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# **5G NR NSA Signaling (EN-DC) with EPC Call Flow quiz**

Understand 5G Protocols and Signaling

TP00005-V-0003 S03M01

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## Section 1 5G NR NSA Signaling (EN-DC) with EPC Call Flow quiz

For these exercises we are using the presentation marked as S02M04 NSA\_e2e\_Call.

### Objectives

At the end of this knowledge check, you will be able to:

- Evaluate your understanding about 5G NSA e2e signaling with EPC.

1. What is the correct InitialUE-Identity value during the initial RRC Connection Request.
  - a) I-TMSI
  - b) MCC + MNC
  - c) S-TMSI
  - d) TEID
2. Which specification is featured during Downlink NAS Transport (NAS Security Command Mode)?
  - a) TS 29.103
  - b) TS 24.301
  - c) TS 39.331
  - d) TS 24.501
3. During X2AP SgNB Addition request, which is not a parameter used in this step?
  - a) IP Address
  - b) SUCI
  - c) TEID
  - d) UE security capabilities
4. Which entity reports measurements to the SN-gNB based on measConfig IE?
  - a) UE
  - b) MME
  - c) SN-gNB
  - d) MN-gNB
5. Which IE content is saved by the MN-gNB after the UE sends its own capabilities?
  - a) UE-MRDC-Capability
  - b) I-TMSI
  - c) ngKSI
  - d) None of the above
6. Which specification provides a description for when the SN-gNB provides the Primary Synchronization Signal to the UE?
  - a) TS 38.211
  - b) TS 24.502
  - c) TS 39.331
  - d) TS 29.103
7. What would be the best description for the step "AS Security Command Mode"?
  - a) MN-eNB is forwarding the UE-CapabilityRAT-ContainerList to the MME, according to TS 36.431. This is rat-Type, ue-CapabilityRAT-Container.
  - b) According to TS 36.331, ciphering procedure is to be set between the MN-eNB and the UE. AS Security Mode Command is sent to the UE.

- c) The UE shall cipher the SECURITY MODE COMPLETE message with the selected NAS ciphering algorithm and the EPS NAS ciphering key based on the KASME/K'ASME.
- d) The IE MeasObjectNR specifies information applicable for inter-RAT NR neighboring cells.
- 8. In which step the HSS determines that the UE is authorized to use DC NR services and signals the acceptance to the MME?
  - a) GTPv2 Create Session Response
  - b) Diameter Update Location Answer
  - c) GTPv2 Create Session Request
  - d) Diameter Update Location Request
- 9. Which entities execute the “Modify Bearer Request” step?
  - a) SN-gNB – SGW
  - b) SN-gNB – MME
  - c) MME – SGW
  - d) MME – PGW
- 10. Which SIB is used to inform the presence of 5G-NR PLMNs?
  - a) SIB 0
  - b) SIB 1
  - c) SIB 2
  - d) SIB 3
- 11. Which entity verifies if the UE is authorized for DC NR services?
  - a) MME
  - b) SGW
  - c) HSS
  - d) PCRF
- 12. What is the best description for UE Capability Info indication?
  - a) MN-eNB is forwarding the UE-CapabilityRAT-ContainerList to the MME, according to TS 36.431. This is rat-Type, ue-CapabilityRAT-Container.
  - b) According to TS 36.331, ciphering procedure is to be set between the MN-eNB and the UE. AS Security Mode Command is sent to the UE.
  - c) The UE shall cipher the SECURITY MODE COMPLETE message with the selected NAS ciphering algorithm and the EPS NAS ciphering key based on the KASME/K'ASME.
  - d) The IE MeasObjectNR specifies information applicable for inter-RAT NR neighboring cells
- 13. Which specification describes the “X2AP SgNB Addition” procedure?
  - a) TS 35.212
  - b) TS 38.411
  - c) TS 24.502
  - d) TS 36.423
- 14. Which NR Physical channel is used to order to synchronize the downlink framing?
  - a) PBCH
  - b) PRACH
  - c) PUSCH
  - d) PDCCH

15. Which IE is transmitted during RRC Connection Reconfiguration Complete?
- a) registeredMME
  - b) rrcTransactionIdentifier
  - c) selectedPLMN-Identity
  - d) All the above

**End of document**