

This document describes the initial setup of the Aruba Mobility Access Switch. There are three ways to setup your Aruba Mobility Access Switch:

- **Startup Wizard:** This option allows you to complete basic configuration through WebUI Startup Wizard.
- **Quick Setup:** This option allows you to complete basic configuration through the CLI.
- **Auto Config:** This option automatically configures your Mobility Access Switch by allowing your device to pull configuration information from a TFTP server. The TFTP server's IP address and the configuration file's filename is obtained from a DHCP server.



The Mobility Access Switch has a default user name (admin) and password (admin123).

Before You Begin

Review the contents of your Mobility Access Switch shipment to verify that you have received the following:

- Aruba Mobility Access Switch with appropriate power cord and accessories
- *ArubaOS 7.2 Quick Start Guide* (this document)
- ArubaOS End User License Agreement; read and understand the terms of the *End User License Agreement*.



Check the customer support web site for the latest software upgrades and documentation updates:
<https://support.arubanetworks.com>.

Startup Wizard and Quick Setup Prerequisites

Table 1 is a description of the information you need to have prior to launching the Startup Wizard or Quick Setup.

Table 1 *Prerequisites for Configuration*

Requirement	Description
System Name	A user-defined name by which the Mobility Access Switch is referenced. You can specify a name of up to 63 characters.
Admin Password	Password of up to 32 characters for the admin user to log in to the Mobility Access Switch.
Enable Mode Password	Password of up to 15 characters for the admin user to access the Enable mode at the command line.
Date and Time	You can either manually set the date, time, and GMT time zone or, if using the WebUI Startup Wizard, specify the IP address of an NTP server from which the Mobility Access Switch obtains its date and time settings. From the CLI, you can only configure the time and date manually.

Table 1 *Prerequisites for Configuration (Continued)*

Requirement	Description
Inband Management VLAN Interface	Create an inband management VLAN by selecting VLAN ID, selecting member ports, and choosing an IP address (static or DHCP).
Out-of-bound Management Interface	Create an out-of-bound management interface by providing an IP address and subnet mask.
Default Gateway	This is usually the IP address of the interface on the upstream switch or router to which you will connect the Mobility Access Switch. The default gateway and the VLAN interface IP address must be in the same network.

Startup Wizard

The Startup Wizard feature on your Mobility Access Switch allows you to complete basic configuration steps right out of the box.



Your Mobility Access Switch must be in the factory default to use the Startup Wizard. If you attempt to use the Startup Wizard when the Mobility Access Switch is not in factory default, the following error message appears on the LCD screen: **Box not in factory-default.**

1. Power on and bootup your Mobility Access Switch.
2. Connect your client device (such as a laptop) to your Mobility Access Switch via any Ethernet port. Ensure that DHCP is enabled on your client device and that it is not connected to any other networks.
3. Press the LCD **Menu** button until **Maintenance** is selected.
4. Press the LCD **Enter** button to enter the **Maintenance** menu.
5. Press the LCD **Menu** button until **GUI Quick Setup** is selected.
6. Press the LCD **Enter** button to activate **GUI Quick Setup** mode. **Quick-setup running...** will appear on the LCD screen.



You must complete the Startup Wizard within 10 minutes of invoking Quick-setup mode. After 10 minutes has elapsed, the Mobility Access Switch no longer functions as a DHCP server; you must begin the process again. There is a timer in the top right corner of the WebUI that displays the time remaining.

7. Confirm that your client device has the IP address in the following range 172.16.0.[1-253] and your DHCP server has the IP address 172.16.0.254.
8. Open a web browser and enter 172.16.0.254 into the address bar to launch the WebUI Startup Wizard.
9. Follow the on-screen prompts to fill in the required fields to complete your configuration (see [Table 1](#)).

Quick Setup



If you choose not to enter Quick Setup mode initially, but would like to return to it execute a `write erase`, enter Enable mode, and enter the command `quick-setup` from the CLI. Enter `y` and Quick-setup will be invoked.

The serial port is located on the back panel of the Mobility Access Switch. When you connect a terminal or PC/workstation running a terminal emulation program to the serial port on the Mobility Access Switch, you enter the Initial Setup dialog. To run the Initial Setup dialog from a serial connection:

1. Configure your terminal or terminal emulation program to use the following communication settings:

Table 2 *Terminal Communication Settings*

Baud Rate	Data Bits	Parity	Stop Bits	Flow Control
9600	8	None	1	Off

2. Connect your terminal or PC/workstation to the CONSOLE port on the Mobility Access Switch.
3. Bootup the Mobility Access Switch. When bootup is complete, you see a screen similar to [Figure 1](#).
4. Provide all the information requested by the CLI.
5. At the end of the Initial Setup, you are asked to review and confirm your configuration changes. Enter **y** to accept the changes.

Figure 1 *Setup Dialog*

```
***** Welcome to the ArubaS3500 setup dialog *****
This dialog will help you to set the basic configuration for the switch.
These settings, except for the Country Code, can later be changed from the
Command Line Interface or Graphical User Interface.
```

```
Commands: <Enter> Submit input or use [default value], <ctrl-I> Help
<ctrl-B> Back, <ctrl-F> Forward, <ctrl-A> Line begin, <ctrl-E> Line end
<ctrl-D> Delete, <BackSpace> Delete back, <ctrl-K> Delete to end of line
<ctrl-P> Previous question <ctrl-X>, Restart beginning, <ctrl-C> to exit
```

```
Enter System name [ArubaS3500-48T]:
Configure inband management VLAN [yes|no]:
Inband management vlan id [1]:
Enter the member interfaces for management VLAN (Example 0/0/0,0/0/1):
Enter management VLAN IP address [172.16.0.254]:
Enter mgmt VLAN interface subnet mask [255.255.255.0]:
Enter Out of band management interface IP address [none]:
Enter MGMT interface subnet mask [255.255.255.0]:
Enter IP Default gateway [none]:
Enter Country code (ISO-3166), <ctrl-I> for supported list:
Enter Time Zone [PST-8:0]:
Enter Time in UTC [18:26:15]:
Enter Date (MM/DD/YYYY) [4/21/2011]:
Enter Password for admin login (up to 32 chars):
Re-type Password for admin login:
Enter Password for enable mode (up to 15 chars):
Re-type Password for enable mode:
```

Auto Configuration

The Aruba Mobility Access Switch supports an auto configuration through the DHCP server downloading a configuration file from the TFTP server. This process begins automatically when a Mobility Access Switch with a factory default configuration is booted up. Basically, if the VLAN 1 (default VLAN) interface is in Auto config mode, we parse additional options in the DHCP message to obtain the TFTP server address and the configuration file name/path.



You can use any network port in stand-alone or stacking environments.

Important Points to Remember

- This process remains active for ten minutes. If the Mobility Access Switch is idle for 10 minutes and auto configuration is not complete, you must manually configure the Mobility Access Switch.
- During the auto configuration process, DHCP messages without auto configuration parameters are ignored.
- If quick-setup mode (WebUI or CLI) is started, auto configuration is disabled. If quick-setup mode is cancelled at any point, auto configuration remains disabled.
- Additionally, auto configuration is disabled when you attempt to configure an IP address for the VLAN interface or enable DHCP-client on the VLAN interface.
- If you do not choose to enter quick-setup and auto configuration is not disabled, the Mobility Access Switch reboots when the configuration is downloaded.
- The configuration file must have a .cfg file extension and be less than 2 MB.



These options are processed only if the device is running with the factory-initial configuration. Otherwise these options in the incoming DHCP message are ignored.

The two options expected in the DHCP message are:

- TFTP server address must be included in one or both of the following:
 - siaddr
 - option 150

If the server address is included in both, the siaddr takes precedence.
- Configuration file path must be included in one or both of the following:
 - boot file option
 - option 67

The siaddr and the boot file option are part of the BOOTP parameters section of the DHCP message.



If the server IP address is provided but a configuration file is not provided, the DHCP message is ignored.

When these options are honored and processed, the Mobility Access Switch downloads the new configuration file, compares it with the configuration file in use, and if they differ, the new file is copied as default.cfg and the Mobility Access Switch reboots automatically.

Failures to download the configuration are logged. Successful download of the configuration are also logged. Reboot generates a message indicating that new configuration is being loaded. A syslog message is also logged.



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