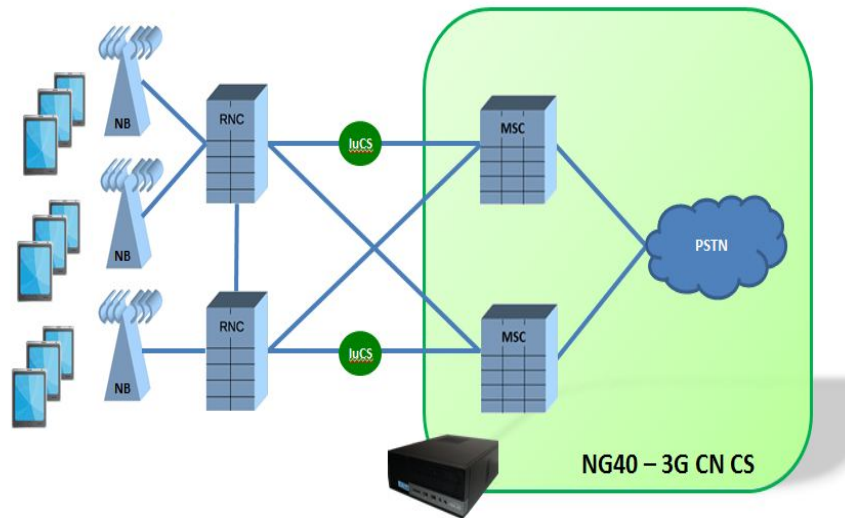


## NG40-CN-IuCS-ETH-DT



CN side DEMONSTRATION TEST emulator for multiple MSCs with ControlPlane and UserPlane functionality over Ethernet

\*\*\* FEATURES \*\*\*

- RANAP/NAS Release 8+9+10
- Integrated HSS / HLR / MGW 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
- IuFlex (NRI- and MOCN-based)

\*\*\* SERVICES \*\*\*

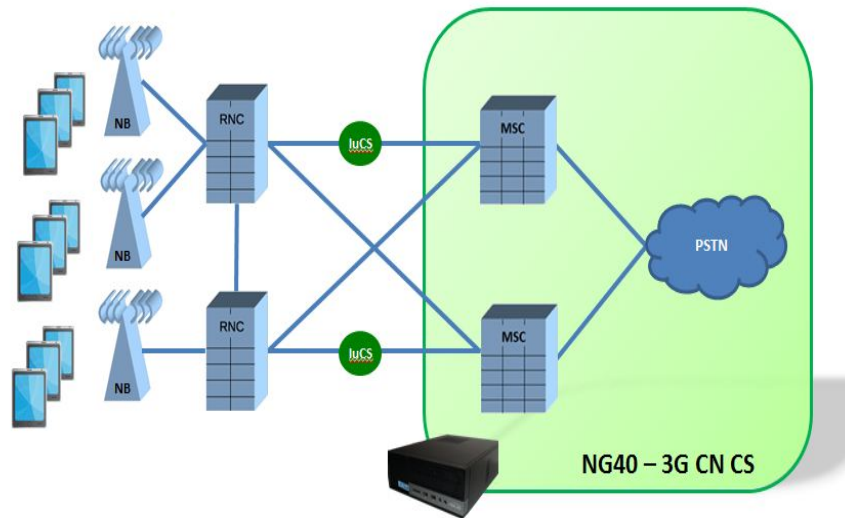
- SMS-Generation including concatenated (long) SMS
- AMR Wideband and Narrowband
- AMR MOC / MTC / Mobile-Mobile calls
- H.324M video calls
- AMR / H.324M mixed traffic
- Loopback calls

\*\*\* EXTENSIONS \*\*\*

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

\*\*\* DEMONSTRATION TEST KPI's \*\*\*

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

**NG40-CN-IuCS-ETH-FT**

CN side FUNCTIONAL TEST emulator for multiple MSCs with ControlPlane and UserPlane functionality over Ethernet

\*\*\* FEATURES \*\*\*

- RANAP/NAS Release 8+9+10
- Integrated HSS / HLR / MGW 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
- IuFlex (NRI- and MOCN-based)

\*\*\* 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

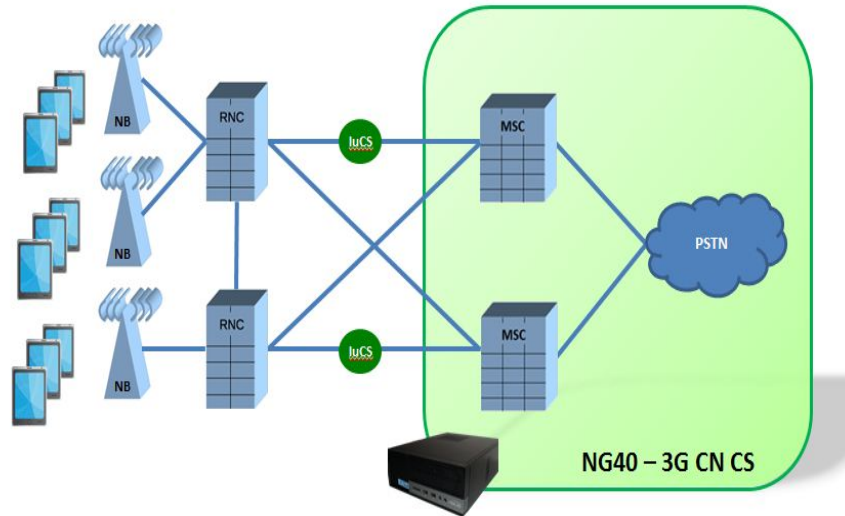
\*\*\* EXTENSIONS \*\*\*

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

\*\*\* FUNCTIONAL TEST KPI's \*\*\*

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

## NG40-CN-IuCS-ETH-LT



CN side LOAD TEST emulator for multiple MSCs with ControlPlane and UserPlane functionality over Ethernet

\*\*\* FEATURES \*\*\*

- RANAP/NAS Release 8+9+10
- Integrated HSS / HLR / MGW 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
- IuFlex (NRI- and MOCN-based)

\*\*\* 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

\*\*\* LOAD TEST KPI's \*\*\*

Typical signaling performance with high end server:

- Up to 3 \* 25.000 RANAP msg/s
- Number of MSCs: 40
- Number of RNCs: 400
- Number NodeBs: 5000
- Subscribers: 2.000.000
- Up to 5600 concurrent CS call legs
- Up to 2800 concurrent Mobile-Mobile CS calls