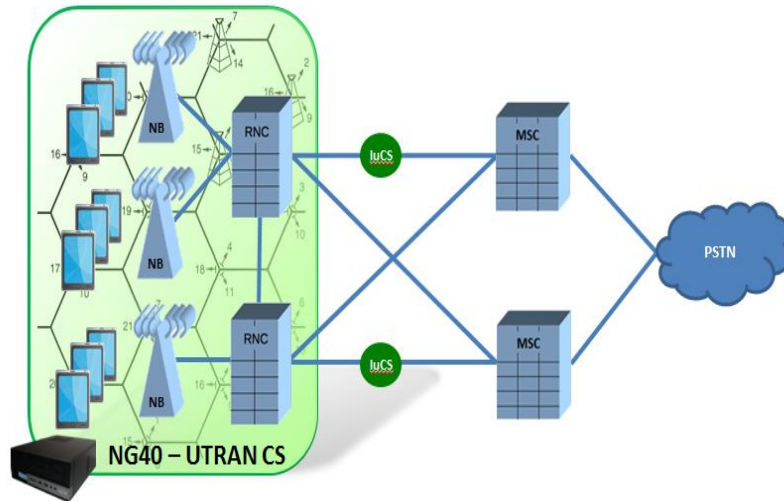


NG40-RAN-IuCS-ETH-DT



SW Bundle: RAN side DEMONSTRATION TEST emulator for multiple RNCs and NodeBs with Control Plane and User Plane functionality over Ethernet

*** FEATURES ***

- RANAP/NAS Release 8+9+10
- Integrated USIM / UE functionality
- Multiple User Support: standard 2 users, extendable
- IPv4/IPv6 Transport-IP

*** SECURITY ***

- Authentication (XOR/Milenage for 3G USIM's, A3/A8 for 2G SIM's)
- Ciphering, Integrity Protection

*** MOBILITY and CALL CONTROL ***

- Paging, Location Update, IMSI Detach, MOC, MTC
- 911 emergency calls
- 3G Handover
- Inter- / Intra-NodeB Handover
- Active call during Handover

*** SERVICES ***

- SMS-Generation including concatenated (long) SMS
- AMR Wideband and Narrowband
- AMR MOC / MTC / Mobile-Mobile calls
- H.324M video calls
- AMR / H.324M mixed traffic
- Loopback calls

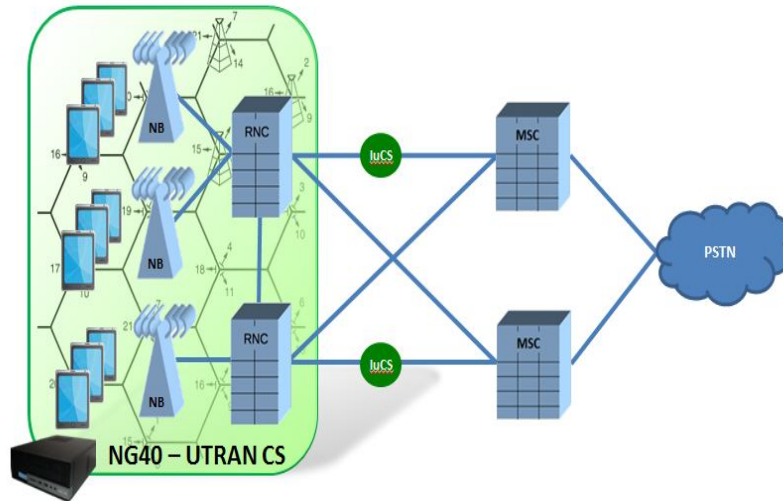
*** EXTENSIONS ***

- Circuit Switched Fallback
- 2G / 4G Handover
- IuPS Mobility / IuCS + IuPS combined calls

*** DEMONSTRATION TEST KPI's ***

- 10 procedures/sec
- 10 concurrent CS call legs
- Up to 200 UE's
- Up to 4 RNC's

NG40-RAN-luCS-ETH-FT



SW Bundle: RAN side FUNCTIONAL TEST emulator for multiple RNCs and NodeB with ControlPlane and UserPlane functionality over Ethernet

*** FEATURES ***

- RANAP/NAS Release 8+9+10
- Integrated USIM / UE functionality
- Multiple User Support: standard 2 users, extendable
- IPv4/IPv6 Transport-IP

*** SECURITY ***

- Authentication (XOR/Milenage for 3G USIM's, A3/A8 for 2G SIM's)
- Ciphering, Integrity Protection

*** MOBILITY and CALL CONTROL ***

- Paging, Location Update, IMSI Detach, MOC, MTC
- 911 emergency calls
- 3G Handover
- Inter- / Intra-NodeB Handover
- Active call during Handover

*** SERVICES ***

- SMS-Generation including concatenated (long) SMS
- AMR Wideband and Narrowband
- AMR MOC / MTC / Mobile-Mobile calls
- H.324M video calls
- AMR / H.324M mixed traffic
- Loopback calls

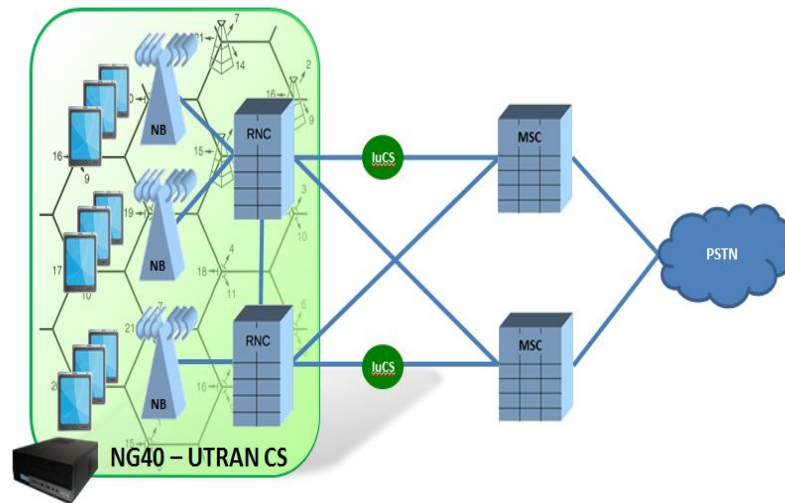
*** EXTENSIONS ***

- Circuit Switched Fallback
- 2G / 4G Handover
- luPS Mobility / luCS + luPS combined calls

*** FUNCTIONAL TEST KPI's ***

- Programming interface for message insertion, modification and deletion
- 100 procedures/sec
- 100 concurrent CS call legs
- Up to 20.000 UE's
- Up to 40 RNC's

NG40-RAN-IuCS-ETH-LT



SW Bundle: RAN side LOAD TEST emulator for multiple RNCs and NodeB with ControlPlane and UserPlane functionality over Ethernet

*** FEATURES ***

- RANAP/NAS Release 8+9+10
- Integrated USIM / UE functionality
- Multiple User Support: standard 2 users, extendable
- IPv4/IPv6 Transport-IP

*** SECURITY ***

- Authentication (XOR/Milenage for 3G USIM's, A3/A8 for 2G SIM's)
- Ciphering, Integrity Protection

*** MOBILITY and CALL CONTROL ***

- Paging, Location Update, IMSI Detach, MOC, MTC
- 911 emergency calls
- 3G Handover
- Inter- / Intra-NodeB Handover
- Active call during Handover

*** SERVICES ***

- SMS-Generation including concatenated (long) SMS
- AMR Wideband and Narrowband
- AMR MOC / MTC / Mobile-Mobile calls
- H.324M video calls
- AMR / H.324M mixed traffic
- Loopback calls

*** LOAD TEST KPI's ***

Typical signaling performance with high end server:

- Up to 3 * 25.000 RANAP msg/s
- RNC: 400
- NodeB: 5000
- Subscriber: 2.000.000
- Up to 5600 concurrent CS call legs
- Up to 2800 concurrent Mobile-Mobile CS calls