



HP Certified Professional Program

ProCurve Mobility,
HP0-Y18

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

ProCurve Mobility helps network engineers obtain the knowledge and skills required to design, deploy, manage, and troubleshoot IEEE 802.11-based wireless networks. The course provides hands-on experience in configuring and troubleshooting ProCurve mobility infrastructure devices and in using ProCurve Mobility Manager (PMM) to plan and adjust wireless coverage.



Certification Requirements

ProCurve Mobility, HPO-Y18, is a core requirement to be certified as an Accredited Systems Engineer (ASE) ProCurve Networking and Mobility [2008].

The ASE – ProCurve Networking and Mobility [2008] designation provides certification that an individual has the skills to design, install, configure, and manage complex, scalable ProCurve-based wireless. This certification also has a focus on the use of ProCurve Manager and ProCurve Mobility Manager to design, configure, monitor, and manage these networks.

Prerequisites

The following requirements are prerequisites for the ASE – ProCurve Networking and Mobility [2008] Certification.

- AIS –ProCurve Networking [2006]
- Attend the ProCurve Security v7.31 course and/or pass the associated exam (HPO-Y11)
- Attend the Building ProCurve Resilient, Adaptive Networks v7.41 or later course and/or pass the associated exam (HPO-Y12)
- Attend the ProCurve Mobility v8.21 course and/or pass the associated exam (HPO-Y18)

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:** 64
- **Item types:** multiple choice, drag and drop
- **Time commitment:** 90 minutes
- **Passing Score:** 75% (48 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	<p>Explain the advantages that ProCurve Networking's Adaptive Edge Architecture provides for organizations and their mobile users</p>
	<p>Explain how ProCurve Networking's wireless solutions integrate with an organization's wired network, creating a single, unified network</p> <p>List ProCurve Networking's wireless solutions</p>
2.0	<p>List the features of the AP 420 and AP 530</p>
	<p>Given a set of customer requirements, select the appropriate AP</p> <p>Explain how the AP 420 and the AP 530 support dynamic virtual LANs (VLANs)</p> <p>Install and begin to configure the AP 420 and AP 530</p>
3.0	<p>Describe the features of the ProCurve Wireless LAN System, which includes:</p> <ul style="list-style-type: none"> • Wireless Edge Services Module • Redundant Wireless Services Module • Wireless services-enabled switch • Radio ports (RPs) • RP licenses
	<p>Explain the differences between an RP and an AP</p> <p>Describe the options for deploying a Wireless Edge Services Module and its associated RPs</p> <p>Explain how the ProCurve Wireless Edge Services Module supports dynamic virtual LANs (VLANs)</p>

Objective

	<p>Explain the purpose of auto-provisioning on the wireless services-enabled switch</p> <p>List the requirements for transmitting traffic from an RP to the Wireless Edge Services Module and on to the wired network</p>
4.0	<p>Describe the difference between 802.11 authentication and supplemental authentication</p>
5.0	<p>Explain how 802.1X functions in a wireless network, including describing common Extensible Authentication Protocol (EAP) methods</p> <p>Compare the encryption provided by WEP and by WPA</p> <p>Configure 802.1X with WPA/WPA2 and WPA-PSK on a ProCurve AP 420, AP 530, or a Wireless Edge Services Module</p>
5.0	<p>Explain how various factors, including Effective Isotropic Radiated Power (EIRP) and receiver sensitivity, affect coverage</p>
	<p>Describe capacity and factors that affect it</p> <p>Describe ProCurve external antennas and identify environments in which they meet the coverage and capacity requirements</p> <p>Configure radio settings on ProCurve products</p>
6.0	<p>Describe how Request to Send/Clear to Send (RTS/CTS) is used to avoid contention in a wireless network</p>
	<p>Explain when you would adjust advanced radio settings such as slot and preamble time, beacon interval, DTIM interval, and inactivity timeout</p> <p>Describe the factors that affect roaming in a wireless network</p> <p>List the quality of service (QoS) features offered on the AP 530 and the Wireless Module and explain how to configure them</p> <p>Connect two ProCurve Access Point (AP) 530s through a wireless bridge (which is also called a wireless distribution system [WDS])</p> <p>Use the group configuration feature to configure multiple AP 530s</p>

	Objective
	<p>Configure Adaptive Transmit Power Control (ATPC) on the AP 530</p> <p>Describe the network self-healing and redundancy group features that the Wireless Edge Services Module provides</p>
7.0	<p>List the network management and security features that ProCurve Mobility Manager (PMM) provides</p> <p>Use PMM to configure settings on wireless devices on a network-wide scale</p> <p>Manage and monitor the network on an ongoing basis with PMM</p>
8.0	<p>Assess the purpose of a wireless network and users' requirements for using the wireless network</p> <p>Plan, prepare, and conduct a site survey</p> <p>Define coverage and capacity requirements and select appropriate products and antennas</p> <p>Determine the requirements for RF coverage and plan the wireless cells to meet those requirements</p> <p>Use ProCurve Mobility Manager (PMM) to design a new wireless network</p>
9.0	<p>Isolate problems to identify where they are occurring</p> <p>Troubleshoot a station, ProCurve Access Point (AP) 420, ProCurve AP 530, and Wireless LAN System</p> <p>Monitor the wireless network using the management interfaces of the ProCurve wireless products</p> <p>Solve common problems in booting the products and accessing management interfaces</p> <p>Identify causes of poor network performance</p>

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 Mobility (v8.21)	00053343	http://www.hp.com/go/procurvetraining use the regional links to find schedules and registration information

Documentation

Title	Section Title	Source/Order Number
ProCurve Networking wired and wireless product documentation	All Applicable titles	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. These are generic samples and do not reflect the content being tested.

1. You are using Normal mode on the Wireless Edge Services Module and have configured 16 wireless LANs (WLANs). The Wireless Edge Services Module has adopted 10 Radio Port (RP) 230s. Which SSIDs will the Wireless Module assign to each basic service set identifier (BSSID) on the adopted RPs' 802.11 b/g radio?
 - A. The Wireless Module assigns the SSIDs for WLANs 1, 2, 3, and 4 to the first BSSID; the SSIDs for WLANs 5, 6, 7, and 8 to the second BSSID; the SSIDs for WLANs 9, 10, 11, and 12 to the third BSSID; and the SSIDs for WLANs 13, 14, 15, and 16 to the fourth BSSID.
 - B. The Wireless Module assigns the SSID for one WLAN to each of the 16 BSSIDs supported by the RP 230.
 - C. The Wireless Module assigns the SSIDs for two WLANs to each of the 8 BSSIDs supported by the RP 230. The SSIDs for WLANs 1 and 9 are assigned to the first BSSID; the SSIDs for WLANs 2 and 10 are assigned to the second BSSID; the SSIDs for WLANs 3 and 11 are assigned to the third BSSID; the SSIDs for WLANs 4 and 12 are assigned to the fourth BSSID; and so on.
 - D. The Wireless Module assigns the SSIDs for WLANs 1, 5, 9, and 13 to the first BSSID; the SSIDs for WLANs 2, 6, 10, and 14 to the second BSSID; the SSIDs for WLANs 3, 7, 11, and 15 to the third BSSID; and the SSIDs for WLANs 4, 8, 12, and 16 to the fourth BSSID.

2. A Wireless Edge Services Module cannot adopt any of the RPs that are attached to an infrastructure switch, but it has adopted the RPs that are attached to the wireless services-enabled switch. What could be the problem?
- A. Auto-provisioning is not enabled on the infrastructure switch.
 - B. The Radio Port VLAN is not tagged on the Wireless Module's downlink port.
 - C. The Radio Port VLAN is not tagged on the inter-switch links between the infrastructure switch and the wireless services-enabled switch.
 - D. The Radio Port VLAN is tagged on the Wireless Module's uplink port and downlink port, but it should only be tagged on the downlink port.
3. You want to use ProCurve Mobility Manager (PMM) to configure WLANs on the ProCurve Access Point (AP) 530s. Which WLAN security setting can you configure through PMM v2.0?
- A. WPA-PSK
 - B. MAC authentication
 - C. WEB authentication
 - D. Internal RADIUS server settings
4. How many virtual LANs (VLANs) does the ProCurve AP 530 support?
- A. 32 per radio
 - B. 64 per radio
 - C. 128 per radio
 - D. 256 per radio
5. Which ProCurve Mobility Manager (PMM) feature allows you to view 4 information displays at a glance?
- A. Wireless History tab
 - B. Wireless Metrics tab
 - C. Wireless Stations tab
 - D. Wireless Stations History tab

6. Which devices are displayed in the bottom gutter of the PMM Edit View window for a custom group in ProCurve Manager Plus (PCM+)?
- A. all devices that are managed by PCM+
 - B. all devices that are managed by PCM+ and are part of the custom group
 - C. all devices that are managed by PCM+, are part of the custom group, but are not yet placed on the floor plan
 - D. all devices that are managed by PCM+, are part of the custom group, and have enabled radios
7. Your company's wireless network enforces 802.1X authentication with usernames and passwords. A user calls and states that when she tries to connect to the wireless network, she does not even have a chance to enter her username and password. Instead, her Windows Wireless Zero Configuration utility reports that it cannot find a certificate. What is the problem?
- A. The user's account in your network's directory server is misconfigured or deactivated.
 - B. The user's station does not trust the digital certificate of your network's RADIUS server.
 - C. The user must configure her username and password in a policy before attempting to connect to the network.
 - D. The Wireless Zero Configuration utility is configured for the wrong Extensible Authentication Protocol (EAP) method.
8. What should you do if you forget your manager password to the Wireless Edge Services Module's Web browser interface?
- A. Access your operator account and change the manager password.
 - B. Press the Clear button on the front of the module to clear the password.
 - C. Press the Reset button on the front of the module to reset to factory default settings.
 - D. Access the module's CLI through the wireless services-enabled switch and change the password.

Conclusion

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

Answers

1. D
2. C
3. A
4. D
5. B
6. C
7. D
8. D