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LTE Signalling Radio Bearer types-SRB0,SRB1,SRB2

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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-establishment 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 (DCCH) | Downlink | DL Information Transfer |
| | Uplink | UL Information Transfer |

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 than 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



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