



# Migrating AMG to CPPM

## Tech Note: Guide on migrating legacy AMG 3.9.x to CPPM 6.1

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# Overview

The following guide has been produced to aid field engineering, customers and partners in migrating Amigopod 3.9.x deployments to CPPM 6.1.0.

The process to migrate from AMG to CPPM is quite a simple process. Multiple migration options exist such as migrating to a VMWare CPPM installation or migrating to a new CPPM appliance. Due to the criticality of AMG/CPPM within a network, please ensure adequate planning and testing is completed prior to the live migration. You may want to test the migration multiple times for example by using a VMWare deployment for analysis and testing before you remove AMG and install CPPM on your AMG hardware.

**Note:** With this release (6.1.0) of CPPM the option of migrating your legacy AMG hardware running 3.9 to hardware running CPPM 6.1 is now supported. If you need to upgrade legacy AMG hardware running 3.9.x software to CPPM 6.1.0 software please contact your local Aruba Account Manager or Aruba System Engineer who will be able to advise and guide you through this process.

## Section 1 – AMG Configuration Migration and Restoration

Before a migration is performed multiple events need to happen. The source AMG system needs to have AMG 3.9.8 installed. This was released mid April 2013 and is the only supported code for migration. Several fixes were incorporated into this patch release to aid the migration to CPPM 6.1.0.

Check that your current AMG software release version is up to date and is using AMG 3.9.8. This can be accomplished by looking under **Administrator/System Information/Software Information/Application Plugins: - more details...** if you need to upgrade refer to the Amigopod Deployment Guide and Release notes for the latest instructions.

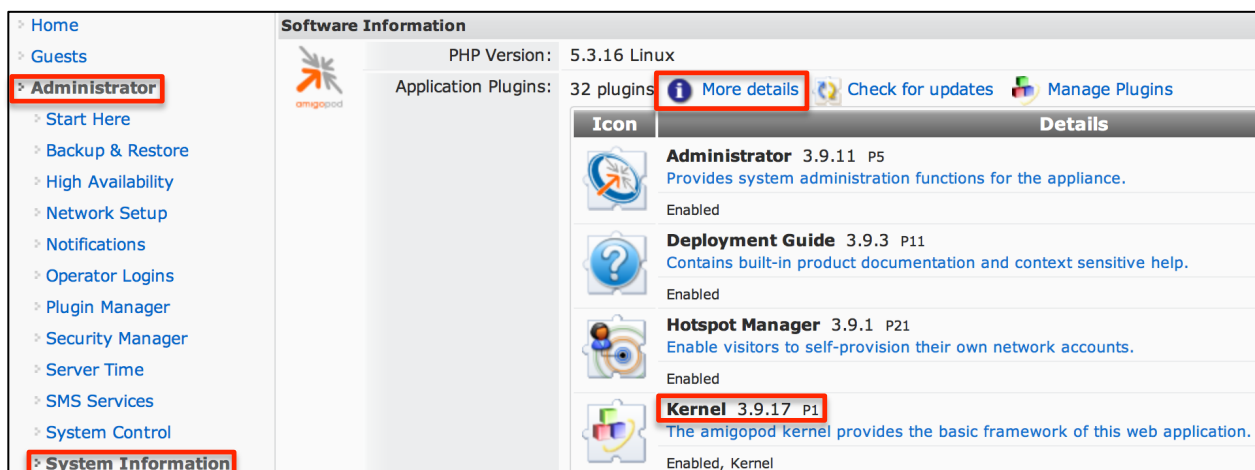


Figure 1 - Looking up current AMG software release

The kernel version is what indicates the current AMG software level.

Kernel Version	3.9.15	3.9.16	3.9.17	3.9.18
AMG version	3.9.5	3.9.6	3.9.7	3.9.8 (Recommend)

If you do not have the recommend level, you must upgrade your AMG system to release 3.9.8 before you take a backup and migrate to CPPM.

## Backup your Source AMG system

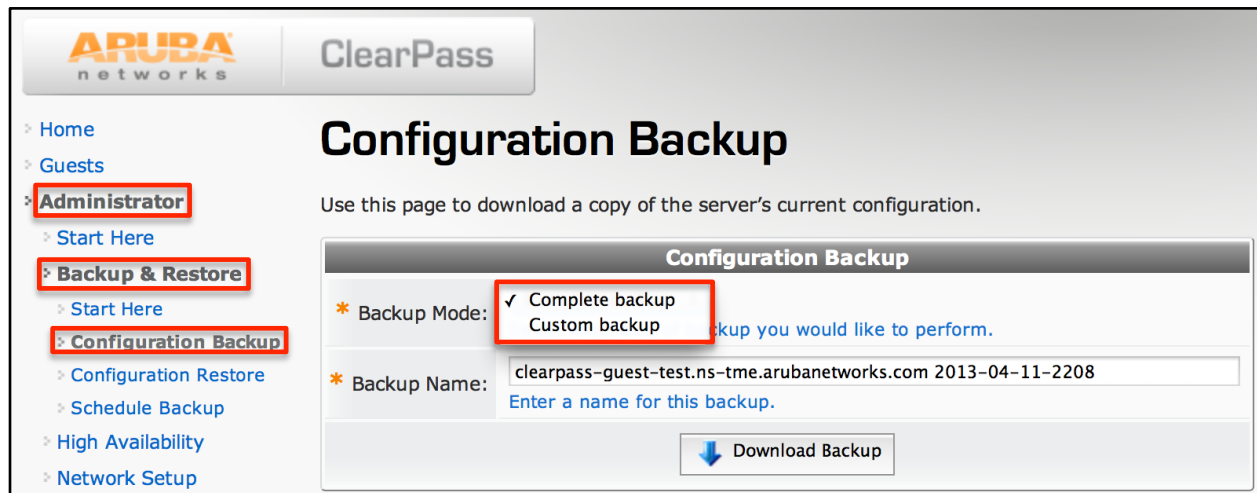


Figure 2 - Taking a 'Complete backup' of AMG

Click on 'Administrator', 'Backup & Restore' and then 'Configuration Backup', to take a system backup. It is important you take a 'Complete backup' as shown, and not a 'Custom backup'.

**Note:** It is recommended you take two backups of your system for safety purposes, especially if you intend to migrate your hardware running AMG to CPPM.

**Note:** If you are planning on also upgrading Amigopod hardware once the process is started, no regression is possible and all existing data is lost.

## CPPM Target System Requirements

The target system that will become the new active system will require a minimum software level of CPPM 6.1.0. Earlier versions such as 6.0.2 or 6.0.1 are **not** supported and will not work. In addition, it is strongly recommended that the target system is clean and has not had any previous configuration beyond basic network configuration/name server and a valid license.

**Note:** The target appliance/VM must have a license before the following step is performed.

### Import and restore the Configuration to CPPM 6.1.0

Import the 'Complete backup' saved in the previous section. This is Step 1.

**Note:** On the target appliance, go to **Guest > Administration > Import Configuration** as shown below. Select the file you have saved previously from AMG to be imported into CPPM Guest.

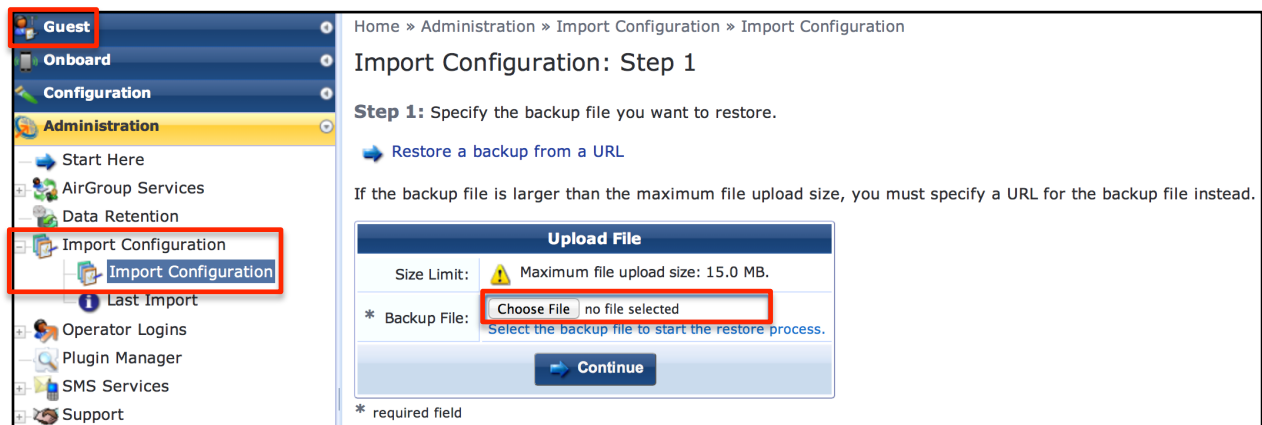


Figure 3 - AMG Import into CPPM Guest

**Note:** DO NOT use the Restore function within CPPM (Administration > Server Manager > Server Configuration) to attempt importing an AMG configuration. This will not work. Equally, do not use the restore CLI command in CPPM. The AMG restore is a CPPM Guest function.

## Analyzing your AMG Backup in CPPM Guest

Chose your backup file as required and click on 'Continue'. CPPM Guest will then perform an analysis of the backup file. A very complete and detailed report is provided about your source system backup file. An example is below for reference, this is [Step 2](#).

Home » Administration » Import Configuration » Import Configuration

### Import Configuration: Step 2

**Step 2:** Select the configuration items you want to restore.

Configuration Backup		
Backup:	3.9-complete-backup (complete)	
Configuration Item	Restore	
AirGroup Services	X	↓ ✓
AirGroup Services Configuration	X	✓
Cisco IP Phones	X	↓ ✓
Service Instances	X	✓
Guest Manager	X	↓ ✓
Guest Manager Configuration	X	✓
Guest Manager Custom Fields	X	✓
Guest Manager Custom Forms	X	✓
Guest Manager Custom Views	X	✓
Guest Manager Print Templates	X	✓
Guest Manager Self Registration	X	✓
LDAP Sponsor Lookups	X	✓
MAC Authentication Configuration	X	✓
High Availability	X	↓ ✓
High Availability Local Configuration	X	✓
High Availability Shared Configuration	X	✓

Hotspot Manager	X	↓ ✓
Hotspot Configuration	X	✓
Transaction Processors	X	✓
Onboard	X	↓ ✓
Onboard Configuration	X	✓
Operator Logins	X	↓ ✓
Operator Login Configuration	X	✓
Operator Logins	X	✓
Operator Profiles	X	✓
Operator Servers	X	✓
Operator Translation Rules	X	✓
Palo Alto Networks Services	X	↓ ✓
Plugin Configuration	X	✓
RADIUS Services	X	↓ ✓
RADIUS Authentication Servers	X	✓
RADIUS Certificates	X	✓
RADIUS Database Accounting Records	X	✓
RADIUS Database Connections	X	✗
RADIUS Database User Accounts	X	✓
RADIUS Dictionary	X	✓
RADIUS NAS List	X	✓
RADIUS Server Configuration	X	✓
RADIUS User Roles	X	✓
RADIUS Web Logins	X	✓

Figure 4 - CPPM Guest, analysis of AMG backup

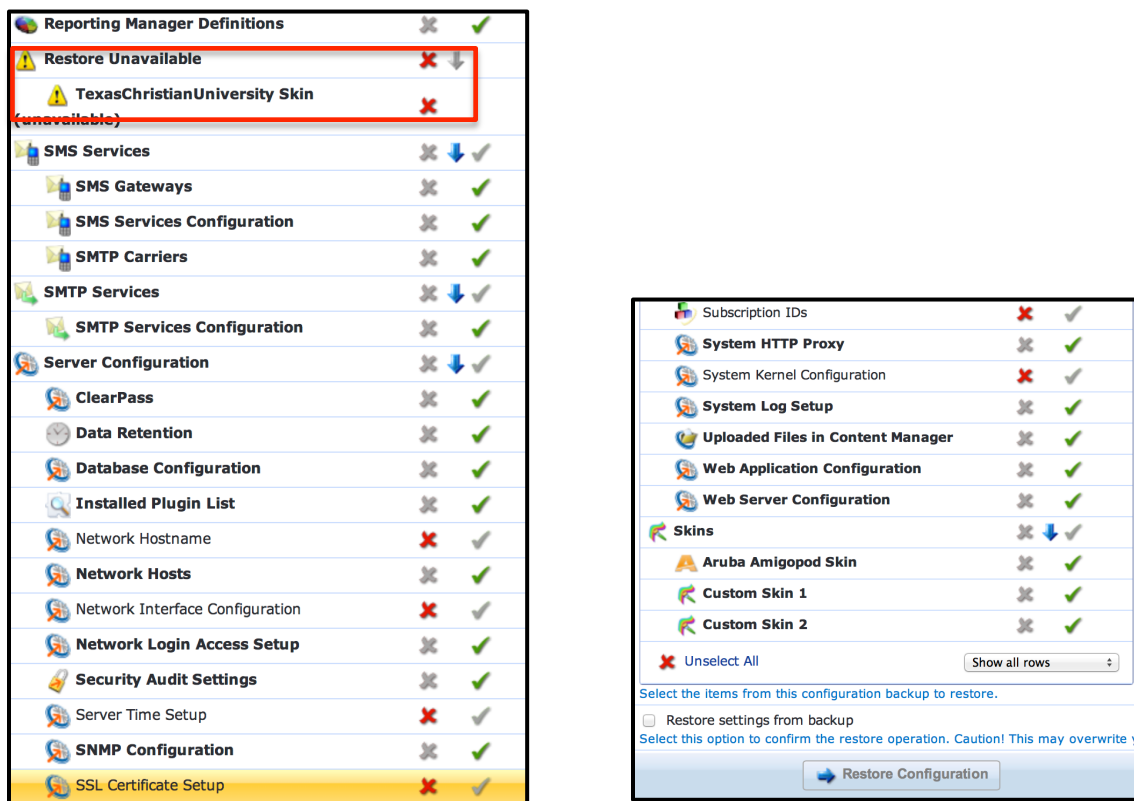


Figure 5 - CPPM Guest, analysis of AMG backup.....showing an error

After reviewing the analysis of your backup, you may want to make appropriate changes and investigate specific errors diagnosed. An example of an error is highlighted above on the Skin import. This item will NOT be imported as signified by the **X**. The **TICK** signifies it will currently be imported.

**Note:** You also have the option of selecting items that will be ignored on the import, by clicking on the grey X next to an item which is currently selected, you can make the import ignore this configuration element. The green tick will change to a red X to show it is to be ignored.

You can repeat the analysis multiple times, each time making AMG amendments as appropriate, performing the **Import** again and reviewing the output from CPPM Guest.

When you are comfortable with the analysis messages, select the **'Restore settings from backup'** box and click on **'Restore Configuration'**. During the process you will see a progress bar showing how far through the restore has progressed.



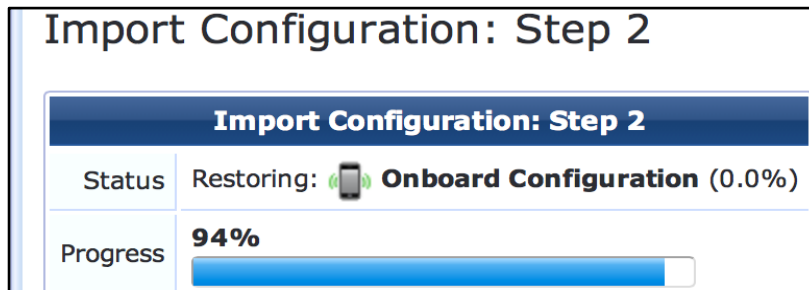


Figure 6 - Import of backup....showing progression....

Once the restore/import has completed (generally less than one minute) a summary list will be shown, carefully review this list and check the messages are as expected.

In the below screen shot we show errors...**THERE SHOULD NOT BE ANY ERRORS**

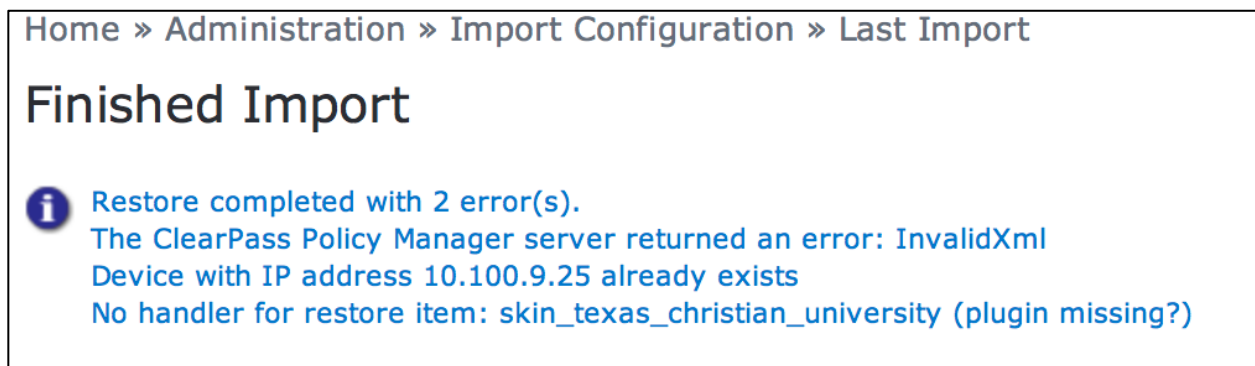


Figure 7 - Import errors, with summary

After the summary list is a detailed restore list, this must also be review carefully. Anywhere there is an 'Error' this can be clicked and then 'Show Details' to get low level information on the failure. An example is shown following the restore list below in Figure 9.

Status	Operation / Notice	Count
✓ Imported	Import AirGroup Services Configuration	1
➡ Migrated	Import Guest Manager Configuration	1
✓ Imported	Import Guest Manager Custom Field	77
➡ Migrated	Import Guest Manager Custom Field	26
ⓘ Obsolete	Import Guest Manager Custom Field	2
➡ Migrated	Import Guest Manager Custom Form	17
✓ Imported	Import Guest Manager Custom Form	3
➡ Migrated	Import Guest Manager Custom View	6
✓ Imported	Import Guest Manager Custom View	1
⚠ Action Required	Import Guest Manager Print Template	12
✓ Imported	Import LDAP Sponsor Lookups	1
➡ Migrated	Import MAC Authentication Configuration	1
➡ Migrated	Import Service Handler	5
➡ Migrated	Import Operator Login Configuration	1
ⓘ Obsolete	Import Operator Login	4
⊘ Unsupported	Import Operator Servers	1
✓ Imported	Import LDAP Translation Rules	8
⚠ Action Required	Import LDAP Translation Rules	1
✓ Processed	Import Palo Alto Network Services Configuration	1
✓ Processed	Import RADIUS Authentication Servers	2
⚠ Action Required	Import RADIUS Authentication Servers	2

⊘ Unsupported	Import RADIUS Certificates	1
ⓘ Obsolete	Import RADIUS Database Connections	1
⊘ Unsupported	Import RADIUS Dictionary	1
➡ Migrated	Import RADIUS NAS List	2
ⓘ Obsolete	Import RADIUS Server Configuration	1
✓ Imported	Import RADIUS Server Configuration	1
➡ Migrated	Import RADIUS User Roles	4
⚠ Action Required	Import RADIUS User Roles	2
✓ Imported	Import RADIUS Web Login	5
⚠ Action Required	Import Reporting Manager Definitions	13
⊘ Unsupported	No handler for restore item: skin_texas_christian_university (plugin missing?)	1
✗ Error	Import TexasChristianUniversity Skin (unavailable)	1
ⓘ Show Details		
➡ Migrated	Import SMS Services Configuration	1
✓ Imported	Import SMS SMTP carrier	76
➡ Migrated	Import SMTP Services Configuration	1
ⓘ Obsolete	Import ClearPass	1
✓ Imported	Import Data Retention	1
⚠ Action Required	Import Database Configuration	1
✓ Processed	Import Installed Plugin List	31
⚠ Warning	Import Installed Plugin List	4
ⓘ Obsolete	Import Network Hosts	1

Figure 8 - Message detail following restore of AMG backup...also shows errors

Below is an example of drilling down into a message failure to display the low-level debug information provided by CP Guest.

✗ Error	Import TexasChristianUniversity Skin (unavailable)	1
ⓘ Hide Details		
<b>Details</b>		
No handler for restore item: skin_texas_christian_university (plugin missing?)		
🔄 Refresh	1	Showing 1 – 1 of 1
		10 rows per page

Figure 9 - Example of failure message, showing detailed information

Equally, for successful import messages, you can drill down and look at the successful migration message details....an example is shown below....

✓ Processed	Import Installed Plugin List	31
<a href="#">Hide Details</a>		
Details		
[AirGroup Services 0.8.7] The plugin version that exported this data was up to date		
[AMG-LIC-1000 License 3.9.0] The plugin version that exported this data was up to date		
[Administrator 3.9.12] The plugin version that exported this data was up to date		
[Deployment Guide 3.9.3] The plugin version that exported this data was up to date		
[Kernel 3.9.17] The plugin version that exported this data was up to date		
[LDAP Operator Logins 3.9.0] The plugin version that exported this data was up to date		
[Local Operator Logins 3.9.2] The plugin version that exported this data was up to date		
[Operating System 3.9.2] The plugin version that exported this data was up to date		
[RADIUS Operator Logins 3.9.0] The plugin version that exported this data was up to date		
[RADIUS Services 3.9.14] The plugin version that exported this data was up to date		
Refresh		Showing 1 – 10 of 31
1 2 3 4		10 rows per page

Figure 10 - Example of successful message, showing detailed information

**Note:** After you have Imported the backup, if required you can go back and look at the messages from the last Import under **Administration > Import Configuration > Last Import**. 2<sup>nd</sup> level messages can also be displayed here.

**Note:** If no messages appear, it's likely they have been cleared via the 'Clear Import Log'.

Guest

Onboard

Configuration

Administration

Start Here

AirGroup Services

Data Retention

Import Configuration

Import Configuration

Last Import

Operator Logins

Plugin Manager

SMS Services

Support

Home » Administration » Import Configuration » Last Import

Finished Import

Clear Import Log

Import Notices

The last import was at 12:16pm Tuesday, 16th April 2013 and took 20 seconds to complete.

Status	Operation / Notice	Count
✓ Imported	Import AirGroup Services Configuration	1
➡ Migrated	Import Guest Manager Configuration	1
✓ Imported	Import Guest Manager Custom Field	77
➡ Migrated	Import Guest Manager Custom Field	26
ⓘ Obsolete	Import Guest Manager Custom Field	2
➡ Migrated	Import Guest Manager Custom Form	17

Figure 11 - Viewing messages from latest Import process