

3GPP TSG RAN Rel-19 workshop
Taipei, June 15 - 16, 2023
Agenda Item: 4

RWS-230092



Consideration on Rel-19 evolution of NR duplex operation

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Consideration on Rel-19 TDD Full Duplex(1/2)



□ Motivation

- NR duplex feasibility including both SBFDD and dynamic/flexible TDD have sufficiently been studied/evaluated in Rel-18.(Refer to TR 38.858)
- Evaluation results of SBFDD in Rel-18 shows the benefit of enhancing UL coverage, increasing UL throughput, reducing UL latency especially in indoor scenario.
- A following-up WI is naturally expected to enable NR duplex feature in Rel-19

Slot#	0	1	2	3	4	5	6	7	8	9
Cell 1	DL	DL	UL	DL Subband1	DL Subband1	DL	DL	UL	DL Subband1	DL Subband1
				UL Subband2	UL Subband2				UL Subband2	UL Subband2
Cell 2	DL	DL	UL	DL Subband1	DL Subband1	DL	DL	UL	DL Subband1	DL Subband1
				UL Subband2	UL Subband2				UL Subband2	UL Subband2

Consideration on Rel-19 TDD Full Duplex(2/2)



□ Proposals

- TDD Full Duplex feature should be enabled and considered as Rel-19

WI project, some specified items as follows:

- ✓ Specify signalling and procedure for SBFDD operation with in TDD carrier
- ✓ Specify SBFDD resource allocation , UL/DL transmission and reception behaviors in SBFDD symbols for half-duplex Ues and full duplex gNB
- ✓ Specify enhancement physical layer channels/signals and related procedures for SBFDD symbols
- ✓ Specify inter-gNB inter/intra-subband CLI handling schemes for SBFDD and dynamic/flexible TDD

A top-down view of a wooden table where several people's hands are stacked in a gesture of teamwork. On the table, there are two laptops, a smartphone, a white mug with a drink, and a coffee cup with a lid. The scene is brightly lit, suggesting an office or meeting environment.

THANKS

A red circular logo with the white letters 'HBC' inside.

HBC