

4A0-M02^{Q&As}

Alcatel-Lucent Mobile Gateways for the LTE Evolved Packet Core

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QUESTION 1

Which of the following statements is FALSE regarding the EPS bearers?

- A. An EPS bearer is either a GBR bearer or a Non-GBR bearer.
- B. An EPS bearer is either a default bearer or a dedicated bearer.
- C. A dedicated bearer can be a GBR or a Non-GBR bearer.
- D. A default bearer can be a GBR or a Non-GBR bearer.
- E. A UE can have multiple GBR or Non-GBR bearers.

Correct Answer: D

QUESTION 2

Which of the following statements are TRUE regarding the SDF templates /filters? (Choose three)

- A. An SDF filter can identify an SDF flow by matching the information in the IP 5-tuple and the Layer-7 application
- B. One SDF template can have only one SDF filter for each direction.
- C. One dedicated bearer can have more than one SDF template and multiple SDF filters.
- D. One dedicated bearer can have only one SDF template.
- E. One SDF template can have multiple SDF filters for each direction,
- F. One dedicated bearer can have more than one SDF template.

Correct Answer: CEF

QUESTION 3

Based on the information shown in the exhibit, which of the following is the time interval used by the SGW to retransmit a GTP signaling message?

```
*A:SGW# show mobile-gateway profile gtp default

=====
GTP profile
=====
Profile name           : default
Description            : N/A
Msg retransmit timeout : 5 secs      Msg retransmit retry count : 3
Keep alive timeout    : 60 secs      Keep alive retry count    : 3
Keep alive T3 response : 3 secs
IP TTL                : 255          IP DSCP                    : 56
=====
Number of profiles : 1
=====
```

- A. 3 seconds
- B. 5 seconds
- C. 6 seconds
- D. 60 seconds
- E. 90 seconds

Correct Answer: B

QUESTION 4

Which of the following statements is TRUE when a UE is in the EMM_DEREGISTERED/ECM_IDLE state?

- A. There is no radio bearer between the UE and the eNodeB. The S1-MME, S1-U, and S5 connections are all released for the UE.
- B. There is no radio bearer between the UE and the eNodeB. The S1-MME connection is released but the S1-U and S5 connections are still available for the UE.
- C. There is no radio bearer between the UE and the eNodeB. The S1-MME and the S1-U connections are released but the S5 connection is still available for the UE.
- D. There is no radio bearer between the UE and the eNodeB. The S1-MME, S1-U and S5 connections are still available for the UE.
- E. None of the above answers are correct.

Correct Answer: A

QUESTION 5

On the Alcatel-Lucent 7750 SGW, which of the following is the CLI command to check the "UP / IDLE" state for the GTP path to a PGW?

- A. Show mobile-gateway serving ref-point-peers s5
- B. Show mobile-gateway serving ref-point-stats s5
- C. Show mobile-gateway serving ref-point-peers s1u
- D. Show mobile-gateway serving path-mgmt s5
- E. None of the above answers are correct.

Correct Answer: A

QUESTION 6

Which of the following LTE interfaces are used for the communication of control messages? (Choose one best answer)

- A. The S1-MME interface and the S11 interface.
- B. The S5 interface.
- C. The Gx interface.
- D. The LTE-Uu interface and the Rx interface.
- E. All of the above answers are correct.
- F. Only answers A, B and C are correct.

Correct Answer: E

QUESTION 7

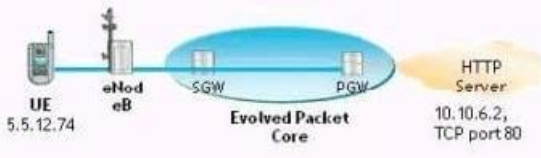
On the Alcatel-Lucent 7750 PGW, which of the following is the default setting of the APN "selectionmode"?

- A. ms-provided-apn
- B. network-provided-apn
- C. subscribed-apn
- D. virtual-apn
- E. None of the above answers are correct

Correct Answer: C

QUESTION 8

A HE (HTTP client) is communicating with an HTTP server over The EPC core Based on the information shown in the exhibit, what is the maximum HTTP traffic rate that the UE may have in the DL direction?



```

A:PCGW# show mobile-gateway pdn bearer-context imsi 302720123456789 detail
Bearer context detail
=====
IMSI          : 302720123456789
APN           : ipd.alcatel-lucent.com
Bearer Id     : 5                Bearer type   : Default
QCI/ARP      : 9/12              SDFs         : 0
Up Time      : 0d 00:01:42

S5 PGW Data TEID : 0xd04925          S5 SGW Data TEID : 0x4b00705
S5 PGW Data addr : 10.10.7.2
S5 SGW Data addr : 10.10.7.1

S5 DL packets   : 235681          S5 DL bytes     : 337942413
SGI UL packets  : 235585          SGI UL bytes    : 12756220
-----
IMSI          : 302720123456789
APN           : ipd.alcatel-lucent.com
Bearer Id     : 6                Bearer type   : Dedicated
QCI/ARP      : 2/12             SDFs         : 2
Up Time      : 0d 00:01:29
...

S5 DL packets   : 0                S5 DL bytes     : 0
SGI UL packets  : 0                SGI UL bytes    : 0

SDF rule name  : rule-1
SDF precedence : 2                SDF pkt filters : 2
SDF QoS UL MBR : 15000 Kbps       SDF QoS DL MBR : 15000 Kbps
SDF QoS UL GBR : 10000 Kbps       SDF QoS DL GBR : 10000 Kbps
Filter id      : 2                Filter direction: DL
Filter protocol: udp
Source address : 10.10.6.2/32
Source ports   : 120 - 121
Destination addr: 5.5.12.74/32
Filter id      : 3                Filter direction: UL
Filter protocol: udp
Source address : 5.5.12.74/32
Destination addr: 10.10.6.2/32
Destination ports: 120 - 121

SDF rule name  : rule-2
SDF precedence : 20               SDF pkt filters : 2
SDF QoS UL MBR : 15000 Kbps       SDF QoS DL MBR : 15000 Kbps
SDF QoS UL GBR : 10000 Kbps       SDF QoS DL GBR : 10000 Kbps
Filter id      : 0                Filter direction: DL
Filter protocol: udp
Source address : 10.10.6.2/32
Source ports   : 20 - 21
Destination addr: 5.5.12.74/32
Filter id      : 1                Filter direction: UL
Filter protocol: udp
Source address : 5.5.12.74/32
Destination addr: 10.10.6.2/32
Destination ports: 20 - 21
    
```

```

*A:PCGW# show mobile-gateway pdn bearer-context
Bearer context
=====
IMSI          APN           Bearer Type QCI/ARP MBR/GBR SDFs
-----
302720123456789 ipd.alcatel-luce* 5      Def 9/12 - 0
302720123456789 ipd.alcatel-luce* 6      Ded 2/12 30000/20000 2
    
```

```

*A:PCGW# show mobile-gateway pdn pdn-context imsi 302720123456789 detail
PDN context detail
=====
IMSI          : 302720123456789
APN           : ipd.alcatel-lucent.com
PDN type      : IPv4              LEI           : 5
S5 sig protocol : GTP              APN restriction : 0
UL APN AMBR   : 55000 kbps         DL APN AMBR   : 55000 kbps
Bearer contexts : 2                SDFs         : 2
Piggyback bearers requested : 0
Piggyback bearers creation successful : 0

Charging bearer *: Visiting
UE IPv4 address : 5.5.12.74

S5 PGW Ctrl Teid : 0xd04900          S5 SGW Ctrl Teid : 0x4b00700
S5 PGW V4 Ctl Adr: 10.10.7.2        S5 SGW V4 Ctl Adr: 10.10.7.1
Cx PCRF addr    : 10.10.5.2
Cx PGW addr     : 10.10.5.1
PCRF triggers   : N/A
    
```

- A. 10000 kbps
- B. 15000 kbps
- C. 20000 kbps
- D. 30000 kbps
- E. 55000 kbps
- F. None of the above answers are correct.

Correct Answer: E

QUESTION 9

Which of the following messages are exchanged between the PGW and the PCRF during the UE attachment procedure?

- A. Authorization Control Request/ Authorization Control Answer
- B. Credit Control Request / Credit Control Answer

- C. Create Session Request/ Create Session Answer
- D. Attach Request/Attach Answer

Correct Answer: B

QUESTION 10

Which of the following statements are FALSE regarding the SDF templates / filters? (Choose two)

- A. One dedicated bearer can have more than one SDF template.
- B. One SDF template can have only one SDF filter for each direction.
- C. One dedicated bearer can have more than one SDF template and multiple SDF filters.
- D. One dedicated bearer can have only one SDF template.
- E. One SDF template can have multiple SDF filters for each direction.

Correct Answer: BD

QUESTION 11

Which of the following statements is FALSE regarding the MG-ISM module on an Alcatel-Lucent 7750 MG?

- A. The MG-ISM module implements the PCC rules for the EPS bearers.
- B. The MG-ISM module can be configured as a SGW/SGSN or a PGW/GGSN.
- C. The MG-ISM module enforces the QoS rules for the EPS bearers.
- D. On an Alcatel-Lucent 7750 MG, two MG-ISM modules can be configured as 1+1 redundant.
- E. The switchover from the active MG-ISM card to the standby MG-ISM card has no impact on other EPC nodes

Correct Answer: B

QUESTION 12

Which of the following statements are FALSE regarding the SGW? (Choose two)

- A. The SGW is connected to the E-UTRAN via the S1-u interface.
- B. At a given time, a single SGW handles all the connections for a given UE.
- C. The SGW provides downlink data buffering and paging for an idle UE.
- D. The SGW can connect to only one PGW.
- E. The SGW acts as a common anchor point during handovers between LTE and Release 8 UMTS networks.

F. The SGW may provide data plane connectivity between two eNodeBs.

Correct Answer: CD

QUESTION 13

After a UE attachment procedure, which GTP-U tunnels are established for the UE?

- A. S1-MME GTP-U tunnel and S5 GTP-U tunnel.
- B. S1-U GTP-U tunnel and S5 GTP-U tunnel.
- C. S1-U GTP-U tunnel. S5 GTP-U tunnel, and Gx GTP-U tunnel.
- D. S1-U GTP-U tunnel and Gx GTP-U tunnel.
- E. No GTP-U tunnels are established.

Correct Answer: B

QUESTION 14

Which of the following most accurately describes the QCI / ARP?

- A. The QCI has 9 classes and the ARP has 15 levels.
- B. A default QCI/ARP policy is predefined on the Alcatel-Lucent 7750 MG and cannot be modified.
- C. Each EPS bearer is associated with one QCI value.
- D. All of the above answers are correct.
- E. Only answers A and B are correct.

Correct Answer: D

QUESTION 15

Which of the following statements is FALSE regarding the S1-based handover?

- A. The SGW may be relocated.
- B. The MME may be relocated.
- C. Direct data forwarding via the X2 interface may be used.
- D. Indirect data forwarding via the SGW may be used.
- E. None of the above statements are false.

Correct Answer: E

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