

cpboot> help	
?	- alias for 'help'
bank	- show/set the current bootflash bank (partition).
boot_update	- update bootloader image in boot flash
bootaos	- boot from an AOS image in memory
bootf	- boot from an AOS image from FLASH/External USB
bootl	- load an AOS image from FLASH/External USB
def_part	- set default FLASH boot partition
dir	- list the files in external USB device (default /)
fltest	- fltest - test u-boot FLASH driver
format	- format FLASH device
help	- print command description/usage
osinfo	- show the OS image version(s)
part	- write a new DOS partition table to USB Flash
ping	- send ICMP ECHO_REQUEST to network host
printenv	- print environment variables
purgeenv	- restore default environment variables
reset	- perform RESET of the CPU
saveenv	- save environment variables to persistent storage
setenv	- set environment variables
tftpboot	- boot image via network using TFTP protocol
upgrade	- upgrade FLASH partition
wd_framework	- Run watchdog framework

Download

Aruba code: 6.5.4.9 and 8.6.1.14 from asp.arubanetworks.com

prepare a Flashdrive:

1. Format a FlashDrive to fat32
2. Create a folder: Arubaimage
3. Copy Aruba file to newly created Folder on FlashDrive:\Arubaimage\

Plug Flash Drive into first USB port of the controller.

Boot controller/Plug into power

CPBoot 1.0.7.0 (build 56553)
Built: 2016-09-22 at 04:52:12
.....
Net: ge-0, ge-2, ge-3, ge-4, ge-1
Inventory Verification: PASS
Hit Ctrl + X key to stop autoboot: ←PRESS **Ctrl+X** key combo

Validate USB drive is detected/working:

```
cpboot> usb start 1  
Setting the usb bus to 1  
(Re)start USB...  
USB1:  setting speed to USB_SPEED_HIGH  
2 USB Device(s) found  
    scanning usb for storage devices... #1 Storage Device(s) found  
cpboot>
```

```
cpboot> usb dev
```

```
USB device 0: Vendor: SanDisk Rev: 1.00 Prod: Cruzer Glide  
    Type: Removable Hard Disk  
    Capacity: 14670.0 MB = 14.3 GB (30044160 x 512)
```

cpboot> **usb info**

1: Hub, USB Revision 3.0

- u-boot XHCI Host Controller
- Class: Hub
- PacketSize: 9 Configurations: 1
- Vendor: 0x0000 Product 0x0000 Version 1.0

Configuration: 1

- Interfaces: 1 Self Powered 0mA
- Interface: 0
 - Alternate Setting 0, Endpoints: 1
 - Class Hub
 - Endpoint 1 In Interrupt MaxPacket 2048 Interval 255ms

2: Mass Storage, USB Revision 2.0

- Micron Technology Real SSD eUSB 2GB 17F0022700155035
- Class: (from Interface) Mass Storage
- PacketSize: 64 Configurations: 1
- Vendor: 0x0634 Product 0x1270 Version 17.18

Configuration: 1

- Interfaces: 1 Bus Powered 200mA
- Interface: 0
 - Alternate Setting 0, Endpoints: 2
 - Class Mass Storage, Transp. SCSI, Bulk only
 - Endpoint 1 In Bulk MaxPacket 512
 - Endpoint 2 Out Bulk MaxPacket 512

cpboot>

cpboot> **format 0:2**
Format will erase everything on eUSB flash's partition 2
USB0: setting speed to USB_SPEED_HIGH
2 USB Device(s) found
#1 Storage Device(s) found
#Are you sure you want to continue (y/n)?
Formatting: start: 799552 end: 3936256

Done

cpboot> **format 0:1**
Format will erase everything on eUSB flash's partition 1
USB0: setting speed to USB_SPEED_HIGH
2 USB Device(s) found
#1 Storage Device(s) found
#Are you sure you want to continue (y/n)?
Formatting: start: 399776 end: 799552

done
cpboot>

cpboot> **format 0:0**
Format will erase everything on eUSB flash's partition 0
#Are you sure you want to continue (y/n)?
Formatting: start: 62 end: 399776

done
cpboot>

cpboot> **upgrade 0:2 1:1 Arubaimage/ArubaOS_70xx_6.5.4.9_67129**

AOS Upgrades with Ancillary Files images from cpboot will cause
partition 0 and 1 to both contain the new AOS version.

Do you wish to continue? (y or n): **y**

setting speed to USB_SPEED_HIGH

2 USB Device(s) found

#####setting speed to USB_SPEED_HIGH

2 USB Device(s) found

Image is signed; verifying checksum...

passed

SHA2 Signature available

Signer Cert OK

Policy Cert OK

RSA signature verified using SHA2.

Saving image to Flash Partion#0...

#####

Saving image to Flash Partion#1...

#####

Un-Protected 1 sectors

Erasing Flash...

. done

Writing to Flash... done

Protected 1 sectors

cpboot>

Validate Controller Partitions have been loaded:

cpboot> **osinfo**

Default boot @ device:0 partition:0

#

Partition 0:

Reading image.....done

image type: 0

machine type: 28

size: 80888768

version: 6.5.4.9

build string: ArubaOS version 6.5.4.9 for A70xx (p4build@pr-hpn-build07) (gcc version 4.4.5)

#67129 SMP PREEMPT Thu Oct 4 00:06:14 UTC 2018

flags:

oem: aruba

Image is signed; verifying checksum...

passed

SHA2 Signature available

Signer Cert OK

Policy Cert OK

RSA signature verified using SHA2.

image verify: PASS

Continued from Previous Output...

Partition 1:
Reading image.....done
image type: 0
machine type: 28
size: 80888768
version: 6.5.4.9
build string: ArubaOS version 6.5.4.9 for A70xx (p4build@pr-hpn-build07) (gcc version 4.4.5)
#67129 SMP PREEMPT Thu Oct 4 00:06:14 UTC 2018
flags:
oem: aruba

Image is signed; verifying checksum...
passed
SHA2 Signature available
Signer Cert OK
Policy Cert OK
RSA signature verified using SHA2.
image verify: PASS
cpboot>

cpboot> **bootf 0:0** (or bootf 0:1 which ever partition to load)
##Loading image 0:0#####

Starting auto provisioning
Using port gigabitethernet 0/0/15 for auto provisioning
Initiated DHCP, awaiting DHCP response

Auto-provisioning is in progress. Choose one of the following options to override or debug...

- 'enable-debug' : Enable auto-provisioning debug logs
- 'disable-debug' : Disable auto-provisioning debug logs
- 'static-activate' : Provides customization for static or PPPOE ip assignment. Uses activate for master information
- 'mini-setup' : Stop auto-provisioning and start mini setup dialog for branch role
- 'full-setup' : Stop auto-provisioning and start full setup dialog for any role

Enter Option (partial string is acceptable): **full**

Are you sure that you want to stop auto-provisioning and start full setup dialog? (yes/no): **yes**
Reading configuration from factory-default.cfg

Once Auto Provisioning is complete and reloads, complete a basic initial config of the controller with IP info.

```
Vlan xyz
!
Int vlan xyz
!
Ip address w.x.y.z 255.255.x.x
!
Int gi0/0/x
!
Switchport mode access/trunk
!
Switchport access vlan xyz/switchport trunk allowed vlan xyz
!
trusted
Trusted vlan xyz
!
Wr me
```

Log Into Web Gui
Perform 8.6 upload to non-boot partition
Save and reload

Dashboard

Monitoring

Configuration

Diagnostics

Maintenance

CONTROLLER

About

> Image Management

Reboot Controller

Clear Config

Synchronize Database

Boot Parameters

FILE

Copy Files

Copy Logs

Aruba TAC server

Copy Crash Files

Backup Flash

Restore Flash

Delete Files

Regulatory Files

WLAN

Preload AP Image

Reboot AP

WMS Database

Convert To Instant Mode

Controller > Image Management

Master Configuration Upgrade Configuration Upgrade Status

Upgrade using

☐ TFTP ☐ FTP ☐ SCP ☒ Local File ☐ USB

File Name

Choose File

ArubaOS_70...6.0.17_83573

Partition to Upgrade

☐ Partition 0 ☒ Partition 1

Reboot Controller After Upgrade

☐ Yes ☒ No

Save Current Configuration Before Reboot

☒ Yes ☐ No

Current Partition Usage

	Partition 0 [**default boot**]	Partiti
Partition	0:0 (/dev/usb/flash1)	0:1 (/dev/usb/flash2)
Software Version	ArubaOS 6.5.4.9 (Digitally Signed SHA1/SHA256 - Production Build)	ArubaOS 6.5.4.9 (Digitally Signed SHA1/SHA256 - Prod
Build Number	67129	67129
Label	67129	67129
Built On	Thu Oct 4 00:06:14 UTC 2018	Thu Oct 4 00:06:14 UTC 2018

Upgrading the Image