



# Alcatel lucent

## 4A0-M01 Exam

### Alcatel-Lucent IP/MPLS Mobile Backhaul Transport

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**Question: 1**

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When researching carrier-class Ethernet standards to support the mobile backhaul Ethernet transport, which standards body would you consult?

- A. IEEE
- B. MEF
- C. ITU-T
- D. NGMN

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**Answer: B**

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**Question: 2**

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The IETF is known for which standardization effort?

- A. It develops recommendations for core network functionality, broadband service delivery and next generation services
- B. It maintains Requests for Comment (RFC) that describe technical solutions to Internet challenges
- C. It creates single, integrated network design guidelines to support mobile broadband services
- D. It develops radio access services and systems for high capacity mobile networks

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**Answer: B**

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**Question: 3**

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Click on the exhibit.

```

A:MLS2# show port 1/2/2.3.5.1.1

-----
TDM DSO Chan Group
-----
Description      : DSOGRP
Interface        : 1/2/2.3.5.1.1
TimeSlots       : 1-24
Speed           : 64
Admin Status    : up
BER SF Link Down : disabled
Last State Change : 11/15/2011 13:37:42
CRC             : 32
Oper Status     : down
Chan-Grp IfIndex : 574687879

Configured mode : access
Admin MTU       : 1524
Scramble        : true
Physical Link   : no
Idle Cycle Flags : n/a
Payload Fill Type : n/a
Signal Fill Type : n/a
Ing. Pool % Rate : 100
Egr. Sched. Pol : N/A
Encap Type     : atm
Oper MTU       : 1524
Bundle Number  : none
Load-balance-algo : Default
Payload Pattern : N/A
Signal Pattern  : N/A
Egr. Pool % Rate : 100
-----
...output truncated

```

Given the following:

- On the OC-3 port, each provisioned channel group contains all available timeslots. The command result illustrates which circuit status?

- The E1 channel group is administratively turned down
- The DS1 circuit physical link is operationally down
- The IMA bundle has no operational member links
- The associated Layer 3 interface is operationally down

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**Answer: B**

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#### Question: 4

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In the Alcatel-Lucent SROS, which command creates the OC-3 path's Administrative Unit (AU)-4 Virtual Container (VC) capacity?

- configure port 3/1/2 sonet-sdh path au-4
- configure port 3/1/2 sonet-sdh path sts3
- configure port 3/1/2 sonet-sdh path tug-3
- configure port 3/1/2 sonet-sdh path vc-4

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**Answer: B**

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#### Question: 5

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Click on the exhibit.

```

A:MLS1# show port 1/2/1.1.2.2.1

=====
TDM DS0 Chan Group
=====
Description      : DS0GRP
Interface        : 1/2/1.1.2.2.1
TimeSlots       : 2-32
Speed           : 64
Admin Status    : up
BER SF Link Down : disabled
Last State Change : 11/15/2011 12:41:41
Chan-Grp IIndex : 574652640

Configured mode : access
Admin MTU       : 1502
Scramble        : false
Physical Link   : yes
Idle Cycle Flags : flags
Payload Fill Type : n/a
Signal Fill Type : n/a
Ing. Pool & Rate : 100
Egr. Sched. Pol : N/A

Encap Type      : ipcp
Oper MTU        : 1502
Bundle Number   : none
Load-balance-algo : Default
Payload Pattern : N/A
Signal Pattern  : N/A
Egr. Pool & Rate : 100

=====
... output truncated

```

On the OC-3 port, each provisioned channel group contains all available timeslots. The command result illustrates which OC-3 port characteristic?

- A. On STS1-1, the second VT1.5 in the second VTG is set for IPCP encapsulation
- B. On STS1-1, the second DS1 channel group in the second VTG is operationally up
- C. On STS1-1, the second E1 channel group in the second TUG-2 is operationally up
- D. On STS1-1, the second VT2 in the second TUG-2 is set for IPCP encapsulation

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**Answer: C**

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### Question: 6

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Which statement correctly describes the Point-to-Point (PPP) Multilink Protocol (MP) negotiation process?

- A. At least one link must complete Link Control Protocol (LCP) negotiations before the bundle can initialize
- B. The endpoints indicate their desire to implement MP in the link Network Control Protocol (NCP) phase
- C. The bundle must complete LCP negotiations before it can enter the NCP negotiation phase
- D. Internet Protocol-Control Protocol (IPCP) negotiations must succeed for the bundle links to initialize

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**Answer: A**

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### Question: 7

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In the Alcatel-Lucent SROS, which payload type set in a SDH-framed OC-12 port creates individual E1 containers?

- A. Virtual Tributary (VT) 1.5
- B. VT2
- C. Virtual Container (VC)-11
- D. VC-12

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**Answer: B**

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**Question: 8**

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Click on the exhibit.

```
A:MLS2# show multilink-bundle
-----
Bundle Summary
-----
Bundle          Type      Admin   Oper   Port   Min   Total/
Id              State    State   State  State  Links Active Links
-----
bundle-ima-1/2.5 ima-grp  Up      Down   Link Up  2     4/2
-----
Bundles : 1
-----
```

The command result indicates which condition on the Inverse Multiplexing over ATM (IMA) bundle?

- A. The number of active links has dropped below the minimum threshold
- B. The associated Layer 3 interface is administratively down
- C. The remote IMA bundle is administratively down
- D. The parent OC-3 is operationally down

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**Answer: C**

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**Question: 9**

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Which timing technique can deliver time of day and phase synchronization information to the base station without concern for Packet Delay Variation (PDV)?

- A. Building Integrated Timing Supply (BITS)
- B. Global Positioning System (GPS)
- C. Adaptive Clock Recovery (ACR)
- D. IEEE 1588v2/Precision Time Protocol (PTP)

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**Answer: B**

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**Question: 10**

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Which messages, periodically sent between an IEEE 1588v2/Precision Time Protocol (PTP) v2 master and slave, serve as hellos to help the slave choose the best available master?

- A. Announce
- B. Announce\_grant
- C. Sync
- D. Delay\_response

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**Answer: A**

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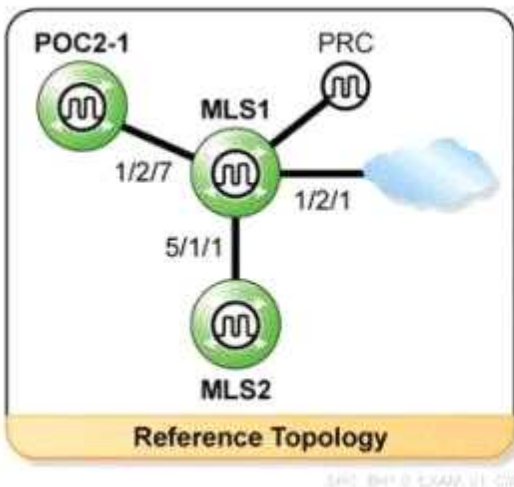


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**Question: 11**

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Click on the exhibit.



```

ref-order ref1 bits ref2
ref1
    source-port 1/2/1
    no shutdown
exit
ref2
    source-port 5/1/1
    no shutdown
    qi-override prs
exit
bits
    interface-type ds1 sf
    qi-override prs
input
    no shutdown
exit
exit
revert
    
```

Consider the topology and MLS1 configuration shown, and given the following conditions:

- MLS1 delivers the PRC traceable clock to the network
- Reference 1 receives Quality Level (QL) - ST3
- Reference 2 receives QL - DUS
- BITS sets QL-STU

Which quality level will MLS1 deliver to POC2-1 on its Synchronous Ethernet (SyncE) port 1/2/7?

- A. QL-EEC2
- B. QL-PRS
- C. QL-ST3
- D. QL-STU

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**Answer: C**

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**Question: 12**

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Click on the exhibit.

```

A:CSA2# show system ptp clock 1 ptp-port 1 peer 1
-----
Peer-1
-----
IP Address       : 192.0.2.0      static/dynamic   : static
Current Master   : TRUE
Description      : MLS1
Clock Id        : 0ca402ffffe96b401  Port Number      : 1
GM Clock Id     : 0ca402ffffe96b401  GM Clock Class   : 80
GM Clock Accuracy : unknown(254)      GM Clock Variance : not computed
GM Clock Priority1 : 128                GM Clock Priority2 : 128
Step Type       : one-step
Last Rx Anno Msg : 11/22/2011 10:28:05
-----
Unicast Info
-----
Dir Type      Rate      Dur Result      Time              Remain
-----
Rx Anno       1 pkt/2 s 300 granted      11/22/2011 10:25:56 172
Rx Sync       64 pkts/s 300 granted      11/22/2011 10:26:02 178
Rx DelayResp  64 pkts/s 300 granted      11/22/2011 10:26:02 178
-----
... output truncated

```

Given the show command results shown:

With what IEEE 1588v2/Precision Time Protocol (PTP) v2 message did the slave node set the Unicast message rates used by the master?

- A. Announce granted
- B. Announce request
- C. Sync granted
- D. Sync request

---

**Answer: B**

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### Question: 13

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Which statement best describes adaptive timing techniques?

- A. Adaptive timing calculates the time of day from time stamped packets
- B. Adaptive timing calculates the time of day from the arriving packet rate
- C. Adaptive timing only supports frequency synchronization
- D. Adaptive timing only operates on point-to-point links

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**Answer: A**

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### Question: 14

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If an IEEE 1588v2/Precision Time Protocol (PTP) v2 slave times out announce messages with the master, to which state does the slave port transition to choose another potential master?

- A. Initial

- B. Listening
- C. Passive
- D. Un-calibrated

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**Answer: B**

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**Question: 15**

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Click on the exhibit.

```
-----  
ref-order external ref1 ref2  
ref1  
    source-ptp-clock 1  
    no shutdown  
exit  
ref2  
    source-port 1/2/7  
    no shutdown  
    ql-override prc  
exit  
external  
    input-interface  
        impedance high-impedance  
        no shutdown  
    exit  
exit  
-----
```

Given the configuration shown and the following conditions:

- \* The external reference is offline
- \* Reference 1 receives Quality Level (QL) - EEC1
- \* Reference 2 receives QL - SSU-A

Which quality level will the SAR router advertise to its Synchronous Ethernet (SyncE) peers?

- A. QL-DNU
- B. QL-EEC1
- C. QL-SSU-A
- D. QL-PRC
- E. QL-UNC

---

**Answer: B**

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