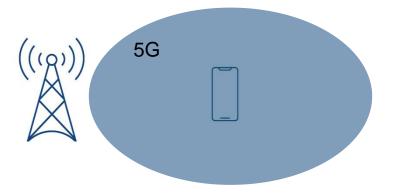
VoNR

- ► 5G SA Mode
- Successor of VoLTE
- Uses IMS as service enabler
- Ultra fast call setup time
- High quality Voice service

Procedure:

- ▶ UE registers to the 5G cell and internal CMX500 IMS Server
- User establishes a voice call with the UE
- ► The internal IMS Server set up the bearer with the 5G core
- Call is established in 5G
- ➤ The user can listen to the echo/loopback voice at the loudspeaker of the DUT

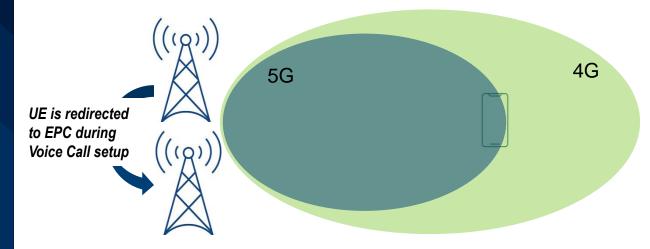


EPS FALLBACK

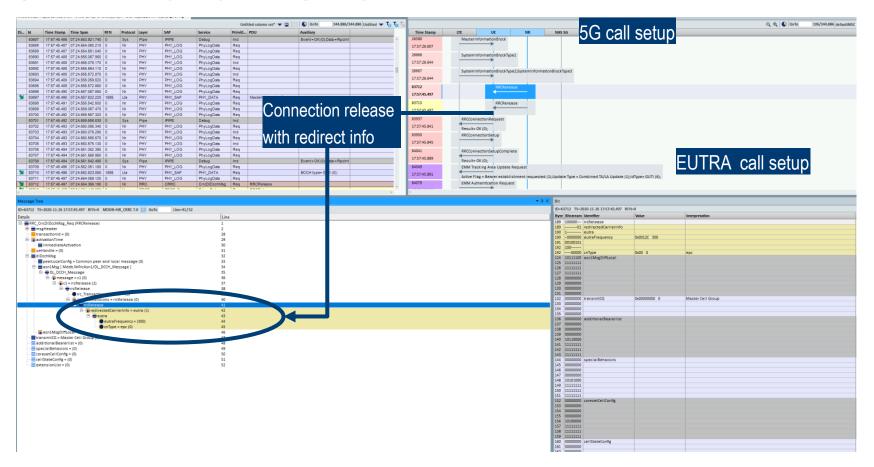
- ▶ Weak 5G coverage
- ➤ 5G cell not configured for VoNR calls
- Mobile device doesn't support VoNR calls
- Avoid handover during a call @ the cell edge

Procedure:

- ► UE registers to the 5G cell and internal CMX500 IMS Server
- ► User establishes a voice call with the UE
- ➤ The internal IMS Server tries to set up the bearer and the 5G core triggers the redirection to 4G
- ➤ After the redirection to 4G voice bearer setup continues / tracking area update happens and the VoLTE call is established
- ► The user can listen to the echo/loopback voice at the loudspeaker of the DUT

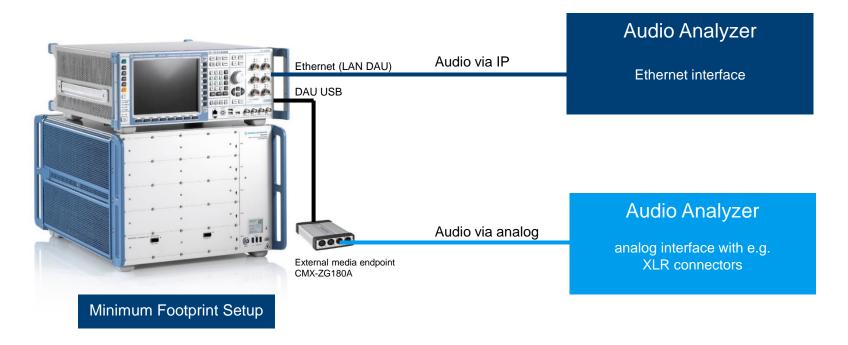


EPS FALLBACK CALL SETUP

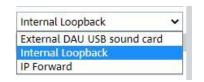


USE CASE: 5G AUDIO QUALITY TEST





USE CASE: 5G AUDIO QUALITY TEST



Example Solution 1:

Example Solution 2:



POLQA test with R&S UPV- or other Audio Analyzers

VOICE OVER 5G – EVOLUTION, DEPLOYMENT, TECHNOLOGY AND TESTING ASPECTS

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