

# 4A0-110<sup>Q&As</sup>

Alcatel-Lucent Advanced Troubleshooting

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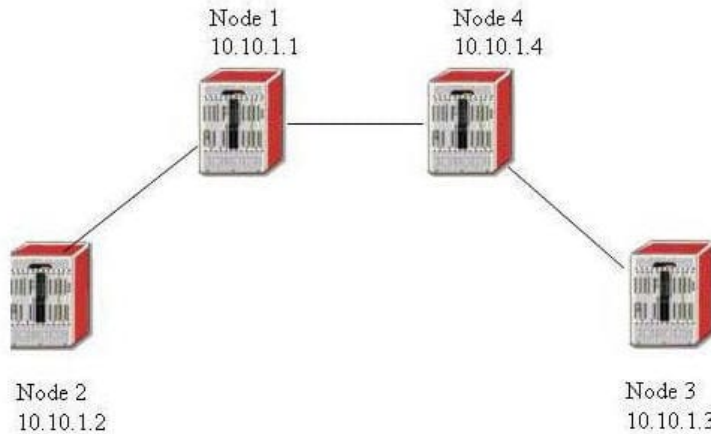
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**QUESTION 1**

A SDP is created on Node-2 with the far end address set to Node-3. The SDP stays down on Node-2. Based on the following CLI output from Node 2, what is the caused of the problem?



```

Node 2
# show service sdp 106 detail
-----
Sdp Id 106 -(10.10.1.3)
-----
SDP Id          : 106
Admin Path MTU  : 0
Far End         : 10.10.1.3
Admin State     : Up
Signaling       : TLDP
Acct. Pol       : None
Last Status Change : 12/18/2006 17:16:36
Last Mgmt Change  : 12/18/2006 16:55:36
Flags           : TransportTunnDown
Oper Path MTU   : 0
Delivery        : LDP
Oper State      : Down
VLAN VC Etype   : 0x8100
Collect Stats   : Disabled
Adv. MTU Over.  : No

# show router ldp session
=====
LDP Sessions
=====
Peer LDP Id      Adj Type State      Mesg Sent Mesg Recv Up Time
-----
10.10.1.1:0      Both   Established 36658    121998   3d 07:56:35
10.10.1.3:0      Targeted Established 540      541      0d 00:48:38
10.10.1.4:0      Targeted Established 1183     1183     0d 01:47:15

# show router ldp bindings active
=====
Legend: (S) - Static
=====
LDP Prefix Bindings (Active)
=====
Prefix          Op   IngLbl  EgrLbl  EgrIntf  EgrNextHop
-----
10.10.1.1/32    Push --      131071  1/1/3    10.1.2.1
10.10.1.2/32    Pop  131071  --       --       --
10.10.1.4/32    Push --      131070  1/1/3    10.1.2.1
=====
No. of Prefix Bindings: 3
    
```

- A. No LDP link session between Node 2 and Node 4
- B. No LDP link session between Node 4 and Node 3
- C. No LDP link session between Node 1 and Node 4

- D. No LDP link session between Node 3 and Node 2
- E. None of the above

Correct Answer: B

**QUESTION 2**

Node 1 receives some VPRN routes from Node 2, but Node 2 is not receiving any VPRN routes from Node 1. Routes in VPRN 400 route table are found on Node 1 as follows: Based on the configuration below, why is Node 2 not receiving BGP VPN routes from Node 1?

Route Table (Service: 400)						
Dest Address	Next Hop	Type	Proto	Age	Metric	Pref
192.168.40.0/24	to-CPE1	Local	Local	01h39m36s	0	0
192.168.1.1/32	192.168.40.2	Remote	Static	01h27m24s	1	5
192.168.41.0/24	10.10.1.4	Remote	BGP VPN	00h35m37s	0	170

Node 1

```
policy-options
begin
prefix-list "exportVPRN100"
  prefix 192.168.0.0/16 longer
exit
community "exportVPRN100" members "target:65535:100" "target:65535:101"
community "importVPRN100" members "target:65535:101"
policy-statement "export-VPRN100"
  entry 10
    from
      prefix-list "exportVPRN100"
    exit
    action accept
      community add "target:65535:101"
    exit
  exit
policy-statement "import-VPRN100"
  entry 10
    from
      community "importVPRN100"
    exit
    action accept
  exit
vprn 400 customer 1 create
vrf-import "import-VPRN400"
vrf-export "export-VPRN400"
route-distinguisher 65535:400
spoke-sdp 10 create
interface "to-CPE1" create
  address 192.168.40.1/24
  ssp 1/1/3:4 create
exit
no shutdown
```

Node 2

```
vprn 400 customer 1 create
vrf-target target:65535:101
route-distinguisher 65535:400
spoke-sdp 10 create
interface "to-CPE2" create
  address 192.168.41.1/24
  ssp 1/1/3:4 create
exit
no shutdown
```

- A. VRF import and export policies defined on Node 1 do not match with vrf-target defined on Node 2

- B. Prefix-list exportVPRN100 is applied on Node 1 but not on Node 2
- C. More than one import route targets are defined on Node 1 and only one defined on Node 2
- D. VRF target has to be defined on Node 1 as well
- E. Community target:65535:101 is not defined on Node 1

Correct Answer: E

### QUESTION 3

The LDP session is not down between Node-1 and Node-2. Based on the following configurations, what is the cause of the problem?

Node-1

```
config>router>
  ospf
    traffic-engineering
    area 0.0.0.0
      interface "toPod2"
        authentication-key "Ag82AiJ5CdWf/SU" hash2
    ldp
      interface-parameters
      interface "toPod2"
      targeted-session

# show router ldp session
=====
LDP Sessions
=====
Peer LDP Id          Adj Type State      Mesg Sent  Mesg Recv  Up Time
-----
10.10.1.2:0          Link   Unknown  2           3           0d 00:00:08
=====
No. of Sessions: 1
```

Node-2

```
config>router>
  ospf
    area 0.0.0.0
      interface "toPod1"
    area 0.0.0.1
      interface "system"
    ldp
      interface-parameters
      interface "toPod2"
      targeted-session

# show router ldp session
=====
LDP Sessions
=====
Peer LDP Id          Adj Type State      Mesg Sent  Mesg Recv  Up Time
-----
10.10.1.1:0          Both    Open    190         192         0d 00:09:55
=====
No. of Sessions: 1
=====
```

- A. LDP targeted-session is enabled with no service configured
- B. OSPF adjacency is not up between Node-1 and Node-2
- C. Router id is not advertised by OSPF

D. LDP is disabled on Node-1

E. Traffic-engineering is not enabled on Node-2

Correct Answer: C

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#### QUESTION 4

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 configuration 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

**QUESTION 5**

The mesh-sdp binding for a VPLS configured on Node 1 is down with an error serviceMTUMismatch. One sap is configured in the VPLS and it is up with default mtu 1514. The LDP binding display on Node 1 shows that there is a mismatch on the MTU value. What are the required configurations on Node 1 to bring the VPLS up?

```
Node 1
config>service>
  vpls 200
    sap 1:/1/5 create
    exit
    spoke-sdp 43:200 create
    exit
    no shutdown

# show router ldp bindings
=====
LDP Service Bindings
=====
Type  VCId  SvcId  SDPId  Peer          IngLbl  EgrLbl  LMTU  RMTU
-----
V-Eth 200    200    43     10.10.1.3     131071U 131070 1500  9176
```

- A. Set the sap port mtu to 9176
- B. Set the service-mtu to 9176
- C. Set the service-mtu to 9190
- D. Set the sap port mtu to 9190
- E. Set the service-mtu to 1514

Correct Answer: CD

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