



4A0-M02^{Q&As}

Alcatel-Lucent Mobile Gateways for the LTE Evolved Packet Core

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QUESTION 1

Based on the information shown in the exhibit, when the SGW sends a "Create Session Request" message to the PGW, which of the following is the source IP address expected in the IP packet?



```
*A:SGW>config>router># info
#-----
echo "IP Configuration"
#-----
    interface "int-s11-slu"
        address 10.10.2.1/24
        port 1/1/2
    exit
    interface "int-s5"
        address 10.10.7.1/24
        port 1/1/1
    exit
    interface "int-s5-2"
        address 20.20.0.1/24
        port 1/1/5
    exit
    interface "system"
        address 72.22.24.163/32
    exit
#-----

*A:SGW# configure mobile-gateway serving 1
*A:SGW>config>mobile>serving# info
#-----
    apn "default"
    exit
    kpi-kci
    exit
    signaling
        diameter
            profile "default"
        exit
        interface "system"
    exit
    s11
        interface
            gtp-c "int-s11-slu"
        exit
    exit
    s5
        interface
            gtp-c "int-s5"
            gtp-u "int-s5"
        exit
    exit
    no shutdown
#-----
```



- A. 10.10.2.1
- B. 10.10.7.1
- C. 20.20.0.1
- D. 72.22.24.163
- E. None of the above answers are correct

Correct Answer: B

QUESTION 2

Which of the following is used to carry the GTP Path Management message "Echo Request"?

- A. The GTPv1 protocol.
- B. The GTPv2 protocol.
- C. The TCP protocol.
- D. The GTPv1 protocol or the GTPv2 protocol.
- E. None of the above answers are correct.

Correct Answer: D

QUESTION 3

A UE (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: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 00:01:42
```

```
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 : 235601      S5 DL bytes : 337942413
SGI UL packets : 235595      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:PGW# show mobile-gateway pdn bearer-context
```

```
Bearer context
```

```
=====
IMSI       APN        Bearer Type QCI/ARP MBR/GBR SDFs
-----
302720123456789 ipd.alcatel-lucent* 5 Def 9/12 - 0
302720123456789 ipd.alcatel-lucent* 6 Ded 2/12 30000/20000 2
```

```
*A:PGW# show mobile-gateway pdn pdn-context imsi 302720123456789 detail
```

```
PDN context detail
```

```
=====
IMSI       : 302720123456789
APN        : ipd.alcatel-lucent.com
PDN type    : IPv4
S5 sig protocol : GTP
UL APN AMBR : 55000 kbps
DL APN AMBR : 55000 kbps
Bearer contexts : 2
Piggyback bearers requested : 0
Piggyback bearers creation successful : 0
SDFs        : 2
```

```
Charging bearer *: Visiting
```

```
UE IPv4 address : 5.5.12.74
```

```
S5 PGW Ctrl TEID : 0xd04900      S5 SGW Ctrl TEID : 0x4b00700
S5 PGW V4 Ctrl Addr : 10.10.7.2  S5 SGW V4 Ctrl Addr : 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 4

Which of the following statements is FALSE regarding the UE attachment procedure?

- A. As a result of this procedure, a default bearer must be established
- B. As a result of this procedure, a dedicated bearer must be established

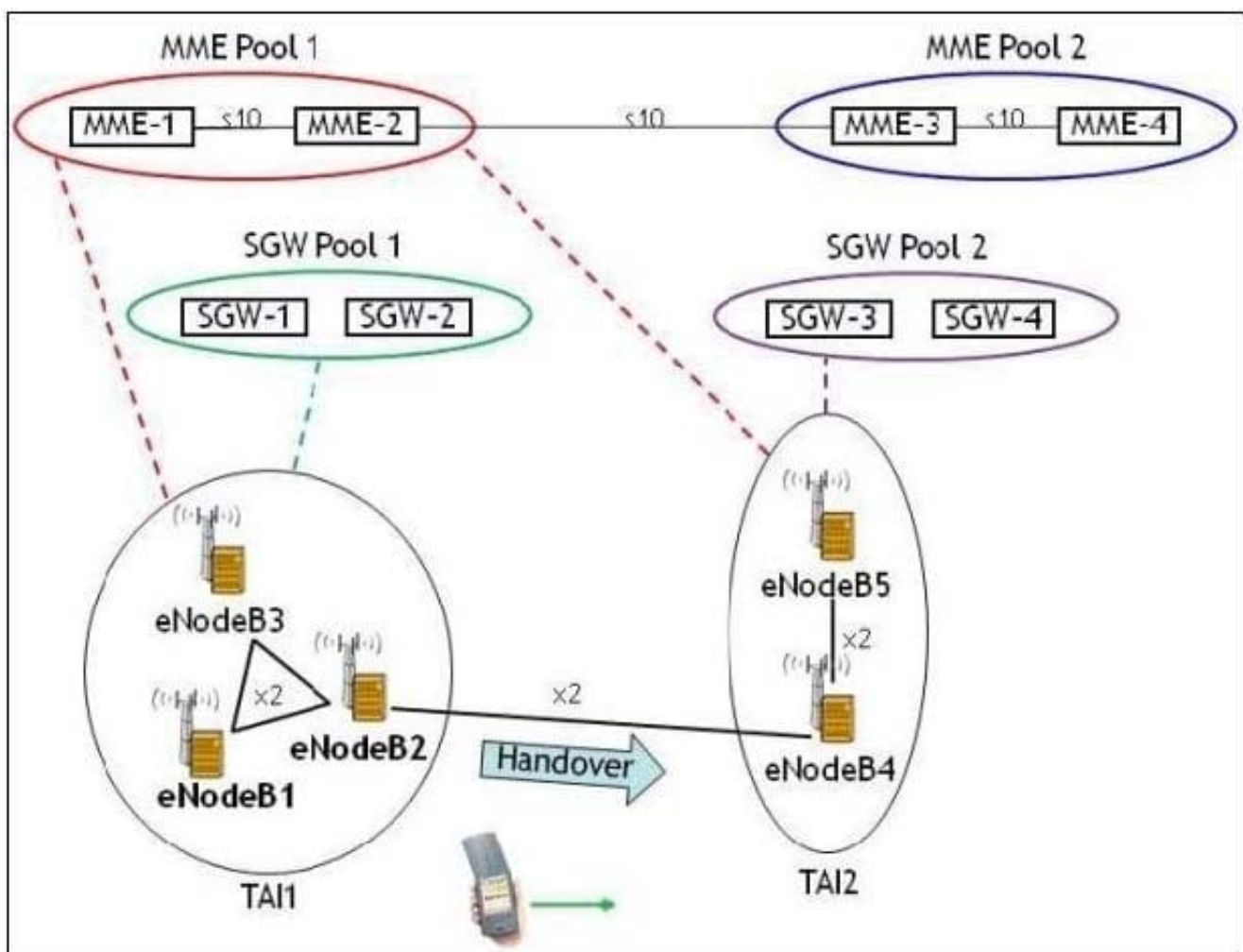


- C. As a result of this procedure, the UE is registered with the network
- D. As a result of this procedure, the UE is authenticated by the network
- E. As a result of this procedure, the UE has an IP connectivity to an APN

Correct Answer: B

QUESTION 5

Based on the information shown in the exhibit, what type of handover is performed when the UE moves from eNodeB2 to eNodeB4?



- A. X2-based handover without SGW relocation
- B. X2-based handover with SGW relocation
- C. X2-based handover with MME relocation
- D. S1-based handover with SGW relocation
- E. S1-based handover with MME relocation



Correct Answer: B

QUESTION 6

On the Alcatel-Lucent 7750 PGW, which of the following CLI commands is used to check the message statistics between the PGW and the PCRF?

- A. Show mobile-gateway pdn pdn-context
- B. Show mobile-gateway pdn ref-point-stats ga
- C. Show mobile-gateway pdn ref-point-stats gx
- D. Show mobile-gateway pdn ref-point-peers gn
- E. Show mobile-gateway pdn ref-point-peers gx

Correct Answer: C

QUESTION 7

Which of the following statements is FALSE regarding the PGW?

- A. The PGW terminates the IP sessions from a UE.
- B. The PGW enforces PCC rules and QoS policies.
- C. The PGW may provide gating control for user traffic.
- D. A UE may be served by only one PGW.
- E. A UE may receive more than one IP address from the PGW.

Correct Answer: D

QUESTION 8

The S5 is the interface used for the communication between the SGW and the PGW. Which of the following transport protocols is used by this interface?

- A. GTP/TCP
- B. GTP/UDP
- C. GTP/IP
- D. GTP/SCTP
- E. None of the above answers are correct

Correct Answer: B



QUESTION 9

Which of the following statements is FALSE regarding the Tracking Area (TA)?

- A. A TA is a set of eNodeBs that are defined by a UE itself.
- B. A TA is the smallest geographical area in which a UE can roam without performing a Tracking Area Update (TAU) other than periodic TAU as required.
- C. A Tracking Area Identity (TAI) is used to identify each tracking area.
- D. The Tracking Area Identity (TAI) is assigned by the service provider.
- E. One TA may be served by one or more than one MME.

Correct Answer: A

QUESTION 10

Which of the following statements is FALSE regarding the Network Initiated Dedicated Bearer Activation procedure?

- A. A Create Bearer Request message is sent from PGW to SGW.
- B. An AA Request message is sent from AF to PCRF.
- C. A Bearer Setup Request message is sent from SGW to MME.
- D. A Re-Authorization Request message is sent from PCRF to PGW.

Correct Answer: C

QUESTION 11

In a 3G network, which of the following is used to build a PDP context between a UE and the GGSN when a direct tunnel is not used?

- A. An end-to-end GTP tunnel between the UE and the GGSN.
- B. A Radio Access Bearer between the UE and the NodeB and a GTP tunnel between the NodeB and the GGSN.
- C. A Radio Access Bearer between the UE and the SGSN and a GTP tunnel between the SGSN and the GGSN.
- D. A Radio Access Bearer between the UE and the SGSN.
- E. None of the above answers are correct.

Correct Answer: C

QUESTION 12



Which of the following statements is FALSE regarding the configuration of Key Performance Indicator/Key Capacity Indicator (KPI/KCI) on an Alcatel-Lucent 7750 MG?

- A. The mobile-gateway instance must be shutdown before enabling the stats collection
- B. A log file must be configured.
- C. An accounting policy must be configured.
- D. Only one record can be configured in a policy.
- E. Only one policy can be assigned to a serving/pdn instance.
- F. None of the above statements are false.

Correct Answer: F

QUESTION 13

A dedicated bearer 6 has a total of six SDF filters. Based on the information shown in the exhibit, which of the following is the right order to apply the filters to the downlink traffic?

The exhibit shows the configuration for a dedicated bearer with six SDF filters. The configuration is divided into three sections: rule-1, rule-2, and rule-3.

SDF rule name : rule-1

- SDF precedence : 30
- SDF QoS UL MBR : 150 Kbps
- SDF QoS UL GBR : 100 Kbps
- Filter id : 0
- Filter protocol : tcp
- Source address : 10.10.6.2/32
- Source ports : 20 - 21
- Destination addr : 5.5.12.22/32
- Filter id : 1
- Filter protocol : tcp
- Source address : 5.5.12.22/32
- Destination addr : 10.10.6.2/32
- Destination ports : 20 - 21
- Filter direction : DL

SDF rule name : rule-2

- SDF precedence : 10
- SDF QoS UL MBR : 200 Kbps
- SDF QoS UL GBR : 150 Kbps
- Filter id : 2
- Filter protocol : udp
- Source address : 16.1.1.1/32
- Source ports : 100 - 120
- Destination addr : 5.5.12.22/32
- Filter id : 3
- Filter protocol : udp
- Source address : 5.5.12.22/32
- Destination addr : 16.1.1.1/32
- Destination ports : 100 - 120
- Filter direction : UL

SDF rule name : rule-3

- SDF precedence : 20
- SDF QoS UL MBR : 200 Kbps
- SDF QoS UL GBR : 150 Kbps
- Filter id : 4
- Filter protocol : udp
- Source address : 16.1.1.1/32
- Source ports : 150 - 155
- Destination addr : 5.5.12.22/32
- Filter id : 5
- Filter protocol : udp
- Source address : 5.5.12.22/32
- Destination addr : 16.1.1.1/32
- Destination ports : 150 - 155
- Filter direction : UL

<The rest outputs shown in the right window>

- A. The filters: 0 (first), 1, 2, 3, 4, 5 (last).
- B. The filters: 2 (first), 3, 0, 1, 4, 5 (last).
- C. The filters: 0 (first), 2, 4 (last).



- D. The filters: 3 (first), 5, 1 (last).
- E. The filters: 0 (first), 4, 2 (last).
- F. The filters: 2 (first), 4, 0 (last).

Correct Answer: F

QUESTION 14

Which network entities assign TEIDs to the indirect data tunnel used during an S1-based handover with SGW relocation?

- A. The source eNodeB, the source SGW, and the target SGW
- B. The source SGW, the target SGW and the target eNodeB.
- C. The source eNodeB, the target SGW, and the target eNodeB.
- D. The source eNodeB, the source SGW and the target eNodeB.
- E. The source SGW and the target SGW.

Correct Answer: C

QUESTION 15

Which of the following statements is FALSE regarding the QCI / ARP?

- A. An EPS bearer may be associated with more than one QCI value.
- B. A new QCI policy can be defined on the Alcatel-Lucent 7750 MG to overwrite the default one.
- C. A default QCI/ARP policy is predefined on the Alcatel-Lucent 7750 MG and cannot be modified.
- D. A default bearer cannot be associated with a QCI value of 4.
- E. The QCI has 9 classes and the ARP has 15 levels.

Correct Answer: A

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