

UE

gNB

simcom-sim8262e-m2.pcap

RRC Setup Request

Duplex	FDD
RNTI	0x4601
RNTI type	C-RNTI
Conn	1024
HARQ pid	0
UL LCID	52 (CCCH (48 bits))
Random	5a1cf7e12a
Cause	mo-Signalling
UL LCID	63 (Padding)

[Frame 1] RRC Setup Request – Msg3 over CCCH; UE asks gNB to establish RRC connection

RRC Setup

Duplex	TDD
RNTI	0x4601
RNTI type	C-RNTI
HARQ pid	0
DL LCID	62 (UE Contention Resolution Identity)
DL LCID	0 (CCCH)
Trans ID	0
SRB add	1
CellGroup	0
SRB add	1
RLC mode	AM
T-PollRetx	ms45
maxRetx	t8
T-Reassembly	ms35
T-StatusProhibit	ms0...
	14 more

[Frame 2] RRC Setup – Msg4 payload carrying SRB1 config and master cell group; UE moves to RRC_CONNECTED on receipt

RRC Setup Complete

Duplex	FDD
RNTI	0x4601
RNTI type	C-RNTI
HARQ pid	0
UL LCID	1 (1)
SRB	1
Trans ID	0
PLMN idx	1
NAS	7e0168d31db5577e...
NAS msg	Registration request
NAS msg	Registration request
UL LCID	61 (Short BSR)
BSR LCG0 idx	0
UL LCID	57 (Single Entry PHR)
UL LCID	63 (Padding)

[Frame 3] RRC Setup Complete – UE acks SRB1 and piggybacks an initial NAS message to the AMF

RLC AM Status PDU

Duplex	TDD
RNTI	0x4601
RNTI type	C-RNTI
HARQ pid	0
DL LCID	1 (1)
RLC mode	Acknowledged
Bearer	1
RLC SN size	12-bit
ACK SN	1
E1	A set of NACK_SN, E1, E2 and E3 does not follow

[Frame 4] RLC AM Status PDU – receiver reports cumulative ACK_SN and any NACK_SN list; drives RLC retransmissions on the AM bearer

Security Mode Command

Duplex	TDD
RNTI	0x4601
RNTI type	C-RNTI
HARQ pid	1

[Frame 5] Security Mode Command – gNB activates AS security; subsequent SRB/DRB traffic is ciphered and integrity-protected

UE

gNB

DL LCID	1 (1)
SRB	1
Trans ID	1
Cipher	nea0
Integrity	nia2
DL LCID	63 (Padding)

Security Mode Complete

Duplex	FDD
RNTI	0x4601
RNTI type	C-RNTI
HARQ pid	0
UL LCID	1 (1)
UL LCID	1 (1)
SRB	1
Trans ID	1
UL LCID	61 (Short BSR)
BSR LCG0 idx	0
UL LCID	57 (Single Entry PHR)
UL LCID	63 (Padding)

RLC AM Status PDU

Duplex	TDD
RNTI	0x4601
RNTI type	C-RNTI
HARQ pid	0
DL LCID	1 (1)
RLC mode	Acknowledged
Bearer	1
RLC SN size	12-bit
ACK SN	2
E1	A set of NACK_SN, E1, E2 and E3 does not follow
DL LCID	1 (1)
RLC mode	Acknowledged
Bearer	1
RLC SN size	12-bit
DL LCID	63 (Padding)

DL Information Transfer

Duplex	TDD
RNTI	0x4601
RNTI type	C-RNTI
HARQ pid	1
DL LCID	1 (1)
SRB	1
Trans ID	0
NAS	7e025716d8a6517e...
NAS 5GMM	Registration accept
DL LCID	63 (Padding)

UL Information Transfer

Duplex	FDD
RNTI	0x4601
RNTI type	C-RNTI
HARQ pid	0
UL LCID	1 (1)
UL LCID	1 (1)
SRB	1
NAS	7e02d3595579587e...
NAS 5GMM	Registration complete
UL LCID	61 (Short BSR)
BSR LCG0 idx	0
UL LCID	57 (Single Entry PHR)
UL LCID	63 (Padding)

RLC AM Status PDU

[Frame 6] Security Mode Complete – UE confirms AS security activation

[Frame 7] RLC AM Status PDU – receiver reports cumulative ACK_SN and any NACK_SN list; drives RLC retransmissions on the AM bearer

[Frame 8] DL Information Transfer – transparent NAS container from AMF/SMF to UE

[Frame 9] UL Information Transfer – transparent NAS container from UE to AMF/SMF

[Frame 10] RLC AM Status PDU – receiver reports cumulative

UE

gNB

Duplex	TDD
RNTI	0x4601
RNTI type	C-RNTI
HARQ pid	0
DL LCID	1 (1)
RLC mode	Acknowledged
Bearer	1
RLC SN size	12-bit
ACK SN	3
E1	A set of NACK_SN, E1, E2 and E3 does not follow
DL LCID	63 (Padding)

UL Information Transfer

Duplex	FDD
RNTI	0x4601
RNTI type	C-RNTI
HARQ pid	0
UL LCID	1 (1)
SRB	1
NAS	7e0255ce9542597e...
NAS 5GMM	UL NAS transport
NAS 5GSM	PDU session establishment request
UL LCID	61 (Short BSR)
BSR LCG0 idx	0
UL LCID	57 (Single Entry PHR)
UL LCID	63 (Padding)

RLC AM Status PDU

Duplex	TDD
RNTI	0x4601
RNTI type	C-RNTI
HARQ pid	0
DL LCID	1 (1)
RLC mode	Acknowledged
Bearer	1
RLC SN size	12-bit
ACK SN	4
E1	A set of NACK_SN, E1, E2 and E3 does not follow
DL LCID	63 (Padding)

DL Information Transfer

Duplex	TDD
RNTI	0x4601
RNTI type	C-RNTI
HARQ pid	0
DL LCID	1 (1)
SRB	1
Trans ID	0
NAS	7e0225e24bd4527e...
NAS 5GMM	Configuration update command
DL LCID	1 (1)

DL Information Transfer

Duplex	TDD
RNTI	0x4601
RNTI type	C-RNTI
HARQ pid	1
DL LCID	1 (1)
SRB	1
Trans ID	0
NAS	7e02b467eab3537e...
NAS 5GMM	5GMM status
5GMM cause	DNN not supported or not subscribed in the slice
DL LCID	63 (Padding)

RLC AM Status PDU

ACK_SN and any NACK_SN list; drives RLC retransmissions on the AM bearer

[Frame 11] UL Information Transfer – transparent NAS container from UE to AMF/SMF

[Frame 12] RLC AM Status PDU – receiver reports cumulative ACK_SN and any NACK_SN list; drives RLC retransmissions on the AM bearer

[Frame 13] DL Information Transfer – transparent NAS container from AMF/SMF to UE

[Frame 14] DL Information Transfer – transparent NAS container from AMF/SMF to UE

[Frame 15] RLC AM Status PDU – receiver reports cumulative

UE

gNB

Duplex	FDD
RNTI	0x4601
RNTI type	C-RNTI
HARQ pid	0
UL LCID	1 (1)
RLC mode	Acknowledged
Bearer	1
RLC SN size	12-bit
ACK SN	4
E1	A set of NACK_SN, E1, E2 and E3 does not follow
UL LCID	61 (Short BSR)
BSR LCG0 idx	0
UL LCID	57 (Single Entry PHR)
UL LCID	63 (Padding)

Short BSR

Duplex	FDD
RNTI	0x4601
RNTI type	C-RNTI
HARQ pid	0
UL LCID	61 (Short BSR)
BSR LCG0 idx	0
UL LCID	57 (Single Entry PHR)
UL LCID	63 (Padding)

UL Information Transfer

Duplex	FDD
RNTI	0x4601
RNTI type	C-RNTI
HARQ pid	0
UL LCID	1 (1)
SRB	1
NAS	7e02a7ed36fc5a7e...
NAS 5GMM	UL NAS transport
NAS 5GSM	PDU session establishment request
UL LCID	61 (Short BSR)
BSR LCG0 idx	0
UL LCID	57 (Single Entry PHR)
UL LCID	63 (Padding)

RLC AM Status PDU

Duplex	TDD
RNTI	0x4601
RNTI type	C-RNTI
HARQ pid	0
DL LCID	1 (1)
RLC mode	Acknowledged
Bearer	1
RLC SN size	12-bit
ACK SN	5
E1	A set of NACK_SN, E1, E2 and E3 does not follow
DL LCID	63 (Padding)

DL Information Transfer

Duplex	TDD
RNTI	0x4601
RNTI type	C-RNTI
HARQ pid	1
DL LCID	1 (1)
SRB	1
Trans ID	0
NAS	7e0295a1a97f547e...
NAS 5GMM	5GMM status
5GMM cause	DNN not supported or not subscribed in the slice
DL LCID	63 (Padding)

ACK_SN and any NACK_SN list; drives RLC retransmissions on the AM bearer

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

[Frame 17] UL Information Transfer – transparent NAS container from UE to AMF/SMF

[Frame 18] RLC AM Status PDU – receiver reports cumulative ACK_SN and any NACK_SN list; drives RLC retransmissions on the AM bearer

[Frame 19] DL Information Transfer – transparent NAS container from AMF/SMF to UE

UE

gNB

RLC AM Status PDU

Duplex	FDD
RNTI	0x4601
RNTI type	C-RNTI
HARQ pid	0
UL LCID	1 (1)
RLC mode	Acknowledged
Bearer	1
RLC SN size	12-bit
ACK SN	5
E1	A set of NACK_SN, E1, E2 and E3 does not follow
UL LCID	61 (Short BSR)
BSR LCG0 idx	0
UL LCID	57 (Single Entry PHR)
UL LCID	63 (Padding)

[Frame 20] RLC AM Status PDU – receiver reports cumulative ACK_SN and any NACK_SN list; drives RLC retransmissions on the AM bearer

UL Information Transfer

Duplex	FDD
RNTI	0x4601
RNTI type	C-RNTI
HARQ pid	0
UL LCID	1 (1)
SRB	1
NAS	7e027ca0ef505b7e...
NAS 5GMM	UL NAS transport
NAS 5GSM	PDU session establishment request
UL LCID	61 (Short BSR)
BSR LCG0 idx	0
UL LCID	57 (Single Entry PHR)
UL LCID	63 (Padding)

[Frame 21] UL Information Transfer – transparent NAS container from UE to AMF/SMF

RLC AM Status PDU

Duplex	TDD
RNTI	0x4601
RNTI type	C-RNTI
HARQ pid	0
DL LCID	1 (1)
RLC mode	Acknowledged
Bearer	1
RLC SN size	12-bit
ACK SN	6
E1	A set of NACK_SN, E1, E2 and E3 does not follow
DL LCID	63 (Padding)

[Frame 22] RLC AM Status PDU – receiver reports cumulative ACK_SN and any NACK_SN list; drives RLC retransmissions on the AM bearer

UE Capability Enquiry

Duplex	TDD
RNTI	0x4601
RNTI type	C-RNTI
HARQ pid	0
DL LCID	1 (1)
SRB	1
Trans ID	2
RAT	nr
DL LCID	63 (Padding)

[Frame 23] UE Capability Enquiry – gNB asks UE to report supported bands, MIMO layers, modulation, ROHC profiles

UE Capability Information

Duplex	FDD
RNTI	0x4601
RNTI type	C-RNTI
HARQ pid	0
UL LCID	1 (1)
UL LCID	1 (1)
SRB	1
Trans ID	2
PowerClass	pc2

[Frame 24] UE Capability Information – UE returns supported bands, MIMO, modulation, ROHC profiles

UE

gNB

UL LCID	61 (Short BSR)
BSR LCG0 idx	0
UL LCID	57 (Single Entry PHR)
UL LCID	63 (Padding)

RLC AM Status PDU

Duplex	TDD
RNTI	0x4601
RNTI type	C-RNTI
HARQ pid	0
DL LCID	1 (1)
RLC mode	Acknowledged
Bearer	1
RLC SN size	12-bit
ACK SN	7
E1	A set of NACK_SN, E1, E2 and E3 does not follow
DL LCID	1 (1)
RLC mode	Acknowledged
Bearer	1
RLC SN size	12-bit
DL LCID	63 (Padding)

[Frame 25] RLC AM Status PDU – receiver reports cumulative ACK_SN and any NACK_SN list; drives RLC retransmissions on the AM bearer

RRC Reconfiguration

Duplex	TDD
RNTI	0x4601
RNTI type	C-RNTI
HARQ pid	1
DL LCID	1 (1)
SRB	1
Trans ID	3
PDU Session	2
SDAP DL	absent
SDAP UL	absent
Default DRB	True
QFI	1
DRB add	1
PDCP-SN UL	len18bits
PDCP-SN DL	len18bits...
	8 more

[Frame 26] RRC Reconfiguration – gNB pushes radio-bearer / measurement / PHY config; may carry a piggybacked NAS message

RRC Reconfiguration Complete

Duplex	FDD
RNTI	0x4601
RNTI type	C-RNTI
HARQ pid	0
UL LCID	1 (1)
UL LCID	1 (1)
SRB	1
Trans ID	3
UL LCID	61 (Short BSR)
BSR LCG0 idx	0
UL LCID	57 (Single Entry PHR)
UL LCID	63 (Padding)

[Frame 27] RRC Reconfiguration Complete – UE has applied the new bearer/PHY config

RLC AM Status PDU

Duplex	TDD
RNTI	0x4601
RNTI type	C-RNTI
HARQ pid	0
DL LCID	1 (1)
RLC mode	Acknowledged
Bearer	1
RLC SN size	12-bit
ACK SN	8
E1	A set of NACK_SN, E1, E2 and E3 does not follow
DL LCID	63 (Padding)

[Frame 28] RLC AM Status PDU – receiver reports cumulative ACK_SN and any NACK_SN list; drives RLC retransmissions on the AM bearer

UE

gNB

RLC AM Status PDU

Duplex	FDD
RNTI	0x4601
RNTI type	C-RNTI
HARQ pid	0
UL LCID	4 (4)
RLC mode	Acknowledged
Bearer	4
RLC SN size	12-bit
ACK SN	128
E1	A set of NACK_SN, E1, E2 and E3 does not follow
UL LCID	61 (Short BSR)
BSR LCG0 idx	0
UL LCID	57 (Single Entry PHR)
UL LCID	63 (Padding)

[Frame 29] RLC AM Status PDU
 – receiver reports cumulative ACK_SN and any NACK_SN list; drives RLC retransmissions on the AM bearer

RLC AM Status PDU

Duplex	FDD
RNTI	0x4601
RNTI type	C-RNTI
HARQ pid	0
UL LCID	4 (4)
RLC mode	Acknowledged
Bearer	4
RLC SN size	12-bit
ACK SN	128
E1	A set of NACK_SN, E1, E2 and E3 does not follow
UL LCID	61 (Short BSR)
BSR LCG0 idx	0
UL LCID	57 (Single Entry PHR)
UL LCID	63 (Padding)

[Frame 30] RLC AM Status PDU
 – receiver reports cumulative ACK_SN and any NACK_SN list; drives RLC retransmissions on the AM bearer

RLC AM Status PDU

Duplex	FDD
RNTI	0x4601
RNTI type	C-RNTI
HARQ pid	0
UL LCID	4 (4)
RLC mode	Acknowledged
Bearer	4
RLC SN size	12-bit
ACK SN	128
E1	A set of NACK_SN, E1, E2 and E3 does not follow
UL LCID	61 (Short BSR)
BSR LCG0 idx	0
UL LCID	57 (Single Entry PHR)
UL LCID	63 (Padding)

[Frame 31] RLC AM Status PDU
 – receiver reports cumulative ACK_SN and any NACK_SN list; drives RLC retransmissions on the AM bearer

RLC AM Status PDU

Duplex	FDD
RNTI	0x4601
RNTI type	C-RNTI
HARQ pid	0
UL LCID	4 (4)
RLC mode	Acknowledged
Bearer	4
RLC SN size	12-bit
ACK SN	128
E1	A set of NACK_SN, E1, E2 and E3 does not follow
UL LCID	61 (Short BSR)
BSR LCG0 idx	0
UL LCID	57 (Single Entry PHR)
UL LCID	63 (Padding)

[Frame 32] RLC AM Status PDU
 – receiver reports cumulative ACK_SN and any NACK_SN list; drives RLC retransmissions on the AM bearer

RLC AM Status PDU

[Frame 33] RLC AM Status PDU
 – receiver reports cumulative ACK_SN and any NACK_SN list;

UE

gNB

Duplex	FDD
RNTI	0x4601
RNTI type	C-RNTI
HARQ pid	0
UL LCID	4 (4)
RLC mode	Acknowledged
Bearer	4
RLC SN size	12-bit
ACK SN	128
E1	A set of NACK_SN, E1, E2 and E3 does not follow
UL LCID	61 (Short BSR)
BSR LCG0 idx	0
UL LCID	57 (Single Entry PHR)
UL LCID	63 (Padding)

RLC AM Status PDU

drives RLC retransmissions on the AM bearer

Duplex	FDD
RNTI	0x4601
RNTI type	C-RNTI
HARQ pid	0
UL LCID	4 (4)
RLC mode	Acknowledged
Bearer	4
RLC SN size	12-bit
ACK SN	128
E1	A set of NACK_SN, E1, E2 and E3 does not follow
UL LCID	61 (Short BSR)
BSR LCG0 idx	0
UL LCID	57 (Single Entry PHR)
UL LCID	63 (Padding)

RLC AM Status PDU

[Frame 34] RLC AM Status PDU – receiver reports cumulative ACK_SN and any NACK_SN list; drives RLC retransmissions on the AM bearer

Duplex	FDD
RNTI	0x4601
RNTI type	C-RNTI
HARQ pid	0
UL LCID	4 (4)
RLC mode	Acknowledged
Bearer	4
RLC SN size	12-bit
ACK SN	128
E1	A set of NACK_SN, E1, E2 and E3 does not follow
UL LCID	61 (Short BSR)
BSR LCG0 idx	0
UL LCID	57 (Single Entry PHR)
UL LCID	63 (Padding)

Short BSR

[Frame 35] RLC AM Status PDU – receiver reports cumulative ACK_SN and any NACK_SN list; drives RLC retransmissions on the AM bearer

Duplex	FDD
RNTI	0x4601
RNTI type	C-RNTI
HARQ pid	0
UL LCID	61 (Short BSR)
BSR LCG0 idx	0
UL LCID	57 (Single Entry PHR)
UL LCID	63 (Padding)

RLC AM Status PDU







[Frame 36] Short Buffer Status Report – UE reports queued UL data for one Logical Channel Group

Duplex	FDD
RNTI	0x4601
RNTI type	C-RNTI
HARQ pid	0
UL LCID	4 (4)
RLC mode	Acknowledged
Bearer	4
RLC SN size	12-bit







[Frame 37] RLC AM Status PDU – receiver reports cumulative ACK_SN and any NACK_SN list; drives RLC retransmissions on the AM bearer

 UE















 gNB

 ACK SN	128
 E1	A set of NACK_SN, E1, E2 and E3 does not follow
 UL LCID	4 (4)
 RLC mode	Acknowledged
 Bearer	4
 RLC SN size	12-bit







 RLC AM Status PDU

 ACK SN	128
 E1	A set of NACK_SN, E1, E2 and E3 does not follow
 UL LCID	61 (Short BSR)
 BSR LCG0 idx	0
 UL LCID	57 (Single Entry PHR)
 UL LCID	63 (Padding)







 RLC AM Status PDU

 Duplex	FDD
 RNTI	0x4601
 RNTI type	C-RNTI
 HARQ pid	0
 UL LCID	4 (4)
 RLC mode	Acknowledged
 Bearer	4
 RLC SN size	12-bit
 ACK SN	128
 E1	A set of NACK_SN, E1, E2 and E3 does not follow
 UL LCID	4 (4)
 RLC mode	Acknowledged
 Bearer	4
 RLC SN size	12-bit















 RLC AM Status PDU

 ACK SN	128
 E1	A set of NACK_SN, E1, E2 and E3 does not follow
 UL LCID	4 (4)
 RLC mode	Acknowledged
 Bearer	4
 RLC SN size	12-bit

 RLC AM Status PDU


 ACK SN	128
 E1	A set of NACK_SN, E1, E2 and E3 does not follow
 UL LCID	61 (Short BSR)
 BSR LCG0 idx	0
 UL LCID	57 (Single Entry PHR)
 UL LCID	63 (Padding)


 RLC AM Status PDU


 Duplex	FDD
 RNTI	0x4601
 RNTI type	C-RNTI
 HARQ pid	0
 UL LCID	4 (4)
 RLC mode	Acknowledged
 Bearer	4
 RLC SN size	12-bit
 ACK SN	128
 E1	A set of NACK_SN, E1, E2 and E3 does not follow
 UL LCID	61 (Short BSR)
 BSR LCG0 idx	0
 UL LCID	57 (Single Entry PHR)
 UL LCID	63 (Padding)

 RLC AM Status PDU

 Duplex	FDD
 RNTI	0x4601













 [Frame 38] RLC AM Status PDU – receiver reports cumulative ACK_SN and any NACK_SN list; drives RLC retransmissions on the AM bearer

 [Frame 39] RLC AM Status PDU – receiver reports cumulative ACK_SN and any NACK_SN list; drives RLC retransmissions on the AM bearer















 [Frame 40] RLC AM Status PDU – receiver reports cumulative ACK_SN and any NACK_SN list; drives RLC retransmissions on the AM bearer

 UE







 gNB

 RNTI type	C-RNTI
 HARQ pid	0
 UL LCID	4 (4)
 RLC mode	Acknowledged
 Bearer	4
 RLC SN size	12-bit
 ACK SN	128
 E1	A set of NACK_SN, E1, E2 and E3 does not follow
 UL LCID	61 (Short BSR)
 BSR LCG0 idx	0
 UL LCID	57 (Single Entry PHR)
 UL LCID	63 (Padding)















 RLC AM Status PDU

 Duplex	FDD
 RNTI	0x4601
 RNTI type	C-RNTI
 HARQ pid	0
 UL LCID	4 (4)
 RLC mode	Acknowledged
 Bearer	4
 RLC SN size	12-bit
 ACK SN	128
 E1	A set of NACK_SN, E1, E2 and E3 does not follow
 UL LCID	4 (4)
 RLC mode	Acknowledged
 Bearer	4
 RLC SN size	12-bit







 RLC AM Status PDU

 ACK SN	128
 E1	A set of NACK_SN, E1, E2 and E3 does not follow
 UL LCID	61 (Short BSR)
 BSR LCG0 idx	0
 UL LCID	57 (Single Entry PHR)
 UL LCID	63 (Padding)





 RLC AM Status PDU


 Duplex	FDD
 RNTI	0x4601
 RNTI type	C-RNTI
 HARQ pid	0
 UL LCID	4 (4)
 RLC mode	Acknowledged
 Bearer	4
 RLC SN size	12-bit
 ACK SN	128
 E1	A set of NACK_SN, E1, E2 and E3 does not follow
 UL LCID	4 (4)
 RLC mode	Acknowledged
 Bearer	4
 RLC SN size	12-bit


 RLC AM Status PDU


 ACK SN	128
 E1	A set of NACK_SN, E1, E2 and E3 does not follow
 UL LCID	61 (Short BSR)
 BSR LCG0 idx	0
 UL LCID	57 (Single Entry PHR)
 UL LCID	63 (Padding)

 RLC AM Status PDU

 Duplex	TDD
 RNTI	0x4601
 RNTI type	C-RNTI
 HARQ pid	0

 [Frame 41] RLC AM Status PDU – receiver reports cumulative ACK_SN and any NACK_SN list; drives RLC retransmissions on the AM bearer

 [Frame 42] RLC AM Status PDU – receiver reports cumulative ACK_SN and any NACK_SN list; drives RLC retransmissions on the AM bearer

 [Frame 43] RLC AM Status PDU – receiver reports cumulative ACK_SN and any NACK_SN list; drives RLC retransmissions on the AM bearer

UE

gNB

DL LCID	4 (4)
RLC mode	Acknowledged
Bearer	4
RLC SN size	12-bit
ACK SN	128
E1	A set of NACK_SN, E1, E2 and E3 does not follow
DL LCID	63 (Padding)

RLC AM Status PDU

Duplex	FDD
RNTI	0x4601
RNTI type	C-RNTI
HARQ pid	0
UL LCID	4 (4)
RLC mode	Acknowledged
Bearer	4
RLC SN size	12-bit
ACK SN	128
E1	A set of NACK_SN, E1, E2 and E3 does not follow
UL LCID	61 (Short BSR)
BSR LCG0 idx	0
UL LCID	57 (Single Entry PHR)
UL LCID	63 (Padding)

RLC AM Status PDU

Duplex	FDD
RNTI	0x4601
RNTI type	C-RNTI
HARQ pid	0
UL LCID	4 (4)
RLC mode	Acknowledged
Bearer	4
RLC SN size	12-bit
ACK SN	128
E1	A set of NACK_SN, E1, E2 and E3 does not follow
UL LCID	4 (4)
RLC mode	Acknowledged
Bearer	4
RLC SN size	12-bit

RLC AM Status PDU

ACK SN	128
E1	A set of NACK_SN, E1, E2 and E3 does not follow
UL LCID	61 (Short BSR)
BSR LCG0 idx	0
UL LCID	57 (Single Entry PHR)
UL LCID	63 (Padding)

RLC AM Status PDU

Duplex	FDD
RNTI	0x4601
RNTI type	C-RNTI
HARQ pid	0
UL LCID	4 (4)
RLC mode	Acknowledged
Bearer	4
RLC SN size	12-bit
ACK SN	128
E1	A set of NACK_SN, E1, E2 and E3 does not follow
UL LCID	61 (Short BSR)
BSR LCG0 idx	0
UL LCID	57 (Single Entry PHR)
UL LCID	63 (Padding)

RLC AM Status PDU

Duplex	FDD
--------	-----

[Frame 44] RLC AM Status PDU – receiver reports cumulative ACK_SN and any NACK_SN list; drives RLC retransmissions on the AM bearer

[Frame 45] RLC AM Status PDU – receiver reports cumulative ACK_SN and any NACK_SN list; drives RLC retransmissions on the AM bearer

[Frame 46] RLC AM Status PDU – receiver reports cumulative ACK_SN and any NACK_SN list; drives RLC retransmissions on the AM bearer

[Frame 47] RLC AM Status PDU – receiver reports cumulative ACK_SN and any NACK_SN list; drives RLC retransmissions on the

UE

gNB

RNTI	0x4601
RNTI type	C-RNTI
HARQ pid	0
UL LCID	4 (4)
RLC mode	Acknowledged
Bearer	4
RLC SN size	12-bit
ACK SN	128
E1	A set of NACK_SN, E1, E2 and E3 does not follow
UL LCID	61 (Short BSR)
BSR LCG0 idx	0
UL LCID	57 (Single Entry PHR)
UL LCID	63 (Padding)

AM bearer

RLC AM Status PDU

Duplex	FDD
RNTI	0x4601
RNTI type	C-RNTI
HARQ pid	0
UL LCID	4 (4)
RLC mode	Acknowledged
Bearer	4
RLC SN size	12-bit
ACK SN	128
E1	A set of NACK_SN, E1, E2 and E3 does not follow
UL LCID	61 (Short BSR)
BSR LCG0 idx	0
UL LCID	57 (Single Entry PHR)
UL LCID	63 (Padding)

[Frame 48] RLC AM Status PDU – receiver reports cumulative ACK_SN and any NACK_SN list; drives RLC retransmissions on the AM bearer

RLC AM Status PDU

Duplex	FDD
RNTI	0x4601
RNTI type	C-RNTI
HARQ pid	0
UL LCID	4 (4)
RLC mode	Acknowledged
Bearer	4
RLC SN size	12-bit
ACK SN	128
E1	A set of NACK_SN, E1, E2 and E3 does not follow
UL LCID	61 (Short BSR)
BSR LCG0 idx	0
UL LCID	57 (Single Entry PHR)
UL LCID	63 (Padding)

[Frame 49] RLC AM Status PDU – receiver reports cumulative ACK_SN and any NACK_SN list; drives RLC retransmissions on the AM bearer

RLC AM Status PDU

Duplex	FDD
RNTI	0x4601
RNTI type	C-RNTI
HARQ pid	0
UL LCID	4 (4)
RLC mode	Acknowledged
Bearer	4
RLC SN size	12-bit
ACK SN	128
E1	A set of NACK_SN, E1, E2 and E3 does not follow
UL LCID	61 (Short BSR)
BSR LCG0 idx	0
UL LCID	57 (Single Entry PHR)
UL LCID	63 (Padding)

[Frame 50] RLC AM Status PDU – receiver reports cumulative ACK_SN and any NACK_SN list; drives RLC retransmissions on the AM bearer

RLC AM Status PDU

Duplex	FDD
RNTI	0x4601
RNTI type	C-RNTI

[Frame 51] RLC AM Status PDU – receiver reports cumulative ACK_SN and any NACK_SN list; drives RLC retransmissions on the AM bearer

UE

gNB

HARQ pid	0
UL LCID	4 (4)
RLC mode	Acknowledged
Bearer	4
RLC SN size	12-bit
ACK SN	128
E1	A set of NACK_SN, E1, E2 and E3 does not follow
UL LCID	61 (Short BSR)
BSR LCG0 idx	0
UL LCID	57 (Single Entry PHR)
UL LCID	63 (Padding)

Short BSR

Duplex	FDD
RNTI	0x4601
RNTI type	C-RNTI
HARQ pid	0
UL LCID	61 (Short BSR)
BSR LCG0 idx	0
UL LCID	57 (Single Entry PHR)
UL LCID	63 (Padding)

UL Information Transfer

Duplex	FDD
RNTI	0x4601
RNTI type	C-RNTI
HARQ pid	0
UL LCID	1 (1)
SRB	1
NAS	7e02fe04f88c5c7e...
NAS 5GMM	UL NAS transport
NAS 5GSM	PDU session release request
5GSM cause	Regular deactivation
UL LCID	61 (Short BSR)
BSR LCG0 idx	0
UL LCID	57 (Single Entry PHR)
UL LCID	63 (Padding)

RLC AM Status PDU

Duplex	TDD
RNTI	0x4601
RNTI type	C-RNTI
HARQ pid	0
DL LCID	1 (1)
RLC mode	Acknowledged
Bearer	1
RLC SN size	12-bit
ACK SN	9
E1	A set of NACK_SN, E1, E2 and E3 does not follow
DL LCID	63 (Padding)

UL Information Transfer

Duplex	FDD
RNTI	0x4601
RNTI type	C-RNTI
HARQ pid	0
UL LCID	1 (1)
SRB	1
NAS	7e021fcc83065d7e...
NAS 5GMM	UL NAS transport
NAS 5GSM	PDU session establishment request
UL LCID	61 (Short BSR)
BSR LCG0 idx	0
UL LCID	57 (Single Entry PHR)
UL LCID	63 (Padding)

[Frame 52] Short Buffer Status Report – UE reports queued UL data for one Logical Channel Group

[Frame 53] UL Information Transfer – transparent NAS container from UE to AMF/SMF

[Frame 54] RLC AM Status PDU – receiver reports cumulative ACK_SN and any NACK_SN list; drives RLC retransmissions on the AM bearer

[Frame 55] UL Information Transfer – transparent NAS container from UE to AMF/SMF

UE

gNB

RLC AM Status PDU

Duplex	TDD
RNTI	0x4601
RNTI type	C-RNTI
HARQ pid	0
DL LCID	1 (1)
RLC mode	Acknowledged
Bearer	1
RLC SN size	12-bit
ACK SN	10
E1	A set of NACK_SN, E1, E2 and E3 does not follow
DL LCID	63 (Padding)

[Frame 56] RLC AM Status PDU – receiver reports cumulative ACK_SN and any NACK_SN list; drives RLC retransmissions on the AM bearer

DL Information Transfer

Duplex	TDD
RNTI	0x4601
RNTI type	C-RNTI
HARQ pid	1
DL LCID	1 (1)
SRB	1
Trans ID	0
NAS	7e02f05b8437577e...
NAS 5GMM	5GMM status
5GMM cause	DNN not supported or not subscribed in the slice
DL LCID	63 (Padding)

[Frame 57] DL Information Transfer – transparent NAS container from AMF/SMF to UE

RLC AM Status PDU

Duplex	FDD
RNTI	0x4601
RNTI type	C-RNTI
HARQ pid	0
UL LCID	1 (1)
RLC mode	Acknowledged
Bearer	1
RLC SN size	12-bit
ACK SN	8
E1	A set of NACK_SN, E1, E2 and E3 does not follow
UL LCID	61 (Short BSR)
BSR LCG0 idx	0
UL LCID	57 (Single Entry PHR)
UL LCID	63 (Padding)

[Frame 58] RLC AM Status PDU – receiver reports cumulative ACK_SN and any NACK_SN list; drives RLC retransmissions on the AM bearer