

4A0-M01 - Alcatel-Lucent IP/MPLS Mobile Backhaul Transport

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1. 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

Answer: B

2. 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

Answer: B

3. Click on the exhibit.

Given the following:

On the OC-3 port, each provisioned channel group contains all available timeslots.

The command result illustrates which circuit status?

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

Answer: B

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

- A. configure port 3/1/2 sonet-sdh path au-4
- B. configure port 3/1/2 sonet-sdh path sts3
- C. configure port 3/1/2 sonet-sdh path tug-3
- D. configure port 3/1/2 sonet-sdh path vc-4

Answer: B

5. Click on the exhibit.

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

Answer: C

6. 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

Answer: A

7. 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

Answer: B

8. Click on the exhibit.

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

Answer: C

9. 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)

Answer: B

10. 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

Answer: A

11. Click on the exhibit.

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

Answer: C

12. Click on the exhibit.

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

13. 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

Answer: A

14. 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

Answer: B

15. Click on the exhibit.

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

16. Click on the exhibit.

Given the show command results shown:

Which IEEE 1588v2/Precision Time Protocol (PTP) v2 parent clock value does the slave first consider when choosing its master?

A. GM Clock Priority1

B. GM Clock ID

C. GM Clock Priority2

D. GM Clock Class

Answer: D

17. An SROS router obtains its timing exclusively from its BITS input port. The router sets Quality Level (QL) SONET Traceability Unknown (STU) on this Superframe (SF) framed DS1 BITS reference.

What must you configure on this master router to pass the best clock quality level to the downstream Synchronous Ethernet (SyncE) slave nodes while maintaining traceability to the DS1 source?

A. Enable "ql-override prs" on the BITS reference

B. Enable "ql-override prs" on the master's SyncE ports

C. Enable "ql-selection prs" on the BITS reference

D. Set the master router to choose its source by quality level

Answer: A

18. Click on the exhibit.

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) - EEC1
- * Reference 2 receives QL - SSU-A
- * BITS sets QL-SSU-B

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

- A. QL-EEC1
- B. QL-PRC
- C. QL-SSU-A
- D. QL-STU

Answer: B

19. Which synchronization technique supports time of day and phase synchronization?

- A. IEEE 1588 v2/Precision Time Protocol (PTP)v2
- B. Adaptive Clock Recovery (ACR)
- C. Time Division Multiplexing (TDM) line timing
- D. Synchronization Ethernet (SyncE)/Synchronization Status Message (SSM)

Answer: A

20. Which is a characteristic of the IEEE 802.3 Slow Protocol?

- A. There are a maximum of 10 frames transmitted per second
- B. There are a maximum of 20 slow protocol subtypes per interface
- C. The maximum slow protocol frame size is 64 bytes
- D. The slow protocol header carries the clock quality level

Answer: A

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