

4A0-M02^{Q&As}

Alcatel-Lucent Mobile Gateways for the LTE Evolved Packet Core

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QUESTION 1

Which of the following are Diameter-based interfaces?

- A. The RF and the S10 interfaces.
- B. The RF and the Gx interfaces.
- C. The Rx and the S4 interfaces.
- D. The Rx and the SGi interfaces.
- E. The S9 and the S11 interfaces.

Correct Answer: B

QUESTION 2

Which of the following statements is TRUE regarding the IP connectivity between a UE and a PDN?

- A. A UE gets an IPv4 address and/or an IPv6 prefix per APN.
- B. A PGW forwards the UE's IP packets to the PDN based on the address of the PDN server.
- C. When a UE sends an IP packet to a PDN over the EPC core, the eNodeB forwards the encapsulated packet to the SGW by looking into its IP routing table to determine how to reach the PDN server.
- D. The SGW forwards the UE's IP packets to the PGW based on the address of the PDN server.
- E. Only answers C and D are correct.
- F. Only answers A and B are correct.

Correct Answer: F

QUESTION 3

Which of the following statements is FALSE regarding the Gx interface?

- A. It is a Diameter-based interface between the PCRF and the PCEF.
- B. The PCEF can act as a client or as a server for the Diameter connection depending on which application is running over the Gx interface.
- C. The PCEF receives the QoS information for a bearer from the PCRF over the Gx interface.
- D. It runs a vendor specific application identified by an application ID value of 16777238.
- E. It is never used to transport user data packets.

Correct Answer: B

QUESTION 4

During the establishment of a default bearer, which of the following statements are TRUE regarding the TEID-U assigned by the eNodeB to the S1-U tunnel? (Choose two)

- A. The eNodeB includes this TEID-U value in the Create Session Request message sent to the SGW over the S1 interface.
- B. The eNodeB includes this TEID-U value in the Attach Request message sent to the MME over the S1MME interface.
- C. The MME includes this TEID-U value in the Create Session Request message sent to the SGW over the S11 interface.
- D. The MME includes this TEID-U value in the Modify Bearer Request message sent to the SGW over the S11 interface.
- E. The eNodeB includes this TEID-U value in the Attach Complete message sent to the MME over the S1MME interface.
- F. The eNodeB includes this TEID-U value in the Modify Bearer Request message sent to the SGW over the S1 interface.

Correct Answer: DE

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?

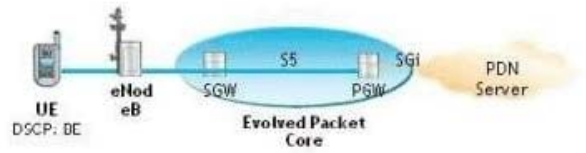
- A. Show mobile-gateway serving ref-point-peers s5
- B. Show mobile-gateway serving ref-point-stats s5
- C. Show mobile-gateway serving ref-point-peers s1u
- D. Show mobile-gateway serving path-mgmt s5
- E. None of the above answers are correct.

Correct Answer: A

QUESTION 6

A UE is sending best-effort (BE) IP traffic to a PDN server over the EPC core. Based on the information shown in the exhibit, what is the DSCP value of traffic egressing the SGi interface of the PGW to the PDN server?

```
*A:PGW>config>mobile# info
-----
profile
  diameter-peer "diam-peer-1"
  application-type gx
  destination-realm "lucent.com"
  diameter-profile "default"
  interface "int-gx"
  peer 10.10.5.2 port 3868
  no shutdown
  exit
exit
policy-options
  qci-policy "dl-qci-pl"
  qci 9 arp l2
  dscp ef
  no dscp-preserve
  fc "ef"
  profile in
  exit
  qci-policy "ul-qci-pl"
  qci 9 arp l2
  dscp af21
  no dscp-preserve
  profile out
  exit
  exit
exit
exit
pdn 1
  apn "ipd.alcatel-lucent.com"
  pcrf-selection
  dynamic-pcc
  exit
  ip-alloc-method local-pool
  pdn-type ipv4
  pdn-type ipv6
  pdn-type ipv4v6
  router "Base"
  ip-local-pool "ipdpool"
  exit
  selection-mode subscribed-apn
  no shutdown
  exit
exit
<Output continued in the right window>
```



```
signaling
  diameter
  origin-host "diam.origRealm.com"
  origin-realm "origRealm.com"
  profile "default"
  exit
  interface "system"
  exit
  kpi-kci
  exit
  gpx
  pcrf-selection
  primary-diameter-peer "diam-peer-1"
  exit
  s5
  interface
  gtp-c "int-s5"
  gtp-u "int-s5"
  exit
  no shutdown
  exit
  system
  group 1 redundancy one-to-one gateway 1
  card 2 working
  exit
  exit
-----
```

- A. BE
- B. EF
- C. AF21
- D. NC
- E. None of the above answers are correct.

Correct Answer: A

QUESTION 7

A UE is sending data to its FTP server over the EPC core with the TCP port 20. Based on the information shown in the exhibit, which of the following bearer(s) will be used for the uplink FTP flow?

```
*A:PGW# 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   15000/10000 1
302720123456789  ipd.alcatel-luce* 7   Ded  4/10   5000/2500  1
-----
Number of bearer contexts : 3
```



```
*A:PGW# 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 00:00:52
...
-----
IMSI          : 302720123456789
APN           : ipd.alcatel-lucent.com
Bearer Id     : 6           Bearer type   : Dedicated
QCI/ARP      : 2/12        SDFs         : 1
Up Time      : 0d 00:00:29
...
SDF rule name : rule-1
...
SDF precedence : 20           SDF pkt filters : 2
SDF QoS UL MBR : 15000 Kbps   SDF QoS DL MBR : 15000 Kbps
SDF QoS UL GER : 10000 Kbps SDF QoS DL GER : 10000 Kbps
Filter id      : 0           Filter direction : DL
Filter protocol : udp
Source address : 10.10.6.2/32
Source ports   : 20 - 21
Destination addr : 5.5.12.45/32
Filter id      : 1           Filter direction : UL
Filter protocol : udp
Source address : 5.5.12.45/32
Destination addr : 10.10.6.2/32
Destination ports : 20 - 21
<Output continued in the right window>
```

```
-----
IMSI          : 302720123456789
APN           : ipd.alcatel-lucent.com
Bearer Id     : 7           Bearer type   : Dedicated
QCI/ARP      : 4/10        SDFs         : 1
Up Time      : 0d 00:00:29
...
SDF rule name : rule-2
...
SDF precedence : 100           SDF pkt filters : 2
SDF QoS UL MBR : 5000 Kbps   SDF QoS DL MBR : 5000 Kbps
SDF QoS UL GER : 2500 Kbps  SDF QoS DL GER : 2500 Kbps
Filter id      : 0           Filter direction : DL
Filter protocol : tcp
Source address : 10.10.6.2/32
Source ports   : 20 - 21
Destination addr : 5.5.12.45/32
Filter id      : 1           Filter direction : UL
Filter protocol : tcp
Source address : 5.5.12.45/32
Destination addr : 10.10.6.2/32
Destination ports : 20 - 21
-----
Number of bearer contexts : 3
```

- A. The bearer # 5 will be used for the FTP flow.
- B. The bearer #6 will be used for the FTP flow.
- C. The bearer #7 will be used for the FTP flow.
- D. Both bearer # 5 and bearer # 6 will be used for the FTP flow.
- E. Both bearer #5 and bearer #7 will be used for the FTP flow.

Correct Answer: C

QUESTION 8

Which of the following statements is FALSE regarding the SGW?

- A. A UE may be served by more than one SGW at a given time.
- B. The SGW is connected to the E-UTRAN via the S1-u interface.
- C. The SGW may provide data plane connectivity between two eNodeBs.
- D. The SGW connects to the PGW via the S5/S8 interface.

E. The SGW acts as a common anchor point during handovers between LTE and Release 8 UMTS networks.

Correct Answer: A

QUESTION 9

On Alcatel-Lucent 7750 PGW, which of the following CLI commands can be used to check the TEID-C values assigned to an S5 GTP-C tunnel for a particular UE?

- A. Show mobile-gateway pdn pdn-context
- B. Show mobile-gateway pdn pdn-context imsi detail
- C. Show mobile-gateway pdn ue-context
- D. Show mobile-gateway pdn ue-context imsi detail
- E. Show mobile-gateway pdn bearer-context
- F. Show mobile-gateway pdn bearer-context imsi detail

Correct Answer: B

QUESTION 10

On Alcatel-Lucent 7750 SGW, which of the following CLI commands can be used to check the number of times a handover procedure has been performed for a particular UE?

- A. Show mobile-gateway serving call-flow-stats
- B. Show mobile-gateway serving pdn-context imsi detail
- C. Show mobile-gateway serving ue-context imsi detail
- D. Show mobile-gateway serving bearer-context imsi detail
- E. Show mobile-gateway serving ref-point-stats s11

Correct Answer: C

QUESTION 11

On an Alcatel-Lucent 7750 PGW, which of the following is the CLI context where you can specify the IP address and port number of a PCRF server?

- A. Under the Diameter profile context.
- B. Under the Diameter Peer profile context.
- C. Under the Gx interface context.

D. Under the APN context.

E. None of the above answers are correct.

Correct Answer: B

QUESTION 12

Based on the information shown in the exhibit, how many IP addresses has the PGW allocated in total for all UEs?

```
A:PGW# show mobile-gateway pdn bearer-context

=====
Bearer context
=====
IMSI                APN                Bearer  Type  QCI/ARP  MBR/GBR  SDFs
-----
302720123456791    ipd.alcatel        5       Def   9/12     -         0
302720123456791    ipd.alcatel        6       Ded   2/2     30000/20000  1
302720123456790    ipd.alcatel        5       Def   9/12     -         0
302720123456790    ipd.alcatel        6       Ded   3/3     30000/20000  1
302720123456789    ipd.alcatel        5       Def   9/12     -         0
302720123456789    ipd.alcatel        6       Ded   4/4     30000/20000  1
=====
```

B. 5

C. 4

D. 3

E. 2

F. 1

Correct Answer: D

QUESTION 13

On Alcatel-Lucent 7750 PGW, which of the following CLI commands can be used to debug a given IMSI?

A. debug mobile-gateway pdn 1 pdn-session imsi 226041000000008

B. debug mobile-gateway pdn 1 pdn-session-db imsi 226041000000008

C. debug mobile-gateway pdn 1 pdn-session imsi 226041000000008 apn ipd.alcatel-lucent.com

D. debug mobile-gateway pdn 1 pdn-session-db imsi 226041000000008 apn ipd.alcatel-lucent.com

E. Answers A and C are both correct.

F. Answers B and D are both correct.

Correct Answer: C

QUESTION 14

Which of the following most accurately describes the CPM modules on an Alcatel-Lucent 7750 MG?

- A. The CPM modules are responsible for load balancing the EPS bearers.
- B. The CPM modules always choose the same MG-ISM group to handle all the bearers of a given UE.
- C. Two CPM modules can be installed on an Alcatel-Lucent 7750 MG node. One CPM is in active state while the other is in hot-standby state.
- D. The CPM module also includes the Switch Fabric function for the Alcatel-Lucent 7750 MG.
- E. All of the above answers are correct.

Correct Answer: E

QUESTION 15

Based on the information shown in the exhibit, what is the TEID value 0xd06015 used for?

```
A:SGW# show mobile-gateway serving bearer-context imsi 226041000000001 detail

< .. Output omitted ..>

QCI/ARP          : 9/1
QoS UL MBR       : 0 Kbps          QoS DL MBR       : 0 Kbps
QoS UL GBR       : 0 Kbps          QoS DL GBR       : 0 Kbps

S5 PGW Data TEID : 0x802125          S5 SGW Data TEID : 0xd06005
S5 PGW Data addr : 10.10.7.2
S5 SGW Data addr : 10.10.7.1
S1U eNodeB TEID  : 0x21             S1U SGW TEID     : 0xd06025
S1U eNodeB addr  : 10.10.2.4
S1U SGW address  : 72.22.24.163
Indirect Rem TEID: 0x37
Indirect Tnl Rem addr : 10.10.2.5
Indirect Lcl TEID: 0xd06015
Indirect Tnl Lcl addr : 72.22.24.163
```

- A. This TEID value is used by the source eNodeB when sending uplink data traffic to the SGW.
- B. This TEID value is used by the target eNodeB when sending uplink data traffic to the SGW.
- C. This TEID value is used by the source eNodeB when sending downlink data traffic back to the SGW.

D. This TEID value is used by the SGW when sending downlink data traffic to the source eNodeB.

E. This TEID value is used by the SGW when sending downlink data traffic to the target eNodeB.

Correct Answer: C

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