Aruba NetworksMobility Controllers and Access Points



RSA SecurID Ready Implementation Guide

Last Modified: December 10, 2014

Partner Information

Product Information			
Partner Name	Aruba Networks, Inc.		
Web Site	www.arubanetworks.com		
Product Name	Mobility Controllers and Access Points		
Version & Platform	ArubaOS 6.4.2.1		
Product Description	Aruba Mobility Controllers create a single, unified network that manages wired and wireless access across indoor, outdoor and remote locations. Aware of all network devices, users, applications and locations, Mobility Controllers also maintain configurations and automate software updates for other Aruba Mobility Controllers, Mobility Access Switches and access points (APs).		
	Running the ArubaOS operating system, Mobility Controllers support integrated capabilities, including the stateful Policy Enforcement Firewall™ (PEF™), RFProtect™ spectrum analyzer and wireless intrusion protection, the Virtual Intranet Access™ (VIA™) agent for secure remote connectivity, advanced cryptography, and Adaptive Radio Management™ (ARM™) to optimize Wi-Fi client behavior.		



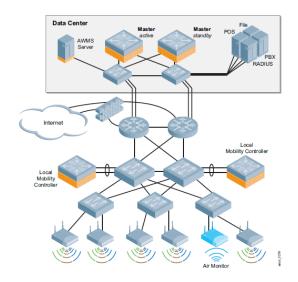




Solution Summary

The Aruba Mobility controller takes the guesswork out of provisioning a wireless infrastructure, allowing an administrator to painlessly provision and configure all of the Aruba wireless access points on their network. The Mobility Controller also provides comprehensive logging and monitoring of the wireless network and provides many other useful services. When integrated with RSA SecurID over the RADIUS protocol, administrators can add two-factor authentication to their wireless networks by configuring Authentication Manager as the AAA server for wired and wireless 802.1x authentication. When configured this way, users accessing the network with a compatible network supplicant must provide their SecurID PIN and tokencode to successfully join the network.

RSA Authentication Manager supported features Mobility Controllers and Access Points 6.4.2.1				
RSA SecurID Authentication via Native RSA SecurID UDP Protocol	No			
RSA SecurID Authentication via Native RSA SecurID TCP Protocol	No			
RSA SecurID Authentication via RADIUS Protocol	Yes			
RSA SecurID Authentication via IPv6	No			
On-Demand Authentication via Native SecurID UDP Protocol	No			
On-Demand Authentication via Native SecurID TCP Protocol	No			
On-Demand Authentication via RADIUS Protocol	Yes			
Risk-Based Authentication	No			
RSA Authentication Manager Replica Support	No			
Secondary RADIUS Server Support	Yes			
RSA SecurID Software Token Automation	No			
RSA SecurID SD800 Token Automation	No			
RSA SecurID Protection of Administrative Interface	No			





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Agent Host Configuration

Aruba Mobility Controllers will be communicating with RSA Authentication Manager via RADIUS. A RADIUS client that corresponds to the agent host record must be created in the RSA Authentication Manager. RADIUS clients are managed using the RSA Security Console.

The following information is required to create a RADIUS client:

- Hostname
- IP Addresses for network interfaces
- RADIUS Secret

Note: The RADIUS client's hostname must resolve to the IP address specified.

Please refer to the appropriate RSA documentation for additional information about creating, modifying and managing Authentication Agents and RADIUS clients.



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Partner Product Configuration

Before You Begin

This section provides instructions for configuring the Aruba Mobility Controller with RSA SecurID Authentication. This document is not intended to suggest optimum installations or configurations.

It is assumed that the reader has both working knowledge of all products involved, and the ability to perform the tasks outlined in this section. Administrators should have access to the product documentation for all products in order to install the required components.

All Aruba Mobility Controller components must be installed and working prior to the integration. Perform the necessary tests to confirm that this is true before proceeding.

Configuring the Aruba Mobility Controller

Once you have completed the initial setup of the Mobility controller and connected the controller and access points to your network, you must configure a Wireless LAN (WLAN) that takes advantage of RSA SecurID to provide two-factor authentication.

Note: This guide assumes you have correctly configured your Mobility controller and your access points are able to communicate with the controller and receive configuration data from it. Please ensure this is true before proceeding.

For a complete reference on creating an Aruba user-centric network, refer to the ArubaOS 6.x User Guide

- To configure a wireless LAN (WLAN) to a group of access points, log into the controller by browsing to <u>https://controller-dns-name-or-ip-address</u>
- Click the Configuration Tab. In the left panel, locate the WIZARDS section and click the link for the WLAN/LAN Wizard.

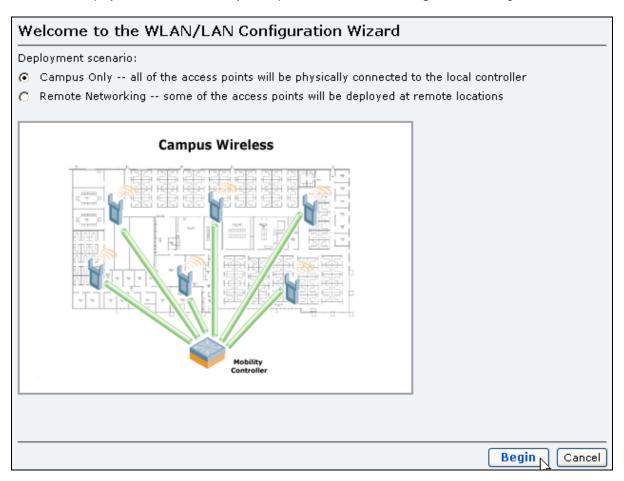




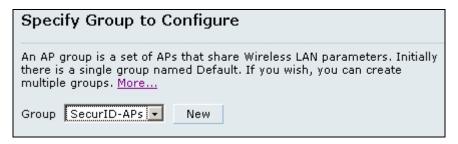
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3. Select the deployment scenario that fits your requirements and click the **Begin** button to begin the wizard.



4. Select the AP Group that you wish to configure. You may also choose to create a new AP Group for which to configure the WLAN. Click **Next** to continue.



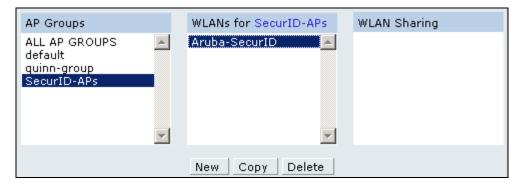




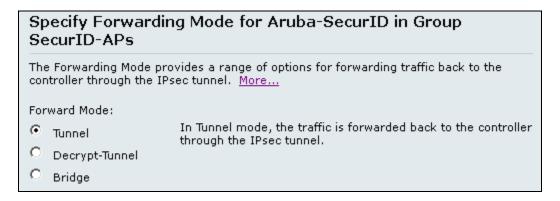
5. Once you have chosen an AP Group to configure, click the **Continue** button to start the WLAN configuration wizard



6. If you are editing an existing WLAN, select the appropriate group and WLAN to edit. If you wish to create a new WLAN, select the appropriate group and click the **New** button. Once you have chosen the WLAN to configure, click the **Next** button.



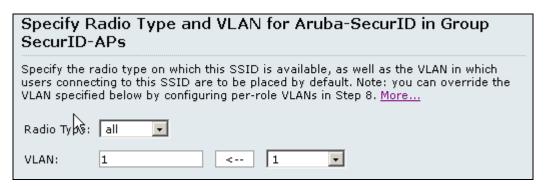
7. Choose the forwarding mode for the WLAN that meets your requirements. Click Next to continue.



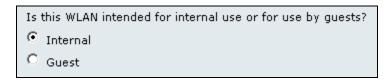


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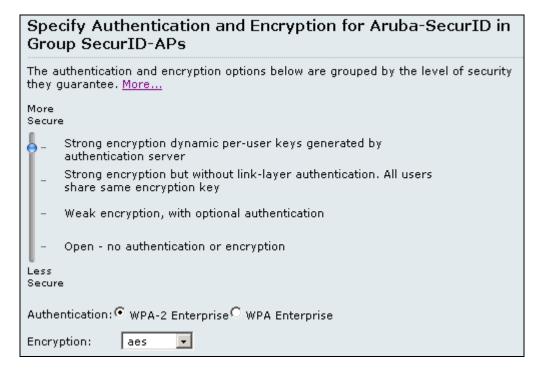
8. Choose the radio type that the APs should use to serve the WLAN. Specify the VLAN that members of this WLAN will join. Click **Next** to continue.



9. Specify whether the WLAN is intended for internal use or guests. Click Next to continue.



10. Specify the authentication and encryption scheme that the WLAN will require. RSA SecurID authentication can be used to secure any 802.1x-compatible authentication scheme. Click **Next** to continue.

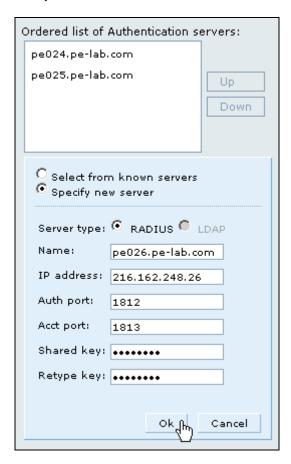




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- 11. Enter the information corresponding to your Authentication Manager Servers. If you have already configured these servers as AAA Servers in the Mobility controller's configuration, you can select them from the list of known servers. Otherwise, add them now. For each Authentication Manager server you wish to authenticate WLAN clients, specify the following information. Click Next when finished.
 - Name: a descriptive name.
 - IP address: the IP address of the Authentication Manager Server.
 - Auth port: the RADIUS authentication port of the Authentication Manager's RADIUS server.
 - Acct port: the RADIUS accounting port of the Authentication Manager's RADIUS server.
 - Shared key: the RADIUS shared secret that was specified when configuring the RADIUS Client that corresponds to the Mobility controller.

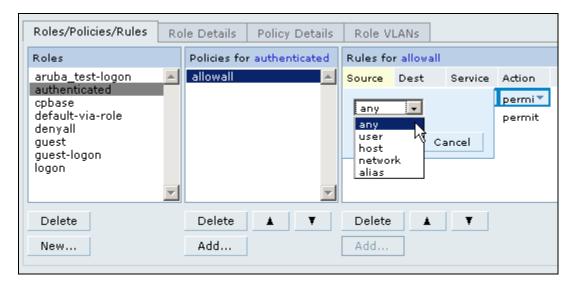




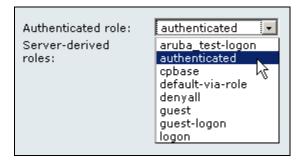


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12. The Aruba controller provides robust role, policy, and rule definitions that allow you to govern client behavior during different stages of connection to the WLAN which are outside the scope of this guide. This screen allows you to configure these settings according to your needs. Refer to the ArubaOS User Guide for complete information. Click Next when finished.



13. Choose the role that will be assigned to authenticated clients. Click Next to continue.







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14. Click **Finish** to complete the WLAN configuration wizard. A summary of the configuration settings will be displayed. Click **Finish** once more to push the configuration to the Mobility controller. The new WLAN will become active for all access points that are in the AP Group(s) that have this WLAN configured.



Configuring the Network Supplicant

After you have configured the Mobility controller to use RSA SecurID authentication, a compatible 802.1X supplicant will prompt the end user for their two-factor credentials before the end point is allowed to communicate on the wireless LAN. The supplicant may require additional configuration. While any 802.1X-compatible supplicant should work, please refer to the Secured By RSA solutions gallery (http://www.rsasecured.com) for more information on certified wireless supplicants.

Note: For the purposes of this test, Juniper's Odyssey Access Client was used.



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RSA SecurID Login Screens

Login screen:



User-defined New PIN:

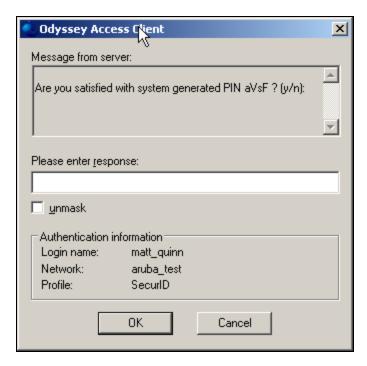






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System-generated New PIN:



Next Tokencode:







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Certification Test Checklist for RSA Authentication Manager

Certification Environment

Product Name	Version Information	Operating System
RSA Authentication Manager	8.1	Virtual Appliance
Aruba 3600 Mobility Controller	6.4.2.1	ArubaOS
Juniper Odyssey Access Client	5.2 R3	Windows 7

RSA SecurID Authentication

Date Tested: December 10, 2014

Mandatory Functionality	RSA Native UDP Agent	RSA Native TCP Agent	RADIUS Client
New PIN Mode			
Force Authentication After New PIN	N/A	N/A	✓
System Generated PIN	N/A	N/A	✓
User Defined (4-8 Alphanumeric)	N/A	N/A	✓
User Defined (5-7 Numeric)	N/A	N/A	✓
Deny 4 and 8 Digit PIN	N/A	N/A	✓
Deny Alphanumeric PIN	N/A	N/A	✓
Deny PIN Reuse	N/A	N/A	✓
Passcode			
16 Digit Passcode	N/A	N/A	✓
4 Digit Fixed Passcode	N/A	N/A	✓
Next Tokencode Mode			
Next Tokencode Mode	N/A	N/A	✓
On-Demand Authentication			
On-Demand Authentication	N/A	N/A	✓
On-Demand New PIN	N/A	N/A	✓
Load Balancing / Reliability Testing			<u> </u>
Failover (3-10 Replicas)	N/A	N/A	✓
No RSA Authentication Manager	N/A	N/A	✓

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✓= Pass X = Fail N/A = Not Applicable to Integration



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