE capabilities for Rel-16 NR HST CMCC, Huawei, HiSilicon, CATT CR Rel-16 38.331 16.0.0 1464 2 B NR\_HST R2-2002085
2. [R2-2003509](file:///D%3A%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2%5CTSGR2_109bis-e%5CDocs%5CR2-2003509.zip) 38.306 CR on introduction of UE capabilities for Rel-16 NR HST CMCC, Huawei, HiSilicon, CATT CR Rel-16 38.306 16.0.0 0242 2 B NR\_HST R2-2002086

[3] R2-1705861, Reply LS on supporting Rel-14 feature of performance enhancement for high speed scenarios from Rel-13 UEs