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## 5G-NR Tutorials and Call Flows

### 5G-NR call flows, 4G-5G dual connectivity and 5G architecture

#### 5G-NR Call Flows

- [\*5G-NR Non Standalone Access Flow \(EN-DC\) LTE support for 5G dual connectivity will enable 4G network operators to introduce 5G services with a minimal upgrade to support 5G data plane. This is achieved with the support for 4G eNB and 5G gNB dual connectivity \(EN-DC\).\*](#)
- [\*5G-NR Standalone Access Registration Flow As 5G gains momentum, the networks will transition to an end-to-end 5G solution with UEs registering with the 5G Core Network. The 5G standalone access registration signaling flow is similar to the 4G attach and default bearer establishment flow.\*](#)

#### 5G-NR Medium Blog Posts

- [\*5G NR: The New Radio interface for 5G The 5G air interface that scales from cellular to the mm-wave bands.\*](#)
- [\*5G Physical Layer Specifications The 5G specifications have been published as the 3GPP 38 series. Here we look at the physical layer specifications.\*](#)
- [\*Massive MIMO MIMO with large phased array antenna array at the base station.\*](#)
- [\*LDPC-Low Density Parity Check Code 5G AN uses LDPC for channel coding on the traffic channel. LDPC corrects channel errors by\*](#)

[maintaining parity bits for a selection of the data bits.](#)

- [Cloud RAN and eCPRI fronthaul in 5G networks 5G networks will move towards centralizing the radio function using an eCPRI based fronthaul.](#)
- [Mobility with mm-Waves 5G specifications are extending the reach of mobile communication by supporting frequency bands up to 100 GHz.](#)
- [5G Non-standalone access Signaling flow for 5G access via LTE-5G NR dual connectivity \(EN-DC\).](#)
- [5G Service-Based Architecture Learn now the 5G Core Network has been designed around services that are invoked using a standard API.](#)
- [5G Standalone Access Registration Signaling flow for 5G standalone access registration.](#)
- [5G NR RLC Acknowledged Mode Deep dive into the 5G Radio Link Control in Acknowledged Mode.](#)

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