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 TRUE when the Alcatel-Lucent 7750 MG receives a GTP packet that has a valid TEID?

A. The ingress IOM forwards the packet directly to the MG-ISM module for further processing.

B. The ingress IOM drops the packet.

C. The ingress IOM forwards the packet to the CPM for further processing.

D. The Alcatel-Lucent 7750 MG forwards the packet to its IP destination by looking into the local IP routing table.

E. None of the above answers are correct.

Correct Answer: A

QUESTION 2

On the Alcatel-Lucent 7750 PGW, which of the following CLI commands Is used to check the APN-AMBR enforced on the PGW 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 bearer-context

D. Show mobile-gateway pdn bearer-context imsi detail

E. Show mobile-gateway pdn ue-context

F. Show mobile-gateway pdn ue-context imsi detail

Correct Answer: B

QUESTION 3

What is the purpose of indirect data tunnels established for a particular UE?

A. The indirect data tunnels are used during handovers to forward downlink data from the target eNodeB to the source eNodeB.

B. The indirect data tunnels are used during handovers to forward uplink data from the target eNodeB to the source eNodeB.

C. The indirect data tunnels are used during handovers to forward downlink data from the source eNodeB to the target eNodeB.

D. The indirect data tunnels are used during handovers to forward uplink data from the source eNodeB to the target eNodeB.

Correct Answer: C

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QUESTION 4

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 5

Based on the information shown in the exhibit, when the SGW sends a downlink user data packet to the UE, 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-s1u"
                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-s1u"
            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: D

QUESTION 6

Based on the information shown in the exhibit, which of the following is TRUE when the PGW receives a "Create Session Request" with the "APN Restriction" set to "Private2"? Assume everything else is in working condition.

```
*A:PGW>config>mobile>pdn#  apn "ipd.alcatel-lucent.com"
*A:PGW>config>mobile>pdn>apn# info
----------------------------------------------------
                pcrf-selection
                    dynamic-pcc
                exit
                ip-alloc-method local-pool
                pdn-type ipv4
                pdn-type ipv6
                pdn-type ipv4v6
                restriction any
                router "Base"
                    ip-local-pool "ipdpool"
                exit
                selection-mode subscribed-apn
                no shutdown
----------------------------------------------------
```
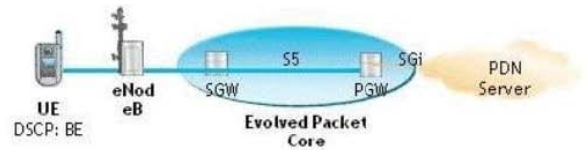
A. The "Create Session Request" is rejected by the PGW and no bearer is created.

B. The "Create Session Request" is accepted by the PGW and the bearer is created successfully.

C. The APN cannot be configured with an "APN Restriction" value of "any".

D. The "Create Session Request" cannot have an "APN Restriction" value of "Private2.

E. None of the above answers are correct.

Correct Answer: B

QUESTION 7

A UE is exchanging best-effort (BE) IP traffic with a PDN server over an EPS bearer with a QCI/ARP value of 9/12. Based on the information shown in the exhibit, what is the DSCP value of traffic egressing the S5 interface of the PGW to the SGW?

```
*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 12
                        dscp ef
                        no dscp-preserve
                        fc "ef"
                        profile in
                    exit
                exit
                qci-policy "ul-qci-pl"
                    qci 9 arp 12
                        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
                qci-policy uplink "ul-qci-pl" downlink "dl-qci-pl"
                router "Base"
                    ip-local-pool "ipdpool"
                exit
                selection-mode subscribed-apn
                no shutdown
            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
        gx
            pcrf-selection
                primary-diameter-peer "diam-peer-1"
            exit
        exit
        s5
            interface
                gtp-c "int-s5"
                gtp-u "int-s5"
            exit
        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: B

QUESTION 8

Based on the information shown in the exhibit, which of the following is the PLMN ID?

```
A:SGW# show mobile-gateway serving ue-context  imsi 302720123456789 detail

=============================================================================
UE context detail
=============================================================================
IMSI            : 302720123456789      State           : ACTIVE
MEI             : 987654321055550      MSISDN          : 003020161378488
Network MCC     : 302                  Network MNC     : 720
Tracking area id : 0x1011              Cell Id         : 0x1
NAI             : 0302720123456789@epc.mnc072.mcc302.3gppnetwork.org

GW/Group/Card   : 1/1/2                RAT             : EUTRAN
PDN contexts    : 1                    Bearers         : 1

S11 MME ctrl TEID: 0x325ac1           S11 SGW ctrl TEID: 0x4100800
S11 MME ctrl addr: 10.10.2.2
S11 SGW ctrl addr: 10.10.2.1
Charging SGW address   : 72.22.24.163

Inter ENB X2 HO  : 0                   Inter ENB S1 HO  : 0
S1 release procs : 0                   Paging Attempts  : 0
UE init svc req  : 0
-----------------------------------------------------------------------------
Number of UEs : 1
```

A. 302

B. 720

C. 123456789

D. 9876543

E. 30201613

F. 302720

Correct Answer: F

QUESTION 9

On an Alcatel-Lucent 7750 PGW, which of the following is a mandatory step required to set up a Diameter connection to a PCRF server?

A. Create a Diameter profile.

B. Create a Diameter Peer profile.

C. Assign the Diameter profile to the Diameter Peer profile

D. Assign the Diameter Peer profile to the Gx interface.

E. All of the above answers are required.

F. Only answers B and D are required.

Correct Answer: F

QUESTION 10

Based on the information shown in the exhibit, what is the TEID value 0x37 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 downlink data traffic to the target eNodeB.

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 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: E

QUESTION 11

Which of the following statements are TRUE regarding the Dynamic PCC rules? (Choose two)

A. The Dynamic PCC rules are created on the PCRF and pushed (or pulled) down to the PCEF.

B. The Dynamic PCC rules are created on the PCEF and pushed (or pulled) down to the PCRF.

C. When GTP tunnels are used between the SGW and PGW, the Gxc interface is used between the PCRF and the PCEF to carry the dynamic PCC rules.

D. When GTP tunnels are used between the SGW and PGW, the Rx interface is used between the PCRF and the PCEF to carry the dynamic PCC rules.

E. When GTP tunnels are used between the SGW and PGW, the Gx interface is used between the PCRF and the PCEF to carry the dynamic PCC rules.

Correct Answer: AE

QUESTION 12

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?

```
IMSI             : 302720123456789
APN              : ipd.alcatel-lucent.com
Bearer Id        : 6            Bearer type    : Dedicated
QCI/ARP          : 2/12         SDFs           : 3
Up Time          : 0d 00:00:06
...

SDF rule name    : rule-1
...
SDF precedence   : 30           SDF pkt filters  : 2
SDF QoS UL MBR   : 150 Kbps     SDF QoS DL MBR   : 150 Kbps
SDF QoS UL GBR   : 100 Kbps     SDF QoS DL GBR   : 100 Kbps
Filter id        : 0           Filter direction : DL
Filter protocol  : tcp
Source address   : 10.10.6.2/32                          SDF rule name     : rule-3
Source ports     : 20 - 21                               ...
Destination addr : 5.5.12.22/32                          SDF precedence    : 20           SDF pkt filters  : 2
Filter id        : 1           Filter direction : UL     SDF QoS UL MBR    : 200 Kbps     SDF QoS DL MBR   : 200 Kbps
Filter protocol  : tcp                                   SDF QoS UL GBR    : 150 Kbps     SDF QoS DL GBR   : 150 Kbps
Source address   : 5.5.12.22/32                          Filter id         : 4           Filter direction : DL
Destination addr : 10.10.6.2/32                          Filter protocol   : udp
Destnation ports : 20 - 21                               Source address    : 16.1.1.1/32
                                                         Source ports      : 150 - 155
SDF rule name    : rule-2                                Destination addr  : 5.5.12.22/32
...                                                      Filter id         : 5           Filter direction : UL
SDF precedence   : 10           SDF pkt filters  : 2     Filter protocol   : udp
SDF QoS UL MBR   : 200 Kbps     SDF QoS DL MBR   : 200 Kbp Source address   : 5.5.12.22/32
SDF QoS UL GBR   : 150 Kbps     SDF QoS DL GBR   : 150 Kbp Destination addr : 16.1.1.1/32
Filter id        : 2           Filter direction : DL     Destnation ports  : 150 - 155
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 direction : UL
Filter protocol  : udp
Source address   : 5.5.12.22/32
Destination addr : 16.1.1.1/32
Destnation ports : 100 - 120

<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 13

Which of the following interfaces is not using the GTP-C protocol?

A. The X2 interface.

B. The S1-U interface.

C. The S4 interface.

D. The S5 interface.

E. The SGi interface.

Correct Answer: E

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

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

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