



4A0-110^{Q&As}

Alcatel-Lucent Advanced Troubleshooting

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**QUESTION 1**

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	Msg Sent	Msg 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 2

L1 ISIS adjacency is up between two routers (Node-1 and Node-2) with MD5 authentication configured. During a maintenance window, an operator was planning to change one of the ISIS hello authentication key from admin to



admin123. After removing the hello authentication key from Node-1 (no change on Node-2 side), the ISIS adjacency stayed up. The operator decided to fall back to the original configuration and called Alcatel for support. Which of the following statement best describe the cause of the problem? Select one answer only.

```
config>router>isis# info
-----
area-id 49.0034
authentication-key "aiNjJt.qIqWjt49Wre6rPk" hash2
authentication-type message-digest
lsp-lifetime 65535
traffic-engineering
interface "to-Node2"
  level-capability level-1
  hello-authentication-key "aiNjJt.qIqWjt49Wre6rPk" hash2
  hello-authentication-type message-digest
  interface-type point-to-point
```

Node-2

```
config>router>isis# info
-----
area-id 49.0034
authentication-key "aiNjJt.qIqWjt49Wre6rPk" hash2
authentication-type message-digest
lsp-lifetime 65535
traffic-engineering
interface "to-Node1"
  level-capability level-1
  hello-authentication-key "aiNjJt.qIqWjt49Wre6rPk" hash2
  hello-authentication-type message-digest
  interface-type point-to-point
```

- A. The ISIS hello authentication key was not configured properly in the first place, that's why removing the authentication key does not impact the adjacency
- B. The ISIS authentication key is the same as the hello authentication key, therefore removing hello authentication key does not impact the adjacency
- C. The system interface is missing from the ISIS configuration, therefore ISIS is not working properly even before the change
- D. ISIS hello authentication key is only used for hello packet exchange. It does not affect ISIS adjacency
- E. ISIS hello authentication key is not used to bring up ISIS adjacency when traffic-engineering is enabled on the routers

Correct Answer: B

QUESTION 3

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 VPN Label	NextHop As-Path	LocalPref	MED
*i	10.1.4.0/24	30.1.2.2 400	none	200
*e	10.1.4.0/24	30.1.3.2 400 500	none	none
*?	10.1.4.0/24	30.1.4.2 400	none	none
*?	10.1.4.0/24	30.1.5.2 400	none	100
*i	10.1.4.0/24	30.1.6.2 400 500	none	100

- 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 4

VRPN 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	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	0
40.1.1.1/32	30.1.2.2	Remote	Static	00h00m05s 1	5	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 5

Which command can be used to view all interfaces configured under VPRN 300?

- A. Show router interfaces
- B. Show router interface vprn 300
- C. Show router 300 interfaces
- D. Show service vprn 300 interfaces
- E. Show service id 300 interfaces



Correct Answer: C

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