

UE

gNB

pixel\_6a.pcap

UL LCID 52 (CCCH (48 bits))

Radio	FDD
ID RNTI	0x4601
Type	C-RNTI
HARQ	0
Subheader	LCID:52 6 bytes
Subheader	Padding 3 bytes

[Frame 1] UL-SCH MAC PDU – UE@gNB on PUSCH (generic fallback for LCIDs not matched by a higher-priority template)

UL LCID 63 (Padding)

Contention Resolution

Radio	FDD
ID RNTI	0x4601
Type	C-RNTI
HARQ	0

[Frame 2] Msg4 UE Contention Resolution – gNB echoes the UE's Msg3 CCCH SDU; the matching UE wins RACH contention and promotes Temporary C-RNTI to C-RNTI

DL LCID 62 (UE Contention Resolution Identity)

Radio	FDD
ID RNTI	0x4601
Type	C-RNTI
HARQ	0
Subheader	Contention Resolution
Subheader	LCID:0 289 bytes

DL LCID 0 (CCCH)

SDU len	289
Subheader	Padding 1429 bytes

DL LCID 63 (Padding)

Short BSR

ID RNTI	0x4601
Type	C-RNTI
HARQ	0
BS idx	0

[Frame 3] Short Buffer Status Report – UE reports queued UL data for one Logical Channel Group

Single-Entry PHR

ID RNTI	0x4601
Type	C-RNTI
HARQ	0
Type2 other-cell	False
Pcmax	11 dBm <= P <sub>cm</sub> <sub>ax,f,c</sub> < 12 dBm [idx 41]

UL LCID 1 (1)

Radio	FDD
ID RNTI	0x4601
Type	C-RNTI
HARQ	0
Subheader	LCID:1 37 bytes
SDU len	37
Subheader	Short BSR LCG ID=0 BS=0

UL LCID 61 (Short BSR)

BSR LCG0 idx	0
Subheader	PHR PH=42 PCMAX_f_c=41

UL LCID 57 (Single Entry PHR)

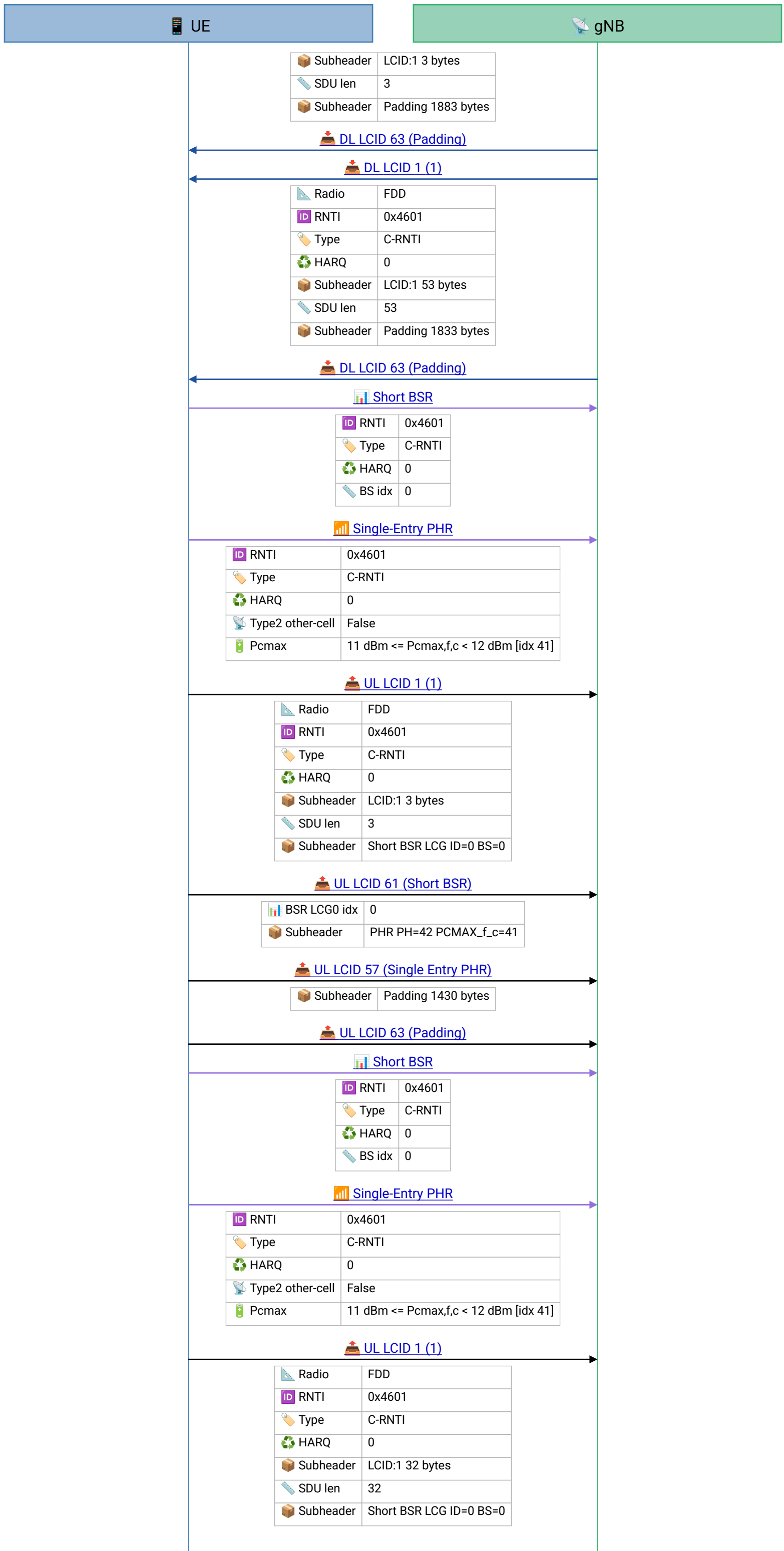
Subheader	Padding 1396 bytes
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UL LCID 63 (Padding)

DL LCID 1 (1)

Radio	FDD
ID RNTI	0x4601
Type	C-RNTI
HARQ	0

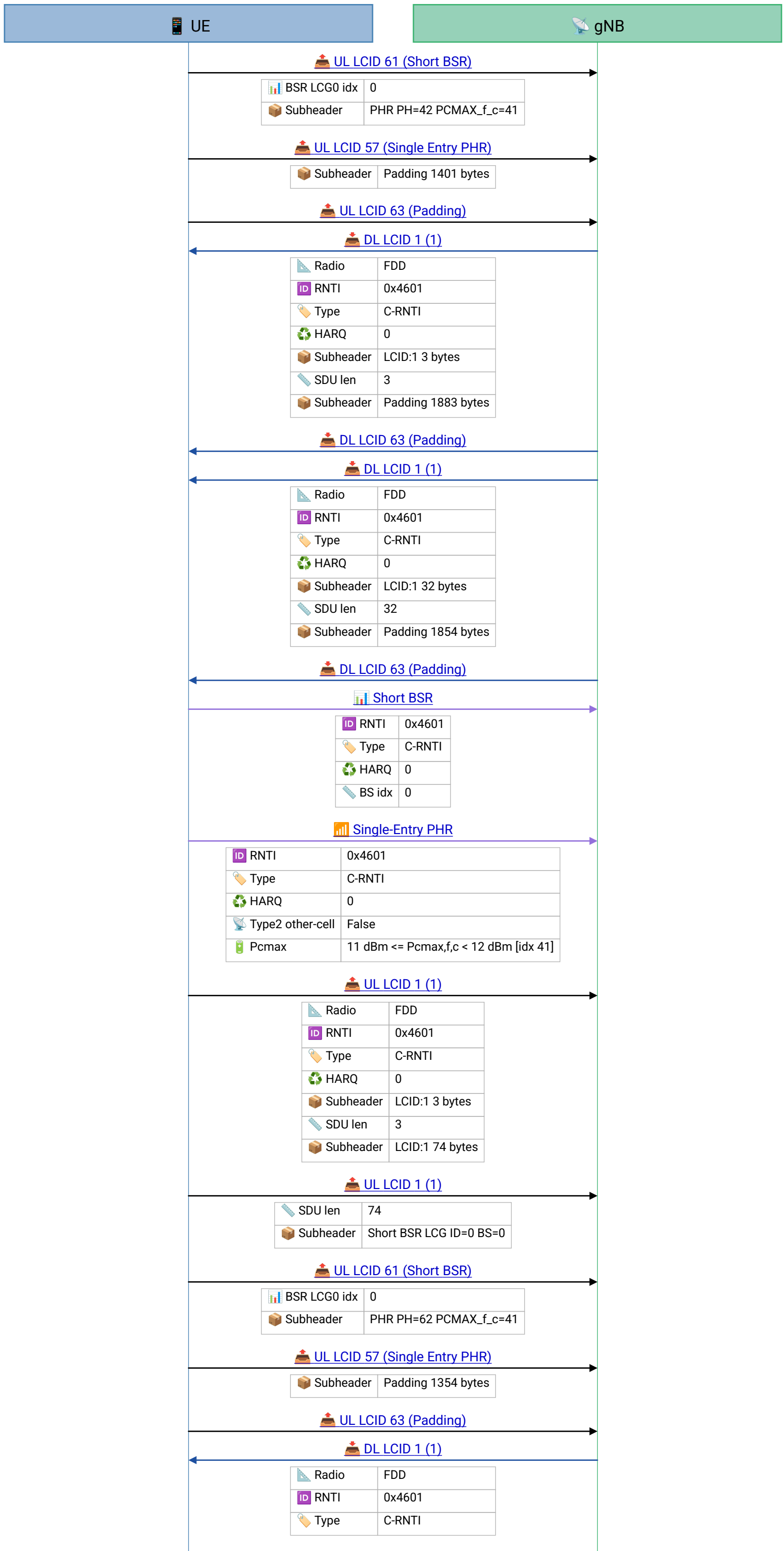
[Frame 4] DL-SCH MAC PDU – gNB@UE on PDSCH (generic fallback for LCIDs not matched by a higher-priority template)



💡 [Frame 5] DL-SCH MAC PDU – gNB→UE on PDSCH (generic fallback for LCIDs not matched by a higher-priority template)

💡 [Frame 6] Short Buffer Status Report – UE reports queued UL data for one Logical Channel Group

💡 [Frame 7] Short Buffer Status Report – UE reports queued UL data for one Logical Channel Group

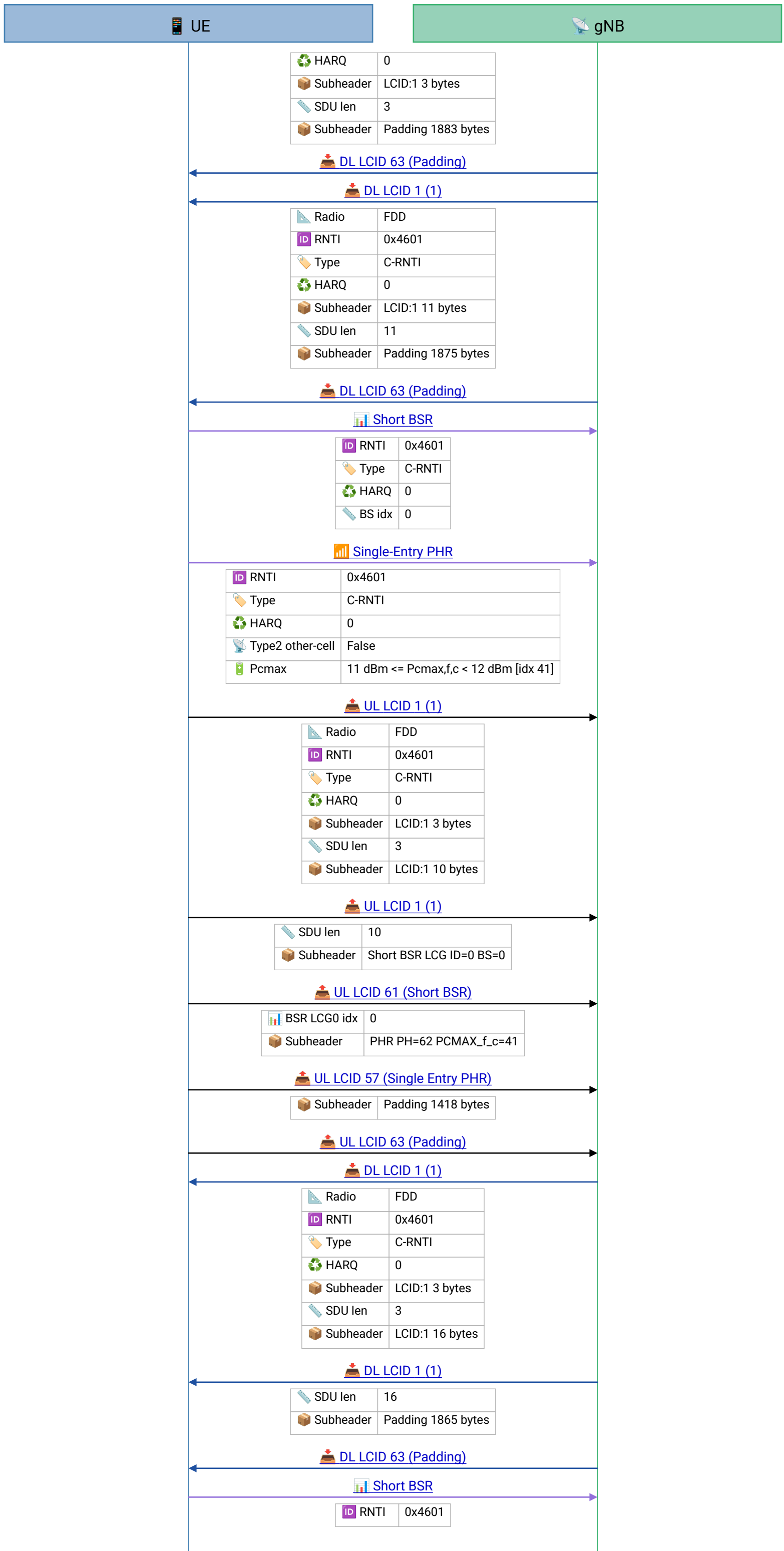


💡 [Frame 8] DL-SCH MAC PDU – gNB→UE on PDSCH (generic fallback for LCIDs not matched by a higher-priority template)

💡 [Frame 9] DL-SCH MAC PDU – gNB→UE on PDSCH (generic fallback for LCIDs not matched by a higher-priority template)

💡 [Frame 10] Short Buffer Status Report – UE reports queued UL data for one Logical Channel Group

💡 [Frame 11] DL-SCH MAC PDU – gNB→UE on PDSCH (generic fallback for LCIDs not matched by a higher-priority template)



[Frame 12] DL-SCH MAC PDU – gNB→UE on PDSCH (generic fallback for LCIDs not matched by a higher-priority template)

[Frame 13] Short Buffer Status Report – UE reports queued UL data for one Logical Channel Group

[Frame 14] DL-SCH MAC PDU – gNB→UE on PDSCH (generic fallback for LCIDs not matched by a higher-priority template)

[Frame 15] Short Buffer Status Report – UE reports queued UL data for one Logical Channel Group

**UE**

**gNB**

Type	C-RNTI
HARQ	0
BS idx	0

**Single-Entry PHR**

ID RNTI	0x4601
Type	C-RNTI
HARQ	0
Type2 other-cell	False
Pcmax	11 dBm <= Pcmax,f,c < 12 dBm [idx 41]

**UL LCID 1 (1)**

Radio	FDD
ID RNTI	0x4601
Type	C-RNTI
HARQ	0
Subheader	LCID:1 3 bytes
SDU len	3
Subheader	Short BSR LCG ID=0 BS=0

**UL LCID 61 (Short BSR)**

BSR LCG0 idx	0
Subheader	PHR PH=62 PCMAX_f_c=41

**UL LCID 57 (Single Entry PHR)**

Subheader	Padding 1430 bytes
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**UL LCID 63 (Padding)**

**Short BSR**

ID RNTI	0x4601
Type	C-RNTI
HARQ	0
BS idx	0

**Single-Entry PHR**

ID RNTI	0x4601
Type	C-RNTI
HARQ	0
Type2 other-cell	False
Pcmax	11 dBm <= Pcmax,f,c < 12 dBm [idx 41]

**UL LCID 1 (1)**

Radio	FDD
ID RNTI	0x4601
Type	C-RNTI
HARQ	0
Subheader	LCID:1 904 bytes
SDU len	904
Subheader	Short BSR LCG ID=0 BS=0

**UL LCID 61 (Short BSR)**

BSR LCG0 idx	0
Subheader	PHR PH=62 PCMAX_f_c=41

**UL LCID 57 (Single Entry PHR)**

Subheader	Padding 528 bytes
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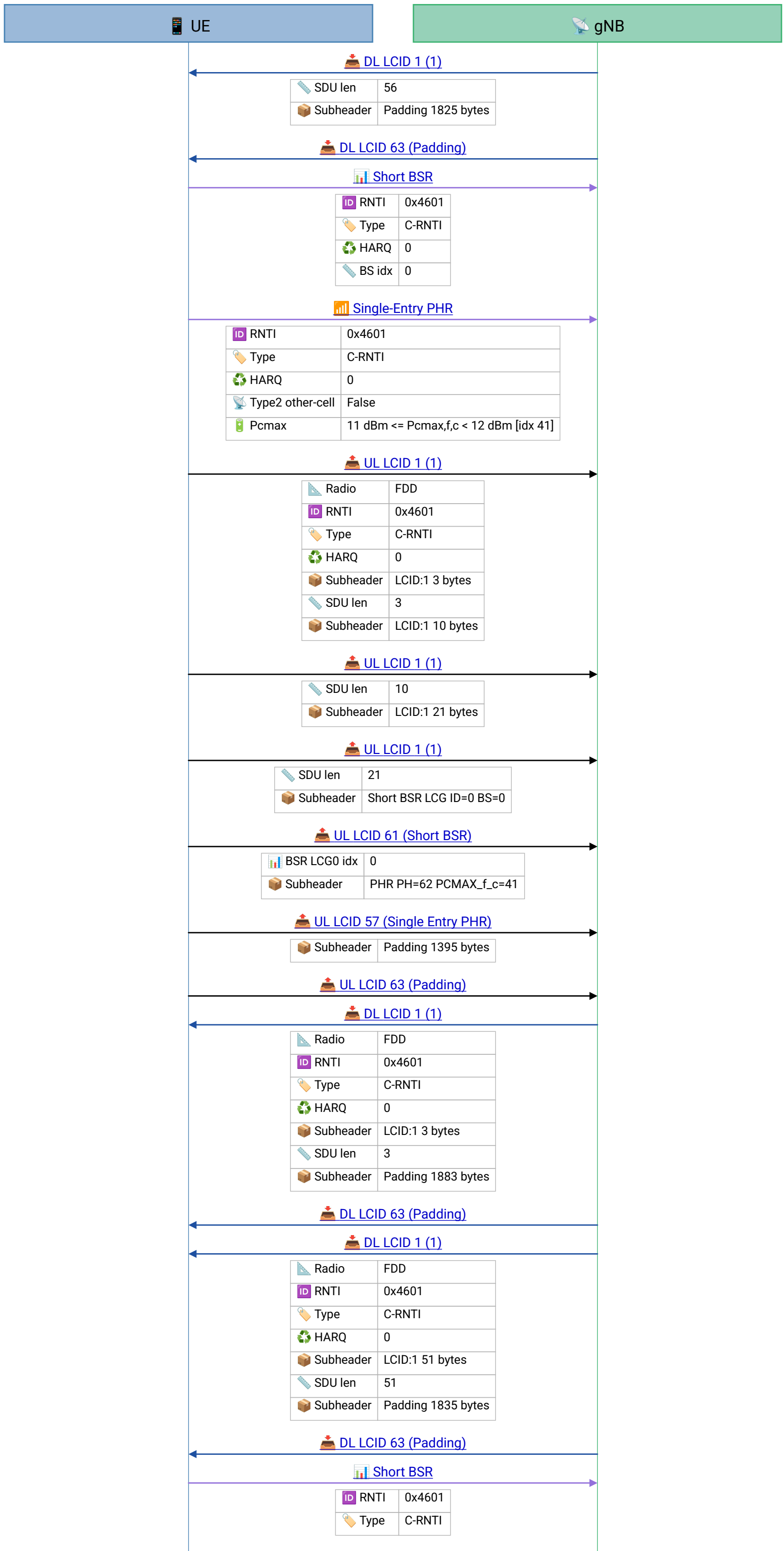
**UL LCID 63 (Padding)**

**DL LCID 1 (1)**

Radio	FDD
ID RNTI	0x4601
Type	C-RNTI
HARQ	0
Subheader	LCID:1 3 bytes
SDU len	3
Subheader	LCID:1 56 bytes

💡 [Frame 16] Short Buffer Status Report – UE reports queued UL data for one Logical Channel Group

💡 [Frame 17] DL-SCH MAC PDU – gNB→UE on PDSCH (generic fallback for LCIDs not matched by a higher-priority template)

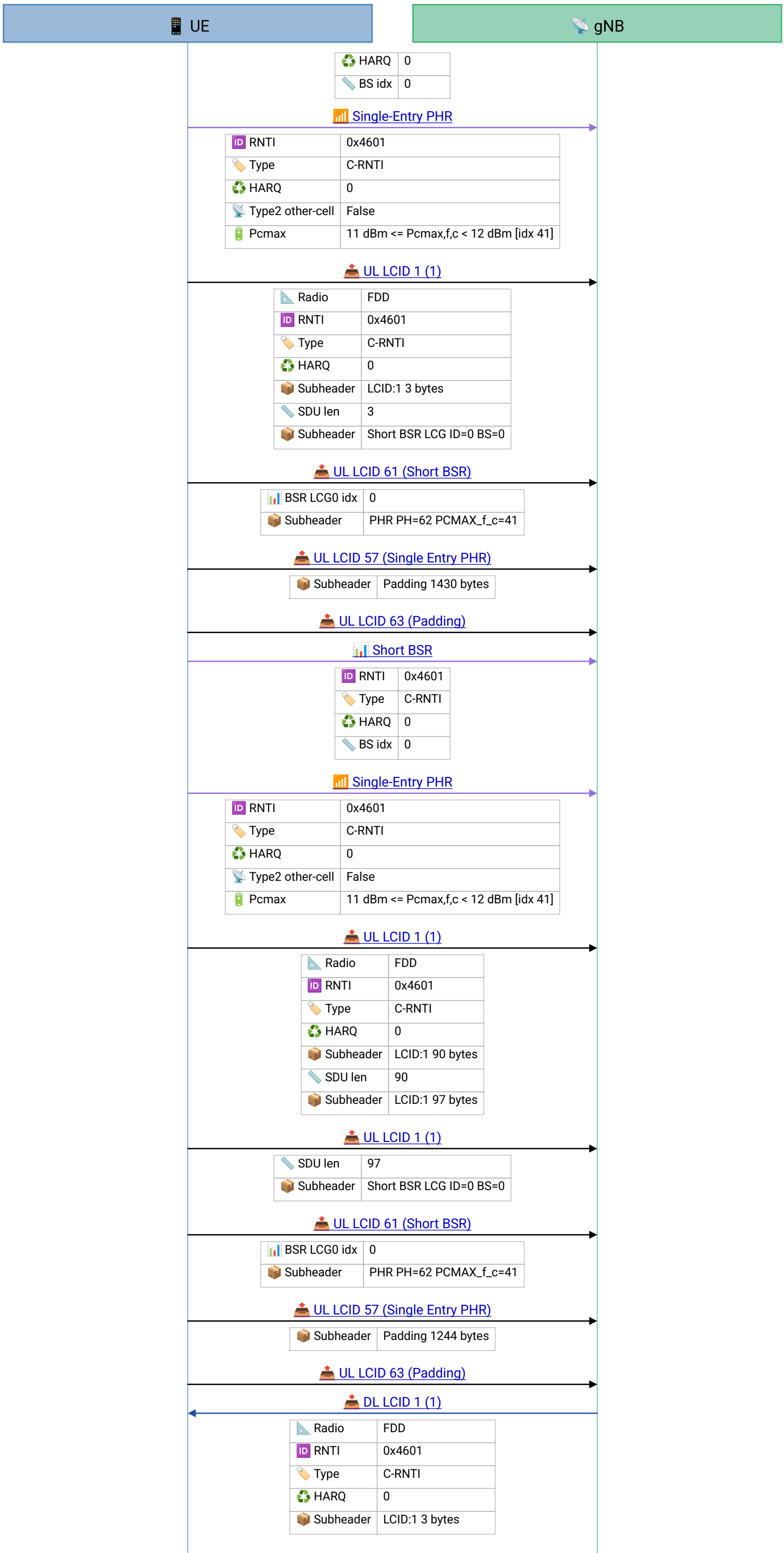


[Frame 18] Short Buffer Status Report – UE reports queued UL data for one Logical Channel Group

[Frame 19] DL-SCH MAC PDU – gNB<math>\rightarrow</math>UE on PDSCH (generic fallback for LCIDs not matched by a higher-priority template)

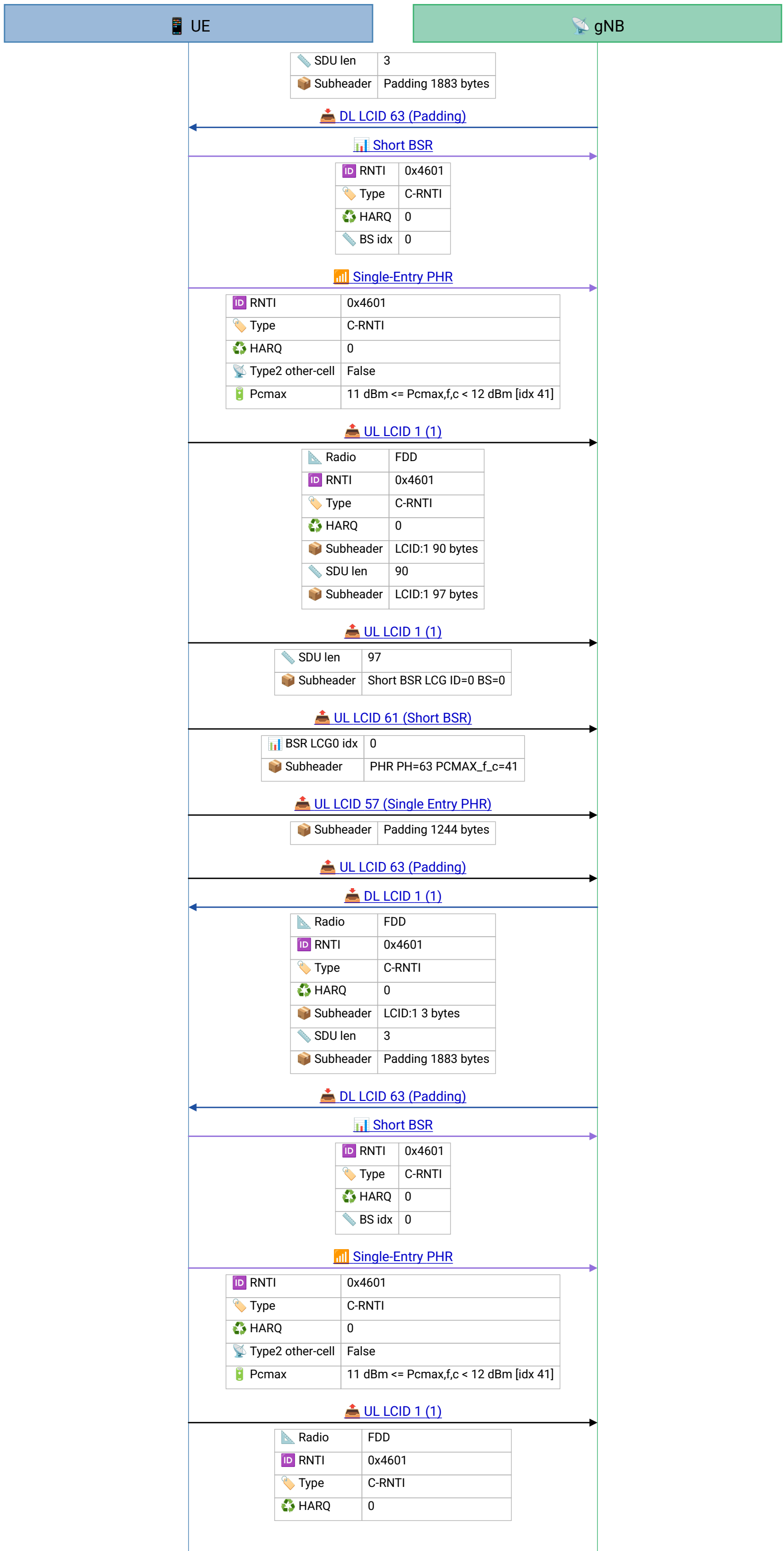
[Frame 20] DL-SCH MAC PDU – gNB<math>\rightarrow</math>UE on PDSCH (generic fallback for LCIDs not matched by a higher-priority template)

[Frame 21] Short Buffer Status Report – UE reports queued UL data for one Logical Channel Group



[Frame 22] Short Buffer Status Report – UE reports queued UL data for one Logical Channel Group

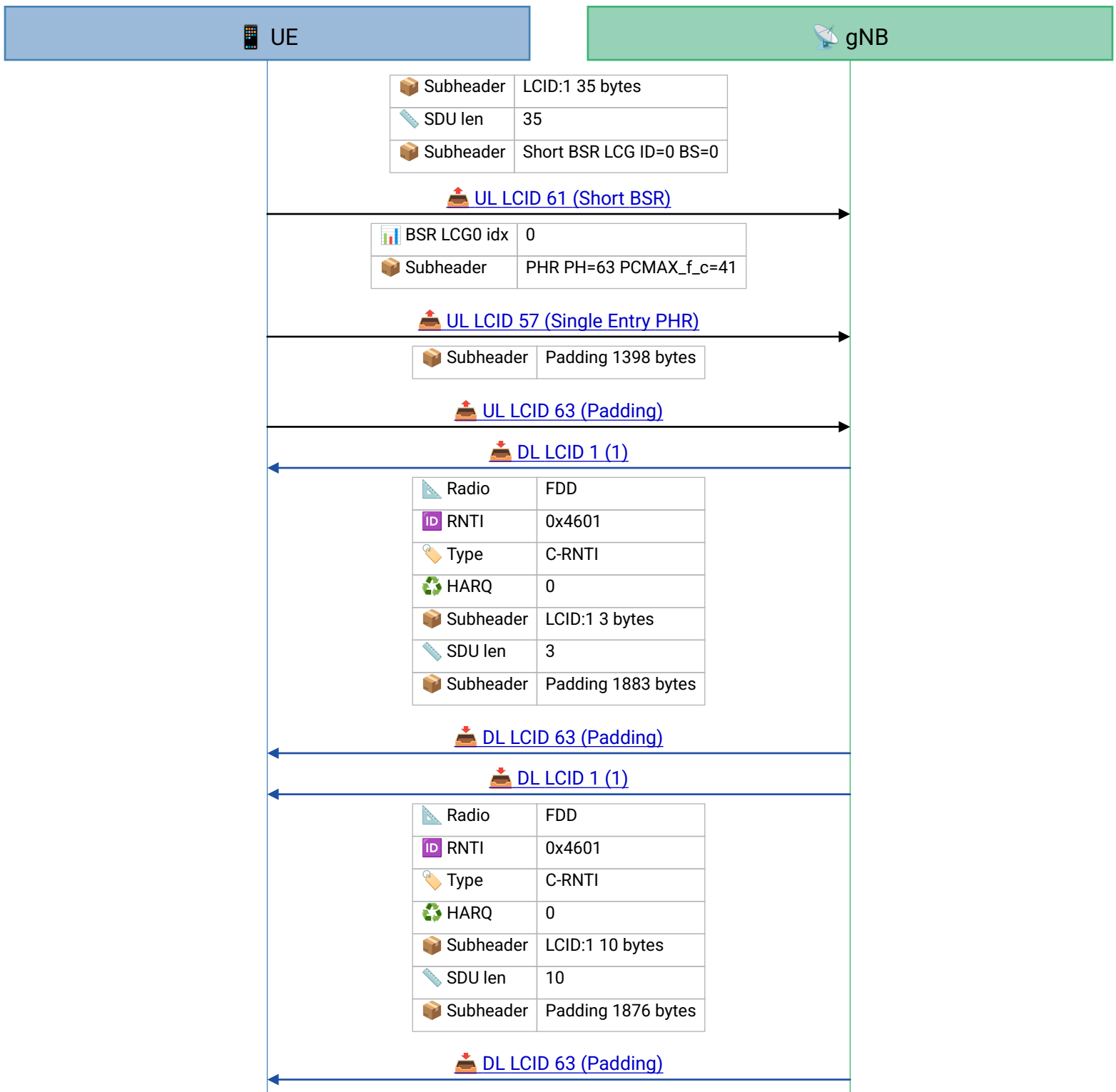
[Frame 23] DL-SCH MAC PDU – gNB to UE on PDSCH (generic fallback for LCIDs not matched by a higher-priority template)



[Frame 24] Short Buffer Status Report – UE reports queued UL data for one Logical Channel Group

[Frame 25] DL-SCH MAC PDU – gNB to UE on PDSCH (generic fallback for LCIDs not matched by a higher-priority template)

[Frame 26] Short Buffer Status Report – UE reports queued UL data for one Logical Channel Group



💡 [Frame 27] DL-SCH MAC PDU – gNB→UE on PDSCH (generic fallback for LCIDs not matched by a higher-priority template)

💡 [Frame 28] DL-SCH MAC PDU – gNB→UE on PDSCH (generic fallback for LCIDs not matched by a higher-priority template)

Session Result: incomplete - mid-capture (duration: 32.319s)