

Quiz Newest 4A0-F10 - New Guide Nokia Fixed Networks Fundamentals Files



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Nokia 4A0-F10 Exam Syllabus Topics:

Section	Objectives
Topic 1: Introduction to Fixed Networks	- FTTH concepts and solutions - Broadband access services - FTTx concepts and solutions - Broadband network fundamentals - Fixed Wireless Access (FWA)
Topic 2: Home Network	- Wi-Fi fundamentals - Home network device management - Home network connectivity - Home network devices
Topic 3: Fixed Networks Management	- NETCONF and YANG - IPFIX telemetry collection - NFV and SDN fundamentals - Nokia SDAN solution - Corteca home device controller - Altiplano SDAN Controller
Topic 4: Access Network	- Access network architecture - Optical Line Terminal (OLT) functionality - Multicast protocols for video distribution - Quality of Service (QoS) fundamentals - Lightspan service components - Voice services
Topic 5: Broadband Services	- Intent mapping to network layers - IPTV services - Value-added and triple-play services - Intent-Based Networking (IBN) - High-speed Internet services

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Nokia Fixed Networks Fundamentals Sample Questions (Q42-Q47):

NEW QUESTION # 42

Why must a managed ONT or residential gateway be reachable before an Auto Configuration Server can provision it using TR-069?

- A. TR-069 communicates exclusively through an OLT serial console.
- B. TR-069 writes configuration directly to a passive splitter.
- C. TR-069 can configure only devices that are physically inside the central office.
- **D. TR-069 requires an active management session with the device.**

Answer: D

Explanation:

TR-069 enables remote management through communication between customer-premises equipment and an Auto Configuration Server. The device must be powered, operational, and able to establish or participate in a management session before configuration parameters, software information, diagnostics, or status data can be exchanged. An ACS cannot provision a device that is completely offline because no active communication path exists. TR-069 does not configure passive splitters, which contain no management processor or configurable service logic. The managed device can be located at the subscriber premises and does not need to be inside the central office. Communication is carried over the device's network connection rather than exclusively through an OLT serial console. Authentication and protected transport help secure management exchanges between the device and the ACS.

NEW QUESTION # 43

Which Altiplano intent is used to define the uplink interfaces that connect an OLT toward the aggregation network?

- A. Subscriber-authentication intent
- B. Multicast-report intent
- **C. Uplink-connection intent**
- D. Wi-Fi-radio intent

Answer: C

Explanation:

The uplink-connection intent defines how an OLT connects toward the aggregation or transport network. It is used to configure relevant uplink resources, which can include network-facing interfaces and associated parameters supported by the device and intent model. This intent is distinct from the broader device intent and device-configuration information used to identify and configure the particular access node and its assigned profiles. Subscriber authentication, Wi-Fi radio operation, and multicast membership reporting are separate functional areas and are not substitutes for the OLT uplink-connection intent. By representing uplink connectivity as an intent, Altiplano can translate the desired connection into lower-level device configuration and apply it consistently through model-driven management. The resulting configuration must still match the capabilities and physical resources available on the selected OLT.

NEW QUESTION # 44

Which of the following statements correctly describes downstream and upstream transmission in a GPON network?

- **A. Downstream traffic is broadcast from the OLT toward the ONTs, while upstream transmissions use OLT-controlled time slots.**

- B. Both downstream and upstream traffic are continuously broadcast without coordination by the OLT.
- C. Downstream traffic uses time slots assigned individually by each ONT, while upstream traffic is broadcast to all ONTs.
- D. Downstream and upstream traffic require separate optical fibers between the OLT and each ONT.

Answer: A

Explanation:

GPON uses different transmission methods in the downstream and upstream directions. In the downstream direction, the OLT sends a continuous stream through the passive optical splitter. This stream reaches every connected ONT, but each ONT processes only the frames intended for it. Encryption can protect subscriber traffic from other ONTs on the same PON. In the upstream direction, several ONTs share the same optical fiber and cannot transmit simultaneously without coordination. The OLT therefore assigns transmission opportunities using Time Division Multiple Access. Dynamic Bandwidth Allocation can adjust these upstream grants according to traffic demand and service requirements. Separate fibers are not required for each subscriber because GPON commonly uses wavelength separation to carry downstream and upstream traffic over the same fiber infrastructure.

NEW QUESTION # 45

Why does an access automation platform store operational state, logs, and telemetry in a common data lake?

- A. To support centralized analysis, monitoring, and automation
- B. To convert unicast subscriber traffic into multicast traffic
- C. To prevent applications from accessing historical information
- D. To replace every physical access device with stored records

Answer: A

Explanation:

A common data lake provides a centralized location for operational state, telemetry, logs, alarms, and other information collected from access-network devices and applications. Centralized data enables monitoring tools to correlate information across multiple nodes, evaluate network health, identify trends, and support analytics-driven automation. Historical data can also assist with troubleshooting, performance baselining, capacity planning, and detection of abnormal behavior. The data lake does not replace physical access devices; it stores information describing their operation. It is intended to make relevant information available to authorized applications rather than prevent historical access. It also does not automatically transform subscriber unicast traffic into multicast. Forwarding behavior is controlled through service and network configuration, whereas the data lake supports visibility, analysis, and operational decision-making.

NEW QUESTION # 46

What is a typical function of the Network Termination card in a Nokia Lightspan access node?

- A. It terminates every analog telephone inside the subscriber's home.
- B. It provides Wi-Fi connectivity directly to subscriber mobile devices.
- C. It operates as the passive splitter in the Optical Distribution Network.
- D. It provides external network-facing interfaces through faceplate connectors or optical cages.

Answer: D

Explanation:

The Network Termination card provides network-facing connectivity for a Lightspan access node. Its faceplate can contain connectors and optical cages used to connect the node to external aggregation, transport, management, synchronization, or other supported interfaces. The card participates in forwarding traffic between subscriber-facing line termination resources and the upstream network. It is an active component and must not be confused with a passive optical splitter in the outside plant. It also does not provide in-home Wi-Fi directly to subscriber devices; that function belongs to a residential gateway or Wi-Fi access point. Analog telephones are normally connected through voice-capable subscriber equipment, such as an ONT with appropriate telephone interfaces, rather than directly to the Lightspan NT card.

NEW QUESTION # 47

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