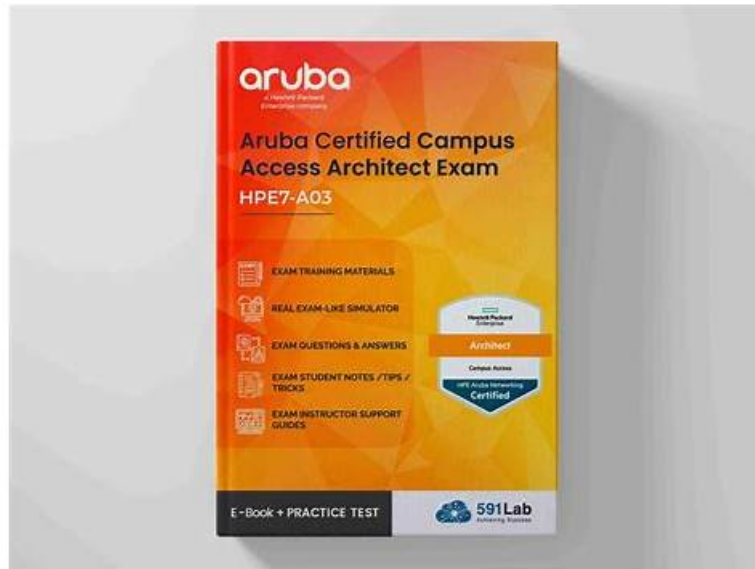


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### HP HPE7-A03 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none"> <li>Propose the Solution: The focal point of this topic is creating the design documentation and the final design. Moreover, the topic also focuses on presenting the solution.</li> </ul>
Topic 2	<ul style="list-style-type: none"> <li>Discover Requirements: This topic defines the goals and identifies the current environment and the objectives. Lastly, it also focuses on collecting information.</li> </ul>

Topic 3	<ul style="list-style-type: none"> <li>• <b>Analyze Requirements:</b> It focuses on determining possible high-level solutions. The topic also discusses mapping the needs into technical solutions and evaluating the proposed solution against project objectives and dependencies. Moreover, it also focuses on documenting assumptions.</li> </ul>
Topic 4	<ul style="list-style-type: none"> <li>• <b>Architect the Solution:</b> It measures your knowledge about identifying the solution options, designing high-level topologies, selecting the correct products, and determining the suitable overlay and underlay design. Additionally, the topic discusses how to verify that the design meets the original requirements.</li> </ul>

## HP Aruba Certified Campus Access Architect Exam Sample Questions (Q72-Q77):

### NEW QUESTION # 72

'Don't Buy at Us' is a US-based retail company that is expanding into Europe. They are expanding into EMEA with a regional headquarters called HQ2 inside The Netherlands.

Their US-based headquarters HQ1 was refreshed last year based on the Aruba ESP architecture. You have treated the design for HQ2 based on the same design as HQ1, a two-tier architecture. The high level is shown below.

Switch BOM for this project based on Two Tier:

Collapsed Core: 2 x Aruba 8360-16Y2C in VSX (ISL 2 ICOG0E DAC)

Access Stack: 10 x Stack of Aruba 6200F 48G Class4 PoE 4SFP- 740W each stack has 4 members. VSF with 10GbE VSF links) 12 x 10GbE uplink per stack) During the presentation of your design to the CTO of "Don't Buy at Us" you were informed about the changes they want you to incorporate into the updated design

1. HQ2 will include the EMEA regional distribution center (EMEA-OISTR) next to the HQ2.
2. Only two pairs of OS1 are available between HQ2 and EMEA-DISTR.
3. The uplinks from all access stacks need to increase to 2 x 25GbE. the fiber in HQ2 and EMEA-DISTR is certified for 25GbE.
4. EMEA-DISTR needs at least 7 x stack of Aruba 48 ports switches (each stack has 4 members).

Which answer based on best practice is presenting the correct Switch BOM for the updated design?

- A.
- B.
- C.
- D.

**Answer: C**

Explanation:

Based on the requirements provided by "Don't Buy at Us," the updated design needs to accommodate 25GbE uplinks and a minimum of 7 stacks of 48-port Aruba switches for the EMEA-DISTR. Option C is the most suitable based on best practices, as it proposes:

\* A core configuration consisting of two Aruba 8360-12C in VSX for the collapsed core with ISL of

2x100GbE DAC, which will provide robust core networking with high-speed interconnects, suitable for the demands of a regional distribution center and headquarters.

\* Aggregation with two stacks, each with 2 Aruba 8360-12C in VSX (ISL 2x100GbE DAC), accommodating the uplink capacity requirements.

\* Access stacks with a total of 17 stacks of Aruba 6300F 48-port 1GbE Class 4 PoE with 4-port SFP56 (each stack has 4 members, VSF with 50GbE VSF links, 2 x 25GbE uplinks per stack), which exceeds the minimum requirement of 7 stacks and provides the necessary uplink bandwidth.

This configuration supports the 25GbE uplink speeds, satisfies the required number of switch stacks for the EMEA distribution center, and is compatible with the existing 25GbE-certified fiber infrastructure at HQ2 and EMEA-DISTR.

### NEW QUESTION # 73

A large multinational financial institution has contracted you to design a new full-stack wired and wireless network for their new 6-story regional office building. The bottom two floors of this facility will be retail space for a large banking branch. The upper floors will be carpeted office space for corporate users, each floor being approximately 100,000 sq ft (9290 sqm). Data centers are all off site and will be out of scope for this project. The customer is underserved by its existing L2-based network infrastructure and would like to take advantage of modern best practices in the new design. The network should be fully resilient and fault-tolerant, with dynamic segmentation at the edge.

The retail space will include public guest Wi-Fi access. Retail associates will have corporate tablets for customer service, and there

will be a mix of wired and wireless devices throughout the retail floors. The corporate users will primarily use wireless for connectivity, but several wired clients, printers, and hard VoIP phones will be in use.

The customer is also planning on renovating the corporate office space in order to take advantage of 'smart office' technology. These improvements will drive blue-dot wayfinding, presence analytics, and other location-based services. The client decided that wired headless devices would be authenticated using Mac Authentication and would have RADIUS attributes sent back to the NAD to assign VLAN and port access parameters to the authentication session on the switch port.

What would be critical in making this a successful deployment? (Select two.)

- A. Mobility Gateway
- B. Airwave
- C. ClearPass
- D. DHCP

**Answer: A,C**

#### NEW QUESTION # 74

What documents should be included in the solution proposal? (Place the correct items into the list at the right.

Order is not important. Not all options will be used)

**Answer:**

Explanation:

Explanation:

bill of materials

proposed topology diagram

quote

#### NEW QUESTION # 75

A global cruise line company needs to refresh its current fleet. They will refresh the 'insides' of the ship to be cost-effective and increase their sustainability. They will replace the complete WLAN/LAN hardware of the ship. In this refresh, the company will not refresh its current security requirements. The CIO also wants to limit the number of unused ports in the switches. Future expansion will always mean a refresh of hardware.

They start with the smallest ship with a maximum of 800 guests.

Each ship has a LAN infrastructure consisting of two core switches, up to 10 redundant distribution switches, and up to 500 access switches (400 cabins, 100 technical rooms). The core switches are located in the MDF of the ship and the distribution switches are located in the IDF's of the ship. Each cabin and technical room gets one single access switch.

The cabling structure of the ship will not be refreshed. Each IDF is connected to the MDF by SMF, of which two pairs are available for the interconnect between the core and distribution. The length of SM fiber between MDF and IDF is less than 300 meters (980 ft) and the type used is OS1. Each cabin is connected by a single OM2 pair to the IDF, the maximum length is 60 meters (200 ft).

Each technical room is connected by a single OM2 pair to the IDF, with lengths between 100 and 150 meters (320 and 500 ft).

For each cabin/technical room the customer is looking to replace their current fan-less 2530/2540 without changing the requirements, except they need to upgrade the uplink to distribution switch to 10 GbE to handle the increased network traffic, and the technical rooms need redundant power.

The WLAN infrastructure will be 1:1 refreshed without new cabling or new AP locations. Their WLAN infrastructure is based on the 200/300 series indoor and outdoor APs running InstantOS (less than 300 APs), the customer has no change in WLAN requirements.

The cruise line company will replace its current Internet connection before the LAN/WLAN refresh. The new Internet connection will provide a 99.8% uptime, which is needed to ensure the paid guest Wi-Fi is always operational. With this new Internet connection, the CIO of the cruise line wants to base the design on the ESP architecture from Aruba because the Internet connection is guaranteed.

Based on best practices, what should you recommend as the correct optic type for the connection between the IDF and the cabins?

- A. 10G SFP+ LC LRM 220 m MMF Transceiver
- B. 10GBASE-T SFP+ RJ-45 30 m Cat6A Transceiver
- C. 10G SFP+ LC SR 300 m MMF Transceiver
- D. 10G LC BiDi 40 km 1330/1270 XCVR

**Answer: C**

Explanation:

\* Cabling Type in Use: Each cabin and technical room is connected to the IDF with a single OM2 multimode fiber pair. The maximum length to cabins is 60 meters, and to technical rooms 100-150 meters.

\* Best Practice for 10 GbE over OM2: According to Aruba's Campus Access Design Guides and HPE Aruba CX switch transceiver support matrices:

\* OM2 multimode fiber supports 10GBASE-SR optics up to 82 meters.

\* Since the maximum run is 60 meters, 10GBASE-SR is fully supported with headroom.

\* 10GBASE-LRM can reach 220 m on MMF, but is not required here because the fiber length is much shorter. SR optics are simpler, lower cost, and recommended in best practices when distances are within OM2 limits.

\* 10GBASE-T RJ-45 (Cat6A) is not applicable, as the cabling is fiber, not copper.

\* BiDi 40 km optics are for long-haul single-mode fiber links, not short multimode fiber runs.

\* Aruba Validated Design Reference: Aruba's Validated Solution Guides for Campus Access state that for short multimode connections (OM2/OM3/OM4), the recommended transceiver type is

10GBASE-SR (SFP+ LC) as it provides the most cost-effective and reliable option within the supported reach.

\* Requirement Mapping:

\* Uplinks to access switches in cabins/technical rooms must be 10 GbE capable.

\* The OM2 cabling length (60-150 m) is within the supported distance for 10GBASE-SR.

\* Therefore, the correct and most efficient optic choice is 10G SFP+ LC SR 300 m MMF Transceiver.

Final Justification:

Option B is correct because 10GBASE-SR over OM2 supports the required distances, aligns with Aruba design best practices, and avoids unnecessary cost/complexity of LRM or BiDi optics.

Reference Extracts (Aruba Official Study & Design Guides):

\* Aruba Campus Access Design Guide: recommended transceiver selection for MMF cabling.

\* Aruba CX Transceiver Guide: 10GBASE-SR supports OM2 up to 82 m, OM3 up to 300 m, OM4 up to 400 m.

\* Aruba Validated Solution Guide: Always select SR optics for OM2 # 82 m runs as the cost-effective standard.

## NEW QUESTION # 76

Based on this campus design, click on the layer that is the most appropriate to be designed as a Stub Persona, considering an EVPN VXLAN Fabric?

**Answer:**

Explanation:

Explanation:

Service Aggregation

## NEW QUESTION # 77

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