



4A0-110^{Q&As}

Alcatel-Lucent Advanced Troubleshooting

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QUESTION 1

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 2

VPN 300 is configured on Node 3 and Node 4 with LDP as the transport. No VPN routes are exchanged between Node 3 and Node 4. What is the cause of the problem?

Node 3

Route Table (Service: 300)						
Dest Address	Next Hop	Type	Proto	Age	Metric	Pref
30.1.1.0/24	toCPE3	Local	Local	00h07m42s	0	0

Node 4

Route Table (Service: 300)						
Dest Address	Next Hop	Type	Proto	Age	Metric	Pref
30.1.2.0/24	toCPE4	Local	Local	00h00m05s	0	0
40.1.1.1/32	30.1.2.2	Remote	Static	00h00m05s	1	5

Node 3

```
community "VPRN300IN" members "target:100:100"
community "VPRN300OUT" members "target:100:100" "target:200:200"
policy-statement "VPRN300IN"
  entry 10
    from
      community "VPRN300IN"
    exit
    action accept
    exit
  exit
exit
policy-statement "VPRN300OUT"
  entry 10
    action accept
    community add "VPRN300OUT"
  exit
  exit
exit
```

Node 3



```
# show service id 300 base

=====
Service Basic Information
=====
Service Id       : 300                Vpn Id           : 0
Service Type     : VPRN
Customer Id      : 1
Last Status Change: 04/28/2007 10:20:08
Last Mgmt Change  : 04/30/2007 12:13:01
Admin State      : Up                 Oper State        : Up

Route Dist.      : 100:100
AS Number        : None               Router Id         : 10.10.1.3
ECMP             : Enabled            ECMP Max Routes   : 1
Max Routes       : No Limit           Auto Bind         : LDP
Vrf Target       : target:100:101
Vrf Import       : VPRN300IN
Vrf Export       : VPRN300OUT

SAP Count        : 1                 SDP Bind Count    : 0

-----
Service Access & Destination Points
-----
Identifier      Type      AdmMTU  OprMTU  Adm    Opr
-----
sap:1/1/7:3.4   qinq    1522    1522    Up     Up
```

Node 4

```
# show service id 300 base

=====
Service Basic Information
=====
Service Id       : 300                Vpn Id           : 0
Service Type     : VPRN
```

- A. VRF policy configured on Node 3 does not match with vrf-target configured on Node 4
- B. No SDP defined in the VPRN configuration on both nodes
- C. VRF-target mismatch on Node 3 and Node 4
- D. Route-distinguisher mismatch on Node 3 and Node 4
- E. Encapsulation type mismatch on SAPs on Node 3 and Node 4

Correct Answer: A

QUESTION 3

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 4

Node 1 and Node 2 are directly connected running LDP. The system ip address of Node 2 is 10.10.10.1.2. Based on the following display, why is the sdp down?



Node 1

```
show service sdp 40 detail
```

```
-----  
Sdp Id 40  -(10.10.1.2)  
-----
```

```
SDP Id           : 40  
Admin Path MTU   : 0                Oper Path MTU       : 0  
Far End          : 10.10.1.2         Delivery             : LDP  
Admin State      : Up               Oper State           : Down  
Signaling        : TLDP             VLAN VC Etype        : 0x8100  
Acct. Pol        : None             Collect Stats         : Disabled  
Last Status Change : 12/18/2006 16:29:39 Adv. MTU Over.       : No  
Last Mgmt Change  : 12/15/2006 14:49:51  
Flags            : TransportTunnDown
```

```
Keepalive Information :
```

```
Admin State      : Disabled          Oper State           : Disabled  
Hello Time       : 10               Hello Msg Len        : 0  
Hello Timeout    : 5               Unmatched Replies    : 0  
Max Drop Count   : 3               Hold Down Time       : 10  
Tx Hello Msgs    : 0               Rx Hello Msgs        : 0
```

```
LDP Sessions
```

```
=====
```

Peer LDP Id	Adj Type	State	Mesg Sent	Mesg Recv	Up Time
10.10.1.2:0	Targeted	Established	31285	116633	3d 04:25:55

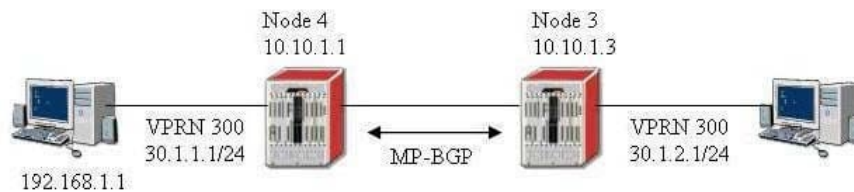
```
-----
```

- A. Local SDP id does not match with the remote sdp id.
- B. Far End IP address is not reachable.
- C. Keepalive has to be enable on the SDP.
- D. LDP is not enable on the remote node's interface.
- E. Targeted LDP session is disabled on the remote node.

Correct Answer: A

QUESTION 5

VPRN 300 is configured on Node 4. BGP is being used as the PE-CE routing protocol. Node 2 is the CE router. The BGP session is not established between Node 4 and Node 2. What is missing in the configuration?



Node 2

```
# config>router>bgp
  group "vrf"
    local-as 400
    neighbor 30.1.2.1
    peer-as 100

# show router bgp neighbor 30.1.2.1

=====
BGP Neighbor
=====
-----
Peer : 30.1.2.1
Group : vrf
-----
Peer AS      : 100          Peer Port      : 0
Peer Address : 30.1.2.1
Local AS     : 400          Local Port    : 0
Local Address : 0.0.0.0
Peer Type    : External
State        : Active
Last Event   : openFail
Last Error   : Cease
Local Family : IPv4
Remote Family : Unused

Hold Time      : 30          Keep Alive     : 30
Active Hold Time : 0        Active Keep Alive : 0
Cluster Id     : None
Preference     : 170        Num of Flaps    : 0
Recd. Paths    : 0
```

Node 4

```
# config>service>vprn 300
  route-distinguisher 200:200
  auto-bind l3p
  vrf-target target:100:100
  interface "toCPE4" create
    address 30.1.2.1/24
    sap 1/1/3 create
    exit
  exit
  static-route 40.1.1.1/32 next-hop 30.1.2.2
  bgp
    group "vrf"
      type external
      local-as 100
      neighbor 30.1.2.2
      peer-as 400
    exit
  exit
  no shutdown

# show router 300 bgp neighbor 30.1.2.2

=====
BGP Neighbor
=====
-----
Peer : 30.1.2.2          Group : vrf
-----
Peer AS      : 400          Peer Port      : 0
Peer Address : 30.1.2.2
Local AS     : 100          Local Port    : 0
Local Address : 0.0.0.0
```




- A. Type external has to be configured on Node 2 under group vrf
- B. Autonomous-system has to be configured on Node 4 under vprn 300
- C. Router-id has to be configured on Node 4 under vprn 300
- D. Router-id has to be added under BGP on Node 2
- E. EBGP will not work under VPRN

Correct Answer: B

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