3GPP TSG-RAN WG2 Meeting #131bis R2-250xxxx

Prague, Czech Republic, 13th – 17th October, 2025

**Agenda item: 8.11.3**

**Source: CATT**

**Title: [Post131bis][214][SBFD] CR for TS 38.300 (CATT)**

**Document for: Discussion and Decision**

# Introduction

The following email discussion is to discuss how to update the stage-2 CR for Rel-19 Evolution of NR duplex operation (SBFD), taking into account proposals and TPs in R2-2506823, R2-2507002 and R2-2507364:

* [Post131bis][214][SBFD] CR for TS 38.300 (CATT)

Intended outcome: Update the CR for endorsement

Deadline: Short

# Discussion

In this email discussion we will discuss how to update stage-2 CR following these TPs from companies:

- CFRA triggered by dedicated RRC signalling and MAC CE from R2-2506823 and R2-2507364;

- CBRA RO selection for initial PRACH transmissions from R2-2506823, R2-2507002, and R2-2507364;

- SBFD transmission/reception configuration 2 and SBFD RACH configuration option from R2-2507002.

## CFRA triggered by dedicated RRC signalling and MAC CE

Reason to change: RO type selection/indication via the PDCCH order has been provided by RAN1 in the stage-2 spec, so more cases for the CFRA RO type selection from RAN2’s perspective should be provided accordingly. There are two candidate TPs for selection by companies.

* **Option A from R2-2506823**

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| For CFRA triggered by PDCCH order, an SBFD aware UE can be explicitly indicated in the PDCCH order whether to use eitherthe first PRACH occasions or the second PRACH occasions as specified in TS 38.213 [38], for the PRACH transmission. For CFRA triggered by BFR or ReconfigurationwithSync, an SBFD aware UE can be explicitly indicated whether to use either the first PRACH occasions or the second PRACH occasions as specified in TS 38.213 [38] is used, as specified in TS 38.331 [12]. |

* **Option B from R2-2507364**

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| For CFRA triggered by PDCCH order, an SBFD aware UE can be explicitly indicated in the PDCCH order, the LTM Cell Switch Command MAC CE or dedicated RRC signalling whether to use eitherthe first PRACH occasions or the second PRACH occasions as specified in TS 38.213 [38], for the PRACH transmission. |

Option B's TP appears more straightforward from the rapporteur's perspective. Companies are invited to review above two TPs and provide the preference and comments as below:

**Q 1. Which option do you prefer?**

* Option A from R2-2506823
* Option B from R2-2507364

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| **Company** | **Option A/B** | **Suggested descriptions if any** |
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Summary:

## CBRA RO selection for initial PRACH transmissions

Reason to change: RO type selection/indication via the PDCCH order has been provided by RAN1 in the stage-2 spec, so CBRA RO type selection from RAN2’s perspective should be provided accordingly. There are two candidate TPs for selection by companies.

* **Option A from R2-2506823 and R2-2507002**

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| For initial Random Access transmission in CBRA, either the first PRACH occasions or the second PRACH occasions can be indicated by network as specified in TS38.321 [6]. When no RO type indication but an RSRP threshold for the selection of the initial RO type is provided by the network, the UE shall select the PRACH occasions type based on the RSRP threshold as specified in TS 38.321 [6]. In the absence of both network RO type indication and RSRP threshold configuration, the PRACH occasions type selection is up to UE implementation. |

* **Option B from** **R2-2507364**

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| For CBRA, the network can configure a cell specific indication in SI whether to use eitherthe first PRACH occasions or the second PRACH occasions. If there is no cell specific indication, the UE selects the PRACH occasions based on an SSB RSRP threshold provided in SI. |

Option A's TP seems to address all possible cases with greater accuracy according to the rapporteur's assessment. Companies are invited to review these two TPs and provide the preference and comments as below:

**Q 2. Which option do you prefer?**

* Option A from R2-2506823 and R2-2507002
* Option B from R2-2507364

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| **Company** | **Option A/B** | **Suggested descriptions if any** |
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Summary:

## SBFD transmission/reception configuration 2 and SBFD RACH configuration option

* Reason to change #1: The current texts could be misunderstood as both SBFD symbols and non-SBFD symbols are used for each one of the multiple transmission/reception occasions, which is not correct.

Suggested TP from R2-2507002 can be found as below:

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| 23.1 General  \*\*\*\*\*\*\*skip the unchanged\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  A UE can be configured to transmit or receive only in non-SBFD symbols, only in SBFD symbols, or in both SBFD symbols and non-SBFD symbols across multiple transmission or reception occasions. |

* Reason to change #2: It is suggested to add "SBFD" before RACH configuration option to clarify that the said RACH configuration options are specific for SBFD operations, as there are RACH configuration options for other purposes/functions.

Suggested TP from R2-2507002 can be found as below:

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| Two RACH configuration options are specified for SBFD RA operation in TS 38.331 [12]. A cell can configure only one SBFD RACH configuration option. This can be either: 1) A single RACH configuration that supports both non-SBFD RA operation and SBFD RA operation, or 2) A dual RACH configuration where a RACH configuration is used for non-SBFD RA operation and an additional RACH configuration is designated for SBFD RA operation, as specified in TS 38.331 [12]. An SBFD aware UE that supports the SBFD RACH configuration option configured in the cell applies the corresponding RACH configuration. Otherwise, the SBFD aware UE applies the non-SBFD RA operation. |

**Q 3. Do you agree with above TPs? Please provide comments on the TP if any.**

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| **Company** | **Yes/No** | **Suggested descriptions if any** |
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Summary:

# Conclusion

In this contribution, we have the following proposal:

**Proposal 1: ...**

# Reference

1. R2-2506823 Introduction of Rel-19 Evolution of NR duplex operation (SBFD) CATT CR Rel-19 38.300 18.6.0 1008 2 F NR\_duplex\_evo-Core R2-2506604
2. R2-2507002 Discussion on issues for Stage-2 spec Huawei, HiSilicon discussion Rel-19 NR\_duplex\_evo-Core
3. R2-2507364 Remaining issue for Stage 2 spec Ericsson discussion Rel-19 NR\_duplex\_evo-Core