

Central账号注册及登录

账号注册URL <https://portal.central.arubanetworks.com.cn/signup>

账号登录URL <https://app.central.arubanetworks.com.cn/>

IOS Central APP下载: <https://itunes.apple.com/us/app/aruba-central/id1072608313?mt=8>

Andriod Central APP下载: <https://play.google.com/store/apps/details?id=com.arubanetworks.arubacentral>

账号注册

The screenshot shows the top portion of the sign-up page. The browser address bar displays the URL: https://portal.central.arubanetworks.com.cn/global_signup/v1/signup/#/SIGNUP. The page title is "SIGN UP WITH ARUBA CLOUD PLATFORM". Below the title, a sub-header reads: "Aruba Cloud Platform, a cloud based Software-As-a-Service solution, provides streamlined management of Wired and Wireless network devices." The main form area contains an "Email Address:" label followed by a text input field containing "test123@gmail.com". A red rectangular box highlights this input field. Below the input field is a blue "Continue" button. At the bottom of the page, there is a copyright notice: "Copyright © 2018 Aruba, a Hewlett Packard Enterprise company."

只要有邮箱即可注册

注意密码复杂度要求

非正式用户注册，对注册信息无要求

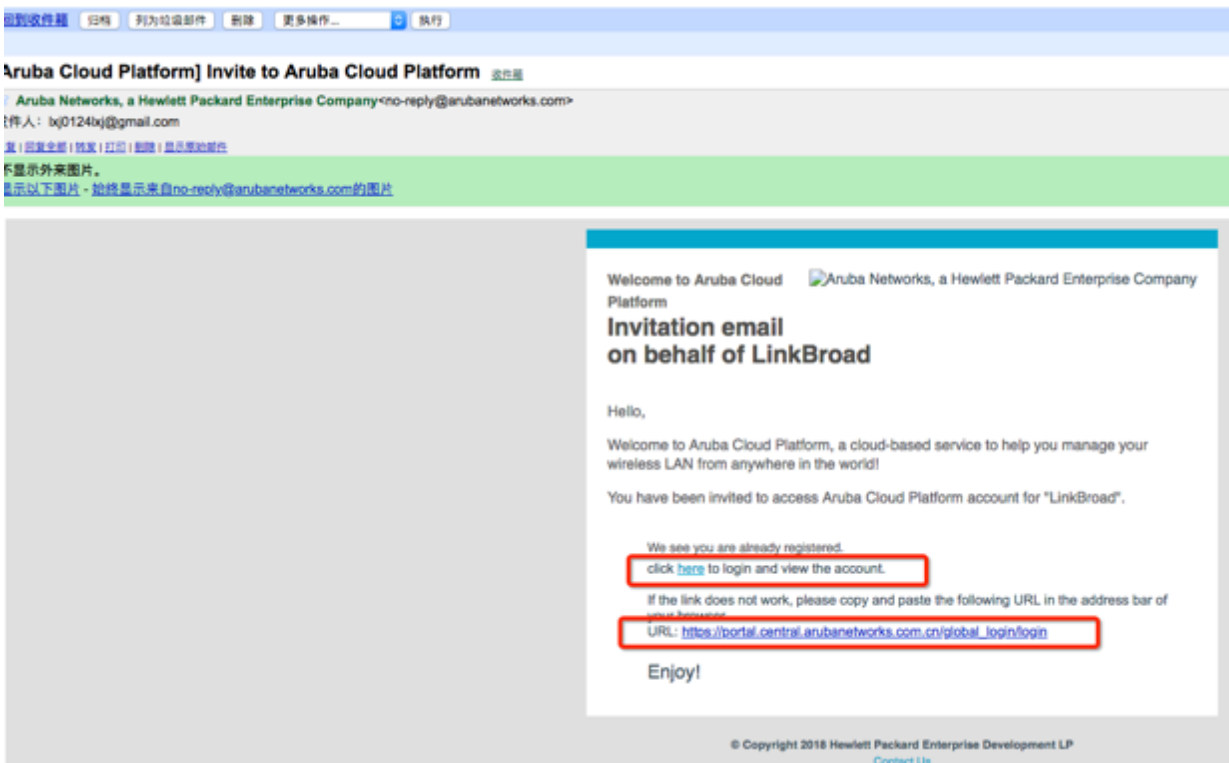
正式用户注册，company信息请填写准确

SIGN UP WITH ARUBA CLOUD PLATFORM

Aruba Cloud Platform, a cloud based Software-As-a-Service solution, provides streamlined management of Wired and Wireless network devices.

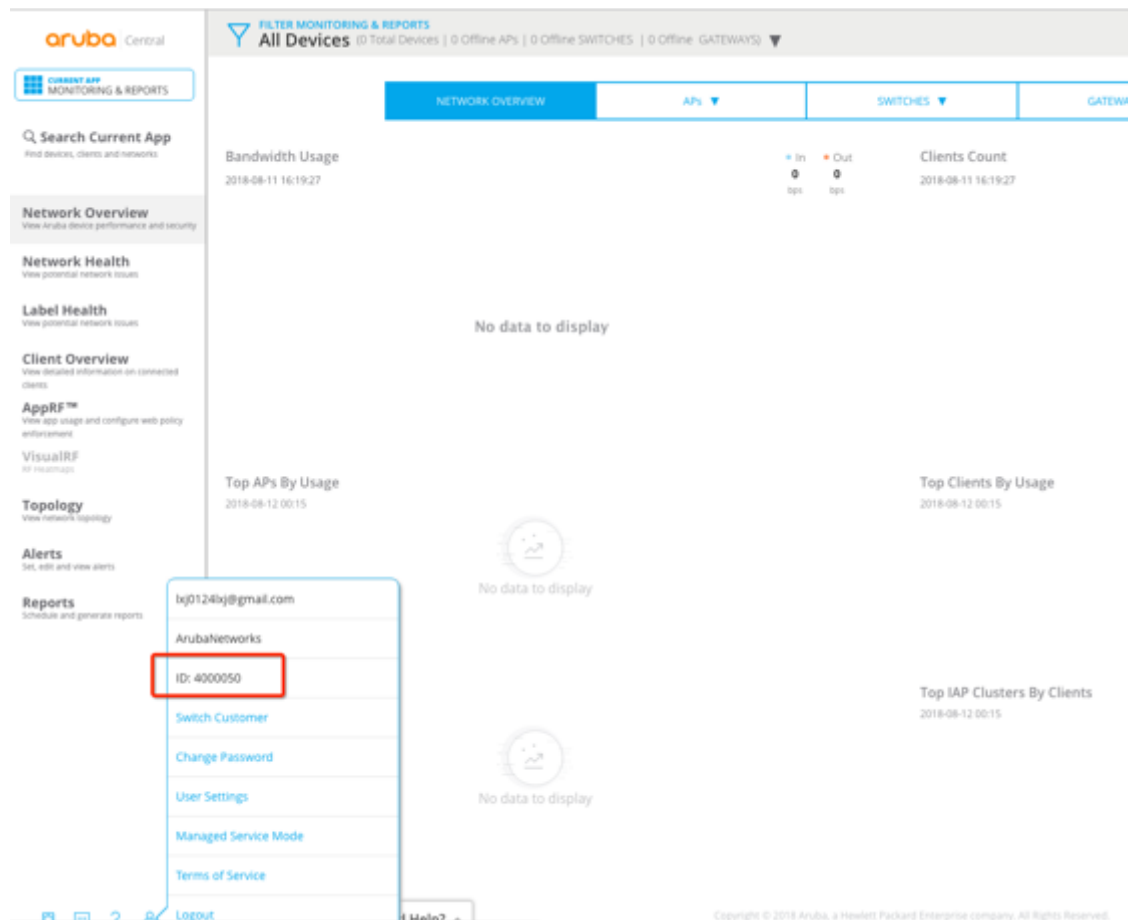
The screenshot shows the full registration form. The fields are: "Email Address:" (test123@gmail.com), "Password:" (empty), "Confirm Password:" (empty), "First Name:" (empty), "Last Name:" (empty), "Company:" (empty), "Address(Line1):" (empty), "Address(Line2):" (empty, labeled "Optional:"), "Country:" (dropdown menu "Select Country"), "State:" (dropdown menu "Select State"), "City:" (empty), "ZIP Code:" (empty), "Dial Code:" (empty), and "Phone Number:" (empty). At the bottom, there is a checkbox for "I agree to the Terms and Conditions" and a blue "Sign Up" button. A blue callout box with a red border is positioned to the right of the password field, containing the following text: "Your password must be at least 7 characters long and satisfy at least two conditions below: 1. At least 1 uppercase letter and 1 lowercase letter. 2. At least 1 special character from this set: ' ! @ \$ % ^ & * () _ + = [] ; : ' " < . > / ? 3. At least 1 number."

账号登录



进行邮箱激活账号

登录后注意自己账号的customer ID是多少，这是识别用户账号的唯一凭证，一个邮箱账号下可添加或共享多个CustomerID



建议用公司邮箱申请专用账号

Aruba
a Hewlett Packard
Enterprise company

NETWORK OVERVIEW

APs

SWT

Bandwidth Usage
2018-08-11 16:19:27

In Out
0 0
bps bps

No data to display

Top APs By Usage
2018-08-12 00:15

No data to display

No data to display

lxj0124lxj@gmail.com

ArubaNetworks

ID: 4000050

Switch Customer

Change Password

User Settings

Managed Service Mode

SELECT ACCOUNT

Please select the account you would like to login to or add a new account.

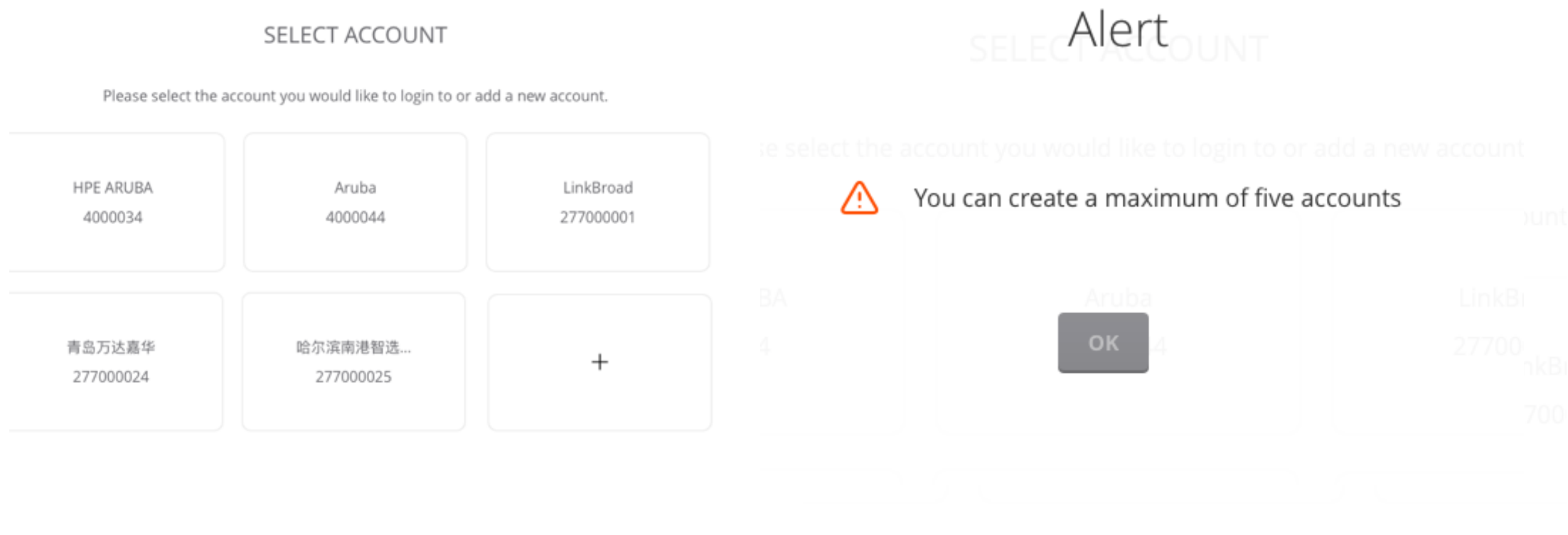
Aruba
4000044

Aruba - 4000044

+

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账号创建的限制



目前一个账号有创建和共享5个customer ID的限制

设备信息在Central平台的添加

三种方式将设备信息同步至Central账号

aruba Central

CURRENT APP GLOBAL SETTINGS

Manage Groups
View, edit and add configuration groups

Device Inventory
View an inventory of all your devices

Key Management
Track all your subscription keys

Subscription Assignment
Assign and modify device and service subscriptions

Labels and Sites
Create and manage labels and sites for monitoring

Users & Roles
Manage user access control to Aruba Central

Certificates
View, edit and add certificates

DEVICE INVENTORY

When you place an order for new devices, those devices will automatically appear in your Aruba Central inventory once the order is processed. If you don't see a purchased device in your inventory, you can manually add it. Aruba Central allows you to add up to 32 devices manually by entering the valid MAC and serial number combination for each device. If you need to add more than 32 devices, you can use the Aruba Cloud Activation Key to do so.

DEVICES

ADD BY MAC/SN

ADD WITH CLOUD ACTIVATION KEY

ADD USING ACTIVATE

Serial #	MAC	Type	IP	Name	Labels	Sites	Model	Group	Status
BX0104810	18:64:72:C6:3E:E2	lap	--	--	0	0	IAP-224-RW	--	Unsubscribed

1 Device(s)

ASSIGN GROUP

1、通过MAC+SN手工输入设备信息

DEVICE INVENTORY

When you place an order for new devices, those devices will automatically appear in your Aruba Central inventory once the order is processed. If you don't see a product, you can manually add it. Aruba Central allows you to add up to 32 devices manually by entering the valid MAC and serial number combination for each device. If you need to add devices manually, click the 'ADD BY MAC/SN' button in the left sidebar.

Cloud Activation

DEVICES

ADD BY MAC/SN

▽ SERIAL #

● BX0104810

ASSIGN GROUP

ADD DEVICES

Central supports adding up to 32 total devices manually.

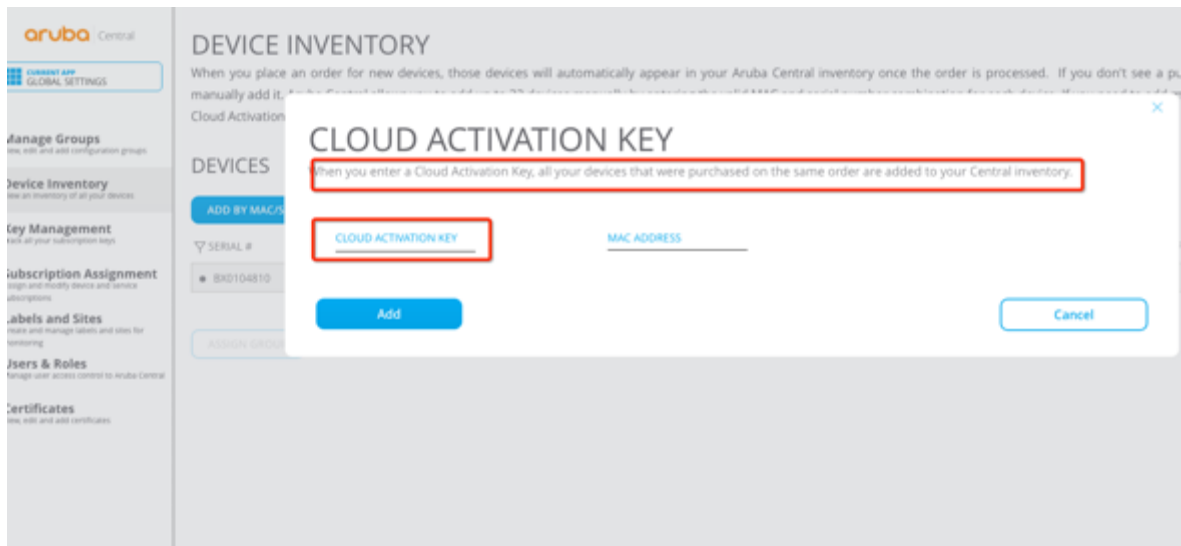
SERIAL NUMBER	MAC ADDRESS
<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>

+ 5 more rows

OK

手工输入MAC+SN添加设备信息有最大32台设备的限制

2、通过Cloud Activation Key添加



通过Cloud Activation Key添加设备后，同一个订单下的设备会自动同步至Central账号下

Please follow these steps to manually add devices to your Aruba Activate account.

Step 1: Power up your Aruba device and ensure it has internet connectivity.

Step 2: Obtain your Activation ID.

IAP - Log into the Virtual Controller UI and navigate to the Maintenance tab.

MAS - Log into the Console and issue the "show ver" command.

ArubaOSSwitch - Log into the Console and issue the "show activate provision" command.

Controller - Log into the Console and issue the "show activate activation-key" command. Command "activate get-activation-key" fetches the Activation ID if it's not already available. If the box is in factory-default state, the Activation ID is displayed in the auto-provisioning logs on console.

Step 3: Copy the Cloud Activation Key and enter it below along with the MAC address of the Aruba device.

IAP supported versions: 6.2.1.0-3.3.0.3 and above

MAS supported versions: 7.3 and above

ArubaOSSwitch supported versions: 16.02.0012 and above

上图为各类型设备获取Activation Key的方式

3、通过Activate账号添加

<https://activate.arubanetworks.com/registration/>

通过订单号申请Activate账号，Central中添加Active账号后，会自动同步账号中的设备信息

The screenshot shows the Aruba Activate web interface. At the top, there is a 'DEVICE INVENTORY' section with a list of devices including their serial numbers (e.g., CG0013625, SG82G4905N) and a table with columns for Serial, MAC Address, Status, Part, Part Description, Folder, Firmware, Mode, First Seen, AP/Device, and Ship. Below the table is a 'Device Summary' section with statistics for Total Devices (3,536), APs (132), Controllers (151), IAPs (2,374), RPs (510), Switches (68), and Undefined (30). There are also two pie charts: 'Devices by Part Number' and 'Devices by Firmware'.

This screenshot shows the 'ACTIVATE' registration form. It includes a 'DEVICES' section with an 'ADD BY MAC' button and a list of device serial numbers. The main form has fields for 'ACTIVATE USER NAME' and 'PASSWORD', and an 'Add' button.

This screenshot shows the 'Welcome to Aruba Activate' login page. It features the Aruba Networks logo and a login form with fields for 'Username:' and 'Password:'. There is a 'Login' button and links for 'Request a Login' and 'Reset my password'.

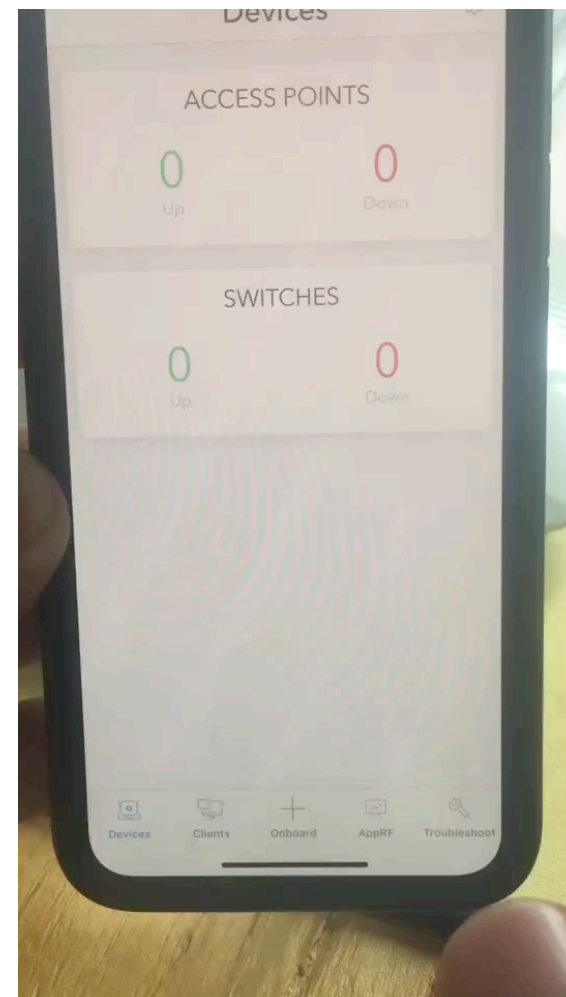
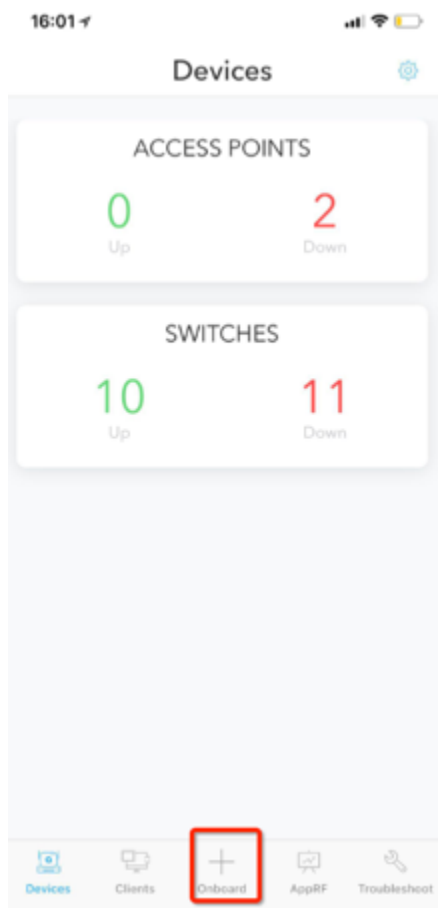
This screenshot shows the 'Aruba Activate Login Request' form. It includes fields for 'User Name:', 'Organization:', 'First Name:', 'Last Name:', and 'Email:'. A red box highlights the 'Organization:' field. Below these fields is a 'Validation:' section with a red box around the instruction: 'Input a valid Serial/MAC combination or Purchase Order Number to Validate Access'. There are also fields for 'Serial Number:' and 'MAC:' (separated by 'OR'), and a 'Purchase Order:' field. The form ends with 'Done' and 'Cancel' buttons.

This screenshot shows the 'Welcome to Aruba Activate' login page, similar to the one above. A red box highlights the 'Request a Login' link at the bottom left of the page.

4、通过Central APP进行注册添加

这种添加方式没有32个设备的数量限制，但只限于苹果终端

观看操作视频



在Central平台对设备进行授权

Central授权的添加

KEY MANAGEMENT
View and manage your subscription keys here. When you order new subscription keys, Aruba sends an email containing the keys to the address listed on the order. If you're lo you can't find it in this list, consult your Aruba reseller.

MANAGE KEYS

KEY NUMBER	TYPE	EXPIRATION DATE	QUANTIT
ETVCY4XFTNA7SJQG	Service	10/20/2018	20
EPDC7NHCOQRKXL7U	Device	10/20/2018	5
EZM5GUS7F2HOSGEK	Device	10/20/2018	5
EA27CHDQUMFAHGEC	Foundation-70XX	10/20/2018	10
EFXRV3T59YFJKXQJ	Foundation-72XX	10/20/2018	2

Add Key → **Enter Your Subscription Key**

Already received the Aruba Central Subscription key?
Enter it below to activate your account!

Activate **Cancel**

0 Assigned Device Subscriptions
0 IAP
0 Switches
10 Available Device Subscriptions

每一个账号默认有10个设备管理授权，20个service授权，10个防火墙管理授权，90天有效期。
正式购买授权通过 Add key添加

正式购买的授权会通过邮箱发送



License Entitlement Certificate

Please **keep this document** for future reference and as proof of your License To Use.

Certificate Issue Date:
15-May-18

Aruba Central Device Sub
E-STU

To activate your subscription key, go to:

New Aruba Central Customers:
https://portal.central.arubanetworks.com/global_signup/v1/signup

Existing Aruba Central Customers:
<http://portal.central.arubanetworks.com/>

Product Number: [REDACTED]



Subscription Key

[REDACTED]YDAG

IMPORTANT:
Please activate your license within
30 days of the Certificate Issue Date

注意需要在收到证书邮件30天之内在Central内激活

设备管理DM License的两种授权方式（自动授权和手动授权）

自动授权采用先到先得的机制，先上线的设备自动先获取授权

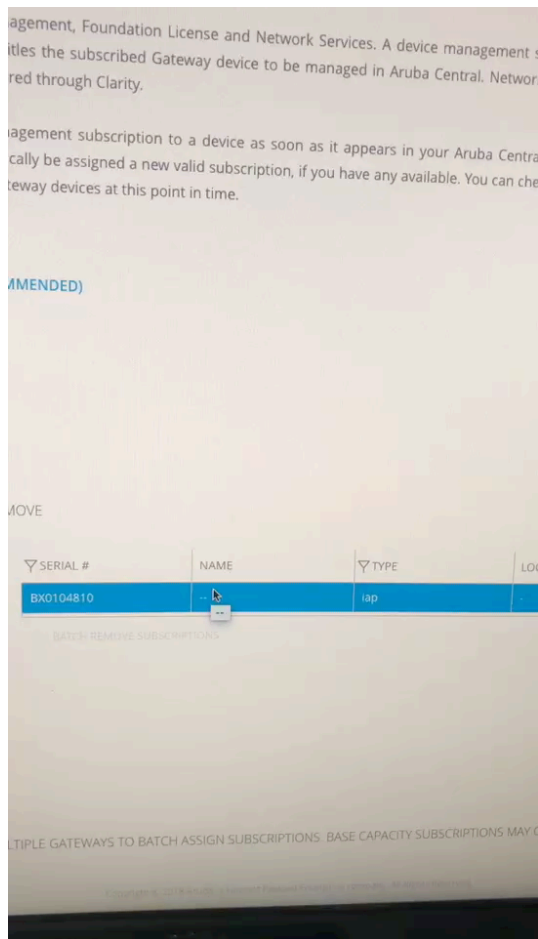
手动授权可自定义选择需要授权或者解除授权的设备

The screenshot shows the Aruba Central interface. On the left is a navigation menu with items: Manage Groups, Device Inventory, Key Management, Subscription Assignment (highlighted with a red box), Labels and Sites, Users & Roles, and Certificates. The main content area is titled 'SUBSCRIPTION ASSIGNMENT' and contains the following text: 'Aruba Central has following types of subscriptions: Device Management, Four Central and enables most functionality. Foundation License entitles the subscri networks, to be included in Presence Analytics, and to be monitored through Cl:'. Below this is a paragraph: 'Selecting Auto-Subscribe will automatically apply a Device Management subsi subscribed device that has an expired subscription will automatically be assigne that Foundation Licenses need to be manually applied to the Gateway devices a'. Underneath is the 'DEVICE SUBSCRIPTIONS' section, which has a red box around it containing a checked checkbox, the text 'AUTO SUBSCRIBE DEVICE SUBSCRIPTION KEYS (RECOMMENDED)', a sub-note 'Keys are applied first come, first serve.', and a 'SELECT DEVICES' button. At the bottom of the main content area is the 'NETWORK SERVICE SUBSCRIPTIONS' section with instructions: 'DRAG AND DROP DEVICE(S) ONTO A SERVICE TO ASSIGN', 'TO SELECT MULTIPLE DEVICES SHIFT+CLICK OR CTRL+CLICK', and 'TO REMOVE MULTIPLE DEVICES FROM A SERVICE, USE BATCH REMOVE'.

The screenshot shows the 'APPLY SUBSCRIPTIONS' dialog box in Aruba Central. The title is 'SUBSCRIPTION ASSIGNMENT' and the subtitle is 'APPLY SUBSCRIPTIONS'. The text reads: 'Aruba Central h Central and ena networks, to be with auto-apply disabled, you'll need to manually select which devices you'll manage in Aruba Central'. Below this is a table with columns: SUBSCRIBED, SERIAL #, MAC, and MODEL. The first row has a checked checkbox, 'YES', 'BX0104810', '18:64:72:C6:3E:E2', and 'IAP-224-RW'. Below the table is the 'DEVICE SU' section with an unchecked checkbox, the text 'AUTO S', and a 'SELECT DEVICES' button. To the right of the 'AUTO S' section is a 'SAVE' button. At the bottom of the dialog is the 'NETWORK SERVICE SUBSCRIPTIONS' section with instructions: 'DRAG AND DROP DEVICE(S) ONTO A SERVICE TO ASSIGN', 'TO SELECT MULTIPLE DEVICES SHIFT+CLICK OR CTRL+CLICK', and 'TO REMOVE MULTIPLE DEVICES FROM A SERVICE, USE BATCH REMOVE'.

业务授权Service license以及防火墙Fnd License的授权方式

可手动选择哪些设备需要Enable哪些业务授权（拖拽操作）



防火墙授权需要手动选择防火墙设备，然后Assign Fnd授权

（注：目前SD-Branch还是由DM授权控制，但后续的版本很快升级后将由Fnd授权控制）

A screenshot of the Aruba Central interface showing the 'Network Service Subscriptions' and 'Gateway Subscriptions' sections. The 'Network Service Subscriptions' section includes a 'SELECT DEVICES' button and a table of subscriptions. The 'Gateway Subscriptions' section includes a 'DEVICE ASSIGNMENT' table.

Network Service Subscriptions

SUBSCRIPTIONS	DEVICES
ALL DEVICES	159
NO SUBSCRIPTIONS	155
Clarity	3
Cloud Guest	1
Presence Analytics	3

20 TOTAL SUBSCRIPTIONS
13 AVAILABLE

SERIAL #	NAME	TYPE	LOCATION	SERVICES
CG0013625	HFESS-GuestGateway-F1...	bob	Hefei, China	0
3GB2G4905N	HFESS-SW08-Core-F1DC	switch	Hefei, China	0
CN82FP48MC	HFESS-SW07-ACCESS-F7	switch	Hefei, China	0
CN82FP48XY	HFESS-SW06-ACCESS-F6	switch	Hefei, China	0
CN82FP48BC	HFESS-SW05-ACCESS-F5	switch	Hefei, China	0
CN82FP48X8	HFESS-SW03-ACCESS-F3	switch	Hefei, China	0
CN82FP4840	HFESS-SW02-ACCESS-F2	switch	Hefei, China	0

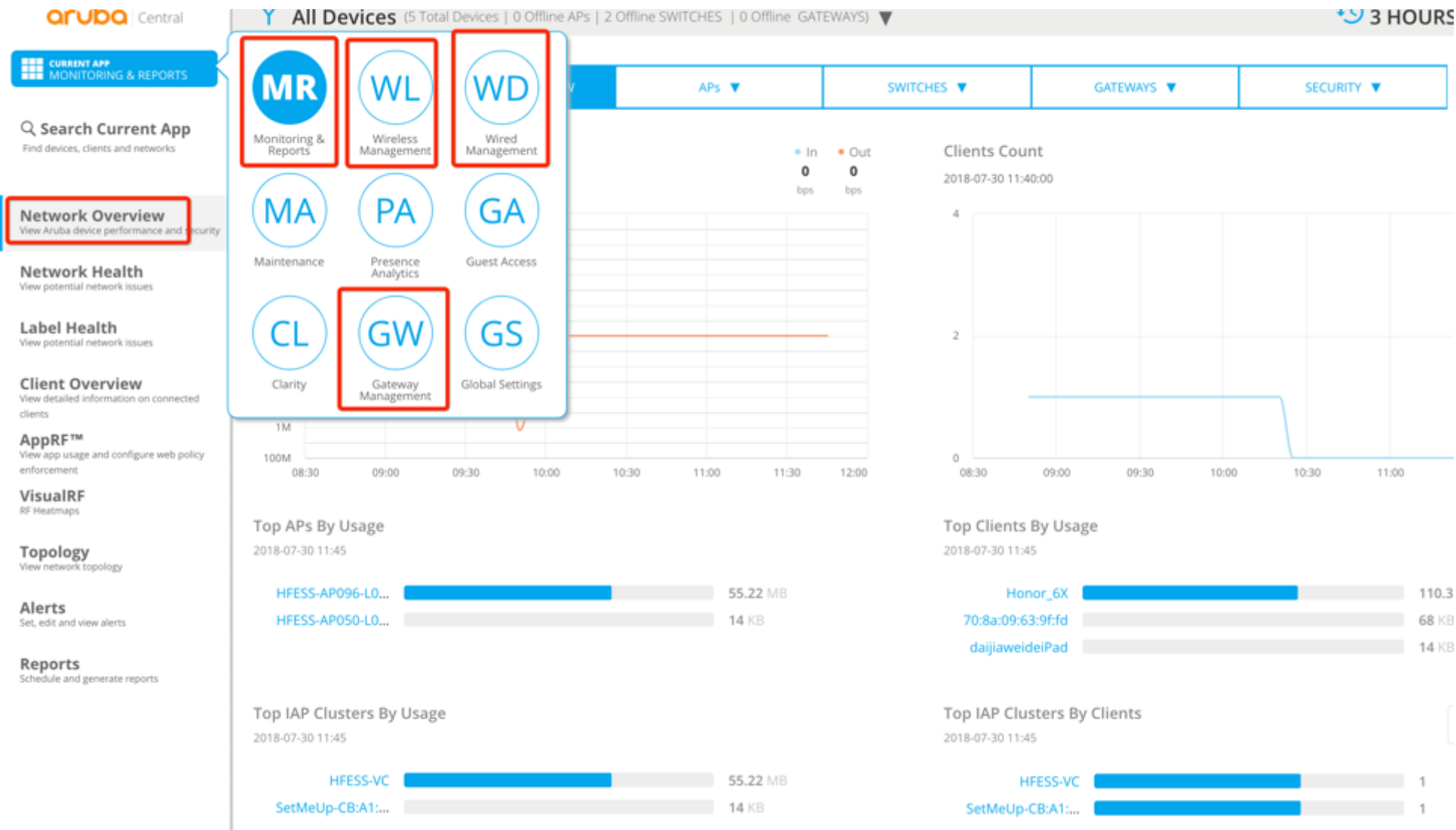
Gateway Subscriptions

ASSIGNMENT	SERIAL NUMBER	MAC ADDR	MODEL	GROUP
UNASSIGNED	CG0013625	00:08:86:DE:7A:80	7010-RW	Anhui Hefei ShuShan HolidayInn
UNASSIGNED	CG0013842	00:08:86:DE:8E:00	7010-RW	

Foundation

防火墙、交换机、AP在Central的上线过程 及配置下发

Central基本操作-Dashboard仪表盘



展示设备状态

整体用户数量

整体带宽使用率

一、SD-Branch如何上云及如何云端配置

- 1、手动将SD-Branch的版本升级至ArubaOS_70xx_8.1.0.0-1.0.0.0_65602
下载地址：链接：<https://pan.baidu.com/s/190UeoaUCwEOyJHUnTgnlIw>
密码：wvid

版本导入后，Write erase all，保证设备默认出厂设置启动

- 2、将SD Branch的设备序列号及Mac地址导入Central
- 3、IHG目前主要用到的防火墙型号为7010和7030，7010最大并发用户2K，7030最大4K

The image shows two screenshots of the Aruba Central web interface. The left screenshot displays the 'DEVICE INVENTORY' page with a table of devices. The right screenshot shows the 'ADD DEVICES' form with input fields for 'SERIAL NUMBER' and 'MAC ADDRESS' highlighted by red boxes.

DEVICE INVENTORY

When you place an order for new devices, those devices will automatically appear in your Aruba Central inventory. If you need to add more than 32 devices, you can use the Aruba Cloud Activation Key to do so.

DEVICES

SERIAL #	MAC	TYPE	IP	NAME	LABELS
● CNF2K2S15X	24:F2:7F:CB:A1:B2	iap	10.14.10.158	HFESS-AP050-L03...	0
● CNF2K2S21R	24:F2:7F:CB:A8:32	iap	10.14.10.157	HFESS-AP096-L06...	0
● CNDGK2S232	44:48:C1:CB:E1:1C	iap	192.168.40.6	44:48:c1:cb:e1:1c	0
● CNDFK2S5TF	44:48:C1:CB:B6:BC	iap	10.64.32.23	test	0
● CU0206278	94:B4:0F:CE:F7:9A	iap	192.168.40.7	94:b4:0f:ce:f7:9a	0
● CN78FP49FR	94:F1:28:4D:75:C0	switch	10.64.32.25	HP-2530-24G-PoEP	0
● CN78HL22V7	F4:03:43:F5:25:C0	switch	--	--	0
● SG71GPT05H	00:FD:45:38:E2:00	switch	10.64.32.15	HP-Switch-5406RzI2	0
● CNF5J5S0YL	24:F2:7F:CB:14:A2	iap	--	--	0
● CG0013842	00:0B:86:DE:8E:00	controller/Gate...	10.14.10.254	HFESS-GW1	0

ADD DEVICES

Central supports adding up to 32 total devices manually.

ADD BY: SERIAL NUMBER, MAC ADDRESS

+ 5 more rows

OK

SD-Branch如何上云及如何云端配置

3、在云端对SD-Branch进行授权

授权有两种模式，自动授权和手动授权，自动授权采用授权先到先得的机制，只要系统里已经添加了license，设备只要一上线，会自动给予授权。手动授权需要手工选择设备进行授权，如图2

The screenshot displays the Aruba Central interface for managing subscriptions. On the left, a sidebar contains navigation options: Manage Groups, Device Inventory, Key Management, Subscription Assignment (highlighted), Labels and Sites, Users & Roles, and Certificates. The main content area is divided into two sections: 'DEVICE SUBSCRIPTIONS' and 'NETWORK SERVICE SUBSCRIPTIONS'. The 'DEVICE SUBSCRIPTIONS' section has a red box around the 'AUTO SUBSCRIBE DEVICE SUBSCRIPTION KEYS (RECOMMENDED)' option, which is checked. Below it, a 'SELECT DEVICES' button is visible. The 'NETWORK SERVICE SUBSCRIPTIONS' section includes a table with columns for SUBSCRIPTIONS and DEVICES. A 'DRAG AND DROP' icon is positioned between the two tables. The 'NETWORK SERVICE SUBSCRIPTIONS' table lists various subscriptions and their associated devices. A 'Subscription Assignment' modal window is open on the right, titled 'APPLY SUBSCRIPTIONS'. It contains a table with columns for SUBSCRIBED, SERIAL #, MAC, and MODEL. A red box highlights the row for SERIAL # CG0013842, MAC 00:0B:86:DE:8E:00, and MODEL 7010-RW, which is selected with a checked checkbox. The modal also features 'SAVE' and 'CANCEL' buttons.

SUBSCRIPTIONS	DEVICES
ALL DEVICES	10
NO SUBSCRIPTION...	9
Clarity	1
Cloud Guest	1
Presence Analytics	1

SERIAL #	NAME	TYPE	LOCATION
CNF2K2515X	HFESS-AP050-L03-R3...	lap	Hefei, China
CNF2K2521R	HFESS-AP096-L06-R6...	lap	Hefei, China
CNDGK25232	44:48:c1:cb:e1:1c	lap	-
CNDFK255TF	test	lap	-
CU0206278	94:b4:0f:ce:f7:9a	lap	-
CN78FP49FR	HP-2530-24G-PoEP	switch	-
CN78HL22V7	--	switch	-
SG71GPT05H	HP-Switch-5406Rz12	switch	-

SUBSCRIBED	SERIAL #	MAC	MODEL	
<input type="checkbox"/>	NO	CNDGK25232	44:48:C1:CB:E1:1C	AP-203H-RW
<input type="checkbox"/>	NO	CNDFK255TF	44:48:C1:CB:B6:BC	AP-203H-RW
<input type="checkbox"/>	NO	CU0206278	94:B4:0F:CE:F7:9A	IAP-103-RW
<input checked="" type="checkbox"/>	YES	CN78FP49FR	94:F1:28:4D:75:C0	2530VA(J9773A)
<input checked="" type="checkbox"/>	YES	CN78HL22V7	F4:03:43:F5:25:C0	2930F(JL261A)
<input checked="" type="checkbox"/>	YES	SG71GPT05H	00:FD:45:38:E2:00	5400R(JL002A)
<input type="checkbox"/>	NO	CNF2K2515X	44:48:C1:CB:E1:1C	AP-203H-RW
<input checked="" type="checkbox"/>	YES	CG0013842	00:0B:86:DE:8E:00	7010-RW

SD-Branch如何上云及如何云端配置

- 4、 上线分两种情况：
动态地址及静态公网IP，如果SD-Branch位于公网出口，连接运营商线路，是分配的动态上网地址，SD-Branch启动后会执行ZTP操作，默认从vlan 4094获取地址，和Aruba Activate以及aruba central通信，最后在central上线

静态公网IP。需要SD-Branch启动后，进入wizard向导模式，手工配置SD-Branch IP地址及掩码网关DNS。
注：SD-Branch必须为出厂设置启动后才可以与Central建议连接，除了Static-Activate外，不可以有任何本地配置。

```
Aruba Networks
ArubaOS Version 8.5.4.7 (build 64352 / label #64352)
Built by p8buildmgr-hip-build07 on 2018-04-21 at 18:55:09 UTC (gcc version 4.4.5)
(c) Copyright 2018 Hewlett Packard Enterprise Development LP.

Welcome to Aruba Networks - Aruba A7918

[05:13:39]:Probing for EEPROM devices [ OK ]
[05:18:00]:Probing for real-time clock [ OK ]
[05:18:00]:Initializing LCD module [ OK ]
[05:18:00]:Uncompressing core image files [ OK ]
[05:18:48]:Extracting cores [ OK ]

[05:18:42]:Enabling watchdog [ OK ]
[05:18:42]:Starting device manager

Performing eMMC Flash fast test... [ DONE ]
[ OK ]
[05:18:43]:Mounting flash [ OK ]
[05:18:44]:Initializing 312MB as swap on zRAM [ OK ]
[05:18:46]:Turning swap ON on zRAM [ OK ]
PoE Firmware [ OK ]
[05:18:32]:Checking system inventory [ OK ]
[05:18:32]:Installing ancillary FS [ OK ]
Performing integrity check on ancillary partition 0 [ OK ]
Running Startup script from /flash [ OK ]

[05:18:54]:Reboot Cause: User reboot (Intenticause:register 78:06:58:00)
[05:18:54]:Starting syslog service [ OK ]
[05:18:56]:Deleting the Databases [ OK ]
[05:18:56]:Restoring the database [ OK ]
[05:17:00]:Generating SSH keys [ OK ]
[05:17:00]:Initializing TPM and certificates [ OK ]
[05:17:25]:Checking for configuration upgrade [ OK ]
[05:17:27]:rcs Done(89 sec)

[05:17:27]:Starting OS services [ OK ]

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): static-activate
Enter Uplink Vlan IP assignment method (static|pppoe): static
Enter Uplink Vlan Static IP address: 36.7.188.30
Enter Uplink Vlan Static IP netmask: 255.255.255.0
Enter IP default gateway: 36.7.188.1
Enter DNS IP address: 202.103.39.2

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):
Operation may not take effect until a reboot

curl: (6) Couldn't resolve host 'device.arubanetworks.com'
Provisioning Parameters not received from Activate, will retry after 30 seconds
curl: (6) Couldn't resolve host 'device.arubanetworks.com'
Provisioning Parameters not received from Activate, will retry after 30 seconds
```

SD-Branch上线后进行云端配置

5、将SD-Branch从默认分组加入我们配置的分组

aruba Central

CURRENT APP GLOBAL SETTINGS

Manage Groups
View, edit and add configuration on groups

Device Inventory
View an inventory of all your devices

Key Management
Track all your subscription keys

Subscription Assignment
Assign and modify device and service subscriptions

Labels and Sites
Create and manage labels and sites for monitoring

Users & Roles
Manage user access control to Aruba Central

Certificates
View, edit and add certificates

GROUPS

A group is the primary configuration element in Aruba Central. Aruba IAPs are automatically organized into clusters, which allows IAPs to work together as a virtual WLAN controller. Group policies will be automatically applied as you add switches and IAP clusters to a group.

MANAGE GROUPS

DRAG AND DROP CLUSTERS AND SWITCHES BETWEEN GROUPS
TO SELECT MULTIPLE DEVICES SHIFT+CLICK OR CTRL+CLICK

GROUP NAME	DEVICES
ALL CONNECTED DEVICES	8
UNASSIGNED DEVICES	1
Anhui-Hefei-ShuShan-HolidayInn	3
default	4
TG template	0

+ New Group 3 Group(s)
Clone Selected Group

NAME	LOCATION	TYPE	SERIAL #	MAC ADDR
HFESS-GW1	,	MC	CG0013842	00:0b:86:de:8e:00
HFESS-VC	Hefei,China	VC	CNF2K2521R	24:f2:7f:cb:a8:32
HP-2530-24G-PoEP	,	HPPC	CN78FP49FR	94:f1:28:4d:75:c0
HP-Switch-5406Rzl2	,	HPPC	SG71GPT05H	00:fd:45:38:e2:00
IHG-InternalCentr...	,	VC	CU0206278	94:b4:0f:ce:f7:9a
SetMeUp-CB:A1:B2	Hefei,China	VC	CNF2K2515X	24:f2:7f:cb:a1:b2
SetMeUp-CB:B6:BC	,	VC	CNDFK255TF	44:48:c1:cb:b6:bc
SetMeUp-CB:E1:1C	,	VC	CNDGK25232	44:48:c1:cb:e1:1c

+ Import Configuration to New Group 8 Device(s)

Central基本操作 – 防火墙管理及云端

1、选择Gateway管理模块

The screenshot shows the Aruba Central interface for Gateway Management. The 'CURRENT APP' is 'GATEWAY MANAGEMENT'. A grid of modules is displayed, with 'GM Gateway Management' highlighted in a red box. Other modules include MR (Monitoring & Reports), WL (Wireless Management), WD (Wired Management), MA (Maintenance), PA (Presence Analytics), GA (Guest Access), CL (Clarity), and GS (Global Settings). Below the grid, there are sections for 'Port Channel' and a table with columns: NAME, MEMBERS, PROTOCOL, and TRUSTED.

2、选择需要配置的分组或防火墙设备，配置可以基于分组也可以基于设备，建议除了hostname和system ip，其它基于分组进行配置

The screenshot shows the Aruba Central interface for Gateway Management, specifically the configuration page for a gateway device. The 'CURRENT APP' is 'GATEWAY MANAGEMENT'. The page displays a table of gateway configurations. The 'GATEWAYS' section is highlighted with a red box, showing a table with columns: NAME, MODE, and NATIVE VL... The table lists several gateway configurations, including 'Anhui-Hefei-ShuShan-HolidayInn | IHG-HeFei-GuestGateway'.

NAME	MODE	NATIVE VL...
access	--	
trunk	1	
GE-0/0/2	access	--
GE-0/0/3	access	--
GE-0/0/4	access	--
GE-0/0/5	access	--

Central基本操作 – 防火墙配置下发（接口、VLAN）

The image shows two side-by-side screenshots of the Aruba Central web interface. The left screenshot displays the configuration page for interface GE-0/0/0, and the right screenshot displays the VLAN configuration page.

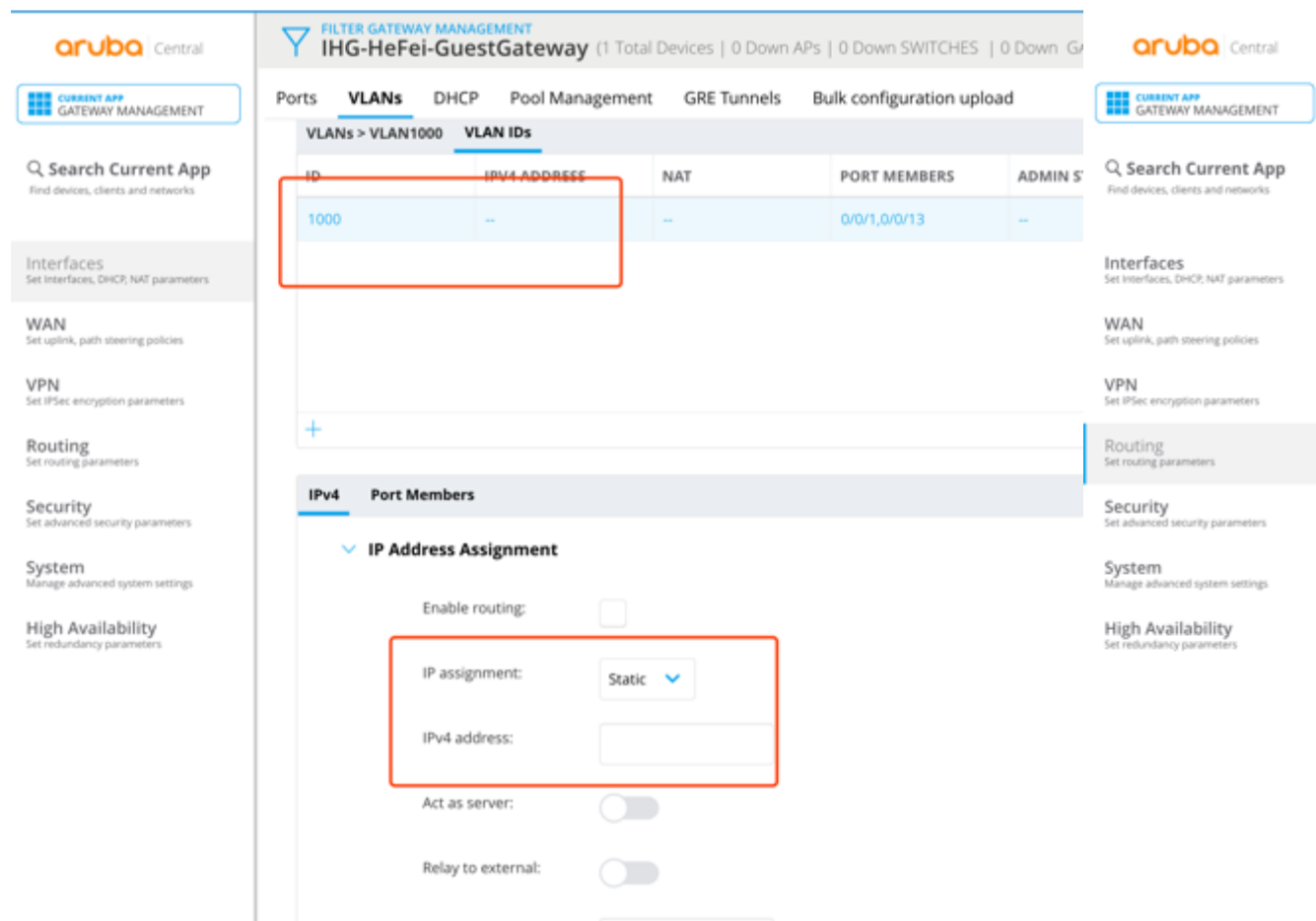
Left Screenshot: Interface Configuration (GE-0/0/0)

- Admin state:
- Speed: auto Mbps
- Duplex: auto
- PoE:
- Trust:
- Policy: Not-defined
- Mode: Access
- VLAN: 4094
- VLAN trust:
- VLAN policy: -None-
- Description: GE0/0/0

Right Screenshot: VLAN Configuration

NAME	ID(S)
VLAN0002	2
VLAN0088	88
VLAN0500	500
VLAN0999	999
VLAN1000	1000
VLAN1001	1001
+	

Central基本操作 – 防火墙配置下发（IP、路由）

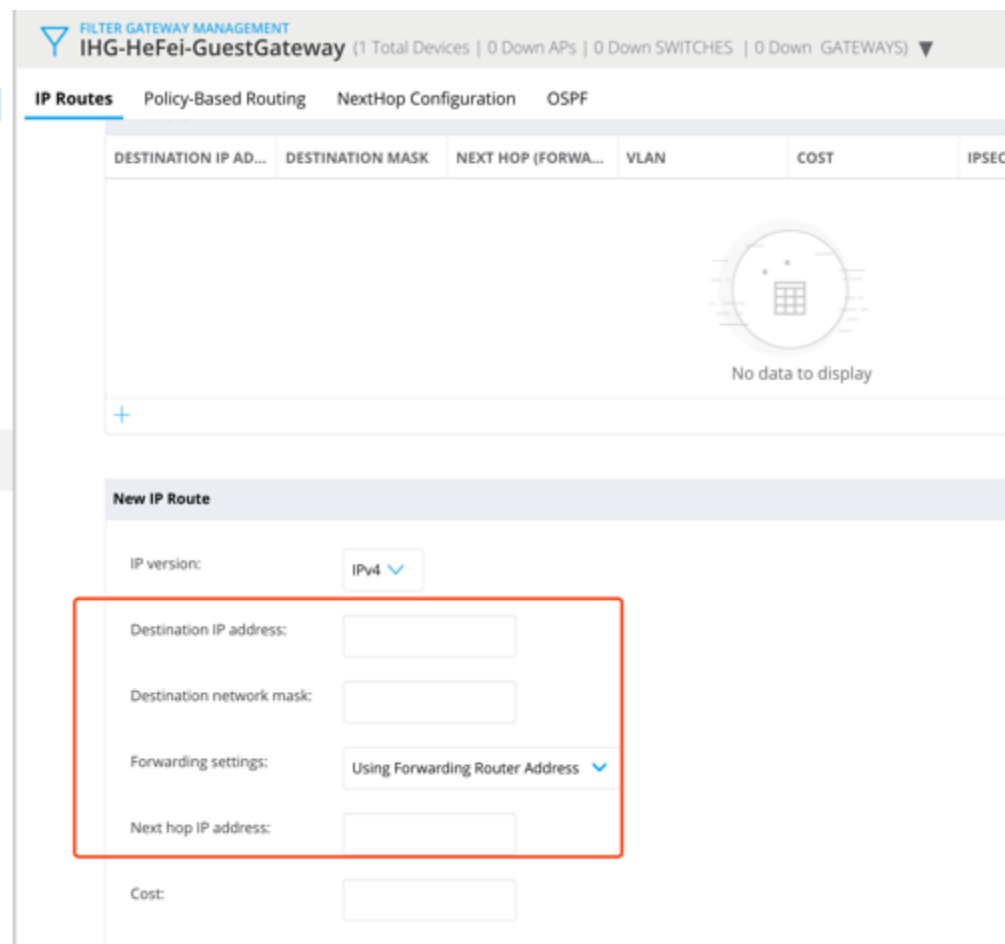


The screenshot shows the Aruba Central interface for configuring a firewall. The main content area is titled "FILTER GATEWAY MANAGEMENT" and "IHG-HeFei-GuestGateway". It features a navigation menu on the left with options like "Ports", "VLANs", "DHCP", "Pool Management", "GRE Tunnels", and "Bulk configuration upload". The "VLANs" section is active, showing a table of "VLAN IDs" for "VLAN1000". A red box highlights the table row with ID 1000. Below the table, the "IP Address Assignment" section is visible, with a red box highlighting the "IP assignment" dropdown set to "Static" and the "IPv4 address" input field.

ID	IPv4 ADDRESS	NAT	PORT MEMBERS	ADMIN S
1000	--	--	0/0/1,0/0/13	--

IP assignment: Static

IPv4 address: [input field]



The screenshot shows the Aruba Central interface for configuring IP routes. The main content area is titled "FILTER GATEWAY MANAGEMENT" and "IHG-HeFei-GuestGateway". It features a navigation menu on the left with options like "IP Routes", "Policy-Based Routing", "NextHop Configuration", and "OSPF". The "IP Routes" section is active, showing a table of routes. A red box highlights the "New IP Route" form, which includes fields for "Destination IP address", "Destination network mask", "Forwarding settings" (set to "Using Forwarding Router Address"), "Next hop IP address", and "Cost".

DESTINATION IP AD...	DESTINATION MASK	NEXT HOP (FORWA...	VLAN	COST	IPSEC I
No data to display					

IP version: IPv4

Destination IP address: [input field]

Destination network mask: [input field]

Forwarding settings: Using Forwarding Router Address

Next hop IP address: [input field]

Cost: [input field]

Central基本操作 – 防火墙配置下发（System IP、主机名、管理员密码）

注：如果防火墙是通过ZTP进行Provision，必须先配置System IP，其它配置才可以下发，否则不生效

The image displays two screenshots of the Aruba Central web interface for configuring a firewall. The left screenshot shows the 'System IP Address' configuration page, where the 'System IP Address' menu item is highlighted with a red box. A dropdown menu is open, showing three options: 'VLAN 1 172.172.100.254', 'VLAN 2 10.14.10.254', and 'VLAN 4094 36.7.188.30'. The right screenshot shows the 'Basic Info' configuration page, where the 'Hostname', 'Password for user admin', and 'Retype password' fields are highlighted with a red box. The hostname is set to 'IHG-HeFei-GuestGatew'. The country code is 'US'. The password fields contain masked characters.

Aruba Central - Filter Gateway Management
IHG-HeFei-GuestGateway (1 Total Dev)

General Admin Certificates SNMP Log

Basic Info

- Country code: US
- Hostname: IHG-HeFei-GuestGatew
- Password for user admin:
- Retype password:

System IP Address

- MAC address: 00:0b:86:de:7a:80
- IPv4 address: VLAN 1 172.172.100.254
VLAN 2 10.14.10.254
VLAN 4094 36.7.188.30

System
Manage advanced system settings

High Availability
Set redundancy parameters

Central基本操作 – 防火墙配置下发 (DHCP Server)

The screenshot shows the Aruba Central interface for configuring a DHCP server. The left sidebar contains navigation menus for 'Current App Gateway Management', 'Search Current App', 'Interfaces', 'WAN', 'VPN', 'Routing', 'Security', 'System', and 'High Availability'. The main content area is titled 'Add New Pool Configuration' and includes the following fields:

- IP version: IPv4 (dropdown)
- Pool name: (text input)
- Network IP address: (text input)
- Network IP mask: (text input)
- Default routers: (text input)
- DNS servers: (text input)
- Import from: (radio button)
- DHCP/PPPoE: (radio button)
- Domain name: (text input)
- WINS: (text input)
- Import from: (radio button)
- DHCP/PPPoE: (radio button)

On the right side of the configuration area, there are search and navigation options for 'Current App Gateway Management' and 'Search Current App', along with a vertical menu for 'Interfaces', 'WAN', 'VPN', 'Routing', and 'Security'.

The screenshot shows the Aruba Central interface for configuring a DHCP server. The main content area is titled 'DHCP Server' and includes the following options:

- IPv4 DHCP server: (checked dropdown)

Below this, there is a 'Pool Configuration' table with the following data:

IP VERSION	NAME	NETWORK	DEFAULT ROUTER
IPv4	vlan_1	172.172.100.0	172.172.100.254
IPv4	vlan_2	10.14.10.0	10.14.10.254

A plus sign (+) is visible at the bottom left of the table, indicating an option to add a new pool configuration.

二、交换机如何上云及如何云端配置

1、Central上支持的交换机型号及软件版本如图所示，建议升级至最新版本

软件版本可在如下链接下载

链接: https://pan.baidu.com/s/14x6SmrgVrTNn_-GKBW4zbQ

密码: hchd

Switch Platform	Supported Software Versions
Aruba 2930M Switch Series	WC.16.04.0004 or later
Aruba 2920 Switch Series	WB.16.03.0003 or later
Aruba 2930F Switch Series	WC.16.03.003 or later
Aruba 3810 Switch Series	KB.16.03.0003 or later
Aruba 5400R Switch Series	KB.16.04.0008 or later
Aruba 2530 Switch Series	YA/YB.16.04.0008 or later
Aruba 2540 Switch Series	YC.16.03.003 or later
Aruba Mobility Access Switch Series <ul style="list-style-type: none">■ S1500-12P■ S1500-24P■ S2500-24P■ S3500-24T	ArubaOS 7.3.2.6 ArubaOS 7.4.0.3 ArubaOS 7.4.0.4 ArubaOS 7.4.0.5 ArubaOS 7.4.0.6

交换机如何上云及如何云端配置

2、手动导入更新交换机证书

证书文件digi-cert.txt与软件版本均在以下链接

链接: https://pan.baidu.com/s/14x6SmrgVrTNn_-GKBW4zbQ 密码: hchd

证书导入命令

```
(config)# crypto pki ta-profile digi-cert
```

```
(config)# copy tftp ta-certificate digi-cert x.x.x.x digi-cert.txt
```

请注意，目前新下单的交换机不需要导入证书这一步也可直接上线。
不确定的情况下，可以先尝试自动上线，不行的话再导入证书

3、将交换机MAC+SN信息导入Central并进行授权

4、交换机重启, 端口接入Internet, 一段时间后Central上可看到交换机上线

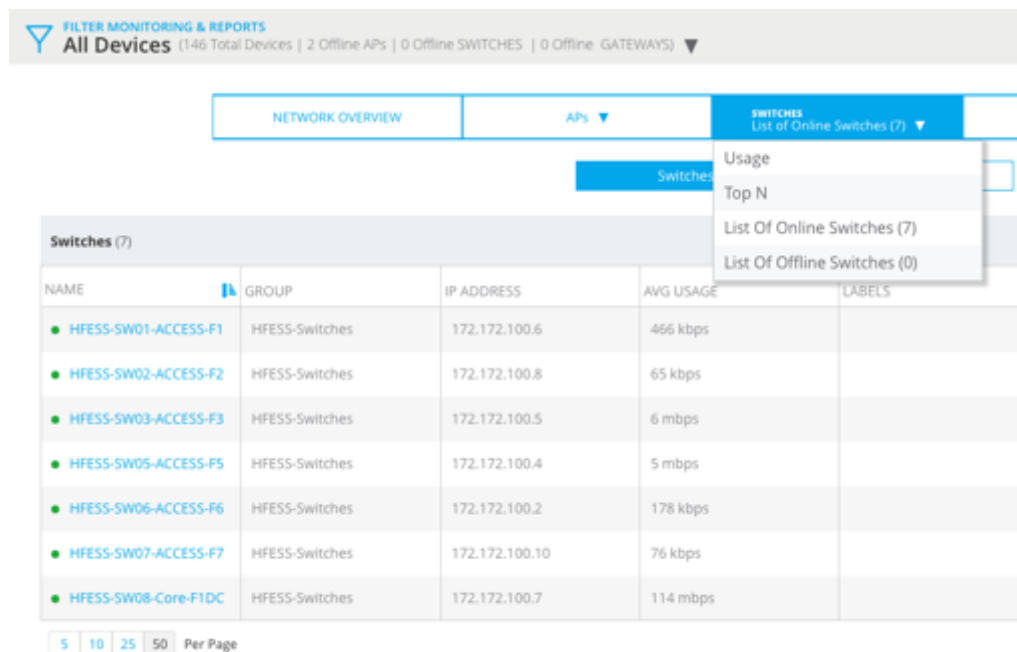
(常用debug 命令)

Show crypto pki ta-profile 查看证书是否导入

Show aruba-central detail查看交换机与central的连接状态

aruba-central disable 关闭交换机连接central的模式, 该模式下允许本地配置

Aruba-central enable 开启交换机连接central的模式, 交换机在central上线后, 不允许本地配置



The screenshot shows the 'All Devices' monitoring page in Aruba Central. The 'SWITCHES' tab is active, displaying a table of 7 online switches. A dropdown menu is open over the 'SWITCHES' tab, showing options: Usage, Top N, List Of Online Switches (7), and List Of Offline Switches (0).

NAME	GROUP	IP ADDRESS	AVG USAGE	LABELS
HFESS-SW01-ACCESS-F1	HFESS-Switches	172.172.100.6	466 kbps	
HFESS-SW02-ACCESS-F2	HFESS-Switches	172.172.100.8	65 kbps	
HFESS-SW03-ACCESS-F3	HFESS-Switches	172.172.100.5	6 mbps	
HFESS-SW05-ACCESS-F5	HFESS-Switches	172.172.100.4	5 mbps	
HFESS-SW06-ACCESS-F6	HFESS-Switches	172.172.100.2	178 kbps	
HFESS-SW07-ACCESS-F7	HFESS-Switches	172.172.100.10	76 kbps	
HFESS-SW08-Core-F1DC	HFESS-Switches	172.172.100.7	114 mbps	

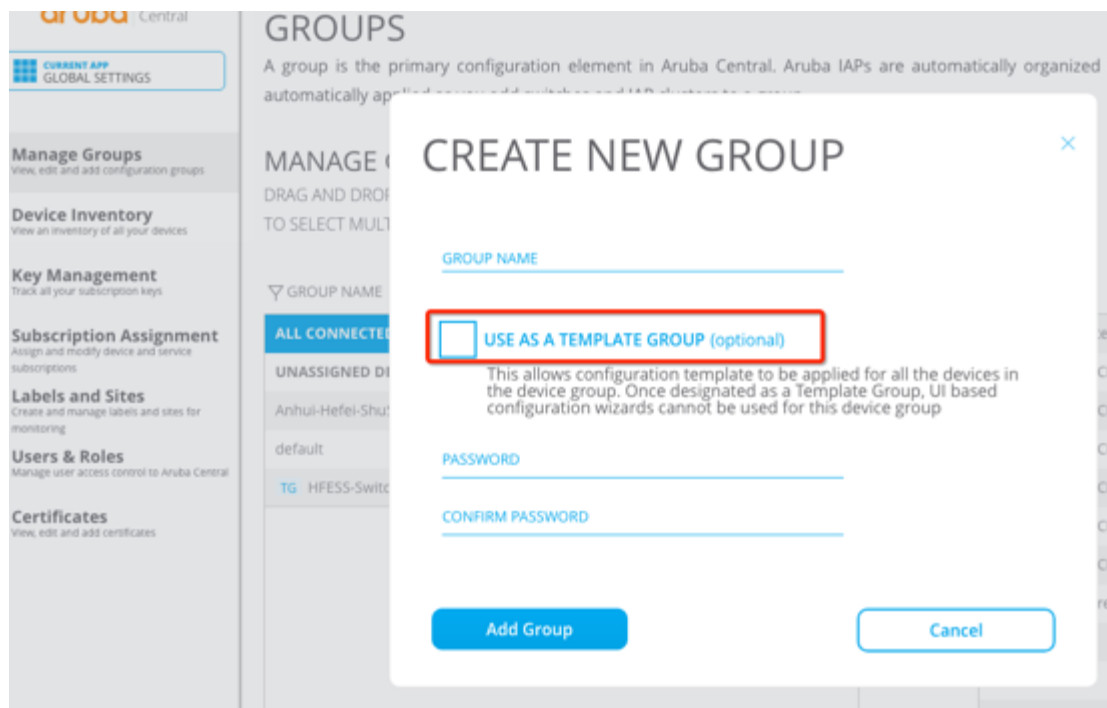
交换机如何上云及如何云端配置

5、交换机上线后，加入预设的配置分组。

此处创建分组时需要注意，Central上有两类分组，UI分组和TG分组（TG即template group模板分组）

UI分组下，所有配置必须基于WEB UI界面进行配置，TG分组下，所有配置必须基于模板进行配置（或者本地命令行配置）

5400核心交换机目前强制必须加入TG分组，不支持UI分组进行配置，因此目前我们将所有交换机都加入一个TG分组进行配置
S1500只支持加入UI组



GROUPS

A group is the primary configuration element in Aruba Central. Aruba IAPs are automatically organized into clusters, which allows IAPs to work automatically applied as you add switches and IAP clusters to a group.

MANAGE GROUPS

DRAG AND DROP CLUSTERS AND SWITCHES BETWEEN GROUPS
TO SELECT MULTIPLE DEVICES SHIFT+CLICK OR CTRL+CLICK

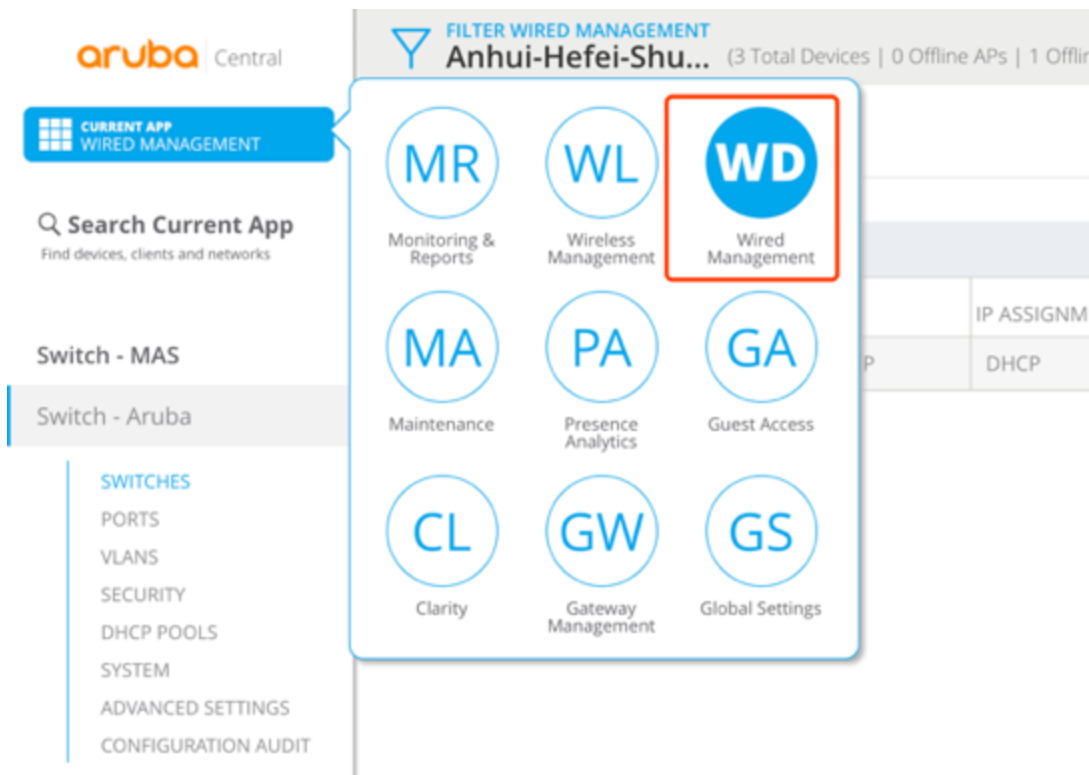
GROUP NAME	DEVICES
ALL CONNECTED DEVICES	146
UNASSIGNED DEVICES	0
Anhui-Hefei-ShuShan-HolidayInn	139
default	0
TG HFESS-Switches	7

NAME	LOCATION	TYPE
HFESS-GuestGateway-...	Hefei,China	MC
HFESS-SW01-ACCESS-F1	Hefei,China	HPPC
HFESS-SW02-ACCESS-F2	Hefei,China	HPPC
HFESS-SW03-ACCESS-F3	Hefei,China	HPPC
HFESS-SW05-ACCESS-F5	Hefei,China	HPPC
HFESS-SW06-ACCESS-F6	Hefei,China	HPPC
HFESS-SW07-ACCESS-F7	Hefei,China	HPPC
HFESS-SW08-Core-F1DC	Hefei,China	HPPC

交换机如何上云及如何云端配置

6、加入配置分组后，交换机本地执行aruba-central disable命令，然后做本地配置。

配置完成后，执行aruba-central enable命令，配置完成后的交换机在central上重新上线



交换机堆叠 (2930F 5406支持VSF)

命令:

Step 1

Add ports to the VSF link

Enable vsf and assign a domain

```
(config)# vsf member 1 link 1 A1
```

```
(config)# vsf enable domain 1
```

Switch will reboot and become “member 1”. Port A1 is added to vsf link 1.

Step 2

Verify 2nd switch is in factory default

Connect 2nd switch to the vsf-port on 1st switch

The 2nd switch will automatically enable VSF and add the connected port to a VSF link

三、AP如何上云及如何云端配置

Central上支持的AP型号及版本

Supported Instant AP Platforms

The current release of Central supports the following Instant AP platforms:

- AP-303H
- AP-203H
- AP-203R/ AP-203RP
- AP-365
- AP-367
- IAP-304/305
- IAP-207
- IAP-334/335
- IAP-314/315
- IAP-324/325
- IAP-277
- IAP-228
- IAP-205H
- IAP-103
- IAP-114/115
- IAP-204
- IAP-205
- IAP-214/215
- IAP-274/275
- IAP-224/225
- RAP-3WNP
- RAP-108/109
- RAP-155/155P
- IAP-175
- IAP-134/135
- IAP-104
- IAP-105
- IAP-92/93

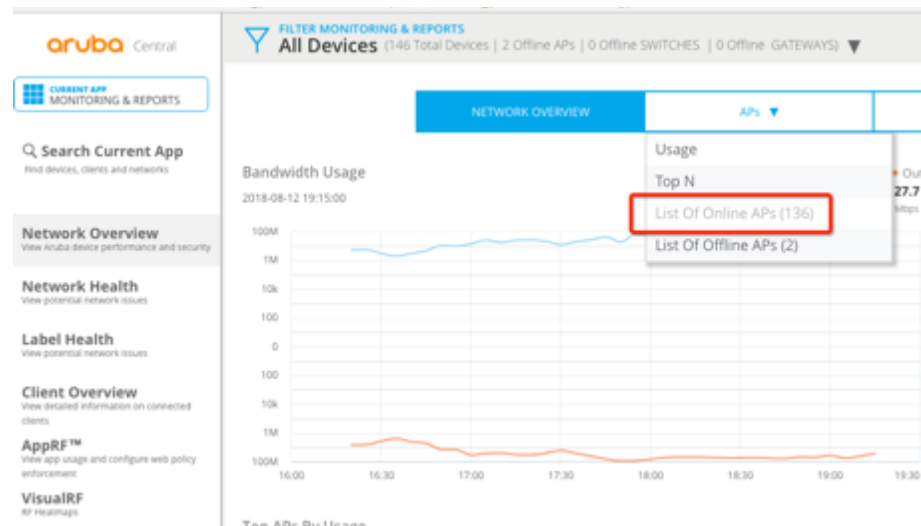
The current release of Central supports only the following Instant AP firmware versions:

- 8.3.0.1
- 8.3.0.0
- 6.5.4.7
- 6.5.4.6
- 6.5.4.5
- 6.5.4.4
- 6.5.4.0
- 6.5.3.7
- 6.5.3.6
- 6.5.3.5
- 6.5.3.4
- 6.5.3.0
- 6.5.2.0
- 6.5.1.5-4.3.1.7
- 6.5.1.0-4.3.1.1
- 6.5.1.0-4.3.1.0
- 6.5.0.0-4.3.0.1
- 6.5.0.0-4.3.0.0
- 6.4.4.8-4.2.4.10
- 6.4.4.8-4.2.4.5
- 6.4.4.8-4.2.4.4
- 6.4.4.6-4.2.4.0
- 6.4.4.4-4.2.3.2
- 6.4.4.4-4.2.3.1
- 6.4.4.4-4.2.3.0
- 6.4.4.3-4.2.2.0
- 6.4.3.4-4.2.1.0
- 6.4.3.1-4.2.0.3
- 6.4.2.3-4.1.2.3
- 6.4.2.0-4.1.1.9 or later

AP如何上云及如何云端配置

(步骤与之前SD Branch及交换机相同)

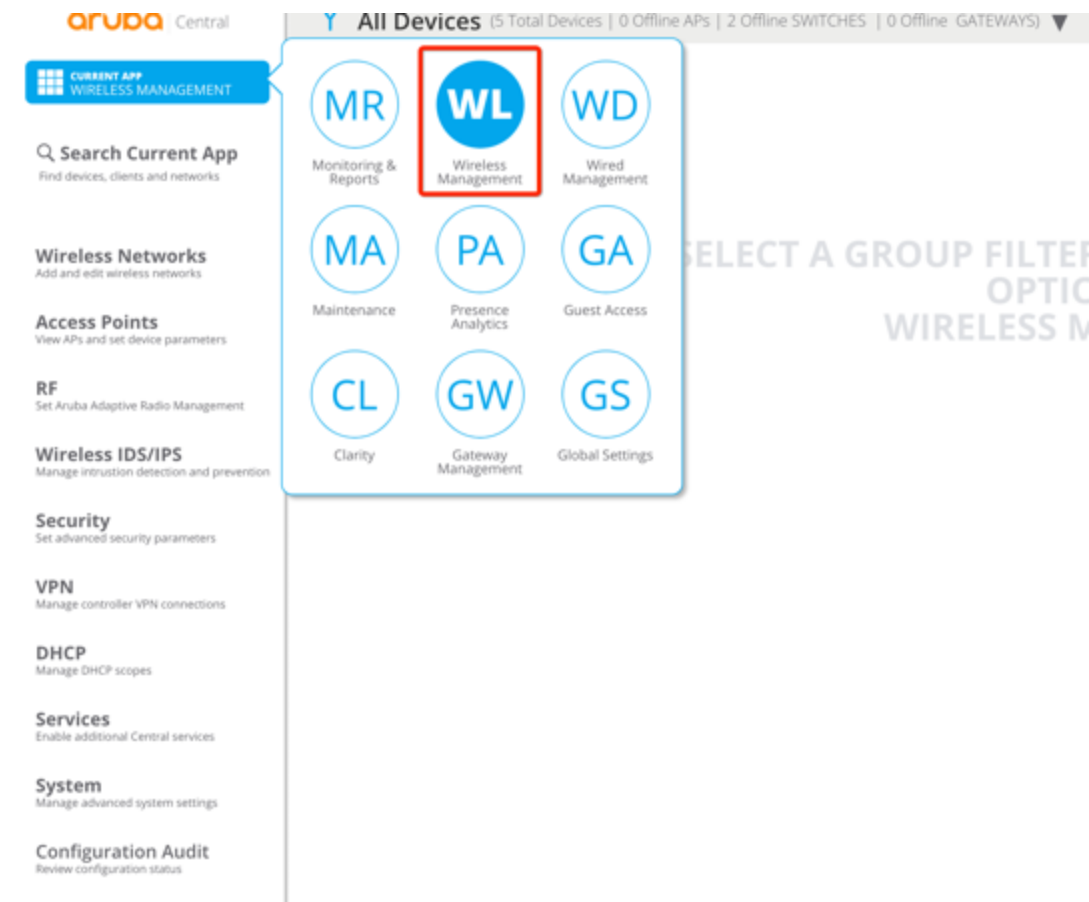
- 1、 将AP信息加入Central
- 2、 将AP进行授权
- 3、 将AP加电，并接入Internet
- 4、 AP在Central上线，将AP加入预设的分组
- 5、 在AP分组中配置国家代码，时区信息。否则AP将不会放出信号



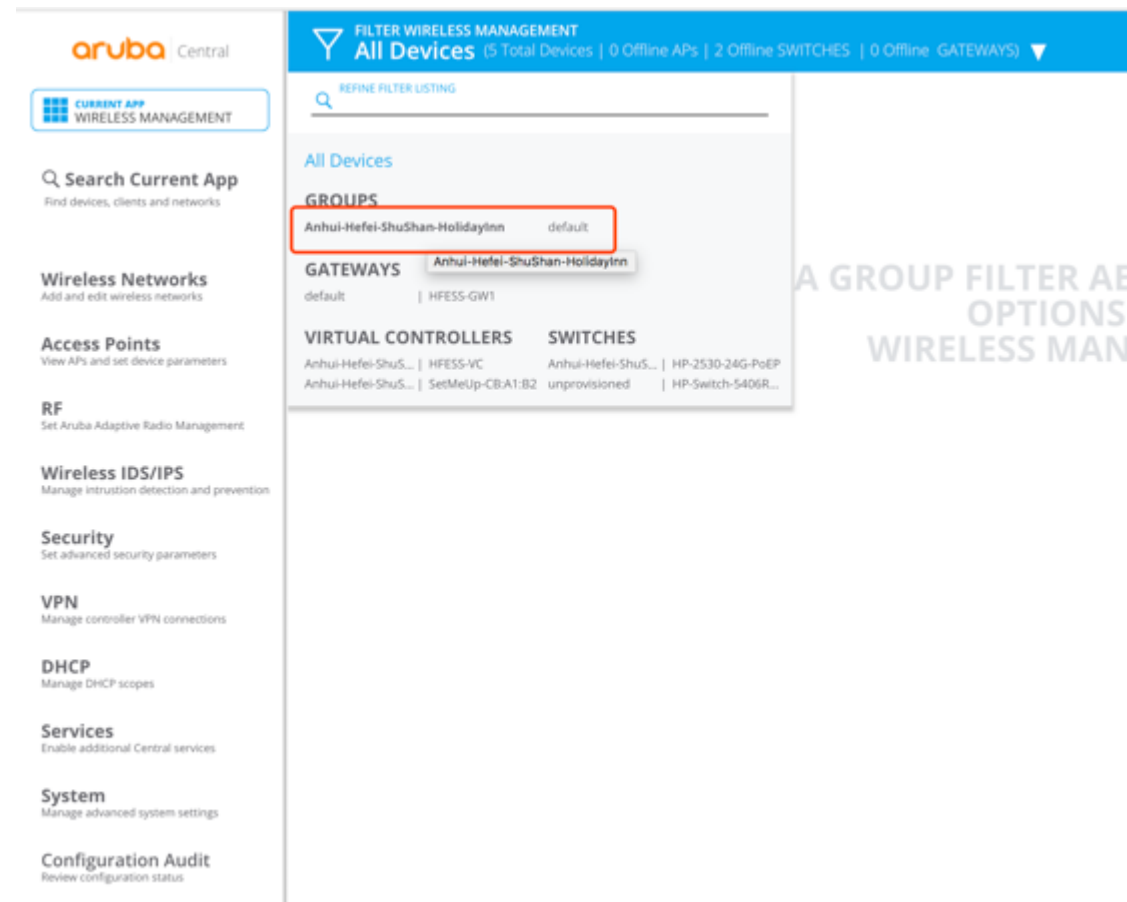
The screenshot shows the 'All Devices' page in Aruba Central, specifically the configuration page for a group. The top navigation bar includes 'aruba Central' and 'FILTER WIRELESS MANAGEMENT Anhui-Mefes-Shu... (139 Total Devices | 2 Offline APs | 3 Offline SWITCHES | 0 Offline GATEWAYS)'. The main content area features a 'GROUPS' section with a dropdown menu for 'All Devices' and a table of 'GROUPS'. The 'GROUPS' table has columns for 'GROUPS', 'IPV6 ADDRESS', and 'COUNTRY CODE'. Below the table, there are configuration options for the group, including 'Set Country code for group' (set to 'CN - China'), 'Timezone' (set to 'Beijing UTC+08'), 'Preferred Band' (set to 'All'), 'NTP Server' (set to 'pool.ntp.org'), 'Virtual Controller Netmask', 'Virtual Controller Gateway', 'Virtual Controller DNS', 'Virtual Controller VLAN', and 'Dynamic CPU Utilization' (set to 'Automatic').

Central基本操作 – 无线管理及云端配置下发

1、选择无线管理模块



2、选择要进行配置的分組（配置可以基于分組，也可以基于设备）



Central基本操作 – 无线管理配置SSID及VLAN等信息

The image displays two screenshots from the Aruba Central management console. The left screenshot shows the 'Create a New Network' wizard, with the 'General' tab selected. The 'Basic Settings' section is highlighted with a red box, containing fields for Name (SSID), ESSID, Type (Wireless/Wired), and Primary Usage (Employee/Guest). The right screenshot shows the 'Networks > Configuration - IHG' page, with the 'VLANs' tab selected. It displays configuration options for Client IP Assignment (Virtual Controller Assigned/Network Assigned) and Client VLAN Assignment (Default/Static/Dynamic). Below these are 'VLAN Assignment Rules' with three entries: 'If AP-Name contains Lobby assign VLAN:1001', 'If AP-Name contains SmartZone assign VLAN:1001', and 'If AP-Name contains Restaurant assign VLAN:1001'. A 'Default VLAN: 1000' is also listed.

Central基本操作 – 无线管理配置AP信息

The image shows a sequence of three screenshots from the Aruba Central web interface, illustrating the process of configuring an Access Point (AP).

Left Screenshot: AP List
The interface shows the 'Access Points' section with a table of devices. The first row is highlighted in blue, and a red box highlights the edit icon (pencil) in the rightmost column of that row.

NAME	VC NAME	STATUS	IP ADDRESS	IP ASSIGNMENT	MODE	TYPE	2.4GHZ (CHAN...)	5GHZ (CHANN...
HFESS-AP050-...	Set MeUp-CB-A1-...	Up	10.14.10.158	DHCP	access	AP-203H	Auto	Auto
HFESS-AP096-...	HFESS-VC	Up	10.14.10.157	DHCP	access	AP-203H	Auto	Auto

Middle Screenshot: AP Configuration - Basic Info
The configuration page for the selected AP (HFESS-AP050-L03-R317) is shown. The 'Name' field is highlighted with a red box and contains the value 'HFESS-AP050-L03-R317'.

Right Screenshot: AP Configuration - Uplink
The 'Uplink' configuration section is shown. The 'Uplink Management VLAN' field is highlighted with a red box and contains the value '2'.

Central基本操作 – 配置AP有线端口

先新建一个有线Profile，203H只需应用在1口即口，303H需要应用在1、2、3口

The image displays four screenshots from the Aruba Central web interface, illustrating the configuration of a wired port profile. The screenshots are arranged in a 2x2 grid.

- Top-Left Screenshot:** Shows the 'Networks' list. A red box highlights a '+' icon, indicating the option to add a new network.
- Top-Right Screenshot:** Shows the 'Basic Settings' for a 'Wired_Port' network. A red box highlights the 'Type' dropdown menu, which is set to 'Employee'. Below it, the 'Port Type Trusted' toggle switch is turned on.
- Bottom-Left Screenshot:** Shows the 'Network Assignment' tab for the 'Wired_Port' network. A red box highlights the 'Access VLAN' field, which is set to '1'.
- Bottom-Right Screenshot:** Shows the 'Network Assignment' tab for the 'Wired_Port' network. A red box highlights the '0/1' port entry, which is assigned to the 'Wired_Port' profile.

Aruba a Hewlett Packard Enterprise company

Central基本操作 – 告警

可查看系统预置告警以及进行自定义告警设置，邮件通知

The screenshot shows the Aruba Central interface for monitoring alerts. The top navigation bar includes 'aruba Central' and 'FILTER MONITORING & REPORTS All Devices (146 Total Devices | 2 Offline APs | 0 Offline SWITCHES | 0 Offline GATEWAYS)'. The left sidebar contains various navigation options like 'CURRENT APP MONITORING & REPORTS', 'Search Current App', 'Network Overview', 'Network Health', 'Label Health', 'Client Overview', 'AppRF™', 'VisualRF', 'Topology', 'Alerts', and 'Reports'. The main content area is titled 'Alerts' and has tabs for 'Open' and 'Acknowledged'. A summary row shows counts for Critical (0), Major (28), Minor (0), and Warning (0). Below this is a list of alerts, including 'Virtual Controller Disconnected' (10), 'Rogue AP Detected' (9), 'AP Disconnected' (4), 'New AP Detected' (2), 'New User Account Added' (2), and 'New Switch Connected' (1). A search bar is available for filtering alerts. The right sidebar contains additional navigation options like 'Network Overview', 'Network Health', 'Label Health', 'Client Overview', 'AppRF™', 'VisualRF', 'Topology', 'Alerts', and 'Reports'.

The screenshot shows the configuration page for an alert rule named 'AP disconnected'. The 'Rule' field is set to 'AP disconnected'. The 'Severity' is set to 'Major', with radio buttons for 'Critical', 'Major', 'Minor', and 'Warning'. The 'Duration' is set to '10 mins'. Under 'Devices Filter Options', the 'Group' is set to 'Anhui-Hefei-ShuShan-HolidayInn', and 'Label' and 'Device' are set to 'Select the Label' and 'Select the Device' respectively. The 'Notification Options' section is highlighted with a red box, showing 'Email' checked and the email address 'lxt@hoye.net.cn;ljun.li@hpe.com' entered. 'Cancel' and 'Save' buttons are at the bottom right.

Central基本操作 – 报表

– 可根据需求自定义报表并邮件定期发送

The image shows two screenshots of the Aruba Central interface. The left screenshot shows the 'REPORTS' configuration page. The right screenshot shows the 'Generated Reports' table.

Left Screenshot: Reports Configuration

Page Title: FILTER MONITORING & REPORTS All Devices (146 Total Devices | 2 Offline APs | 0 Offline SWITCHES | 0 Offline)

Section: REPORTS

Create Report based on: Groups Labels

Device Groups:
- Anhui-Hefei-ShuShan-HolidayInn
- HFESS-Switches

Title: HFESS-NetworkSumms

Report Type: Network

Period: Last day

Schedule: Now Later

Run Report: One Time

Email Report: lijun.li@hpe.com

Right Screenshot: Generated Reports

Page Title: FILTER MONITORING & REPORTS All Devices (146 Total Devices | 2 Offline APs | 0 Offline SWITCHES | 0 Offline GATEWAYS)

Section: REPORTS

Report Type: All

Configured Reports: No data to display

Report Type: Client Session

Generated Reports Selected: 0

TITLE	DATE RUN	SAVED BY	DEVICE GROUP	LABEL/SITE	REPORT TYPE	STATUS	PERIODICITY
HFESS-Client-WeeklyReport	07/31/2018 05:52:04	504904515@qq.com	Anhui-Hefei-Shu...		Client_session	Completed	One Time

Page: 1/1

添加授权用户

The screenshot shows the Aruba Central interface for managing users and roles. A modal window titled 'NEW USER' is open, allowing the creation of a new user. The modal contains the following fields:

- Username:
- Description (optional):
- Role:
- Language:
- Allowed Groups:

Buttons for 'Save' and 'Cancel' are located at the bottom of the modal. In the background, the 'USERS & ROLES' page is visible, showing a list of users and a 'New User' button at the bottom left.

USERNAME	Role	Language	Allowed Groups
504904515@qq.com	-- Select --	-- Select --	All Groups
shidan.yu@hpe.com	-- Select --	-- Select --	All Groups
lxt@hoye.net.cn	-- Select --	-- Select --	All Groups
18621992770@139.com	-- Select --	-- Select --	All Groups
lijun.li@hpe.com	-- Select --	-- Select --	All Groups
ivan.wei@linkbroad.com	-- Select --	-- Select --	All Groups
lhgconnect@dkie.com.cn	-- Select --	-- Select --	All Groups
sam.lu@linkbroad.com	-- Select --	-- Select --	All Groups

设备云端集中版本管理及版本升级

The screenshot displays the Aruba Central interface for managing device firmware. The main heading is "FIRMWARE" under the "All Devices" filter. The "Switch - Aruba" tab is selected, showing a table of devices. The table columns are: HOST NAME, MAC ADDRESS, MODEL, FIRMWARE VERSION, LATEST AVAILABLE ..., FIRMWARE COMPLIANCE, and STATUS. All devices in the table show a status of "Firmware up to date".

HOST NAME	MAC ADDRESS	MODEL	FIRMWARE VERSION	LATEST AVAILABLE ...	FIRMWARE COMPLIANCE	STATUS
HFESS-SW01-ACCES...	04:09:73:08:60:40	HP2530-24G-PoEP SwL...	YA.16.05.0008	16.05.0007	Not Set	✓ Firmware up to date
HFESS-SW02-ACCES...	04:09:73:07:1b:20	HP2530-24G-PoEP SwL...	YA.16.05.0008	16.05.0007	Not Set	✓ Firmware up to date
HFESS-SW03-ACCES...	04:09:73:08:f0:20	HP2530-24G-PoEP SwL...	YA.16.05.0008	16.05.0007	Not Set	✓ Firmware up to date
HFESS-SW05-ACCES...	04:09:73:07:9c:c0	HP2530-24G-PoEP SwL...	YA.16.05.0008	16.05.0007	Not Set	✓ Firmware up to date
HFESS-SW06-ACCES...	04:09:73:08:11:c0	HP2530-24G-PoEP SwL...	YA.16.05.0008	16.05.0007	Not Set	✓ Firmware up to date
HFESS-SW07-ACCES...	04:09:73:07:ce:a0	HP2530-24G-PoEP SwL...	YA.16.05.0008	16.05.0007	Not Set	✓ Firmware up to date
HFESS-SW08-Core-F...	04:09:73:5b:29:00	HPSwitch 5406R2I2j9...	KB.16.05.0007	16.05.0007	Not Set	✓ Firmware up to date

At the bottom right of the interface, there is a red-bordered button labeled "Update All".

THANK YOU