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Vendor:Nokia

Exam Code:4A0-M10

Exam Name:Nokia 5G Packet Core Architecture

Version:Demo

QUESTION 1

A connected UE moves from 5GS to EPS using the inter-system handover procedure with N26 interface. Which of the following actions is NOT performed?

- A. Source gNB sends an NGAP Handover Required message to source AMF with handover type set to "NRtoLTE".
- B. Source AMF obtains session management contexts stored in UDM+HSS for each PDU session that supports interworking.
- C. Source AMF sends a Forward Relocation Request message to the target MME and provides session management contexts.
- D. Indirect downlink data forwarding paths are established from source gNB to target eNodeB.

Correct Answer: B

QUESTION 2

The exhibit below displays a packet capture of the PFCP Session Modification Request message sent during a PDU Session Establishments procedure. What do the highlighted TEID and IP Address refer to?

| Source | Destination | Protocol | Length | Info |
|---|-------------|----------|--------|-----------------------------------|
| SMF | UPF | PFCP | 198 | PFCP Session Modification Request |
| Message Type: PFCP Session Modification Request (52) Length: 152 SEID: 0x0000000000001a100 Sequence Number: 786434 Spare: 0 | | | | |
| ▼ Update FAR : [Grouped IE] IE Type: Update FAR (10) IE Length: 62 > FAR ID: Dynamic by CP 537198592 | | | | |
| ▼ Apply Action: IE Type: Apply Action (44) IE Length: 1 > Flags: 0x02, FORM (Forward) | | | | |
| ▼ Update Forwarding Parameters : [Grouped IE] IE Type: Update Forwarding Parameters (11) IE Length: 45 > Destination Interface : Access > Network Instance : n3-default | | | | |
| ▼ Outer Header Creation : IE Type: Outer Header Creation (84) IE Length: 10 Outer Header Creation Description: GTP-U/UDP/IPv4 (256) | | | | |
| <div style="border: 2px solid red; padding: 2px;"> TEID: 0x10000001 IPv4 Address: 10.10.100.32 (10.10.100.32) </div> | | | | |

- A. The N3 TEID allocated by gNB and the gNB IP address.
- B. The N3 TEID allocated by UPF and the UPF IP address.
- C. The N3 TEID allocated by SMF and the SMF IP address.
- D. The N3 TEID allocated by SMF and the UPF IP address.

Correct Answer: D

QUESTION 3

Which of the following best describes the Secondary Node Addition procedure?

- A. Used to transfer bearer contexts from the master eNB to the secondary gNB.
- B. Used to establish a UE context at the gNB for a UE that supports option 3X.

- C. Used to establish connectivity from the gNB to the EPC.
- D. Used to establish an X2 connection between the eNB and gNB.

Correct Answer: D

QUESTION 4

An AMF needs to know when an SMF deregisters with the NRF. Which of the following NRF APIs should the AMF use?

- A. Nnrf_NFManagement_NFUpdate Request
- B. Nnrf_NFDiscovery_NFDiscover Request
- C. Nnrf_NFManagement_NFStatusSubscribe Request
- D. Nnrf_NFManagement_NFDeregister Request

Correct Answer: A

Reference: https://www.etsi.org/deliver/etsi_ts/123500_123599/123502/15.03.00_60/ts_123502v150300p.pdf

QUESTION 5

Which of the following statements about the protection of service-based interfaces (SBIs) is FALSE?

- A. The transport layer security (TLS) performs certification-based authentication, providing connection security between network functions within a PLMN.
- B. The OAuth 2.0 framework is used to secure the communication between network functions within a PLMN at the network layer.
- C. The network domain security/Internet protocol (NDS/IP) provides confidentiality and data integrity between network functions within a PLMN.
- D. The security edge protection proxy (SEPP) handles the security of inter-domain SBIs and protects the interaction between network functions in different PLMNs.

Correct Answer: D

Reference: <https://www.broadforward.com/security-edge-protection-proxy/>

QUESTION 6

Which of the following actions is NOT performed when handling an uplink data packet?

- A. UE maps the uplink data packet to a QoS Flow based on QoS rules received from SMF.
- B. UE maps the QoS Flow identifier to a data radio bearer based on QFI-to-DRB mapping received from NG-RAN.

C. NG-RAN marks the data packet with the proper DSCP value.

D. NG-RAN removes the QoS Flow identifier from the packet header and forwards the packet over the proper N3 GTP-U tunnel.

Correct Answer: A

QUESTION 7

Which of the following statements about the 5G-globally unique temporary identity (5G-GUTI) is FALSE?

A. The 5G-GUTI provides a clear identification of the UE without revealing the UE permanent identity.

B. The 5G-GUTI contains an element identifying the AMF which allocated it.

C. The 5G network pages an idle UE using its 5G-GUTI.

D. During the initial registration procedure, the AMF allocates a 5G-GUTI and sends it to the UE.

Correct Answer: A

QUESTION 8

Which of the following actions is NOT performed during an Xn-based Inter NG-RAN Handover with I-UPF Insertion procedure?

A. AMF determines that a new I-UPF needs to be added for a PDU session.

B. SMF provides N3 tunnel info of I-UPF to target gNB via AMF.

C. SMF provides N9 tunnel info of UPF PSA to I-UPF.

D. SMF provides N9 tunnel info of I-UPF to UPF PSA.

Correct Answer: B

QUESTION 9

Which of the following statements about network slice selection assistance information (NSSAI) is FALSE?

A. Allowed NSSAI is a set of slices provided to UE by AMF during UE registration procedure.

B. Requested NSSAI is a set of slices provided by UE to the network and contains values from serving PLMN.

C. Subscribed NSSAI is a set of slices specified in the UE subscription data and contains only home PLMN values.

D. Configured NSSAI is a set of slices configured on the AMF and contains slices supported per tracking area.

Correct Answer: A

QUESTION 10

A UE is handed off from gNB1 to gNB2 using an N2-based handover procedure. The source I-UPF is to be relocated and an indirect data forwarding path is to be used. Which of the following statements is TRUE?

- A. AMF decides that an indirect data forwarding path is required and sends an indication to SMF.
- B. gNB2 tunnel info is allocated for the indirect forwarding path and is included in the Handover Request Ack message sent to AMF.
- C. Target I-UPF tunnel info is allocated for the indirect forwarding path and is provided to the UPF PSA.
- D. UPF PSA tunnel info is allocated for the indirect forwarding path and is provided to the source I-UPF.

Correct Answer: A

QUESTION 11

Which of the following is NOT an EDCE5 core enhancement to support Option 3X?

- A. Support for higher data rates for EPC interfaces.
- B. MME selection of appropriate gateways capable of supporting NR.
- C. PGW selection of appropriate PCRF that supports 5G policies.
- D. Controlled UE access to NR based upon subscription information.

Correct Answer: A

QUESTION 12

A UE triggers an initial registration procedure to use services offered by a 5G network. Which of the following actions is NOT performed as a result of this procedure?

- A. AMF interacts with AUSF to authenticate the UE.
- B. AMF interacts with PCF to create an AM (access and mobility) policy association.
- C. AMF retrieves the UE AM (access and mobility) and SM (session management) data from UDM.

D. AMF allocates a 5G-GUTI and includes it in the Registration Accept message sent to UE.

Correct Answer: C

Reference: <https://www.sciencedirect.com/topics/engineering/registration-area>