

3. Run the following command on AMP:

```
# start_amp_upgrade -v x.x.x
```

The `start_amp_upgrade` script will check the `/root` directory for the latest update. If the update is not found, the script will attempt to download it from the Aruba Support Center. The script will then extract the version specific upgrade script. The version specific script will deploy all needed files, update the database, perform any data migrations, and restart the AirWave services.

Configuring and Mapping Port Usage for AMP

The following table itemizes the communication protocols and ports necessary for AMP to communicate with wireless LAN infrastructure devices, including access points (APs), controllers, routers, switches, and RADIUS servers. Assign or adjust port usage on the network administration system as required to support these components.

Table 2: AMP Protocol and Port Chart

Port	Type	Protocol	Description		Device Type
21	TCP	FTP	Firmware distribution	>	APs or controllers
22	TCP	SSH	Configure devices	>	APs or controllers
22	TCP	SSH	Configure AMP from the CLI	<	Laptop or workstation
22	TCP	VTUN	Support connection (optional)	>	Aruba supports home office
22	TCP	SCP	Transfer configuration files or FW	<	APs or controllers
23	TCP	Telnet	Configure devices	>	APs or controllers
23	TCP	VTUN	Support connection (Optional)	>	Aruba supports home office
25	TCP	SMTP	Support email (optional)	>	Aruba supports email server
49	UDP	TACACS	AMP Administrative Authentication	>	Cisco TACACS+
53	UDP	DNS	DNS lookup from AMP	>	DNS Server
69	UDP	TFTP	Transfer configuration files or FW	<	APs or controllers
80	TCP	HTTP	Configure devices	>	Legacy APs
80	TCP	VTUN	Support connection (optional)	>	Aruba supports home office
161	UDP	SNMP	Get and Set operations	>	APs or controllers
162	UDP	SNMP	Traps from devices	<	APs or controllers
162	UDP	SNMP	Traps from AMP	>	NMS

Table 2: AMP Protocol and Port Chart (Continued)

Port	Type	Protocol	Description		Device Type
443	TCP	HTTPS	Web management	<	Laptop or workstation
443	TCP	HTTPS	WLSE polling	>	WLSE
443	TCP	VTUN	Support connection (optional)	>	Aruba supports home office
1701	TCP	HTTPS	AP and rogue discovery	>	WLSE
1741	TCP	HTTP	WLSE polling	>	WLSE
1812	UDP	RADIUS Auth	Authenticate & authorize AMP administrative users on a RADIUS server.	>	RADIUS auth server
1813	UDP	RADIUS accounting	Retrieve usernames for authenticated WLAN clients from NAS (captive portal, controller, autonomous AP). Only used when usernames are not available in the SNMP MIB of a controller or autonomous AP.	<	RADIUS accounting client
2002	TCP	HTTPS	Retrieve client authentication info	>	ACS
5050	UDP	RTLS	Real Time Location Feed	<	Aruba thin APs
8211	UDP	PAPI	Real Time Feed (AMON)	< >	WLAN controllers
		ICMP	Ping Probe	>	APs or controllers

AirWave Navigation Basics

Every AirWave page contains the following three basic sections:

- "Status Section" on page 11
- "Navigation Section" on page 12
- "Activity Section" on page 14

In addition, throughout AirWave, you will come across common buttons/icons and a series of customizable tables. Refer to the following section for more information.

- "Buttons and Icons" on page 16

The AirWave pages also contain **Help** links that open the *AirWave 8.0 User Guide*.



On most pages in AMP, the help link is available in the upper-right portion of the page. On some of the newer pages (for example, Home > AppRF or Home > Network Deviations), the help link is a "?" beside the page title.