

This document contains release information for version 3.5.4 of the Aruba Amigopod visitor management appliance.

Document Overview

This document is organized into the following chapters:

- "Updating to Amigopod 3.5.4" on page 1 – Important information about updating an Amigopod appliance to the latest software release.
- "What's New in This Release" on page 5 – is a maintenance release that introduces new enhancements and addresses and provides solutions to a number of known issues.
- "Virtual Appliance Installation" on page 8 – Virtual machine requirements, host system requirements and technical notes about the deployment of an Amigopod virtual appliance.

Updating to Amigopod 3.5.4

This chapter contains information about updating an Amigopod appliance to the latest software release.



CAUTION

It is important that the process described here is followed. Otherwise, installing the 3.5 update may fail due to an out of memory condition, which can cause a loss of system functionality. Recovering the Amigopod appliance from this state may require rebuilding your server from a recent configuration backup.

Overview of the Update Process

When upgrading your Amigopod software, follow these steps to ensure that the update process is completed successfully:

1. Verify the system's memory limit configuration setting is adequate.
2. Perform a complete configuration backup.
3. Update the Amigopod software using the Plugin Manager.

Verify the System's Memory Limit

Updating to Amigopod 3.5 requires that the web application's memory limit be set to at least 256M.



In earlier releases, the default memory limit was set to 128M. You must increase the memory limit to avoid problems when performing the system update.

To increase the memory limit, navigate to **Administrator > System Control > Web Application** and change the "Memory Limit" from the default value of 128M to **256M**. Click **Save Changes** which restarts the web server to apply the new settings.


Figure 1 Increasing the web application's memory limit

Web Application Configuration

Use this form to adjust configuration parameters for this web application. [? Help](#)

The default values are recommended; you should avoid changing these values unless you are experiencing problems.

When specifying a size in bytes, you can add a 'K' suffix to specify a value in kilobytes or 'M' to specify a value in megabytes: 1M = 1024K = 1048576.

 Changing these parameters requires the web server to be restarted. Other users of the system may find the system is unavailable for a short period.

System Configuration Options	
Resource Limits Server configuration options controlling resource usage.	
* Memory Limit:	<input type="text" value="256M"/> bytes The PHP memory limit per page. Enter -1 to disable the memory limit. (Default 128M)
* Form POST Size:	<input type="text" value="10M"/> bytes The maximum size of form POST data that the server will accept. (Default 10M)
* File Upload Size:	<input type="text" value="5M"/> bytes The maximum size of an uploaded file that the server will accept. (Default 5M)
Time Limits Server configuration options controlling timeout values.	
* Input Time:	<input type="text" value="60"/> seconds The maximum amount of time each page will spend parsing request data. Enter -1 for no limit.
* Socket Timeout:	<input type="text" value="60"/> seconds The default timeout for socket based streams.
Performance Options Server configuration options controlling performance.	
Compression:	<input type="checkbox"/> Enable zlib output compression Automatically compress output if supported by the web browser.
Security Options Server configuration options related to security.	
Expose PHP:	<input checked="" type="checkbox"/> Include PHP header in web server response Adds a PHP signature line to the HTTP headers returned with each request.
<div>Save Changes</div>	

* required field

System Memory Configuration for Virtual Appliances

Earlier releases of the Amigopod appliance were configured with 512 MB of system memory. For improved performance and reliability, it is recommended that you increase the virtual machine's system memory to at least 1 GB (1024 MB).

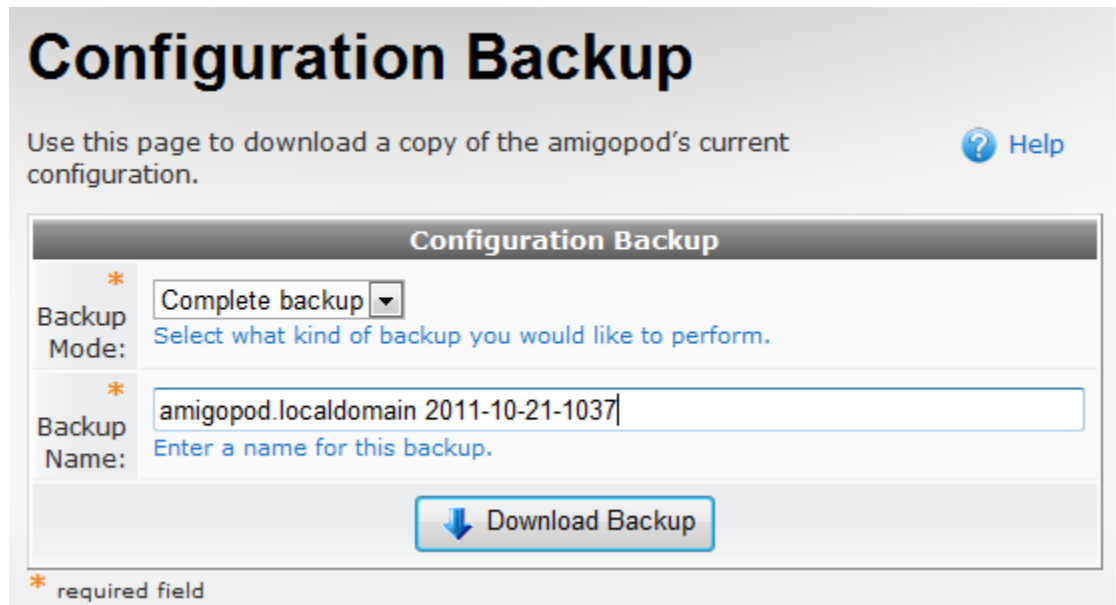
The Amigopod 3.5 software recommends a minimum configuration of 1 GB.

Performing a Configuration Backup

It is recommended that you perform a complete configuration backup before upgrading the system software.

To perform a backup, navigate to **Administrator > Backup & Restore > Configuration Backup** and save the backup file to your computer.

Figure 2 Taking a configuration backup prior to a system update.



The screenshot shows a web interface titled "Configuration Backup". Below the title, it says "Use this page to download a copy of the amigopod's current configuration." and has a "Help" link. The main form has a header "Configuration Backup". It contains two required fields, marked with an asterisk (*): "Backup Mode:" with a dropdown menu set to "Complete backup" and a hint "Select what kind of backup you would like to perform."; and "Backup Name:" with a text input containing "amigopod.localdomain 2011-10-21-1037" and a hint "Enter a name for this backup.". At the bottom of the form is a "Download Backup" button with a download icon. A legend at the bottom left indicates that the asterisk (*) denotes a "required field".

Take a Snapshot of the Amigopod Virtual Machine (Optional)

If the Amigopod is running in a VM, you can also take a snapshot of the virtual machine to preserve its state exactly.



When taking a snapshot of the virtual machine, you should select the "Quiesce guest file system (Needs VMware Tools installed)" option, as shown in the screenshot. This ensures that the state of the file system is captured at a point in time where it is safe to do so.

Figure 3 Taking a virtual machine snapshot prior to a system update.

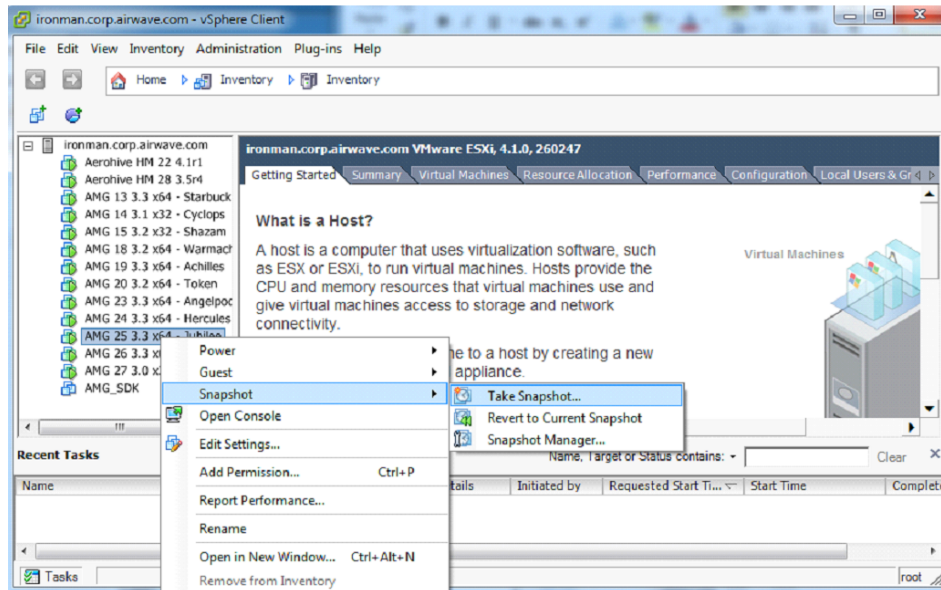
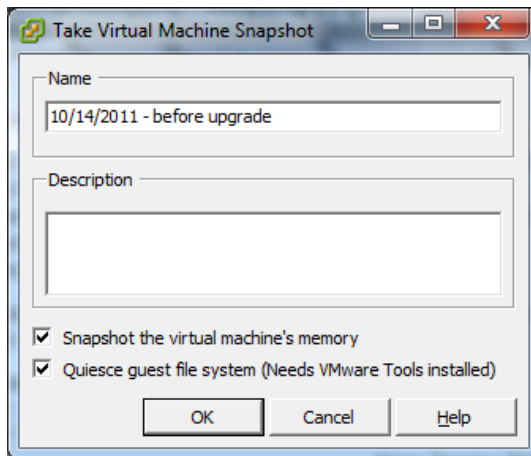


Figure 4 Taking a virtual machine snapshot



The snapshot can be removed after the upgrade to free up space on the VM host. Maintaining multiple VM snapshots can reduce performance of the virtual machine..

The configuration backup and VM snapshot (if applicable) will provide a restore point in the event that an issue arises. It is good practice to take backups regularly.

Updating Amigopod Software

Navigate to **Administrator > Plugin Manager > Update Plugins**, and click **Finish** to download and install the updated plugins.



When upgrading a High Availability cluster, the cluster must be destroyed prior to updating any plugins. Repeat the plugin update on both nodes of the cluster, and rebuild the cluster after the software update has been completed successfully.

After the plugin update has completed, you may be prompted to either restart system services, or reboot the server. The software update will be complete after the restart or reboot has completed.

What's New in This Release

Amigopod 3.5.4 is a maintenance release that introduces new enhancements. It addresses and provides solutions to a number of known issues. This section describes new enhancements and their capabilities.

Issues and Limitations Fixed in Amigopod 3.5.4

This release contains all fixes up to and including those in Amigopod 3.5.0 – Amigopod 3.5.4. The following limitations have been fixed in the Amigopod 3.5.4. release....

Table 1 *Issues resolved in the Amigopod 3.5.4 release*

Bug ID	Description
1405	The default skin is now automatically enabled on installation.
1960	Certain skins now display the site map correctly.

Table 2 *Issues resolved in the Amigopod 3.5.2 release*

Bug ID	Description
1901	Performing certain test authentications using an external LDAP server no longer causes a Javascript error.
1938	Defining a custom SMS handler using HTTPS no longer causes the error CURLE58: "HTTP transfer failed: error 58 (unable to use client certificate (no key found or wrong pass phrase?))"
1947	Enabling the option to require guest access via HTTPS no longer causes user authorization requests and MAC account creation to fail.

Table 3 *Issues resolved in the Amigopod 3.5.1 release*

Bug ID	Description
1103	When using an SSL connection to perform LDAP authentication with a Microsoft Active Directory server, CA certificates required to validate the server's identity are now supported when they have been uploaded using RADIUS > Authentication > Certificates. Previously, attempting this type of authentication would fail with a certificate validation error.
1293	Upgrading from Amigopod 3.0 to 3.5 would fail due to an issue encountered during the database server upgrade to PostgreSQL 9.0.
1853	Duplicate Accounting-Start messages are now correctly handled, and will no longer result in multiple sessions being displayed in the Active Sessions list for a single user session.
1885	System configuration settings for the net.ipv4 branch were not correctly loaded after system boot.
1891	With certain configuration settings in effect, an SQL error was displayed on the Active Sessions page.

Table 3 *Issues resolved in the Amigopod 3.5.1 release (Continued)*

Bug ID	Description
1899	Increase the default PHP memory limit setting to 256M. This change will be automatically applied when updating the Administrator plugin.

Table 4 *Issues resolved in the Amigopod 3.5.0 release*

Bug ID	Description
1808	PHP has been updated to version 5.3.8.
1807	Corrected a performance and stability issue seen when large numbers of guest accounts expire at the same time.
1810	Corrected an issue where an incorrectly formatted NAS-IP-Address attribute was sent when using the Test Authentication feature with a Proxy RADIUS external authentication server.
1785	Resolved issue where using the reset to factory defaults option for MDPS web login page could leave the page with two "Password" fields and no "Username" field.
1809	Resolved an issue where an OS update required for Mobile Device Provisioning Services would fail to install correctly.
1817	Resolved an Internet Explorer rendering issue affecting the action row within list views.
1818	Corrected some documentation issues for the standard RADIUS request functions available for user authorization.
1822	Corrected an issue where email addresses were not recognized as valid if the first character of the domain name was a digit.
1838	Corrected an issue where installing a RADIUS EAP server certificate signed by a third-party certificate authority would fail with the error message "private key does not match certificate".
1880	Fixed an issue to support AD LDAP authorization over port 636.

Feature Enhancements

The following tables list the new features that have been introduced in Amigopod 3.5.0 – Amigopod 3.5.4.

Table 5 *Feature enhancements in the Amigopod 3.5.4 release*

Feature ID	Description
1942	A notification has been added that reports the plugin versions that are installed after an update has completed.

Table 6 *Feature enhancements in the Amigopod 3.5.2 release*

Feature ID	Description
1915	Added support for T.61 string types. This corrects an issue where certain certificate signing requests would be rejected by the Certificate Management view in Mobile Device Provisioning Services with the error "T61String conversion is not implemented".
1916	Added indexes to the local RADIUS database to better support queries for case-insensitive usernames.

Table 7 *Feature enhancements in the Amigopod 3.5.0 release*

Feature ID	Description
548	Amigopod is now capable of sending a warning email or SMS message when a guest's account is about to expire.
1388	Data Retention policy added to control the scheduled deletion of old data from the Amigopod system.
1397	Vendor specific attributes can now be displayed in the active sessions list and used in RADIUS accounting reports.
50	When a guest has their expiration time extended, any active sessions will support the new values. Requires Aruba OS 6.2 or greater.
336	The system now provides a limit to the number of Guest Accounts an operator can create.
380	Support for case-insensitive user names.
1036	Added the ability to enable or disable remote SSH access from the CLI.
1279	Ability to detect a user via their MAC address.
1403	The operator login page can now be completely customized.
1670	Operators can now be authenticated against a RADIUS server.
1719	A guest self-registration can now be edited to require operator privileges prior to registration.
1760	Application log messages may now be redirected to syslog with a user-selectable facility.
1789	Self-registration pages are now able to capture ip_address and http_user_agent fields from the guest.
1791	Amigopod now supports Bulk SMS regional sites: Germany, International, South Africa, Spain, UK, USA.
1688	Four new types of source filter and output filter are available in the report editor: Value is equal to, Value is equal to (case sensitive), Value is not equal to, Value is not equal to (case sensitive).

Known Issues

Table 8 lists the known issues and limitations of the Amigopod 3.5.0 release..

Table 8 *Known issues in the Amigopod 3.5.0 release.*

Bug ID	Description
1874	Some UI issues exist in Internet Explorer 9 browser, like improper scroll bars for the tables and incorrectly formatted headings on the radius_auth_certs page. Note that these issues do not exist if the compatibility view is turned on, or if the browser is set to a mode other than Internet Explorer 9 mode.

Virtual Appliance Installation

The Amigopod visitor management software is delivered as a pre-installed virtual appliance, enabling you to get started quickly.

Review the installation notes in this section to ensure you have the correct version of the appliance for your installation environment. This section also includes some technical notes relevant to the deployment and operation of virtual appliances using VMware's virtualization products.

About the Release Files

2011-11-22-Amigopod-VirtualAppliance-3.5.4-x86_64.zip:

- Use this image with VMware ESXi, version 4.0.0+, or VMware ESXi 5.
- This virtual machine image is built using a 64-bit architecture.

2011-11-22-Amigopod-ESX3Appliance-3.5.4-x86_64.zip

- Use this image with VMware ESX Server version 3.5.
- This virtual machine image is built using a 64-bit architecture.

2011-11-22-Amigopod-VmwarePlayer-3.5.4-i386.zip

- Use this image with VMware Workstation, VMware Player or VMware Server.
- This virtual machine images is built using a 32-bit architecture. Use of virtualization software allows this image to run on either a 32-bit or 64-bit platform.

System Requirements

Virtual Machine Requirements

When deploying an Amigopod virtual machine, the following minimum system resources are required:

Table 9 *Virtual Machine Requirements*

Resource	Minimum Recommended Configuration
CPU	1 virtual CPU
Memory	1024 MB
Storage	8 GB virtual disk
Network Adapters	2 virtual NICs



This configuration is the minimum recommended and is suitable only for very small-scale deployments or to support basic evaluation and testing. For production networks or larger-scale testing, you will need to increase the resources allocated to the virtual machine according to the load you expect to support. Refer to the Amigopod Sizing Guide for detailed information about sizing the Amigopod virtual machine for your deployment.

VMware Requirements

The recommended virtualization products to use with this release are:

- VMware ESX Server 4i, version 4.1.0+
- VMware Player
- 3.0+
- VMware Server 2.0+

This release has been tested with VMware Player version 3.1.4, VMware ESX Server 3i, version 3.5.0, and VMware ESXi, version 4.1.0.

For more information on VMware products, including free downloads, go to:
<http://www.vmware.com/>

Web Application Requirements

Supported web browsers are:

- Microsoft Internet Explorer 7.0 or above
- Mozilla Firefox 3 or above
- Apple Safari 3 or above
- Google Chrome

Recommended web browsers are Microsoft Internet Explorer 8 and Firefox 3.6.



Microsoft Internet Explorer 6.0 is now considered a deprecated browser. Users may encounter some visual and performance issues when using this browser, and are strongly recommended to update to either Microsoft Internet Explorer 8 or a non-Microsoft browser for the best user experience.

Accessing the User Interface

Browse to the URL displayed on the appliance console.

Evaluation Licensing

The default evaluation license shipped with the appliance allows guest accounts to be created with a maximum lifetime of 15 minutes. After this period, the guest account will expire and be deleted.

Contact your Amigopod reseller to purchase a subscription ID that allows for unlimited guest account lifetimes, or to obtain a time-limited evaluation license that provides complete functionality for a defined period.

VMware ESX Server Technical Notes

The following notes are relevant to installations using a virtualization product based on VMware ESX Server.

Virtual Machine Networks

The Amigopod virtual appliance is shipped with a single virtual network adapter configured to obtain an IP address using DHCP.

When importing the virtual appliance, ensure you connect the virtual machine's network adapter to a physical network that has an available DHCP server.

The current IP address of the appliance is shown on the appliance console at the login prompt.

VMware Player / VMware Workstation Technical Notes

The following notes are relevant to installations using a virtualization product based on VMware Workstation.

Virtual Machine Networks

The Amigopod virtual appliance is shipped with two virtual network adapters; both are configured to obtain an IP address using DHCP.

The virtual appliance's first Ethernet adapter is connected to the VMware NAT virtual adapter; this enables the virtual machine to reach the Internet using the host's IP address.

The virtual appliance's second Ethernet adapter is connected to the VMware Bridged adapter; this enables external access to the virtual machine using the physical network connected to the bridged adapter.

The current IP address of the appliance is shown on the appliance console at the login prompt.

Configuring Virtual Machine Networks

If you are using VMware Player, and your host machine has more than one Ethernet adapter installed, you may encounter difficulties obtaining a DHCP network address if the Ethernet adapter selected for automatic bridging is not the correct adapter.

Although VMware Player does not have a menu option to configure virtual networks, the network configuration can be viewed and modified using the Virtual Network Configuration application. This program is called **vmnetcfg.exe** and can be found in the VMware Player program files directory. If the default installation path was selected, this program is:

C:\Program Files\VMware\VMware Player\vmnetcfg.exe

Timekeeping in Virtual Machines

If running an AMD dual-core (X2) processor, the AMD Dual-Core Optimizer must be installed on the host to avoid timekeeping problems in the virtual appliance. This can be downloaded from:

http://www.amd.com/us-en/Processors/TechnicalResources/0,,30_182_871_9706,00.html

Other hosts with dual-core or SMP systems may also experience timekeeping problems unless the virtual machine's processor affinity is set to a specific CPU.

For more details on timekeeping best practices in VMware virtual machines, refer to:

<http://kb.vmware.com/kb/1006427>.

Note that running NTP within the Amigopod virtual machine is NOT recommended, as this may conflict with VMware's internal clock synchronization. Instead, run NTP or another time synchronization client on the host, and use VMware's clock synchronization (enabled by default) to keep the virtual machine's time accurate.

Contacting Support

Main Site	arubanetworks.com
Support Site	support.arubanetworks.com
North American Telephone	1-800-943-4526 (Toll Free) 1-408-754-1200
International Telephones	arubanetworks.com/support-services/aruba-support-program/contact-support/
Software Licensing Site	licensing.arubanetworks.com/login.php
Wireless Security Incident Response Team (WSIRT)	arubanetworks.com/support/wsirt.php

Support Emails

Americas and APAC	support@arubanetworks.com
EMEA	emea_support@arubanetworks.com

WSIRT Email
Please email details of any
security problem found in an
Aruba product.

wsirt@arubanetworks.com



www.arubanetworks.com

1344 Crossman Avenue
Sunnyvale, California 94089

Phone: 408.227.4500
Fax 408.227.4550