

Overview

This document is designed as a reference for installing AirWave 8.2.4 using the CentOS software bundled with the .iso disc image.



AirWave does not support downgrading to older versions. Significant data could be lost or compromised in such a downgrade. In unusual circumstances requiring that you return to an earlier version of AirWave, we recommend you perform a fresh installation of the earlier AirWave version, and then restore data from a pre-upgrade backup.

The Support Download Page

The table below describes the different packages/files that you might see on the Support site when you download AirWave.

Table 1: *Download Page File Descriptions*

File Type	Description
Install iso	Standalone installation media including the CentOS operating system. This can fit on a CD/DVD, or it can be mounted as a virtual disk for installation.
Install ova (Virtual appliance)	VMware OVA template for AirWave deployment on VMware ESXi infrastructure. Optimized for deployments up to 100 devices.
Upgrade package tar file	Used for AirWave upgrades. Note that updates are only supported from up to two versions prior. Contact support if you are upgrading from two versions prior or more (for example, from 7.5 to 7.7).

Pre-Installation Checklist

Use this check list to ensure installation goes smoothly.

Table 2: *Pre-Installation Checklist*

Task	Completed
Have available the AirWave license key sent to you in an email from Aruba Networks.	
Obtain dedicated server(s) meeting Aruba sizing specifications.	
Determine the static IP address for each AirWave server.	
Firewall provisioning enabling proper ports/protocols.	
Determine WLAN infrastructure properties (type, quantity, and location).	

Table 2: Pre-Installation Checklist (Continued)

Task	Completed
Determine WLAN infrastructure access credentials (SNMP, telnet, SSH, etc.).	
Determine WLAN security policy specifications.	
Set router and switches to monitoring (optional).	
Configure upstream NMS applications (optional).	
Determine wireless client authentication servers (optional).	
Determine AirWave administrative authentication servers like TACACS+, LDAP, or RADIUS (optional).	
If upgrading, ensure that your current version is not more than two versions behind. For example, when upgrading to AirWave 8.2, you must already be using AirWave 8.0 or newer. Contact technical support for assistance upgrading AirWave software more than two versions old.	

Minimum Supported Browsers

Windows®

- Windows®
- Microsoft Internet Explorer® 11
- Mozilla Firefox® 47.0
- Google Chrome™ Version 50.0.2661.102 (64-bit)

Mac OS X® (10.11)

- Apple Safari® 5.x
- Mozilla Firefox® 47.0
- Google Chrome™ Version 50.0.2661.102 (64-bit)

Hardware Requirements and Installation Media

The AirWave installation DVD includes all software (including the CentOS) required to complete the installation of AirWave. AirWave supports any hardware that is Red Hat Enterprise Linux 6.2 certified. By default, all installs are based on a 64-bit operating system.

AirWave hardware requirements vary by version. As additional features are added to AirWave, increased hardware resources become necessary. For the most recent hardware requirements, refer to the *AirWave 8.2 Server Sizing Guide* on the **Home > Documentation** page.

Installing Linux CentOS 6.8 (Phase 1)

Perform the following steps to install the Linux CentOS 6.8 operating system. The Linux installation is a prerequisite to installing AirWave on the network management system.



This procedure erases the hard drive(s) on the server.

1. Insert the AirWave installation DVD into the drive and boot the server.

2. Type `install` and press **Enter**.
To configure the partitions manually, type `manual` and press **Enter**.

Figure 1: AirWave Installation



3. Allow the installation process to continue. Installing the CentOS software (Phase I) takes 10 to 20 minutes to complete. This process formats the hard drive and launches Anaconda to install all necessary packages. Anaconda gauges the progress of the installation.
Upon completion, the system will prompt you to eject the installation DVD and reboot the system. The GRUB screen will appear upon reboot.
4. Remove the DVD from the drive and store it in a safe location.

Installing the AirWave Software (Phase 2)

Getting Started

Perform the following steps when the GRUB screen appears.

1. Press **Enter** or wait six seconds. The system automatically loads the kernel.
2. When the kernel is loaded, log into the server using the following credentials:
 - login = **root**
 - password = **admin**The Installation begins automatically when you log in.
3. Start the AirWave software installation script by executing the `./amp-install` command.
Type `./amp-install` at the command prompt and press **Enter** to execute the script.

Step 1: Configuring Date and Time

The following message appears. This step ensures the proper date and time are set on the server.

```
----- Date and Time Configuration -----  
Current Time: Fri Sept 29 09:18:12 PST 2015  
1) Change Date and Time  
2) Change Time Zone  
0) Finish
```

Ensure that you enter the accurate date and time during this process. Errors will arise later in the installation if the specified date varies significantly from the actual date, especially if the specified date is in the future and it is fixed later. Best practices is to configure NTPD to gradually adjust your clock to the correct time.

1. Select **1** to set the date and select **2** to set the time zone. Press **Enter** after each configuration to return to the message menu above.



Changing these settings after the installation can cause data loss, especially for time-series data such as Client and Usage graphs. Avoid delayed configuration.

2. Press **0** to complete the configuration of date and time information and to continue to the next step.

Step 2: Checking for Prior Installations

The following message appears after the date and time are set:

```
Welcome to AMP Installer Phase 2
STEP 2:  Checking for previous AMP installations
```

If a previous version of AirWave software is not discovered, the installation program automatically proceeds to Step 3. If a previous version of the software is discovered, the following message appears on the screen.

```
The installation program discovered a previous version of the software. Would you like to
reinstall AMP? This will erase AMP's database. Reinstall (y/n)?
```

Type **y** and then press **Enter** to proceed.



This action erases the current database, including all historical information. To ensure that the AMP database is backed up prior to reinstallation, answer **n** at the prompt and contact your Value Added Reseller or Aruba support.

Step 3: Installing AirWave Software

The following message appears while the AirWave software is transferred and compiled.

```
STEP 3:  Installing AMP software
This will take a few minutes.
Press Alt-F9 to see detailed messages.
Press Alt-F1 return to this screen.
```

This step requires no user input, but you can follow the instructions to monitor its progress.

Step 4: Checking the AirWave Installation

After the AirWave software installation is complete, the following message appears:

```
STEP 4:  Checking AMP installation
Database is up.
AMP is running version: (version number)
```

This step requires no user input. Proceed to the next step when prompted to do so.

Step 5: Assigning an IP Address to the AirWave System

While the AirWave primary network interface accepts a DHCP address initially during installation, AirWave does not function when launched unless a static IP is assigned. Complete these tasks to assign the static IP address.

The following message appears:

```
STEP 5: Assigning AMP's address
AirWave must be configured with a static IP.
----- Primary Network Interface Configuration -----
1)  IP Address      : xxx.xxx.xxx.xxx
2)  Netmask        : xxx.xxx.xxx.xxx
3)  Gateway        : xxx.xxx.xxx.xxx
4)  Primary DNS    : xxx.xxx.xxx.xxx
5)  Secondary DNS  : xxx.xxx.xxx.xxx
```

- 9) Commit Changes
- 0) Exit (discard changes)

If you want to configure a second network interface, please use AirWave's web interface, AMP Setup --> Network Tab

1. Enter the network information.



The Secondary DNS setting is an optional field.

2. To commit the changes, type **9** and then press **Enter**. To discard the changes, type **0** and then press **Enter**.

Step 6: Naming the AirWave Network Administration System

Upon completion of the previous step, the following message appears:

```
STEP 6: Naming AMP
AMP is currently set to: New AMP
Please enter a name for your AMP:
```

At the prompt, enter a name for your AirWave server and press **Enter**.

Step 7: Generating AirWave's SSL Certificate

Upon completion of the previous step, the following message appears on the screen:

```
STEP 7: Generating AMP's SSL Certificate
Does AMP have a valid DNS name on your network (y/n)?
```

1. If AirWave does not have a valid host name on the network, type **n** at the prompt. The following appears:

```
Generating SSL certificate for < IP Address >
```

2. If AirWave has a valid host name on the network, type **y** at the prompt. The following appears:

```
Enter AMP's fully qualified domain name:
```

3. Type the AirWave DNS name and press **Enter**. The following message appears:

```
Generating SSL certificate for < IP Address >
```

Proceed to the next step when the system prompts you.

Step 8: Changing the Default Root Password

Upon completion of the prior step, the following message appears:

```
STEP 8: Changing default root password.
It is strongly recommended that you change the default 'root' password.
Please use a password that you consider to be safe, secure, and memorable.
```

```
Changing password for user root.
New Password:
```

Enter the new root password and press **Enter**. The Linux root password is similar to a Windows administrator password. The root user is a super user who has full access to all commands and directories on the computer.

This password should be kept as secure as possible because it allows full access to the machine. This password is not often needed on a day-to-day basis but is required to perform AirWave upgrades and advanced troubleshooting. If you lose this password, contact Aruba support for resetting instructions.

Completing the Installation

Upon completion of all previous steps, the following message appears.

CONGRATULATIONS! AMP is configured properly.
To access the AMP web console, browse to `https://<IP Address>`
Login with the following credentials:
Username: **admin**
Password: **admin**



Once you log out, you can't log in as the root user. Subsequently, you must use the `ampadmin` user generated during the software installation to log in to the CLI.

- To view the Phase 1 installation log file, type **cat /root/install.log**.
- To view the Phase 2 installation log file, type **cat /root/amp-install.log**.

Installing AirWave on VMware ESX(i)

This section provides information on installing AirWave on VMware® ESX(i). This section includes the following topics.

- ["Requirements and Recommendations" on page 6](#)
- ["Creating a New Virtual Machine" on page 6](#)
- ["Installing AirWave on the Virtual Machine" on page 6](#)

Requirements and Recommendations

- AirWave is supported on VMware ESX(i) 5.5 and later.
- Always install VMware Tools in a text-based environment prior to installing AirWave.
- Consult the *AirWave 8.2.4 Server Sizing Guide* to be sure that enough resources are allocated to the VM.
- If your VM host is hosting other instances, ensure that the AirWave instance has the highest priority.
- A virtual SCSI disk is recommended over IDE.

Creating a New Virtual Machine

Perform the following steps to create a new virtual machine.

1. From the VMware Infrastructure Client, select **Create a new virtual machine**.
2. Select **Next**, and then select **Typical > Virtual Machine Configuration**.
3. Name your virtual machine (for example, AirWave), and then click **Next**.
4. Select an available datastore with sufficient space for the number of APs that your AirWave will manage, choosing the right server hardware to comply with the hardware requirements in this document. Click **Next**.
5. Select the **Linux** radio button, and then select the OS. The recommended OS is CentOS 4/5/6 (64-bit). Click **Next**.
6. Select the appropriate number of processors, and then specify the minimum virtual RAM. Refer to the *AirWave 8.2.4 Server Sizing Guide*.
7. Accept the VMware default virtual network adapter, and click **Next**.
8. Allocate a virtual disk large enough to contain the AirWave operating system, application, and data files. Refer to the *AirWave 8.2.4 Server Sizing Guide*.
9. Review the virtual machine settings, and then click **Finish** when you are done.

Installing AirWave on the Virtual Machine

Installing AirWave on a VMware virtual machine is typically done in one of three ways:

- By writing an AMP ISO to DVD, inserting the DVD into a physical drive on a VMware server, and then configuring the AMP virtual machine to boot from the DVD.
- By copying the AMP ISO to the VMware server's datastore or to a networked filesystem available to the VMware server, and then configuring the AMP virtual machine to boot from the ISO file.
- By using either a local physical DVD or an AirWave ISO file from the VMware Infrastructure Client, and then creating a virtual CD on the virtual AirWave to point to and boot from that device.

Overall, the second option is likely the most efficient method to install AirWave. After booting the AirWave virtual machine with either a physical DVD or the ISO image file, the installation process with this method is identical to the steps outlined earlier in this document.

Installing in a Hyper-V Environment

This section provides information on installing AirWave on Hyper-V. This section includes the following topics.

- ["Prerequisites" on page 7](#)
- ["Installing AirWave on the Virtual Machine" on page 8](#)

Prerequisites

AirWave supports using Hyper-V Manager on the following server versions:

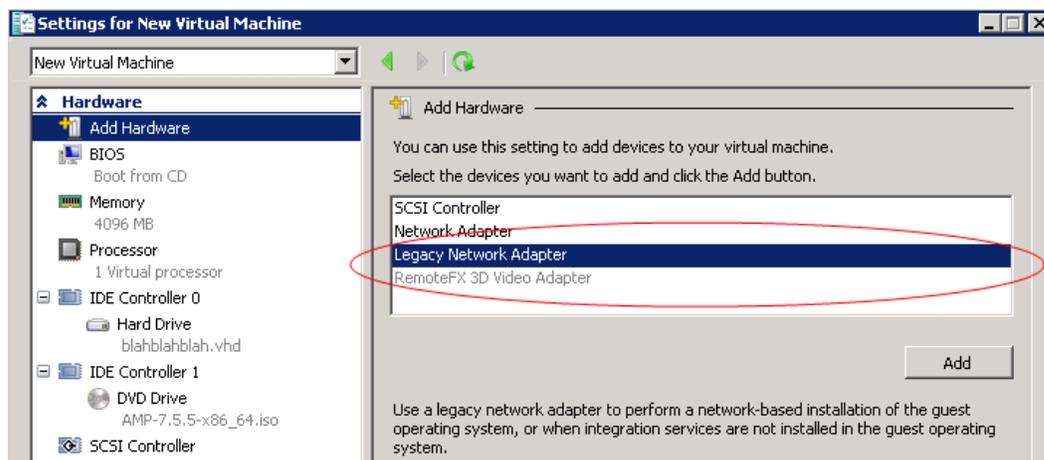
- Windows Server 2003 or later. However, you might experience boot issues using Windows Server 2012 Standard (not R2).
- Windows Server 2012 R2.

You must configure a legacy network adapter in order to install AirWave in a Hyper-V virtual environment.

Follow these steps to add a legacy network adapter:

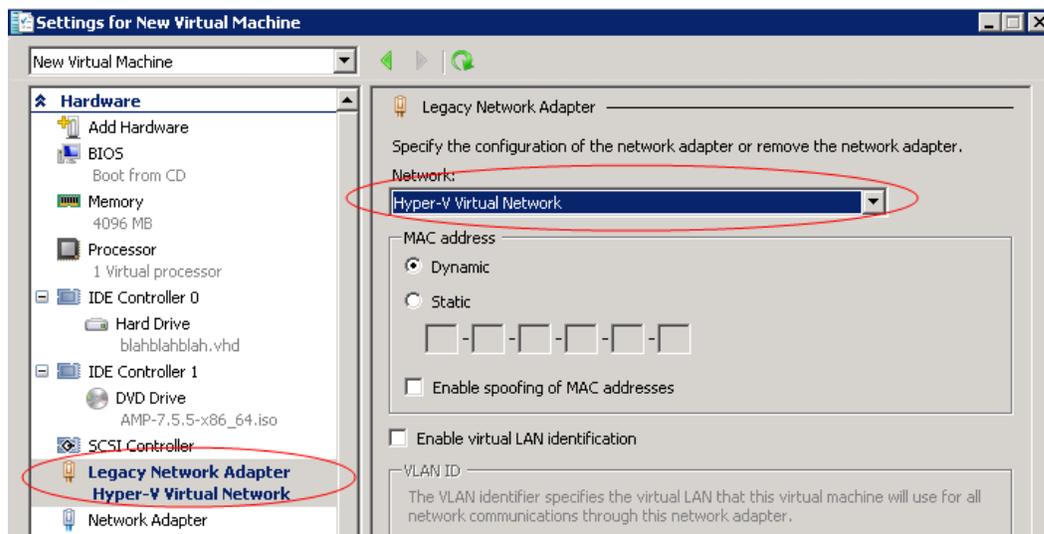
1. During the initial setup of the virtual machine in Hyper-V Manager, navigate to the Add Hardware section.
2. Select Legacy Network Adapter from the Add Hardware window, then click **Add**.

Figure 2: Add a Legacy Network Adapter



3. Under Network, select the virtual network you want to connect to. If you want to configure a static MAC address or virtual LAN identifier, enter the addresses.

Figure 3: Add a Legacy Network Adapter



4. Click **OK**.

Installing AirWave on the Virtual Machine

Installing AirWave on a Hyper-V virtual machine is typically done in one of two ways:

- Write an AirWave ISO to DVD, inserting the DVD into a physical drive on a Hyper-V server, and then configure the AirWave virtual machine to boot from the DVD.
- Copy the AirWave ISO to the Hyper-V server's datastore or to a networked filesystem available to the Hyper-V server, and then configure the AirWave virtual machine to boot from the ISO file.

Overall, the second option is the most efficient method to install AirWave. After booting the AirWave virtual machine with either a physical DVD or the ISO image file, the installation process with this method is identical to the steps outlined earlier in this document.

Upgrading AirWave

AirWave 8.2.4 has an upgrade tool that allows you to quickly download and install the software immediately. For the latest AirWave upgrade information, see the release announcement for detailed instructions and changes.

Upgrade the Software

If you're using AirWave 8.0.8.x or later, you can quickly upgrade to AirWave 8.2.4. After upgrading the software, you will no longer have root user access to the Linux shell.

Follow these steps to upgrade the software:

1. Log in to the AirWave server as the root user.
2. Run the upgrade utility:

```
#start_amp_upgrade -v 8.2.4
```

The upgrade utility looks for the local upgrade package. If the software is located, go to the next step when prompted to do so. If the software is not available:

- a. Enter your Aruba support credentials to get the software from the Aruba Support Center.
- b. [Manually download the software](#) and run the upgrade utility later.

After the download completes, the following message appears while the software compiles:

```
Validating the upgrade package...  
Upgrade package is OK.
```

```

Using upgrade script extracted from local package.
Upgrade package found in local cache.
*****
After the upgrade, your system will be converted to use AMPCLI and the Linux shell will no
longer be accessible.
It is recommended that you cleanup some disk space before the upgrade by removing old AMP
upgrade tarballs from /root directory and/or old pre-upgrade backups from /var/airwave-backup
directory.
*****

```

3. After the AMP services restart, you will see the following message:

```

Setting up secure accounts...
Setting admin user name...
Admin Username (default 'ampadmin'):
Admin user is admpadmin
Done
Setting admin password...
Admin Password:
Verify Password:
Done
Done
Removing alias for less...
Done
AMPCLI Setup completed

```

Enter the new ampadmin password. If you don't enter a user name, AirWave uses the default "ampadmin".

4. After setting the password, you will see the following message:

```

Your system has been converted to use AMPCLI. You may now
log in as ampadmin. If you lose the password for ampadmin you
may log in as amp recovery (password recovery) on the console to reset
the ampadmin password

```

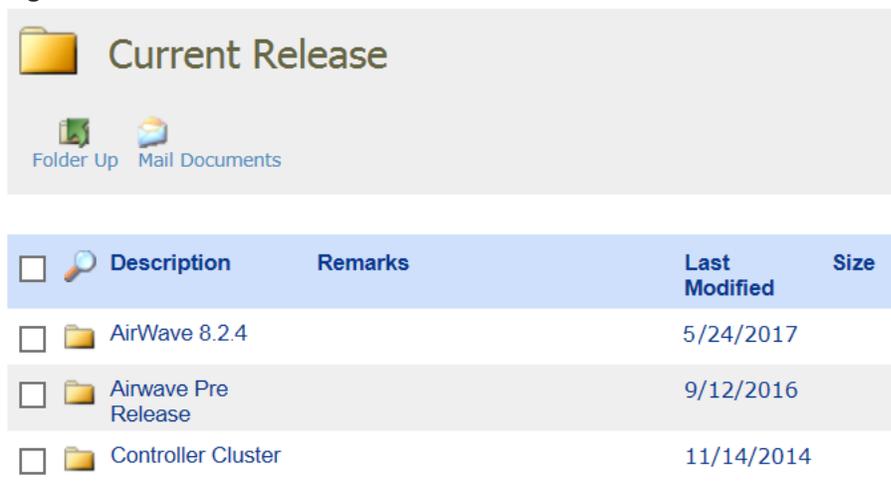
5. Finally, remove any OS user accounts to prevent unauthorized access.

Download Manually

Follow these steps to download the software manually:

1. Go to the **Download Software tab** and select **AirWave > AMP > Current Release > AirWave 8.2.4**.

Figure 4: Software Download Location



2. Click the upgrade package, then click **Save** and install the file later.
3. Copy the file to the AirWave server's **/root** directory using an SCP file transfer application.

Minimum Requirements

Ensure that you have sufficient disk storage, memory, and hardware or software versions. As additional features are added to AirWave, increased hardware resources become necessary and hardware requirements vary by version. For the most recent hardware requirements, refer to the *AirWave 8.2 Server Sizing Guide* on the **Home > Documentation** page.

Supported Upgrade Paths

You can upgrade directly to AirWave 8.2.4 from the following software versions:

- 8.0.8 and 8.0.8.1
- 8.0.9
- 8.0.10
- 8.0.11, 8.0.11.1, and 8.0.11.2
- 8.2.0, 8.2.0.1, 8.2.0.2, and 8.2.0.3
- 8.2.1 and 8.2.1.1
- 8.2.2 and 8.2.2.1
- 8.2.3, 8.2.3.1, and 8.2.3.2

There is no direct upgrade between AirWave 7.7.x and 8.2.4.

Configuring and Mapping Port Usage for AirWave

The following table itemizes the communication protocols and ports necessary for AirWave 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 3: *AirWave 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 AirWave 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

Table 3: AirWave Protocol and Port Chart (Continued)

Port	Type	Protocol	Description		Device Type
49	UDP	TACACS	AirWave Administrative Authentication	>	Cisco TACACS+
53	UDP	DNS	DNS lookup from AirWave	>	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 AirWave	>	NMS
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 AirWave administrative users on a RADIUS server.	>	RADIUS auth server
1813	UDP	RADIUS accounting	Retrieve user names for authenticated WLAN clients from NAS (captive portal, controller, autonomous AP). Only used when user names 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:

- "AirWave Header Statistics" on page 12
- "Navigation Sidebar" on page 12
- "Filtered Views" on page 13

The AirWave pages also contain **Help** links that open the *AirWave 8.2.4 User Guide*.



On most pages in AirWave, 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.

AirWave Header Statistics

The top header of each AirWave WebUI page displays icons that provide counts on newly discovered devices, device status, mismatches, rogues, clients, and both unacknowledged and severe alerts. These icons also provide direct links for immediate access to key system components.

For information about customizing the header statistics, see the *AirWave 8.2.4 User Guide*.

Figure 5: *AirWave Header Statistics Icons*



AirWave Search Utility

The top header of each AirWave UI page includes a search utility that allows you to search for information, including:

- Notes
- Versions
- Serial numbers
- MAC addresses
- IP addresses
- Users

Navigation Sidebar

The navigation bar allows you to access WebUI pages within AirWave. When you click in the AirWave WebUI and select a component from the navigation sidebar, AirWave will display monitoring, management, details, and dashboard pages to the right.

Some navigation menus, such as AMP Setup, might be hidden from a user depending on the user's role.

Figure 6: *Navigation Sidebar*



Filtered Views

The columns in the default view for each of the following pages are defined in AirWave and cannot be modified. However, you can create and run a new view in each of these pages that returns custom information based on the filter parameters and data columns you selected when creating the new view.

- **APs/Devices > List**
- **APs/Devices > Up**
- **APs/Devices > Down**
- **APs/Devices > Mismatched**
- **Groups > Monitor**
- **APs/Devices Page**

Create a Filtered View

To create a new filtered view, navigate to any page that contains a default view list, such as **APs/Devices > List**.

1. Click the down arrow by a table title and select **New View**.

Figure 7: Create a New View

	CONFIGURATION	FOLDER	GROUP	CLIENTS
+ New View	Good	Top	Access Points	0
1322of-AP2	Unknown	Top	Access Points	0
1322of-AP5	Good	Top	Access Points	0
1341-AP101	Good	Top	Access Points	0
1341-AP102	Good	Top	Access Points	0
1341-AP103	Good	Top	Access Points	0
-- Default View: Devices for C...	Good	Top	Access Points	0

2. The **Filtered View** page opens.
3. Enter the name of the new view.
4. (Optional) AirWave administrators can select the **Is Global** check box to give all users access to the filtered view. Administrators are able to edit any global view they can see in the filtered view drop-down list.

Figure 8: Create a New View

5. Click the **+** icon to add a new filter. A new list of parameters is added to the **Filter** field.
6. Scroll the list of filter parameters and select a **Device** or **Radio** parameter. If required, enter search parameters such as "=" to refine the filter parameters.
7. (Optional) To create a filtered view with multiple filter parameters, click the **+** icon again and define any additional filter parameters. For example, to create a view that displays APs with more than zero clients but less than five clients, you would need to create one filter with the parameters **Clients > 0**, and a second filter with the parameters **Clients < 5**.
8. Drag and Drop data columns from the **Available Columns** list to the **Current Columns** list to select which columns display in the view. You can reorder the columns in the **Current Columns** list by dragging and dropping the data column to a different place in the list.
9. Click **OK**. The name of the new view is added to the view list.

10. Click the name of the new view. A new page displays the results of the new view, based on the configured filters.

You can edit a custom filter view at any time, by selecting clicking the down arrow in the table titlebar, selecting **Edit View**, and modifying filter parameters and column displays.

Getting Started

Follow these steps to get started using AirWave.

Logging in to the WebUI

By default, AirWave comes with a default account with the user name "admin" and password "admin". In order to log in to the WebUI for the first time, you have to log in as the default user.

To access the AirWave WebUI:

1. Enter the AirWave IP address (IPv4 or IPv6) or hostname in the address bar of any browser.



2. Enter the default user name and password: **admin** and **admin**.
3. Click **Log In**.

Changing the Language

You can change the language of the buttons, menus, and tabs in AirWave. You'll see the available languages at the bottom of the Login window. Look for the language that you want and select it.

If you want to change a language again, you must log out of AirWave and reopen the Login window.

Installing the License

The first page to appear after you initially log in is the **Home > Overview** page. If you have more than one license to install, repeat this procedure for each license.



AirWave pages are protected via SSL. Some browsers will display a confirmation dialog for your self-signed certificate. Signing your certificate will prevent this dialog from displaying.

To install the AirWave license:

1. On the License page, paste the AirWave license key you received into the license field on this page.
2. Click **Save**.
3. In the AirWave licensing agreement, click **I Accept** to agree to the license terms and apply the license key.

Changing the Default Admin User

For security reasons, it's a good idea to change the default admin user name and password. You can do this from the **AMP Setup > Users** page. Refer to the procedure [Creating AirWave User Roles](#) in the *AirWave 8.2.4 User Guide* for additional information.

Navigating the WebUI

The AirWave WebUI contains the following elements on every page:

- Header statistics
- Search utility
- Navigation sidebar
- Filtered views
- Documentation links

Header Statistics

The top header of each AirWave WebUI page displays icons that provide counts on newly discovered devices, device status, mismatches, rogues, clients, and both unacknowledged and severe alerts. These icons also provide direct links for immediate access to key system components.

You can customize your header statistics to display what you want to monitor. For information, see the *AirWave 8.2.4 User Guide*.

Figure 9: Header Statistics



Search Utility

The top header of each WebUI page includes a search utility that allows you to search for information, including:

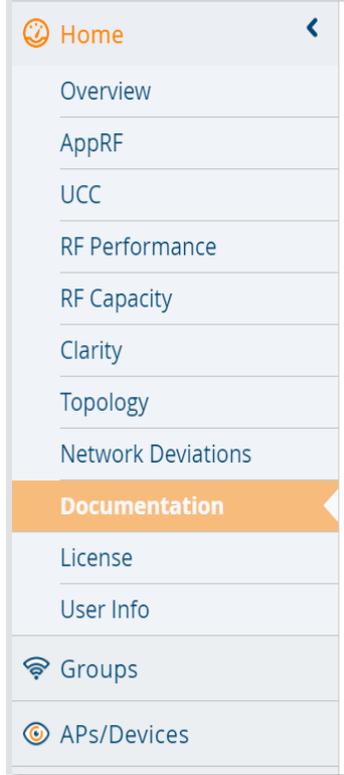
- Notes
- Firmware versions
- Serial numbers
- MAC addresses
- IP addresses
- Users

Navigation Sidebar

The navigation bar allows you to access WebUI pages within AirWave. When you click in the AirWave WebUI and select a component from the navigation sidebar, AirWave will display monitoring, management, details, and dashboard pages to the right.

Some navigation menus, such as AMP Setup, might be hidden from a user depending on the user's role.

Figure 10: Navigation Sidebar



Documentation Links

You can access the *AirWave 8.2.4 User Guide* and other documents by clicking  in the upper-right corner of the WebUI page.

Contacting Support

Main Site	arubanetworks.com
Support Site	support.arubanetworks.com
Airheads Social Forums and Knowledge Base	community.arubanetworks.com
North American Telephone	1-800-943-4526 (Toll Free) 1-408-754-1200
International Telephone	arubanetworks.com/support-services/contact-support/
Software Licensing Site	hpe.com/networking/support
End-of-life Information	arubanetworks.com/support-services/end-of-life/
Security Incident Response Team (SIRT)	Site: arubanetworks.com/support-services/security-bulletins/ Email: aruba-sirt@hpe.com



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