



HP Certified Professional Program

ProCurve Network Access Control, HP0-Y15

Exam Preparation Guide

Purpose of the Exam Prep Guide

The intent of this guide is to set expectations about the content and the context of the exam and to help candidates prepare for the exam. In this guide, you will find recommended HP training courses, reference and study material to help you achieve a successful passing score.

Studies conducted by HP and Prometric show that a combination of course attendance and self-study maximizes the likelihood of passing the exam on the first attempt.

Audience

This exam is for systems engineers or networking engineers designing complex networks. Examples of job roles:

Reseller and customer network specialists, System Engineers, Network Engineers, HP Field System Engineers, HP Services Technical Support and Field Services Engineers

General areas of content include: the installation, configuration, and management of the ProCurve Network Access Controller (NAC) 800 appliance.



Certification Requirements

ProCurve Network Access Control, HP0-Y15, is one of the core requirements to be certified as a Master Accredited System Engineer (ASE) for ProCurve Networking Security Solutions.

The Master ASE – ProCurve Networking designation provides certification that an individual has the skills to design complex, scalable ProCurve-based networks and can implement and support complex secure, switched and routing environments. This level of certification establishes the competencies required for hands-on design, integration and support of ProCurve Security Solutions for complex, enterprise networks. Given a set of customer business requirements, a MASE is expected to perform consultative planning, architecting and leading the deployment of secure ProCurve solutions. This may include products and components from other vendors as necessary to solve business needs. Key focus is on understanding the security impacts of applications and network services.

Prerequisites

The following requirements are prerequisites for the Master ASE – ProCurve Security Solutions Certification.

- AIS – HP ProCurve Networking
- Attend the ProCurve Security course and/or pass the associated exam (HP0-Y11)
- Attend the Building ProCurve Resilient, Adaptive Networks v7.41 course and/or pass the associated exam (HP0-Y12)
- Attend and/or pass the exam for ProCurve Network Management (HP0-Y13)
- Attend and/or pass the exam for ProCurve Network Access Control (HP0-Y15)
- Attend and/or pass the exam for ProCurve Network Immunity Solutions (HP0-Y16)

Exam Details

At the beginning of the exam, you will be asked to answer several survey questions. The survey questions are designed to assist the exam development team in accurately profiling test results and to improve future exams.

The following are details about the exam:

- **Number of items:** 70
- **Item types:** multiple choice
- **Time commitment:** 105
- **Passing Score:** 75% (53 items to pass)
- **Reference Material:** No on-line or hard copy reference material will be allowed at the testing site.

Comments on the Exam

During the exam, participants can make specific comments about the items (i.e., accuracy, appropriateness to audience, etc). HP welcomes these comments as part of our continuous improvement process.

Exam Content

The following testing objectives represent the specific areas of content covered in the exam. Use this outline to guide your study and to check your readiness for the exam. The exam measures your understanding of these areas.

Objective	
1.0	List common security challenges facing network administrators today
•	Define and explain the differences between layers of network security
•	Describe the ProCurve ProActive Defense network security framework
2.0	List the network access control capabilities of the ProCurve NAC 800
•	Describe the hardware and software features of the ProCurve NAC 800
•	Describe the initial setup process that is done using the LCD menu and buttons on the front panel
•	Describe the additional setup tasks performed using the

Objective

	web management interface
	<ul style="list-style-type: none"> Identify the ProCurve NAC 800 licensing requirements and options Describe the ProCurve NAC 800 registration and license validation process Describe how to configure user accounts and user roles Explain how to perform common maintenance tasks Explain how to configure NAC tests, policies, and policy groups Explain how to generate endpoint activity reports
3.0	Describe how the DHCP quarantine method operates
	<ul style="list-style-type: none"> List the requirements for implementing the DHCP quarantine method Describe the configuration tasks involved in deploying the DHCP quarantine method
4.0	Describe how the inline quarantine method operates
	<ul style="list-style-type: none"> Identify deployment scenarios that use the NAC 800 operating with the inline quarantine method List the requirements for implementing the inline quarantine method Describe the configuration tasks involved in deploying the inline quarantine method
5.0	Describe how the 802.1X quarantine method operates
	<ul style="list-style-type: none"> Identify deployment scenarios that use the NAC 800 operating with the 802.1X quarantine method List the requirements for implementing the 802.1X quarantine method Describe the configuration tasks involved in deploying the 802.1X quarantine method
6.0	Describe how the 802.1X quarantine method operates with IDM
	<ul style="list-style-type: none"> List the requirements for implementing the 802.1X quarantine method with IDM □ Describe the configuration tasks involved in deploying

Objective

	the 802.1X quarantine method with IDM
7.0	Describe the components of distributed multiple server NAC 800 configuration
	<ul style="list-style-type: none"> List the tasks performed by a Management Server and an Enforcement Server Implement multiple cluster and high availability NAC 800 configurations Describe the components of distributed multiple server NAC 800

Recommended Training and Study References

This section lists training courses and documents that can help you acquire a majority of the knowledge and skills needed to pass the exam. You must also gain the practical experience outlined in this guide

You are not required to take the courses listed in this section. However, HP **strongly recommends** that you attend the classes, participate in class labs, and thoroughly review all course material and documents before taking the exam, even if you believe you have sufficient on-the-job experience.

Instructor-Led Training

Use the information in this guide and the practical experience you have gained

Title	Course Number	How to Enroll
ProCurve Network Access Control (v8.11 or later)	00044516	http://www.hp.com/go/procurvetraining use the regional links to find schedules and registration information

Documentation

Title	Section Title	Source/Order Number
ProCurve Network Access Controller 800 and related switch manuals	All sections	http://www.hp.com/rnd/support/manuals/index.htm

Other Reference Material

Title	Order Number	Source
FAQs, Manuals, Configuration Examples, etc.		http://www.hp.com/rnd/support/

Exam Registration

For information about exam registration, [click here](#).

Sample Test Items

The following examples represent the types of items and question formats that you could see on the exam.

1. Which statements describing ProCurve NAC 800 hardware features are correct? (Select three.)
 - A. The USB port can be used to upgrade the system software.
 - B. Ethernet port 1 is used to access the Web management interface.
 - C. The LCD menu and control buttons can be used to perform a ping test.
 - D. Up to four Ethernet 10/100/1000 Mbps ports are supported depending on the quarantine method.
 - E. A console port connection can be established using a standard ProCurve switch console port cable.

2. Which statement describing test updates for the ProCurve NAC 800 is correct?
- A. The default schedule checks for test updates every hour.
 - B. Test updates can be downloaded for free for the life of the product.
 - C. Test updates can be retrieved and later installed from a CDROM drive attached to the NAC 800.
 - D. Test updates can be downloaded on-demand using the LCD menu, console menu, and Web management interface.
3. Which network configuration is similar to a quarantine area used by a ProCurve NAC 800 operating with the DHCP quarantine method?
- A. DHCP scope
 - B. multinatted subnet
 - C. unauthorized VLAN
 - D. secure management VLAN
 - E. group of statically assigned IP addresses

4. Which statement describing the ProCurve Access Control Solution 2.0 is correct?
- A. ProCurve Manager Plus can manage ProCurve NAC 800s centrally when the Endpoint Integrity feature is enabled.
 - B. ProCurve Network Immunity Manager is a plug-in module of ProCurve Manager Plus that detects and automatically responds to threats.
 - C. ProCurve Identity Driven Manager automatically synchronizes its local user database with LDAP servers, eDirectory, and Active Directory.
 - D. A ProCurve NAC 800 can perform endpoint integrity assessment of NetWare, Macintosh, and Windows devices connecting at the network edge.
5. Which statements describe how the ProCurve NAC 800 inline quarantine method operates? (Select two.)
- A. This method uses a quarantine subnet to limit network access by quarantined or unknown endpoints.
 - B. The NAC 800 blocks traffic received on port 2 to port 1 only if the source endpoint has passed integrity testing.
 - C. It controls access to the enterprise network from endpoints based on their IP addresses and associated firewall rules.
 - D. By default, the traffic from the enterprise network on port 1 is forwarded through port 2 to quarantined or unknown endpoints.
 - E. By default, all quarantined traffic is blocked from the enterprise network except for destinations on the Accessible Services List.

6. Which statement describing the 802.1X user authentication process is correct?
- A. A switch passes EAP messages between the supplicant and authentication server without modification or translation.
 - B. After a RADIUS server confirms a user is authenticated, the switch sends an EAP-Success message and sets the port state to authorized.
 - C. Different RADIUS servers must be configured on the switch if authentication of both switch management users and 802.1X supplicants will be performed.
 - D. If a supplicant receives an EAP-Request message specifying a particular EAP method to be supported, the authentication session is closed if the supplicant does not support that EAP method.
7. You are deploying a ProCurve NAC 800 that will operate using the 802.1X quarantine method in a network with a ProCurve 5406zl switch, a Microsoft IAS server, and an Active Directory server. The NAC 800 will be used as a RADIUS proxy and perform endpoint integrity enforcement.

Which configuration tasks should you perform? (Select three.)

- A. Define a RADIUS client entry in IAS for the NAC 800.
- B. Add the IAS server as an 802.1X device on the NAC 800.
- C. Specify Proxy as the end-user authentication method on the NAC 800.
- D. Configure VLAN identifiers for each supported posture in the SAIASConnector.ini file on the NAC 800.
- E. Configure a shared secret in the RADIUS proxy configuration file on the NAC 800 that is used to communicate with the IAS server.

8. Which statement describing the implementation of IDM is correct?
- A. Installing the NAC 800 plug-in for IAS includes the IDM Agent.
 - B. Endpoint integrity support is enabled through IDM preferences.
 - C. The IDM management server can be installed with the PCM+ management server or on a separate system.
 - D. An upgrade of the IDM Agent on the NAC 800 can be done using the check for system upgrades option in the Web management interface.
9. You are configuring an Access Rule for an Access Policy Group in IDM. Which 802.1X posture for endpoints would match the rule if you select UNKNOWN for the Endpoint Integrity criterion?
- A. Untested
 - B. Unknown
 - C. Unavailable
 - D. Unreachable

Answers

1. A,B,C
2. A
3. A
4. B
5. C,E
6. B
7. A,C,E
8. B
9. B

Conclusion

HP wishes you success in the HP Certified Professional Program and in passing the exam for which you are preparing.