# 4A0-110 Q&As

Alcatel-Lucent Advanced Troubleshooting

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**QUESTION 1**

Based on the following MP-BGP update packet, what is the export route-target of peer 10.10.1.4 on Node 1?

Node 1

```
1 2007/04/28 10:28:47.24 UTC MINOR: DEBUG #2001 - Peer 1: 10.10.1.4
"Peer 1: 10.10.1.4: UPDATE
Peer 1: 10.10.1.4 - Received BGP UPDATE:
    Withdrawn Length = 0
    Total Path Attr Length = 77
    Flag: 0x40 Type: 1 Len: 1 Origin: 0
    Flag: 0x40 Type: 2 Len: 0 AS Path:
    Flag: 0x40 Type: 5 Len: 4 Local Preference: 100
    Flag: 0xc0 Type: 16 Len: 8 Extended Community:
        target:10C:101
    Flag: 0x90 Type: 14 Len: 48 Multiprotocol Reachable NLRI:
        Address Family VPN-IPV4
        NextHop len 12 NextHop 10.10.1.4
        40.1.1.1/32 RD 200:201 Label 131067
        30.1.2.0/24 RD 200:201 Label 131067
"

2 2007/04/28 10:28:52.34 UTC MINOR: DEBUG #2001 - Peer 1: 10.10.1.4
"Peer 1: 10.10.1.4: UPDATE
Peer 1: 10.10.1.4 - Send BGP UPDATE:
    Withdrawn Length = 0
    Total Path Attr Length = 69
    Flag: 0x40 Type: 1 Len: 1 Origin: 0
    Flag: 0x40 Type: 2 Len: 0 AS Path:
    Flag: 0x40 Type: 5 Len: 4 Local Preference: 100
    Flag: 0xc0 Type: 16 Len: 16 Extended Community:
        target:10C:100
        target:20C:200
    Flag: 0x90 Type: 14 Len: 32 Multiprotocol Reachable NLRI:
        Address Family VPN-IPV4
        NextHop len 12 NextHop 10.10.1.3
        30.1.1.0/24 RD 200:101 Label 131067
```

A. 100:100

B. 100:100 and 200:200

C. 200:200

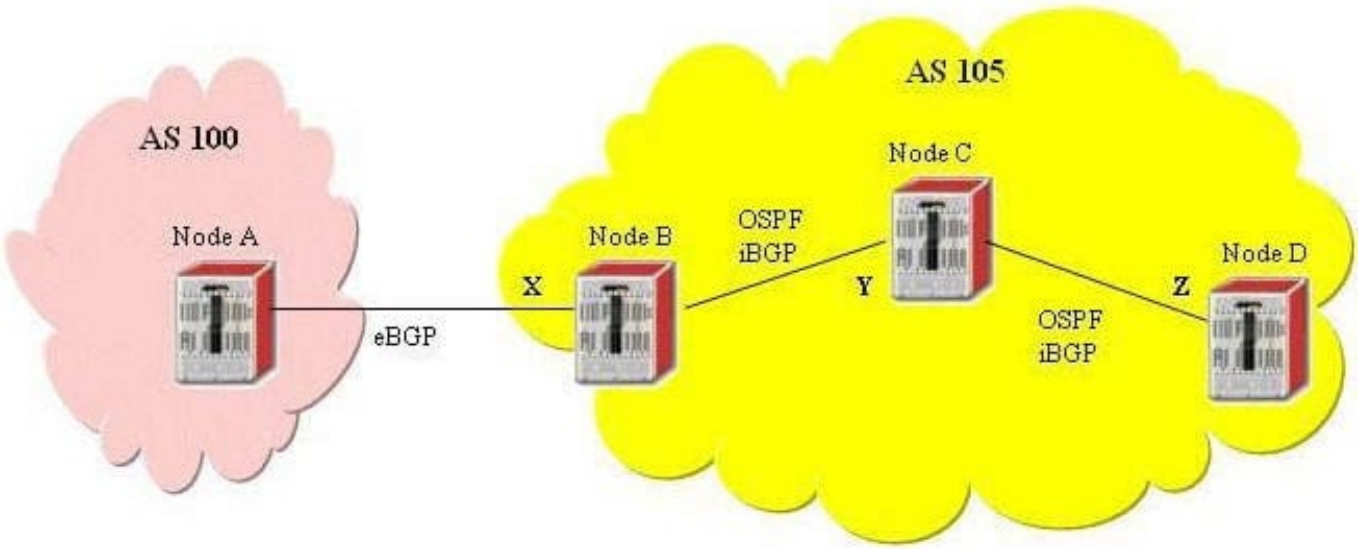
D. 100:101

E. 200:101

Correct Answer: B

**QUESTION 2**

Node A has an active BGP route 10.1.1.1 in its routing table, but the same route is not found in Node D routing table. Which of the following configurations are required to resolve this problem?




A. Add Interface X to OSPF on Node B as passive interface

B. Redistribute interface address Y and Z into BGP

C. ISIS Enable route-reflection on Node B

D. Enable next-hop-self on Node C

E. Enable route-reflection on Node C

Correct Answer: AE

**QUESTION 3**

Two direct connected routers are running RIPv2, neighbors are up but there is no route in the RIP database. Review the configuration information below. What is the potential problem?

Node 1

```
router rip
group "test"
    neighbor "toPod2"
    exit
exit
```

Node 2

```
router rip
group "test"
    neighbor "toPod1"
    exit
exit
```

A. System interface is not added to the RIP protocol

B. No import policy is configured

C. No export policy is configured

D. Split-horizon has to be disabled in RIP

E. Message-size has to be configured with a non-zero value

Correct Answer: C

**QUESTION 4**

What are the possible logging destinations supported on the Alcatel 7x50?

A. Syslog

B. Session

C. FTP server

D. Memory log

E. Compact flash

Correct Answer: ABDE

**QUESTION 5**

A LSP is configured with one primary path and one secondary path as below. What configuration is required to make the LSP non-revertive. Choose the best answer.

```
config>router>mpls>
            path "toRouter3-loose"
                no shutdown
            path "toRouter3-backup"
                hop 1 10.10.1.2  loose
                no shutdown
            lsp toRouter3
                to 10.10.1.3
                cspf
                primary "toRouter3-loose"
                    bandwidth 600
                secondary "toRouter3-backup"
                    standby
                    bandwidth 600
                    no shutdown
```

A. Turn off CSPF and remove all the bandwidth reservations

B. Remove the primary path and configure both paths as secondary

C. Under asp toRouter3? configure on-revertive

D. It is not possible to configure the LSP as non-revertive

E. MPLS fast re-route has to be enabled to make it non-revertive

Correct Answer: B

**QUESTION 6**

What MPLS tunnel label(s) will be used in the data packet traveling on LSP toR4 FRR leaving from Node 3 to Node 4?

Node 3

```
# show router mpls lsp toR4FRR path detail

===============================================================================
MPLS LSP toR4FRR Path  (Detail)
===============================================================================
Legend :
    @ - Detour Available              # - Detour In Use
    b - Bandwidth Protected           n - Node Protected
===============================================================================
-------------------------------------------------------------------------------
LSP toR4FRR Path toPod4
-------------------------------------------------------------------------------
LSP Name     : toR4FRR                          Path LSP ID      : 17
From         : 10.10.1.3                        To               : 10.10.1.4
Adm State    : Up                               Oper State       : Up
Path Name    : toPod4                           Path Type        : Primary
Path Admin   : Up                               Path Oper        : Up
OutInterface: n/a                               Out Label        : n/a
Path Up Time: 0d 00:06:15                       Path Dn Time     : 0d 00:00:00
Retry Limit  : 0                                Retry Timer      : 30 sec
RetryAttempt: 3                                 Next Retry In    : 6 sec
Bandwidth    : No Reservation                   Oper Bandwidth   : 0 Mbps
Hop Limit    : 255
Record Route: Record                            Record Label     : Record
Oper MTU     : 9198                             Negotiated MTU   : 9198
Adaptive     : Enabled                          MBB State        : N/A
Include Grps:                                   Exclude Grps     :
None                                            None
Path Trans   : 19                               CSPF Queries     : 6
Failure Code: badNode                           Failure Node     : 10.1.5.1
ExplicitHops:
    10.10.1.4
Actual Hops :
    10.1.5.2(10.10.1.3) @ #
 -> 10.1.4.2(10.10.1.4)                         Record Label     : 131068
===============================================================================

# show router mpls bypass-tunnel

-------------------------------------------------------------------------------
MPLS Bypass Tunnels
-------------------------------------------------------------------------------
To                State    Out I/F        Out Label     Reserved     Protected
                                                       BW (Kbps)    LSP Count
-------------------------------------------------------------------------------
10.1.4.2          Active   1/1/6          131069        0            2
-------------------------------------------------------------------------------
Bypass Tunnels : 1
```

A. 131069 131068

B. 131068 3

C. 131069

D. 131068

E. No label is used in the data packet

Correct Answer: A

**QUESTION 7**

Due to same VPLS mis-configuration, traffic (e.g.ping) is not work between PC1 and PC 2. Choose the best explanation for the problem.

A. MTU is not configured on all sdp

B. SDP id has to match on all three nodes

C. STP has to be enabled on all three nodes

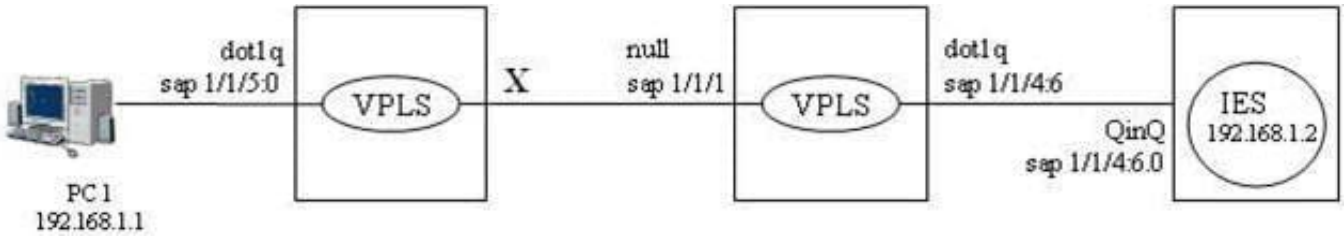
D. No SAP is configured on Node-2

E. Spoke-sdp has to be used on all three nodes

Correct Answer: E

**QUESTION 8**

Refer to the diagram below, what encapsulation type and VLAN tag are required at point X for the PC to ping the IES interface?




A. qinq sap 1/1/1:6.0

B. qinq sap 1/1/1:6.*

C. dot1q sap 1/1/1:6

D. null sap 1/1/1

E. There is no way to make ping works in this case

Correct Answer: D

**QUESTION 9**

Which one of the following routes should be the best BGP route according to the Alcatel VPRN route selection criteria?

```
# show router 300 bgp routes

 Legend -
 Status codes  : s - suppressed, h - history, d - decayed, * - valid
 Origin codes  : i - IGP, e - EGP, ? - incomplete,

===============================================================================
BGP Routes
===============================================================================
Flag  Network                                Nexthop        LocalPref   MED
      VPN Label                              As-Path
-------------------------------------------------------------------------------
 *i   10.1.4.0/24                           30.1.2.2         none        200
                                             400

 *e   10.1.4.0/24                           30.1.3.2         none        none
                                             400 500

 *?   10.1.4.0/24                           30.1.4.2         none        none
                                             400

 *?   10.1.4.0/24                           30.1.5.2         none        100
                                             400

 *i   10.1.4.0/24                           30.1.6.2         none        100
                                             400 500
```

A. The 1st route

B. The 2nd route

C. The 3rd route

D. The 4th route

E. Node of the above

Correct Answer: D

**QUESTION 10**

Two routers are physically connected to each other with ISIS configured. No ISIS adjacency can be found on both routers. Ping works fine on the local and the remote interface addresses on both routers. Review the confguration

information shown below. Which of the following statements best describe the cause of the problem? Select one answer only.

Node-1

```
# show router isis interface
===============================================================================
Interface                         Level CircID  Oper State    L1/L2 Metric
-------------------------------------------------------------------------------
to-Node-2                          L1    2        Up            10/-

===============================================================================
ISIS Status
===============================================================================
System Id             : 0100.1000.1001
Admin State           : Up
Ipv4 Routing          : Enabled
Last Enabled          : 12/14/2006 14:44:59
Level Capability      : L1L2
Authentication Check  : True
Authentication Type   : None
Adjacency Check       : loose
L1 Auth Type          : none
L2 Auth Type          : none
L1 CSNP-Authenticati*: Enabled
L1 HELLO-Authenticat*: Enabled
L1 PSNP-Authenticati*: Enabled
L1 Wide Metrics       : Disabled
L2 Wide Metrics       : Disabled
L1 LSPs               : 1
L2 LSPs               : 3
Last SPF              : 12/14/2006 14:47:16
SPF Wait              : 10 sec (Max)    1000 ms (Initial)    1000 ms (Second)
Export Policies       : None
Area Addresses        : None
```

Node-2

```
# show router isis interface
===============================================================================
Interface                         Level CircID  Oper State    L1/L2 Metric
-------------------------------------------------------------------------------
toPod1                             L1    3        Up            10/-
-------------------------------------------------------------------------------
Interfaces : 1

===============================================================================
ISIS Status
===============================================================================
System Id             : 0100.1000.1002
Admin State           : Up
Ipv4 Routing          : Enabled
Ipv6 Routing          : Disabled
Last Enabled          : 12/14/2006 09:57:41
Level Capability      : L1L2
Authentication Check  : True
Authentication Type   : None
Adjacency Check       : loose
L1 Auth Type          : none
L2 Auth Type          : none
L1 CSNP-Authenticati*: Enabled
L1 HELLO-Authenticat*: Enabled
L1 PSNP-Authenticati*: Enabled
L1 Wide Metrics       : Disabled
L2 Wide Metrics       : Disabled
L1 LSPs               : 1
L2 LSPs               : 3
Last SPF              : 12/14/2006 10:00:35
SPF Wait              : 10 sec (Max)    1000 ms (Initial)    1000 ms (Second)
Export Policies       : None
Area Addresses        : None
```

A. The ISIS interface level configured does not match the ISIS level capability supported on the routers

B. The ISIS authentication check is enabled but there is no authentication type and password configured

C. ISIS Area addresses are not configured on both routers

D. L1 wide Metrics are disabled on the routers

E. ISIS Circuit id does not match on Node-1 and Node-2

Correct Answer: C