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Nokia Mobility Manager

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QUESTION 1

Which of the following statements regarding the role of the MME in the packet core is FALSE?

- A. MME manages registration, authentication, and mobility for the UE.
- B. MME handles setup and management of UE connections to data and voice over LTE.
- C. MME routes and forwards user data packets received from eNodeB.
- D. MME selects the appropriate SGW and PGW during a UE relocation.

Correct Answer: C

Reference: https://en.wikipedia.org/wiki/System_Architecture_Evolution

QUESTION 2

The DNS NAPTR records shown in the exhibit are returned to the MME during SGW/PGW selection.

If gateway selection mode 1 is used, which SGW/PGW pair is selected by the MME?

Order	Preference	Flags	Services	Replacement
200	800	"a"	x-3gpp-sgw:x-s11-gtp	topon.eth10.sgw01.pool1.nodes.3gppnetwork.org
300	500	"a"	x-3gpp-sgw:x-s11-gtp	topon.eth10.sgw02.pool2.nodes.3gppnetwork.org

Order	Preference	Flags	Services	Replacement
200	500	"a"	x-3gpp-pgw:x-s5-gtp	topon.eth5.pgw01.pool2.nodes.3gppnetwork.org
300	800	"a"	x-3gpp-pgw:x-s5-gtp	topon.eth6.pgw02.pool1.nodes.3gppnetwork.org

- A. sgw01 and pgw01
- B. sgw01 and pgw02
- C. sgw02 and pgw01
- D. sgw02 and pgw02

Correct Answer: B

QUESTION 3

What information does eNodeB use to ensure MME load balancing during MME selection?

- A. MME relative capacity value received from each MME in the pool
- B. MME capacity value received from the UE attach request message

- C. MME capacity value from the UE's subscription data received from the HSS
- D. MME relative capacity value calculated by each MME based on the current network load

Correct Answer: A

QUESTION 4

Which of the following is a Diameter interface connected to the MME?

- A. S1-MME
- B. S11
- C. Gx
- D. SLg

Correct Answer: B

QUESTION 5

Which of the following statements regarding IMS emergency services is FALSE?

- A. IMS emergency services depend on location services (LCS).
- B. MME obtains emergency PGW identity from the subscription data in HSS.
- C. Local emergency number list is used by UE to detect if an emergency number is dialed.
- D. MME can be configured to provide emergency services to UEs in limited service state.

Correct Answer: A

QUESTION 6

Which of the following is NOT an EPS session management (ESM) function performed by MME?

- A. Support default bearer creation, modification, and deletion
- B. Support dedicated bearer creation, modification, and deletion
- C. Inform other network elements about subscription data changes in HSS
- D. Perform network element selection

Correct Answer: A

QUESTION 7

Which of the following is NOT performed by the MME during service request procedure?

- A. MME sends paging messages to a list of eNodeBs.
- B. MME updates the SGW with current eNodeB information.
- C. MME re-establishes S11 bearers for the UE.
- D. MME requests eNodeB to establish radio and S1 bearers for the UE.

Correct Answer: C

QUESTION 8

Which of the following statements best describes a home PLMN?

- A. A network where a UE is currently registered and has a different PLMN ID from the UE's PLMN ID
- B. A provisioned network that is shared by multiple operators
- C. A network where a UE is currently being served
- D. A network where a UE is subscribed

Correct Answer: C

QUESTION 9

Which of the following statements regarding the SMC procedure is FALSE?

- A. SMC procedure must be completed successfully before AKA procedure starts.
- B. MME sends a security mode command message to the UE.
- C. UE responds with a security mode complete message.
- D. SMC procedure is used to provide NAS signaling security between the UE and the MME.

Correct Answer: A

QUESTION 10

Given the exhibit, the MME is unable to retrieve authentication vector (AV) from the HSS and the initial UE attach fails.

Which of the following actions is useful for troubleshooting this problem?

```
# cmm nbiPing list --pingTarget 10.10.9.1 --pingSourceIp 10.10.9.2
+-----+
| nbiPing | pingOutput |
+-----+
| 10.10.9.1 | PING 10.10.9.1 (10.10.9.1) from 10.10.9.2 : 56(84) bytes of data.;64 bytes from 10.10.9.1: icmp_seq=1 ttl=64 |
| | time=0.674 ms;64 bytes from 10.10.9.1: icmp_seq=2 ttl=64 time 0.384 ms;64 bytes from 10.10.9.1: icmp_seq=3 ttl=64 |
| | time=0.427 ms;64 bytes from 10.10.9.1: icmp_seq=4 ttl=64 time 0.495 ms;64 bytes from 10.10.9.1: icmp_seq=5 ttl=64 |
| | time=0.426 ms;--- 10.10.9.1 ping statistics ---;5 packets transmitted, 5 received, 0% packet loss, time 4001ms;rtt |
| | min/avg/max/mdev = 0.384/0.481/0.674/0.103 ms; |
+-----+

# cmm multiLink list
+-----+-----+-----+-----+-----+-----+-----+
| multilink | linkInterfaceType | linkIndex | linkAdminState | linkOperationState | alarmState | remoteIp1 | remoteIp2 |
+-----+-----+-----+-----+-----+-----+-----+
| s6ad      | s6ad              | 0         | unlocked       | unknown            | none      | 10.10.9.1 | 0.0.0.0    |
+-----+-----+-----+-----+-----+-----+-----+
```

- A. Verify if the IMSI to HSS mapping list is configured properly.
- B. Verify if a GTP profile is associated with the S6a interface.
- C. Verify if the TAI value matches between the MME and the HSS.
- D. Verify if the DNS server is provisioned to dynamically discover the HSS IP address.

Correct Answer: D

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