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LTE Signalling Radio Bearer types-SRB0,SRB1,SRB2

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This tutorial section on LTE basics covers following sub topics:

Main page features terminologies Frame TDD FDD Channel PHY throughput VoLTE CA cell search types stack PSS vs SSS LTE Bands network entry **Timers** Security **EARFCN** Hotspot

This page describes **LTE** Signalling Radio Bearer types which include LTE SRB0, SRB1 and SRB2. LTE Signalling radio bearers(**SRB**) are used for the transfer of RRC and NAS signalling messages.

- RRC messages are used as signalling between UE and eNodeB.
- NAS(Non Access Stratum) messages are used as signalling between UE and MME.

RRC messages can be used to encapsulate NAS messages for their transfer between UE and eNodeB. The S1 application protocol is later

used to transfer NAS messages between eNode and MME.

LTE SRB Type	Direction	RRC message	RLC Mode
LTE SRB0 (CCCH)	Downlink	RRC Connection Setup RRC Connection Reject RRC Connection Re- establishment RRC Connection Re- establishment reject	Transparent
	Uplink	RRC Connection Request RRC Connection Re- esblishment Request	
LTE SRB1(DCCH)	Downlink	RRC Connection Reconfiguration RRC Connection Release Security Mode Command UE Capability Enquiry DL information transfer(if no SRB-2) Mobility from EUTRA Command Handover from EUTRA preparation request CS Fallback parameter response CDMA2000 Counter Check	Acknowledged
	Uplink	RRC Connection Setup Complete Security Mode Complete Security Mode Failure	

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		RRC Connection	
		Reconfiguration	
		Complete	
		RRC Connection Re-	
		establishment	
		Complete	
		Measurement report	
		UE Capability	
		information	
		UL Information	
		Transfer(if no SRB2)	
		UL handover	
		preparation transfer	
		CS fallback	
		parameters request	
		CDMA2000	
		Counter Check	
		response	
LTE SRB2	Downlink	DL Information	
(DCCH)		Transfer	
	Unlink	UL Information	
	Uplink		
		Transfer	

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signalling radio bearer I

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As mentioned in the LTE SRB table, there are three types of SRB in the LTE technology.

- SRB0 used to transfer RRC messages which use CCCH channel.
- SRB1 used to transfer RRC messages which use DCCH channel.
- SRB2 used to transfer RRC messages which use DCCH channel and encapsulates a NAS message.

SRB1 is also used to encapsulate NAS message if SRB2 has not been configured.

SRB2 has lower priority then SRB1 and it is always configured after security activation.

SRB0 uses transparent mode RLC while SRB1 and SRB2 use acknowledged mode RLC.

LTE Signalling Radio Bearers(LTE SRB): 3GPP reference TS 36.331

LTE RELATED LINKS

LTE PSS SSS

LTE RS DMRS SRS

LTE PUSCH

LTE PUCCH

LTE PRACH

LTE PMCH

LTE PHICH

LTE PDSCH

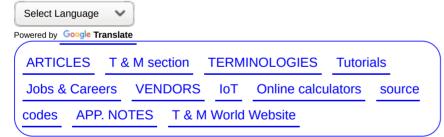
LTE PDCCH

LTE PCFICH

LTE PBCH

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