



 H3C WLAN製品ACハンズオントレーニング



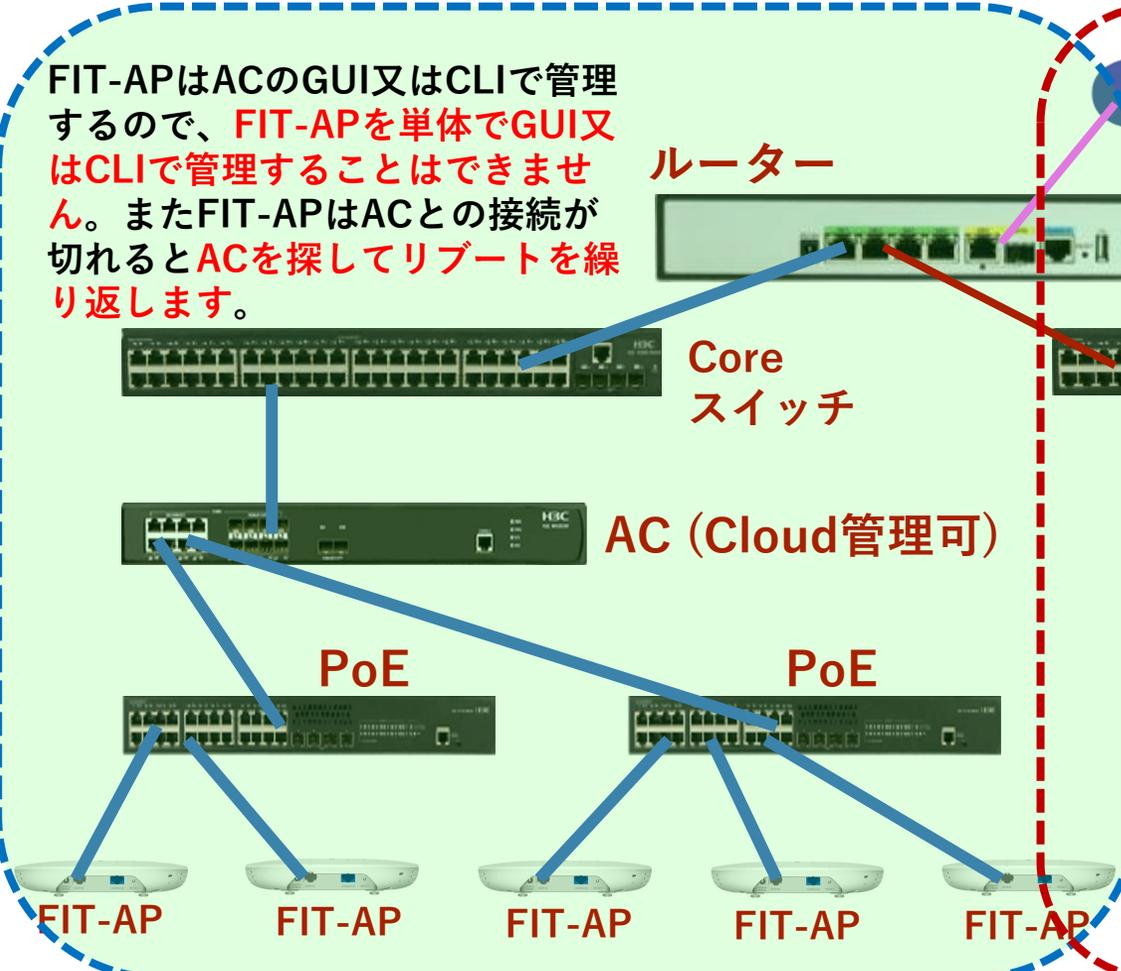
- 01 アクセスポイントをFITに設定する
- 02 ACを設定する
- 03 完成したコンフィグのコマンドでの確認
- 04 エラー情報の取得
- 05 PoEスイッチの設定
- 06 マニュアルについて

# アクセスポイントの動作モードの違い

アクセスポイントの動作モードには **FIT**、 **Cloud**、 **Anchor-ac**の3通りがあります。

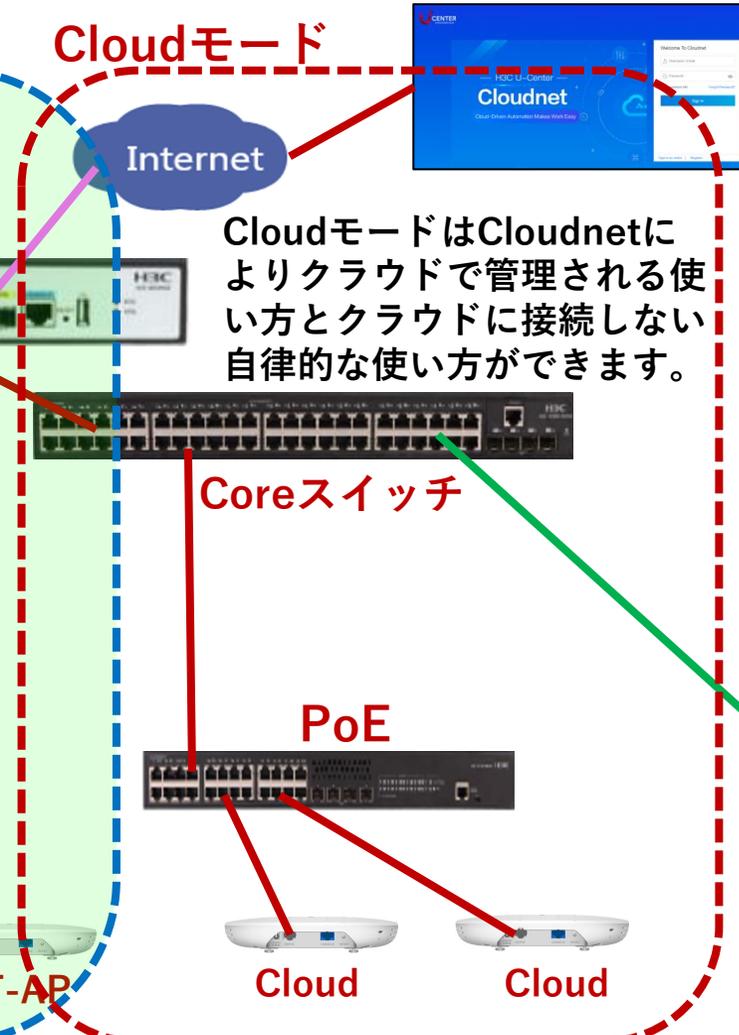
## FITモード

FIT-APはACのGUI又はCLIで管理するので、**FIT-APを単体でGUI又はCLIで管理することはできません**。またFIT-APはACとの接続が切れると**ACを探してリブートを繰り返します**。



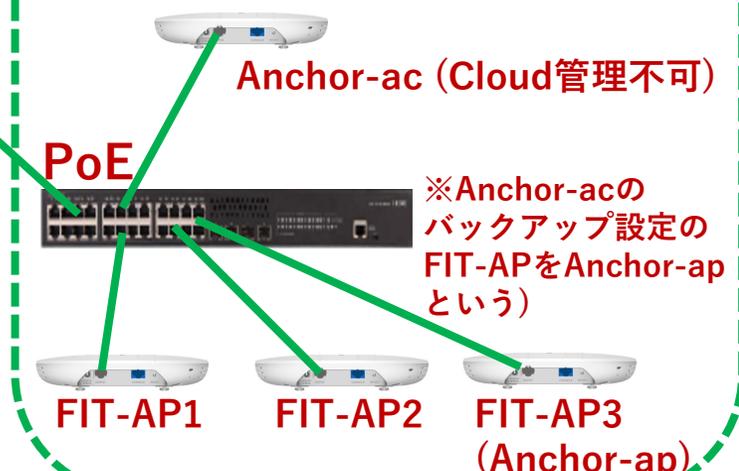
## Cloudモード

CloudモードはCloudnetによりクラウドで管理される使い方とクラウドに接続しない自律的な使い方があります。



## Anchor-acモード

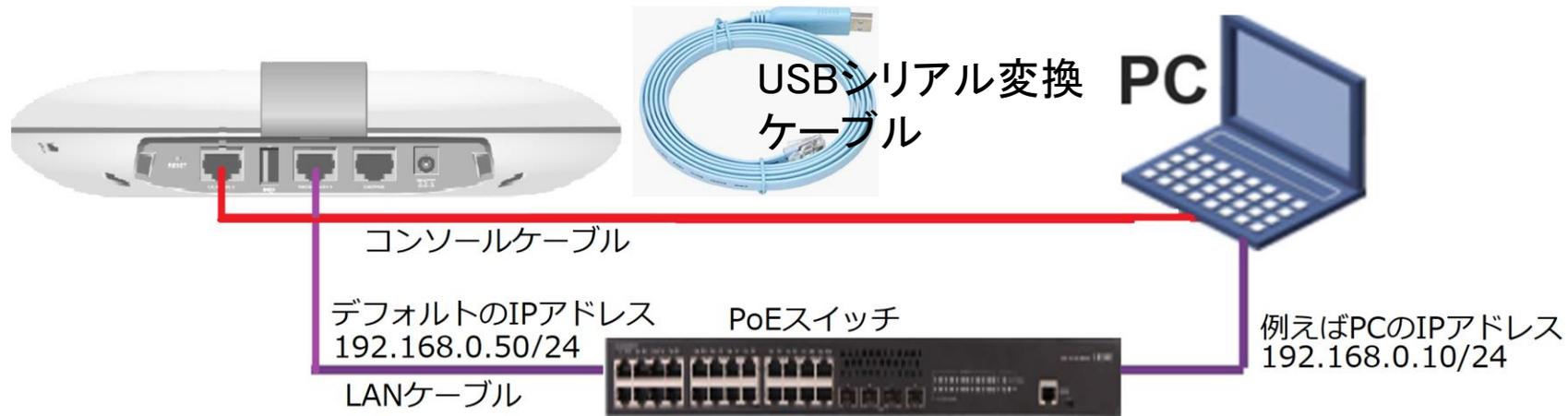
Anchor-ACは簡易的なACの機能を持ち複数のFIT-APを管理することができます。Anchor-ACは複数台設定すると1台がmasterとなり、他のAPはバックアップとしてmasterが正常なうちはAnchor-APとして働き、masterに障害が発生するとAnchor-ACとなります。



※Anchor-acのバックアップ設定のFIT-APをAnchor-apという)

## 動作モード変更はコマンドで行います

- RS-232規格のコンソールケーブルを用意し、図のようにWA6638の左端のRJ-45のジャックに挿入します。使用するボーレートは次ページを参照ください。
- WA6638はDC電源またはPoEスイッチで稼働しますので、PoEスイッチを用意して頂き、PoEスイッチを介してPCのLANポートに接続します。WA6638の真ん中のRJ-45ポートは100M/1G/10Gの自動認識になります。



# アクセスポイントの動作モードのコマンドによる変更

手順： 現在の動作モードの確認 -> 動作モードの変更 -> 変更されたかどうかの確認

# 現在のモードを確認(工場出荷状態ではFITモード)

<H3C> **display wlan device role**

Current running mode: Anchor-ac.

# system-viewにてap-modeコマンドでfitモードに変更

<H3C> **system-view**

System View: return to User View with Ctrl+Z.

[H3C] **ap-mode fit**

Changing working mode will reboot system. Continue? [Y/N]:y

注：APモードには以下の3つのモード  
が選択できます。

**ap-mode { anchor-ac | cloud | fit }**

#モード変更のためにAPは自動的にrebootします。

System is starting...

Press Ctrl+D to access BASIC-BOOTWARE MENU...

Booting Normal Extended BootWare

リブート中メッセージ省略

Image file flash:/wa6600-boot.bin is self-decompressing.....

.....Done.

System image is starting...

Line con0 is available.

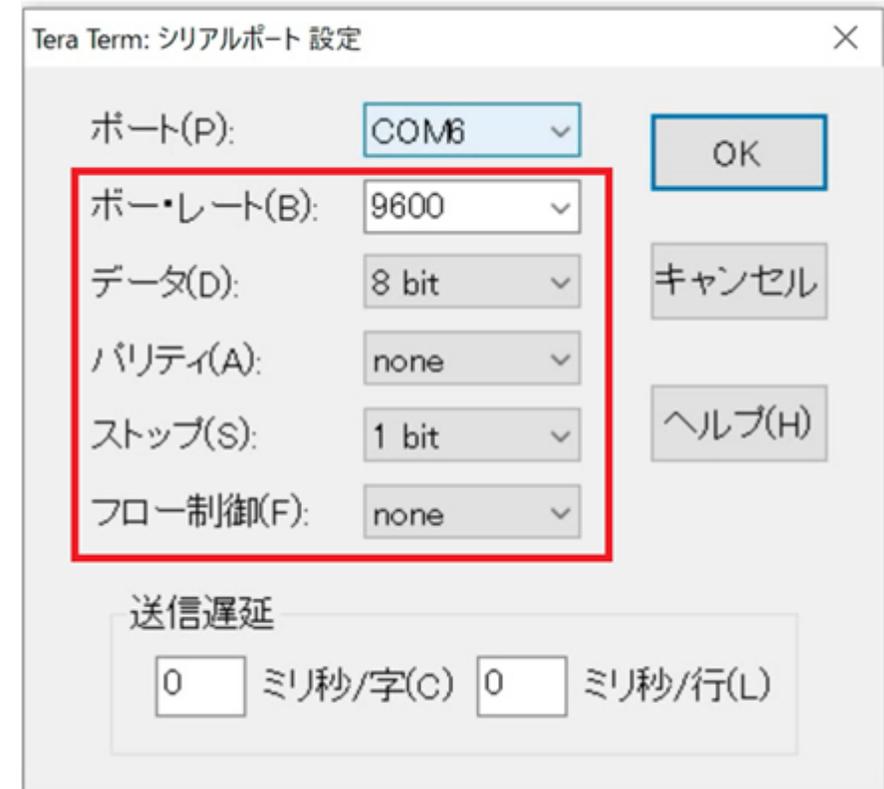
Press ENTER to get started.

# 起動後Cloudモードになったことを確認します。

<H3C> **display wlan device role**

Current running mode: FIT AP.

<H3C> **save force**



コンソール接続の通信設定は、9600ボー、データ8ビット、パリティなし、ストップビット1、フロー制御なし

# アクセスポイントの動作モードのBootWareメニューによる変更

## 1. APをリブートします。出力例を次に示します。

```
System is starting...
Press Ctrl+D to access BASIC-BOOTWARE MENU... Booting Normal
Extended BootWare
The Extended BootWare is self-decompressingDone.
```

```
*****
```

```
*
```

```
*
```

```
*H3C WA6638 BootWare, Version 7.12
```

```
*
```

```
*
```

```
*
```

```
*****
```

```
Copyright (c) 2004-2021 New H3C Technologies Co., Ltd.
```

```
Compiled Date: Jan 28 2021
```

```
CPU L1 Cache: 32KB
```

```
CPU L2 Cache: 256KB
```

```
CPU Clock Speed: 2200MHz Memory Type: DDR3 SDRAM
```

```
Memory Size: 1024MB
```

```
Memory Speed: 933MHz
```

```
Flash Size: 256MB
```

```
PCB Version: Ver.A BootWare Validating...
```

```
Press Ctrl+B to access EXTENDED-BOOTWARE MENU...
```

## 2. プロンプトでCtrl+Bを押して、EXTENDED-BOOTWAREメニューを入力します。

```
Password recovery capability is enabled. Note: The current operating device is flash
```

```
Enter < Storage Device Operation > to select device.
```

```
===== <EXTENDED-BOOTWARE MENU> =====
```

```
|<1> Boot System |
|<2> Enter Serial SubMenu |
|<3> Enter Ethernet SubMenu |
|<4> File Control |
|<5> Restore to Factory Default Configuration 工場出荷時の状態に戻す |
|<6> Skip Current System Configuration |
|<7> BootWare Operation Menu |
|<8> Skip Authentication for Console Login |
|<9> Storage Device Operation |
|<0> Reboot |
```

```
=====
Ctrl+Z: Access EXTENDED ASSISTANT MENU
```

```
Ctrl+F: Format File System
```

```
Ctrl+C: Display Copyright
```

```
Ctrl+Y: Change AP Mode
```

```
Enter your choice(0-9):
```

## 3. Ctrl+Yキーを押してAPモードを変換します。

```
Please select the new mode Current mode is Fit
```

```
=====
|NO.      | Mode |
|1        | Fit Mode |
|2        | Anchor-AC (Virtual AC mode) |
|3        | Cloud Mode |
|0        | Exit |
```

```
=====
```

```
Enter your choice(0-3): 2
```

## 4. モード番号を入力します。



- 01 アクセスポイントをFITに設定する
- 02 ACを設定する
- 03 完成したコンフィグのコマンドでの確認
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## 想定ネットワーク構成(以下は設定例で設定の参考にしてください)

この資料はACの操作をGUIで行うためのものです。

ACの管理はVLAN1を使い、VLAN1にIPアドレス192.168.0.254を管理用IPアドレスと想定しております。

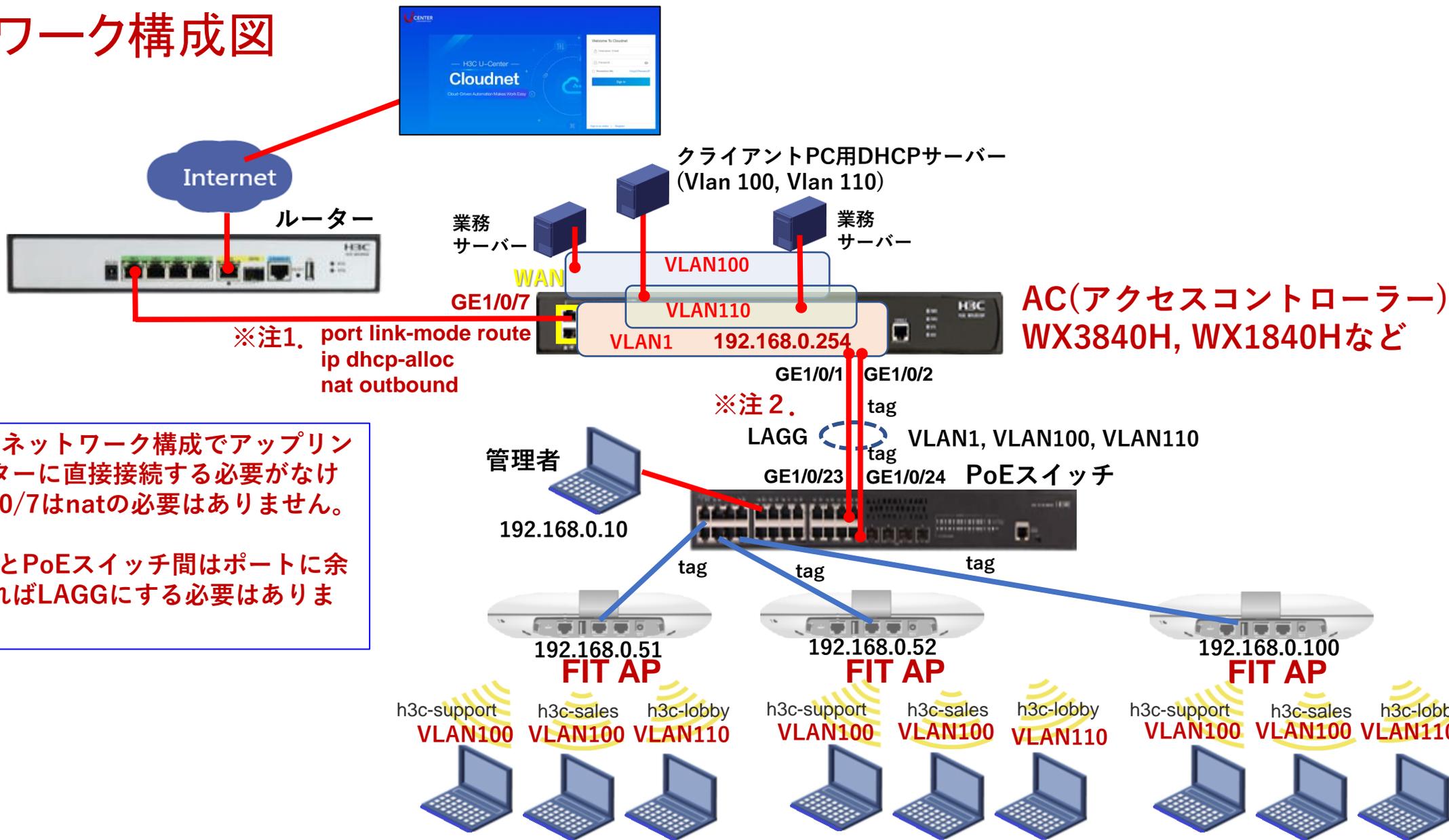
このセグメントにFIT APのIPアドレスが揃うように、ACをDHCPサーバー(最大49AP)として設定します。

このようにFIT APに何も設定せず、工場出荷時の状態でネットワークに接続するだけでACの管理下に入る使い方を**ゼロタッチ設置**と呼びます。また、APが故障した時の交換も同様に**ゼロタッチ交換**、AP全体のバージョンアップはACからの**セントラルバージョンアップ**方式となります。

送出する電波とSSID、パスワード、VLAN、hiddenモードなどは以下の通りとします。

SSID	Password	VLAN	Hidden	Radio
h3c-support	@helpdesk99	100	yes	radio1 5GHz
h3c-sales	@bigsale	100	yes	Radio2 5GHz
h3c-lobby	thankyou	110	no	Raido3 2.4GHz

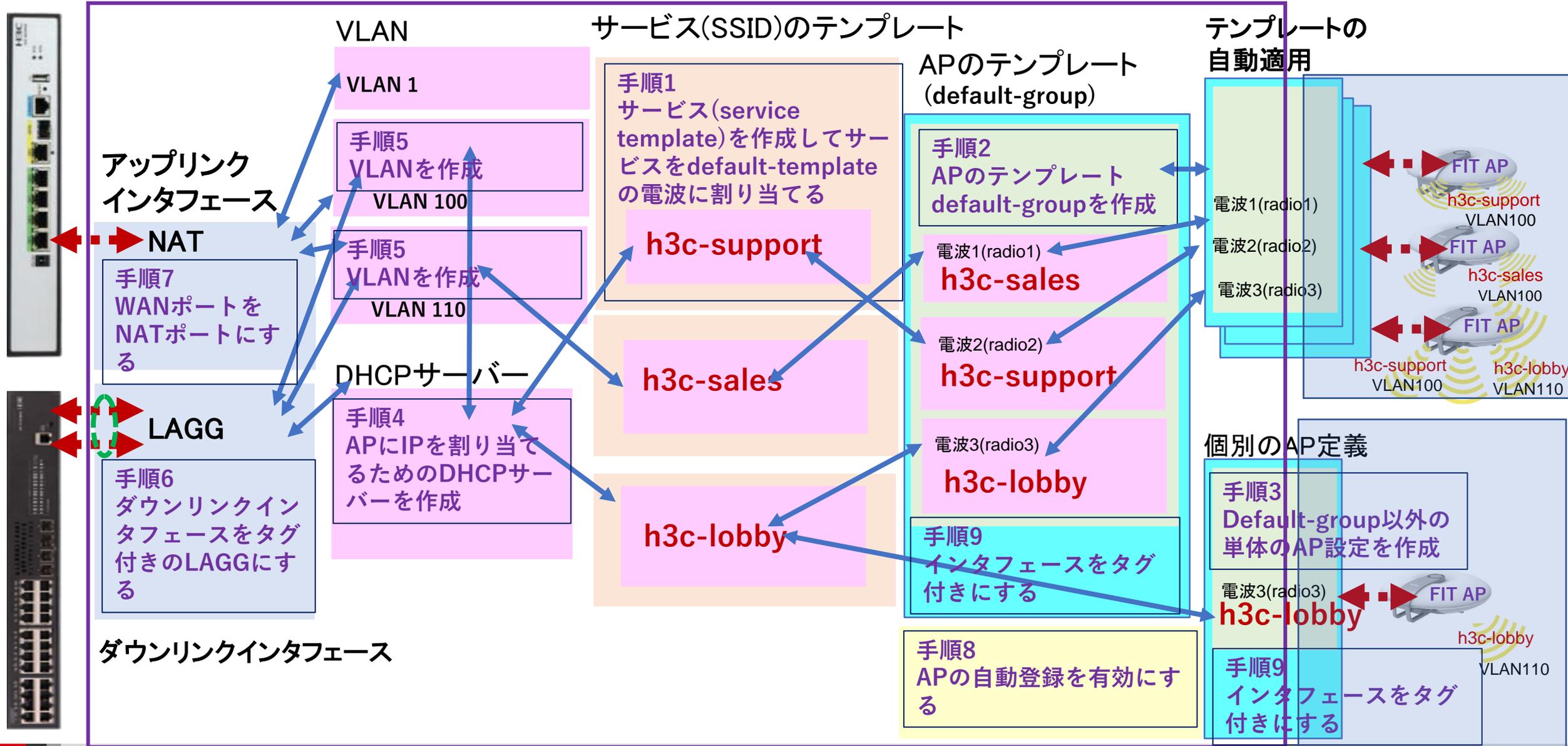
# ネットワーク構成図



注1. このネットワーク構成でアップリンクがルーターに直接接続する必要がなければGE1/0/7はnatの必要はありません。

注2. ACとPoEスイッチ間はポートに余裕がなければLAGGにする必要はありません。

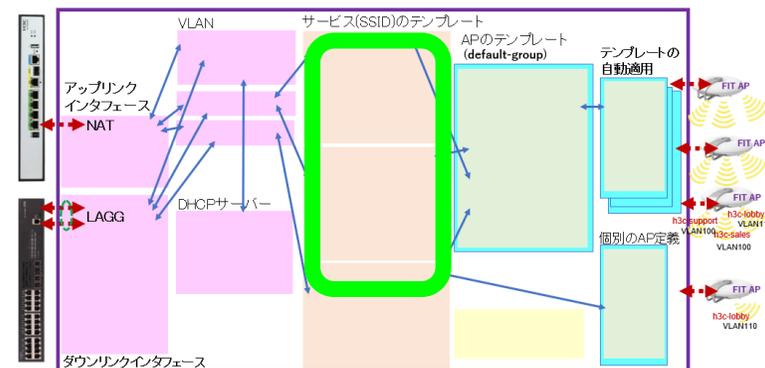
# GUIでの設定手順例



# GUIでの設定手順例

## 手順1：サービス(service-template)を作成する（SSID）

- ・ サービス名
- ・ SSIDの文字列
- ・ サービスを有効にする(service-template enable)
- ・ デフォルトVLAN番号
- ・ SSIDのhidden mode設定(ON/OFF)
- ・ forwarding type(AC経由もしくはローカル)
- ・ 認証タイプ(Open, PSK, 802.1x, MAC, Portal)
- ・ 認証場所(AC, AP)
- ・ セキュリティモード(WPA, WPA2, WPA3(現在はコマンドからのみ))
- ・ 管理フレーム保護(ON/OFF)
- ・ PSK文字列の入力
- ・ SSIDを送出する電波の選択(radio1 5G, radio2 5G, radio3 2.4G)
- ・ サービス(service-template)の有効/無効



# GUIでの設定手順例

**手順2：APのテンプレート(default-group)を作成する**  
ACに接続するAPのタイプ(WA6638-JP, WA6630X-JP, WA6320-JP, WA538-JP)が複数ある場合はそれぞれに関して作成する

例えば：

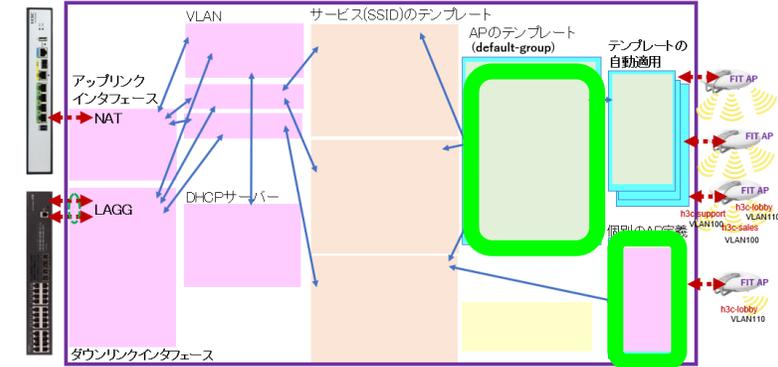
WA6638-JPではradio1(5GHz),radio2(5GHz),radio3(2.4GHz)  
をEnableにします

Radio1: 送信するSSIDはsalesでクライアントが接続するvlanは100

Radio2: 送信するSSIDはsupportでクライアントが接続するvlanは110

Radio3: 送信するSSIDはlobbyでクライアントが接続するvlanは110

**手順3(オプション)：デフォルトグループ以外の設定を持つ単独APの登録**  
無線毎(Radio 1, Radio 2, Radio 3)に送出するSSIDを設定したり、無線ごとに送信レートを限定したりする場合、個別に設定する必要があります。



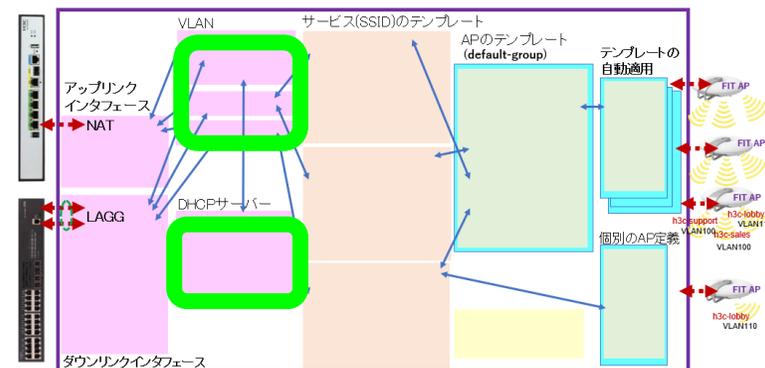
# GUIでの設定手順例(続き)

## 手順4：ACをAPのためのDHCPサーバーとする

- IPプール名： For AP Management
- gateway-list 192.168.0.254
- network 192.168.0.0 mask 255.255.255.0
- address range 192.168.0.51 192.168.0.100

## 手順5：VLANを作成する

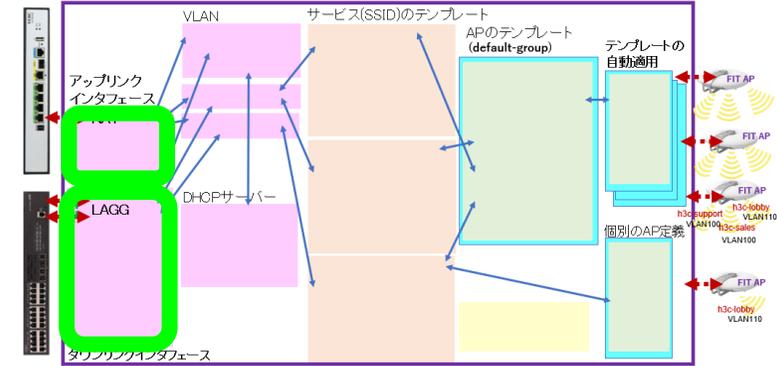
- VLAN番号を設定(vlan 100, vlan 110)
- 必要ならばIPアドレスを設定する



# GUIでの設定手順例(続き)

手順6: ダウンリンクのポートにLAGGの設定をする

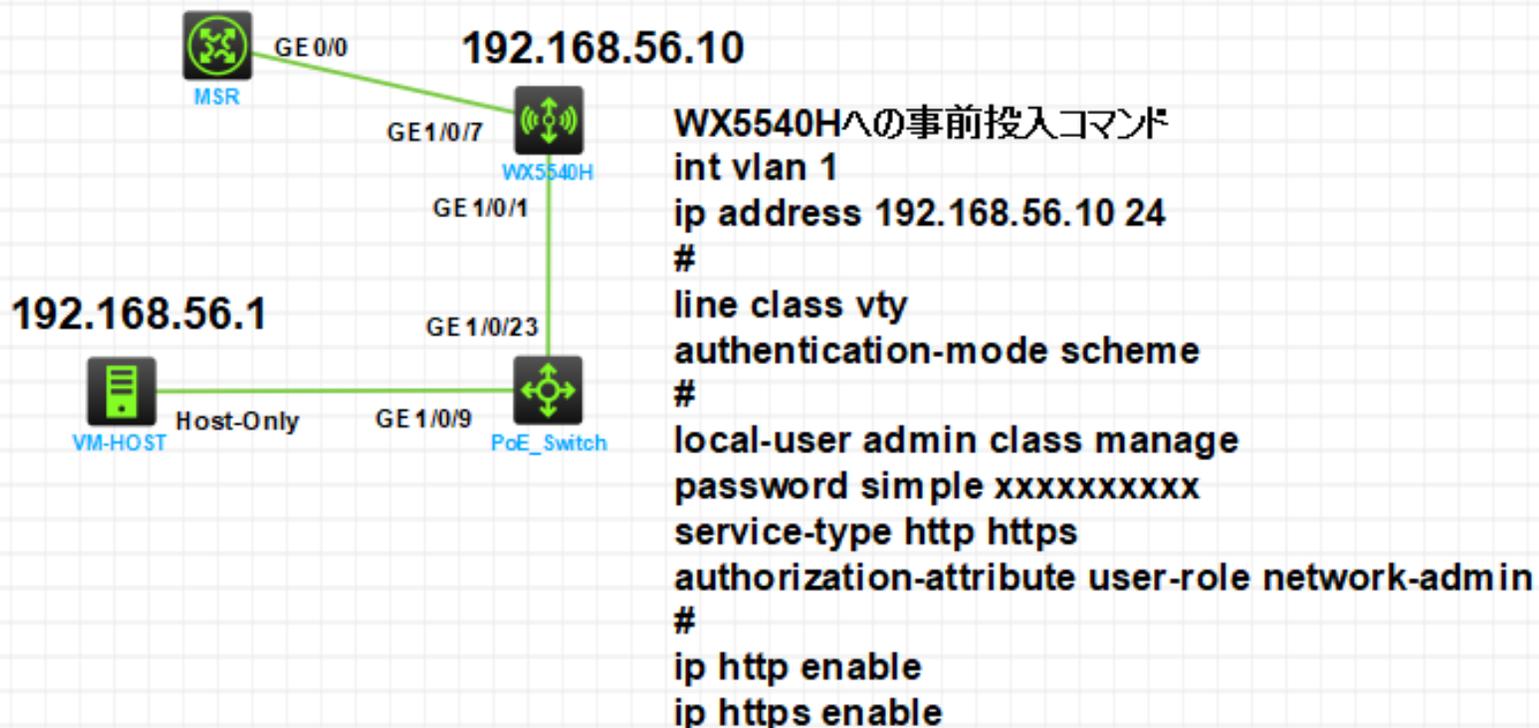
手順7: アップリンクのポートにリンクモードをroute、IPアドレスはDHCP-alloc、nat設定をする





# HCL(H3C製品シミュレーターアプリ)で実習をする場合の準備

## 無線トレーニング



### Topology Summary

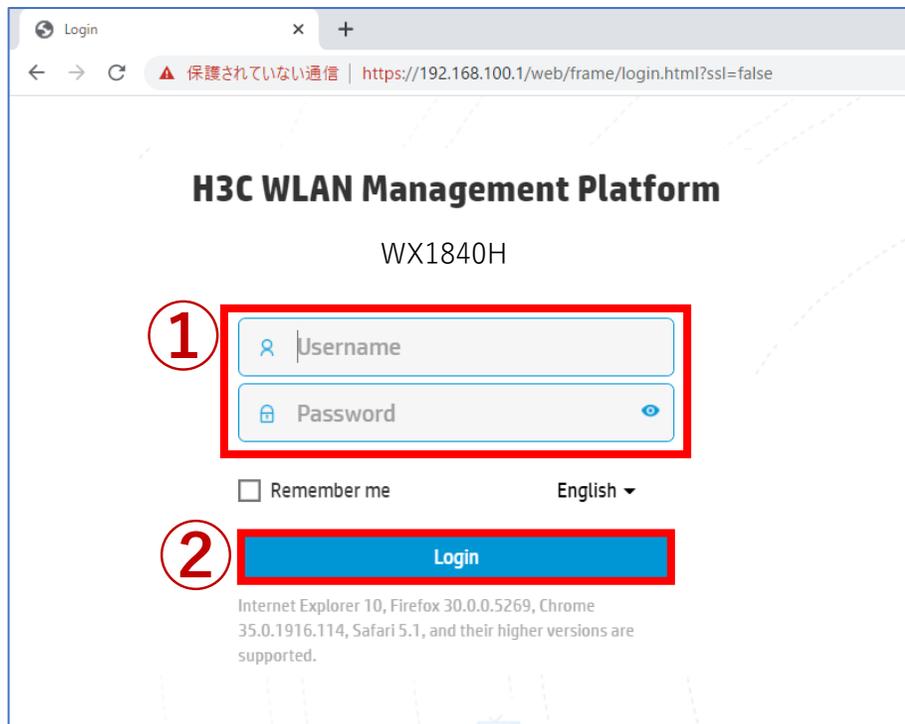
- ▲ ● MSR
  - GE\_0/0 <---> WX5540H GE\_0/7
- ▲ ● PoE\_Switch
  - GE\_0/23 <---> WX5540H GE\_0/1
  - GE\_0/9 <---> VM-HOST NIC:VirtualBox...
- ▲ ● VM-HOST
  - NIC:VirtualBox Host-Only Ethernet Ada...
- ▲ ● WX5540H
  - GE\_0/1 <---> PoE\_Switch GE\_0/23
  - GE\_0/7 <---> MSR GE\_0/0

# ACのGUIにログインする方法

PCのブラウザを起動し以下のURLを入力します。

<http://192.168.0.254/>, シミュレーターの場合<http://192.168.56.10/>

デフォルトのユーザー名: admin、パスワード: admin



1

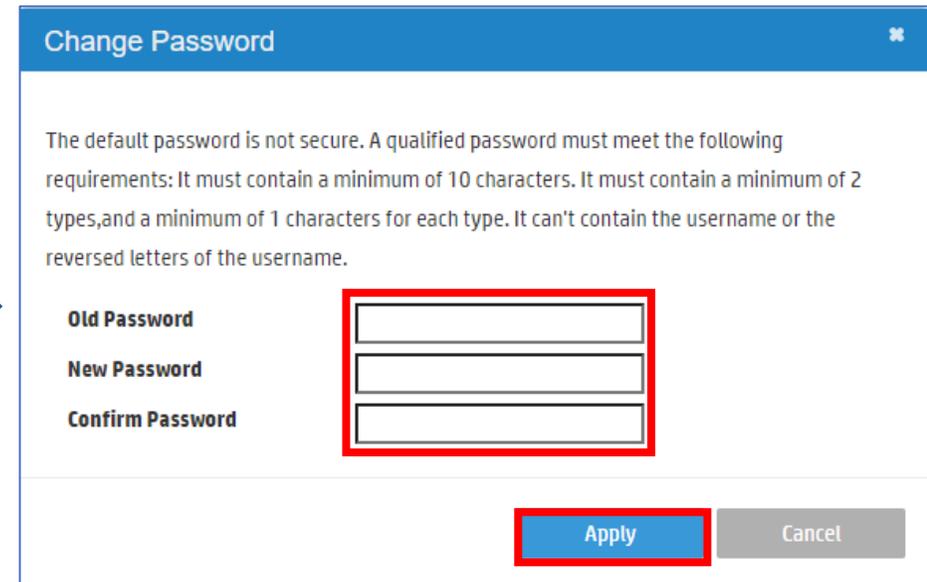
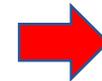
Username

Password

Remember me English ▾

2 Login

Internet Explorer 10, Firefox 30.0.0.5269, Chrome 35.0.1916.114, Safari 5.1, and their higher versions are supported.



Change Password

The default password is not secure. A qualified password must meet the following requirements: It must contain a minimum of 10 characters. It must contain a minimum of 2 types, and a minimum of 1 characters for each type. It can't contain the username or the reversed letters of the username.

Old Password

New Password

Confirm Password

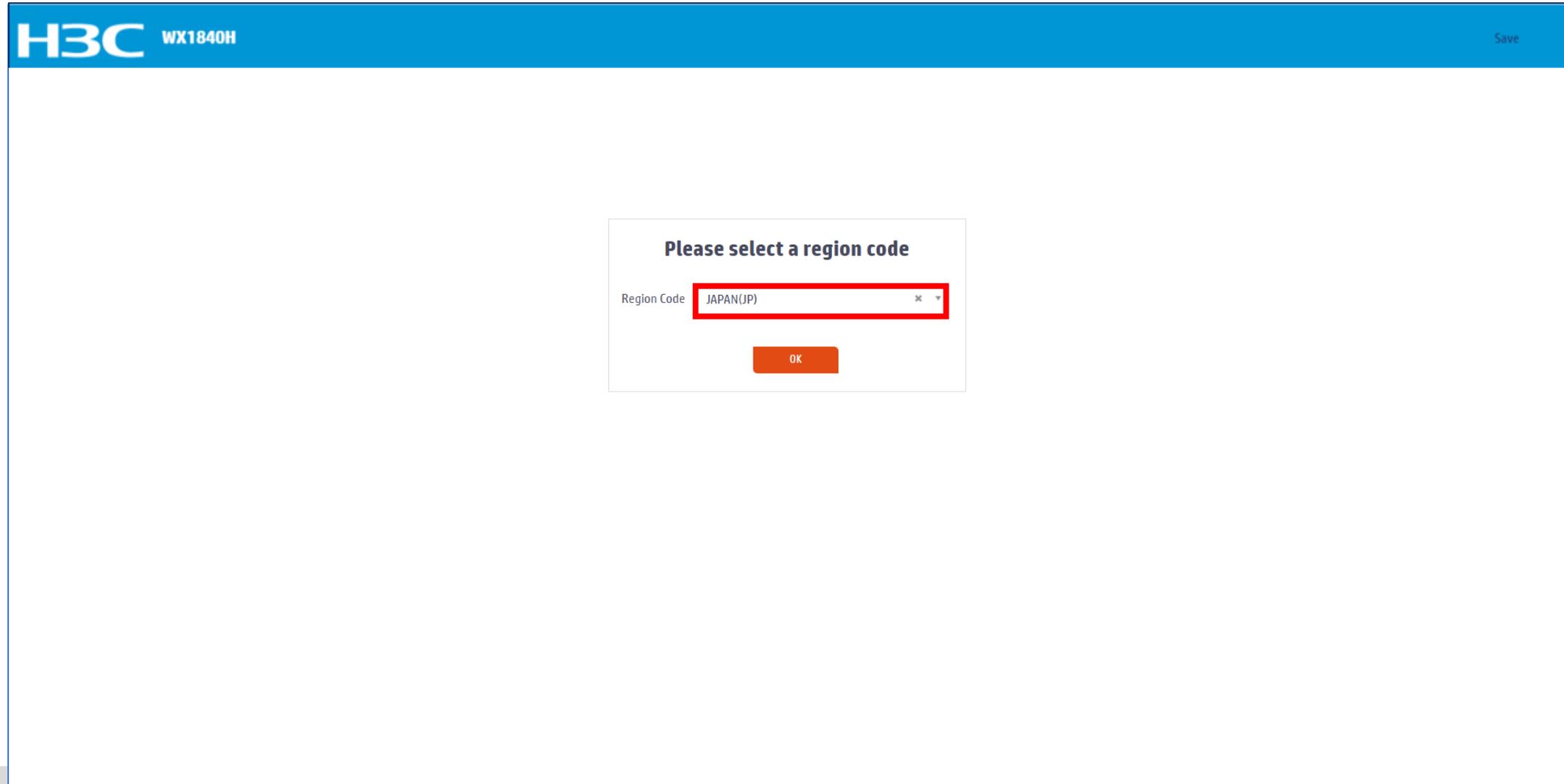
Apply Cancel

パスワードは10文字以上で、英数字記号などの2種類を含み、登録されているユーザー、adminなどの文字を含まないこと。

# ACのGUIにログインする方法

初めてログインした際は、region-codeを設定する必要があります。

※region-codeにより送信する電波の国別の制約に従います。日本はJAPAN(JP)です。



The screenshot shows the H3C WX1840H web interface. At the top left, the H3C logo and model number 'WX1840H' are displayed. At the top right, there is a 'Save' button. The main content area is mostly blank, with a central dialog box titled 'Please select a region code'. This dialog box contains a label 'Region Code' followed by a dropdown menu showing 'JAPAN(JP)'. The dropdown menu has a red border around it. Below the dropdown menu is an orange 'OK' button.

# Region Codeの選択画面が出ない場合

The screenshot displays the H3C WX1840H web management interface. The breadcrumb trail is "All Networks > Wireless Configuration > AP Management > AP Global Settings". The left sidebar contains a menu with "Wireless Configuration" (annotated with 1) and "AP Management" (annotated with 2). The main content area shows "AP Global Settings" (annotated with 3) with a dropdown menu currently displaying "JAPAN(JP)" (annotated with 4). Below the dropdown are "Apply" (annotated with 5) and "Cancel" buttons. The "Basic Settings" section includes "Region code lock" (OFF), "Software upgrade" (ON), "Auto AP" (ON), and "Auto AP conversion" (ON). The bottom status bar shows "Access Points" (0 green, 1 blue, 1 red), "Clients" (0), and "Event Logs" (0 red, 0 blue, 2 yellow, 1 blue, 3 grey).

Annotations:

- Wireless Configuration
- AP Management
- AP Global Settings
- JAPAN(JP) dropdown
- Apply button

## ACのGUIにログインする方法

初めてログインした際は、region-codeを設定する必要があります。

※region-codeにより送信する電波の国別の制約に従います。日本はJAPAN(**JP**)です。

```
<H3C>sys
System View: return to User View with Ctrl+Z.
[H3C]wlan global-configuration
[H3C-wlan-global-configuration]region-code JP
This operation may reset the radio parameters. Continue? [Y/N]:y
[H3C-wlan-global-configuration]quit
[H3C]
```

# ログインするとDashboardが表示されます

The screenshot displays the H3C WX1840H management interface. The top navigation bar includes the H3C logo, the model number WX1840H, and a 'Save' button. A left-hand sidebar menu is highlighted with a red box and labeled 'メニュー' (Menu) with a red arrow pointing to it. The main dashboard area is titled 'All Networks > Dashboard' and features several widgets: 'System Logs' with a summary bar showing 0 Emergency, 5 Critical, and 8 Warning events; 'APs' with a pie chart showing 1 online AP and a line graph of status over time; 'System usage' with gauges for 0% CPU and 68% Memory, and a table of system details; 'Wireless services' with a bar chart of SSIDs; and 'Clients' with a large 'N/A' indicator. At the bottom, a 'System View' / 'Network View' toggle is highlighted with a red box and labeled 'ビューの切換え [System View | Network View]' (View switching [System View | Network View]) with a red arrow pointing to it. The bottom status bar shows 'Access Points' (1 green, 0 grey, 0 red), 'Clients' (0), and 'Event Logs' (10 red, 5 yellow, 8 blue, 12 white).

# GUIのメニュー一覽

## • Network view

Actions
Dashboard
Quick Start >
Monitoring >
Wireless Configuration >
Network Security >
System >
Tools >
Reporting >

**Dashboard**  
**Quick Start**  
 Add New AP  
 Add New SSID  
 Add New User  
**Monitoring**  
 Wireless Network  
 Clients  
 Wireless Security  
 Client Proximity Sensor  
 Application Monitoring  
**Wireless Configuration**  
 Wireless Networks  
 AP Management  
 Wireless QoS  
**Wireless Security**  
 WIPS  
 Allowlist and denylist  
**Radio Management**  
 802.11n/802.11ax settings ,transmission distance  
**Applications**  
 Mesh, Multicast

**Network Security**  
 Packet Filter  
**Traffic Policy**  
 Qos Policies, Priority Mapping  
**Access Control**  
 802.1x  
**Authentication**  
 RADIUS  
 User Management  
**Access Control**  
 MAC Authentication  
 Port Security  
 Portal  
**System**  
**Resource**  
 ACL, Time Range  
 Cloud Platform  
**Tools**  
 Debug  
**Reporting**  
 Client Statistics  
 Wireless Service Statistics

System View

Network View

# GUIのメニュー一覽

## • System view

Actions
Dashboard
Network Configuration >
Network Security >
System >
Tools >

### Dashboard Network Configuration

Network Interfaces

VLAN

#### Network Routing

Routing table

Static Routing

#### Network Services

IP services

DHCP/DNS

Multicast

ARP

ND(Neighbor Discovery)

NAT

### Network Security

Packet Filter

Traffic Policy

#### Access Control

802.1x

#### Authentication

RADIUS

#### User Management

Local users

### System

Event Logs

#### Resource

ACL

Administrators

#### Management

Configuration save, import

Upgrade

Reboot

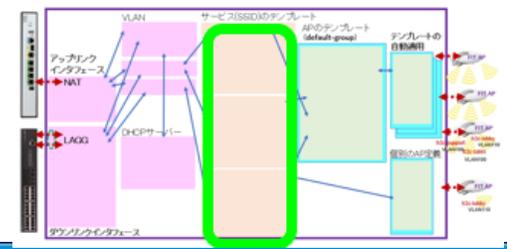
#### Tools

Debug

System View

Network View

# SSID(h3c-support)を作成する



**H3C WX1840H** Save

Actions All Networks > Quick Start > Add Services > Add Services

Dashboard

**2** Quick Start

Add AP

**3** Add Services

Add User

Monitoring >

Wireless Configuration >

Network Security >

System >

Tools >

Reporting >

**Add Services**

Basic settings

Wireless service name **4** h3c-support (1-63 chars)

SSID **5** h3c-support (1-32 chars)

Description (1-64 chars)

Wireless Service **6**  ON  OFF ※SSIDを有効にする

Default VLAN **7** 100 (1-4094, 1 by default)

Hide SSID  Yes  No

User Isolation **8**  Yes  No

Forwarding type  Centralized  Local ※client forwarding-location ap

Authentication settings

Authentication mode **9**  Static PSK

Authenticator  AC

Security mode  WPA  WPA2  WPA or WPA2  WPA3-Personal  WPA3-Enterprise

Management Frame Protection  ON  OFF

PSK key **10** Passphrase (8-63 alphanumeric chars)

Confirm password

Apply and Configure Advanced Settings **11** Apply

System View **1** Network View

Access Points 1 0 0 0 Clients 0 Event Logs 1 0 5 8 11

# SSID(h3c-support)を作成する

```
#  
wlan service-template h3c-support  
  ssid h3c-support  
  beacon ssid-hide  
  client forwarding-location ap  
  user-isolation enable  
  akm mode psk  
  preshared-key pass-phrase simple @helpdesk99  
  cipher-suite ccmp  
  cipher-suite tkip  
  security-ie rsn  
  security-ie wpa  
  service-template enable  
#
```

SSID名

SSIDを隠す

クライアントはVLANにACを経由せず

同一SSIDにつながるクライアント同士の通信不可

パスワードを要求

パスワード設定

WPA2接続用

WPA接続用(WPA or WPA2を選択)

802.11i (Robust Security Network)対応

Wi-Fi Protected Access全般を意味する

このテンプレートを有効にする

# Security modeとコマンド

Security mode  WPA  WPA2  WPA or WPA2  WPA3-Personal 

WPA3-Enterprise 

WPA3-Personal Mode  Required  Optional

Cipher suite  TKIP  CCMP  TKIP or CCMP  GCMP

```
#####
# Security mode: WPA
#####
wlan service-template wpa
ssid WPA
akm mode psk
preshared-key pass-phrase simple @helpdesk99
cipher-suite ccmp
cipher-suite tkip
security-ie wpa
#
#####
# Security mode: WPA2
#####
wlan service-template wpa2
ssid WPA2
akm mode psk
preshared-key pass-phrase simple @helpdesk99
cipher-suite ccmp
security-ie rsn
```

```
#####
# Security mode: WPA or WPA2
#####
wlan service-template wpawpa2
ssid WPA.WPA2
akm mode psk
preshared-key pass-phrase simple @helpdesk99
cipher-suite ccmp
cipher-suite tkip
security-ie rsn
security-ie wpa
#
#####
# Security mode: WPA3-Personal
# WPA3-Personal Mode: Required
#####
wlan service-template WPA-Ppersonal
ssid WPA-Ppersonal
akm mode psk
preshared-key pass-phrase simple @helpdesk99
cipher-suite ccmp
security-ie rsn
wpa3 personal required
```

# Security modeとコマンド

Security mode  WPA  WPA2  WPA or WPA2  WPA3-Personal 

WPA3-Enterprise 

Cipher suite  TKIP  CCMP  TKIP or CCMP  GCMP

Management Frame  ON  OFF

Protection

Management Frame  Required  Optional

Protection Mode

**802.1X**

---

Dynamic WEP  ON  OFF

Handshake   ON  OFF

Reauthentication  ON  OFF

Domain name   

Maximum clients  (1-512, 512 by default)

Authentication mode  Open (no authentication)

Static PSK

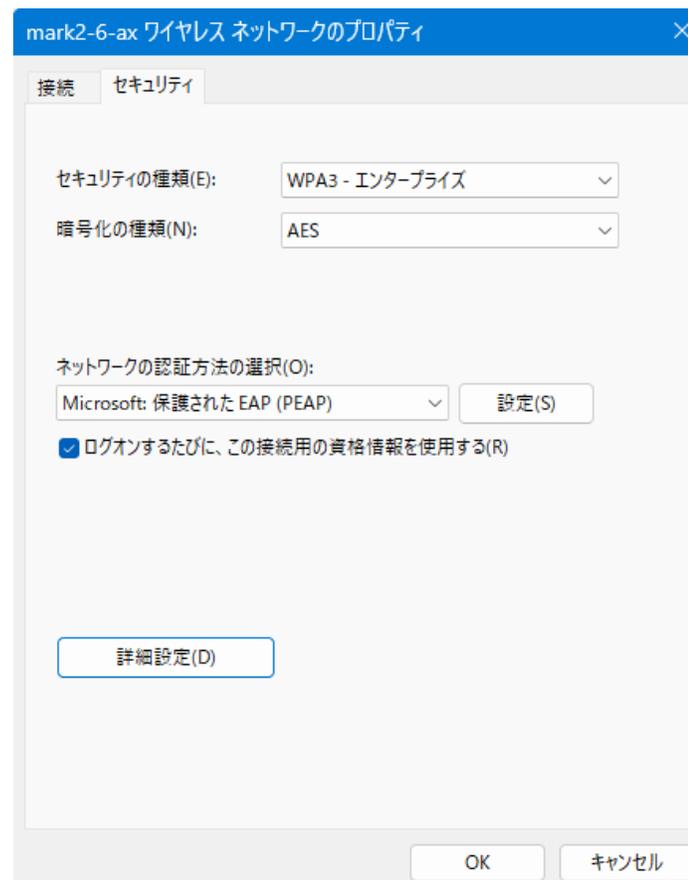
802.1X

802.1X (clear)

Static WEP

```
#####
# Security mode: WPA3-Enterprise
#####
wlan service-template wpa3-enterprise
ssid WPA3-Enterprise
akm mode dot1x
cipher-suite gcmp
security-ie rsn
wpa3 enterprise
client-security authentication-mode dot1x
dot1x domain system
pmf mandatory
```

# 補足: PCのNICの現在の設定確認



# SSID(h3c-sales)を作成する

The screenshot shows the H3C WX1840H web interface for configuring a wireless service. The interface is divided into a left sidebar and a main content area. The sidebar contains navigation options: Actions, Dashboard, Quick Start, Add AP, Add Services (highlighted with a red box and circled '1'), Add User, Monitoring, Wireless Configuration, Network Security, System, Tools, and Reporting. The main content area is titled 'Add Services' and contains two sections: 'Basic settings' and 'Authentication settings'. In the 'Basic settings' section, the 'Wireless service name' is 'h3c-sales' (circled '2'), the 'SSID' is 'h3c-sales' (circled '3'), the 'Wireless Service' is set to 'ON' (circled '4'), the 'Default VLAN' is '100' (circled '5'), 'Hide SSID' is 'Yes' (circled '6'), and 'User Isolation' is 'Yes' (circled '6'). The 'Forwarding type' is set to 'Local', with a note '※client forwarding-location ap'. In the 'Authentication settings' section, the 'Authentication mode' is 'Static PSK' (circled '7'), the 'Authenticator' is 'AC', the 'Security mode' is 'WPA or WPA2' (circled '8'), and the 'PSK key' is a passphrase (circled '8'). At the bottom of the main content area, there are two buttons: 'Apply and Configure Advanced Settings' and 'Apply' (circled '9'). The bottom status bar shows 'System View' and 'Network View' (highlighted with a red box), along with statistics for 'Access Points' (1 green, 0 grey, 0 red, 0 blue), 'Clients' (0), and 'Event Logs' (1 red, 0 grey, 5 yellow, 8 blue, 11 green).

1 Add Services

2 h3c-sales

3 h3c-sales

4 ON OFF ※SSIDを有効にする

5 100

6 Yes No

6 Yes No

Local ※client forwarding-location ap

7 Static PSK

8 WPA or WPA2

8 Passphrase

9 Apply

# SSID(h3c-sales)を作成する

```
#  
wlan service-template h3c-sales  
  ssid h3c-sales  
  beacon ssid-hide  
  client forwarding-location ap  
  user-isolation enable  
  akm mode psk  
  preshared-key pass-phrase simple @bigsale  
  cipher-suite ccmp  
  cipher-suite tkip  
  security-ie rsn  
  security-ie wpa  
  service-template enable  
#
```

# SSID(h3c-lobby)を作成する

The screenshot shows the H3C WX1840H web management interface. The left sidebar contains navigation menus, with 'Add Services' highlighted by a red box and a circled '1'. The main content area is titled 'Add Services' and contains two sections: 'Basic settings' and 'Authentication settings'.

**Basic settings:**

- Wireless service name: **2** h3c-lobby (1-63 chars)
- SSID \*: **3** h3c-lobby (1-32 chars)
- Description: (1-64 chars)
- Wireless Service: **4**  ON  OFF ※SSIDを有効にする
- Default VLAN: **5** 110 (1-4094, 1 by default)
- Hide SSID:  Yes  No
- User Isolation: **6**  Yes  No
- Forwarding type:  Centralized  Local ※client forwarding-location ap

**Authentication settings:**

- Authentication mode: **7**  Static PSK  802.1X  802.1X (clear)  Static WEP  MAC Authentication  IPv4 Portal Authentication  IPv6 Portal Authentication
- Authenticator:  AC  AP
- Security mode:  WPA  WPA2  WPA or WPA2  WPA3-Personal  WPA3-Enterprise
- Management Frame Protection:  ON  OFF
- PSK key \*: **8**  Passphrase  Rawkey  
..... (8-63 alphanumeric chars)  
..... Confirm password

At the bottom of the 'Basic settings' section, there are two buttons: 'Apply and Configure Advanced Settings' and 'Apply', with the latter highlighted by a red box and a circled '9'.

The bottom status bar shows 'System View' and 'Network View' tabs, with 'Network View' selected. On the right, there are status indicators for 'Access Points' (1 green, 0 grey, 0 red), 'Clients' (0), and 'Event Logs' (0 red, 5 yellow, 8 blue, 11 white).

# SSID(h3c-lobby)を作成する

```
#  
wlan service-template h3c-lobby  
  ssid h3c-lobby  
  client forwarding-location ap  
  user-isolation enable  
  akm mode psk  
  preshared-key pass-phrase simple thankyou  
  cipher-suite ccmp  
  cipher-suite tkip  
  security-ie rsn  
  security-ie wpa  
  service-template enable  
#
```

# APのデフォルトグループを設定します

The screenshot displays the H3C WX1840H management interface. The breadcrumb navigation path is "All Networks > Wireless Configuration > AP Management > AP Groups". The left sidebar contains a menu with "Wireless Configuration" (1) and "AP Management" (2) highlighted. The main content area shows a table of AP Groups with one entry, "default-group", which has 2 APs associated with it. A red box (4) highlights the edit icon for this entry. The bottom status bar shows "Access Points" (0), "Clients" (0), and "Event Logs" (10, 1, 6, 2).

Name	Description	APs	Actions
default-group		2	[Edit]

Total 1 entries, 1 matched, 0 selected. Page 1 / 1.

System View Network View

Access Points: 0 Clients: 0 Event Logs: 10, 1, 6, 2

# APのデフォルトグループを設定します

H3C WX1840H Save

Actions All Networks > Wireless Configuration > AP Management > AP Groups > Edit AP Group(default-group)

Dashboard

Quick Start >

Monitoring >

Wireless Configuration >

Wireless Networks

**AP Management**

Wireless QoS

Wireless Security >

Radio Management

Client Proximity Sensor

Applications

Network Security **4**

System >

Tools >

Reporting >

General AC Backup WLAN Service Map Files

Group name \* default-group (1-31 chars)

Description (1-64 chars)

Region code **1** JAPAN(JP) \* v

LED mode Normal \* v

AP model **2** WA6638-JP \* v  
WA6638-JP

AP connection priority 4 (0-7, 4 by default)

CAPWAP tunnel keepalive Echo interval 10 seconds (0,5-255, 10 by default)

Request retransmission Interval 5 seconds (3-8, 5 by default)

Retransmission attempts 3 (2-5, 3 by default)

Statistics report interval 50 seconds (0-240, 50 by default)

CAPWAP tunnel encryption  Enable  Disable

Firmware upgrade  Enable  Disable  Inherit (Enabled)

AP model

AP Model	Radio	<b>3</b> Enable
WA6638-JP	5GHz(1)	<input checked="" type="checkbox"/>
WA6638-JP	5GHz(2)	<input checked="" type="checkbox"/>
WA6638-JP	2.4GHz(3)	<input checked="" type="checkbox"/>

**※電波のハードをONにする  
(電波を送出する)**

Apply Cancel

System View Network View

Access Points 0 2 0 0 Clients 0 Event Logs 0 1 29 101

## APのデフォルトグループを設定します

```
#  
wlan ap-group default-group  
  region-code JP  
  vlan 1  
  ap-model WA6338-JP  
  radio 1  
    radio enable  
  radio 2  
    radio enable  
  radio 3  
    radio enable  
  gigabitethernet 1  
#
```

# デフォルトグループのradio 1(5GHz)を設定します

The screenshot displays the H3C WX1840H web management interface. The breadcrumb navigation is: All Networks > Wireless Configuration > AP Management > AP Groups > Edit AP Group(default-group). The 'WLAN Service' tab is selected and highlighted with a red box and a circled '1'. The 'Add' button in the 'Bind WLAN Service' section is highlighted with a red box and a circled '2'. An 'Add binding' dialog box is open, showing the following configuration:

- AP Group Name: default-group
- AP Type: WA6638-JP
- Radio: 5GHz(1)
- Bind WLAN Service: H3c-sales (highlighted with a red box and a circled '3')
- Bound VLAN: 100 (highlighted with a red box and a circled '3')
- Bound VLAN Type:  VLAN
- Buttons: Apply (highlighted with a red box and a circled '4'), Cancel

The bottom status bar shows: Access Points (0 green, 2 grey, 1 red), Clients (0), and Event Logs (1 red, 1 grey, 29 yellow, 1 blue).

## デフォルトグループのradio 1(5GHz)を設定します

```
#  
wlan ap-group default-group  
region-code JP  
vlan 1  
ap-model WA6338-JP  
radio 1  
radio enable  
service-template h3c-sales vlan 100  
radio 2  
radio enable  
radio 3  
radio enable  
gigabitethernet 1  
#
```

# デフォルトグループのradio 2(5GHz)を設定します

The screenshot displays the H3C WX1840H management interface. The main content area shows the configuration for the 'default-group' AP group, specifically the 'WLAN Service' tab. The interface is titled 'AP Model:WA6638-JP' and 'Bind wireless service to radio 5GHz(1)'. A modal window titled 'Add binding' is open, showing the configuration for a new binding. The modal contains the following fields:

- AP Group Name: default-group
- AP Type: WA6638-JP
- Radio: 5GHz(2)
- Bind WLAN Service: H3c-support (highlighted with a red box and circled '2')
- Bound VLAN: 110 (highlighted with a red box and circled '3')
- Options:  VLAN,  VLAN Group
- Buttons: Apply (highlighted with a red box and circled '3'), Cancel

On the main interface, the 'Add' button in the 'Bind wireless service to radio 5GHz(1)' section is circled with a red '1'. The 'Add' button in the 'Bind wireless service to radio 5GHz(2)' section is also circled with a red '1'. The 'Apply' button in the modal is circled with a red '3'. The 'H3c-support' dropdown in the modal is circled with a red '2'. The '110' dropdown in the modal is circled with a red '3'.

The interface includes a sidebar with navigation options: Actions, Dashboard, Quick Start, Monitoring, Wireless Configuration, Wireless Networks, AP Management, Wireless QoS, Wireless Security, Radio Management, Client Proximity Sensor, Applications, Network Security, System, Tools, and Reporting. The bottom status bar shows 'System View' and 'Network View' tabs, along with statistics for Access Points (0 green, 2 grey, 1 red), Clients (0), and Event Logs (1 red, 1 grey, 29 yellow, 1 blue).

## デフォルトグループのradio 2(5GHz)を設定します

```
#  
wlan ap-group default-group  
region-code JP  
vlan 1  
ap-model WA6338-JP  
radio 1  
radio enable  
service-template h3c-sales vlan 100  
radio 2  
radio enable  
service-template h3c-support vlan 110  
radio 3  
radio enable  
gigabitethernet 1  
#
```

# デフォルトグループのradio 3(2.4GHz)を設定します

The screenshot displays the H3C WX1840H management interface. The main content area shows the configuration for the 'default-group' AP Group, specifically for radio 3 (2.4GHz). A modal dialog box titled 'Add binding' is open, allowing the user to bind a WLAN service to the radio. The dialog contains the following fields and options:

- AP Group Name: default-group
- AP Type: WA6638-JP
- Radio: 2.4GHz(3)
- Bind WLAN Service: H3c-lobby (indicated by a red circle '2')
- Bound VLAN: 110 (indicated by a red circle '3')
- Options:  VLAN,  VLAN Group
- Buttons: Apply (indicated by a red circle '3'), Cancel

Red annotations on the main interface include a circle '1' around the 'Add' button in the 'Bind WLAN Service' section and a red box around the 'Add' button in the 'Add binding' dialog.

At the bottom of the interface, there are status indicators for Access Points (0), Clients (0), and Event Logs (1, 29, 101).

## デフォルトグループのradio 3(2.4GHz)を設定します

```
#  
wlan ap-group default-group  
region-code JP  
vlan 1  
ap-model WA6338-JP  
radio 1  
radio enable  
service-template h3c-sales vlan 100  
radio 2  
radio enable  
service-template h3c-support vlan 110  
radio 3  
radio enable  
service-template h3c-lobby vlan 110  
gigabitethernet 1  
#
```

# (オプション)デフォルトグループ以外の設定を持つ単独APの登録

## Quick Start > Add New AP

**H3C WX1840H** Save

Actions: All Networks > Quick Start > Add New AP > Add New AP

Dashboard: **Quick Start** > **Add New AP**

**1** Quick Start

**2** Add New AP

Add New SSID

Add New User

Monitoring >

Wireless Configuration >

Network Security >

System >

Tools >

Reporting >

**3** Name \* ROOM-101 (1-64 chars)

Description room number 101 (1-64 chars)

**4** Model \* WA6638-JP

**5** Serial ID 219801AZYF821BE000YX (1-63 chars)

MAC address HH-HH-HH-HH-HH-HH

AP group name default-group

Region code **6** JAPAN(JP)

**7** 2.4GHz radio(3)  OFF

**8** Apply and Configure Advanced Settings

AP connection priority 4(Inherit) (0-7, Inherit by default)

CAPWAP tunnel keepalive Echo interval 10(Inherit) seconds (0,5-255, Inherit by default)

Request retransmission Retransmission interval 5(Inherit) seconds (3-8, Inherit by default)

Retransmission attempts 3(Inherit) (2-5, Inherit by default)

Statistics report interval 50(Inherit) seconds (0-240, Inherit by default)

CAPWAP tunnel encryption  ON  OFF  Inherit (OFF)

Software upgrade  ON  OFF  Inherit (ON)

5GHz radio(1)  OFF  OFF  Inherit (OFF)

5GHz radio(2)  OFF  OFF  Inherit(OFF)

2.4GHz radio(3)  OFF  OFF  Inherit(OFF)

※電波のハードをONにする(電波を送出する)

System View **Network View**

Access Points: 0% 100% 0% 0  
Clients: 0  
Event Logs: 0 3 10 34

# (オプション)デフォルトグループ以外の設定を持つ単独APの登録

## Quick Start > Add New AP

The screenshot displays the H3C WX1840H management interface. The top navigation bar includes the H3C logo, the model number WX1840H, and a 'Save' button. A left sidebar contains a menu with items: Actions, Dashboard, Quick Start, Monitoring, Wireless Configuration (expanded), Wireless Networks, AP Management (highlighted), Wireless QoS, Wireless Security, Radio Management, Client Proximity Sensor, and Applications. The main content area shows the breadcrumb path: All Networks > Wireless Configuration > AP Management > AP > Edit AP (ROOM01). Below this, there are four tabs: Basic Settings, AC Backup Settings (marked with a circled '1'), WLAN Service Settings (highlighted with a red box), and Optimization. The WLAN Service Settings tab is active, showing two sections: 'Bind Wireless Services to Radios' and 'Bind wireless service to 2.4GHz(3)radio'. The 'Bind Wireless Services to Radios' section has a progress indicator '0/0'. The 'Bind wireless service to 2.4GHz(3)radio' section has an 'Add' button (marked with a circled '2') and a 'Delete' button. Below these buttons is a table with two columns: 'Bind WLAN Service' and 'Bind VLAN', with a search icon. The 'Bind WLAN Service' column has a checkbox. At the bottom of the interface, there are 'System View' and 'Network View' buttons, and a status bar showing 'Access Points' (0 green, 1 grey, 1 red), 'Clients' (0), and 'Event Logs' (0 red, 0 grey, 2 yellow, 3 blue).

# (オプション)デフォルトグループ以外の設定を持つ単独APの登録

## Quick Start > Add New AP

The screenshot displays the H3C WX1840H management interface. The main navigation menu on the left includes: Actions, Dashboard, Quick Start, Monitoring, Wireless Configuration, Wireless Networks, AP Management (highlighted), Wireless QoS, Wireless Security, Radio Management, Client Proximity Sensor, and Applications. The breadcrumb trail indicates the current location: All Networks > Wireless Configuration > AP Management > AP > Edit AP (ROOM01). A modal dialog titled 'Add binding' is open, showing the following configuration:

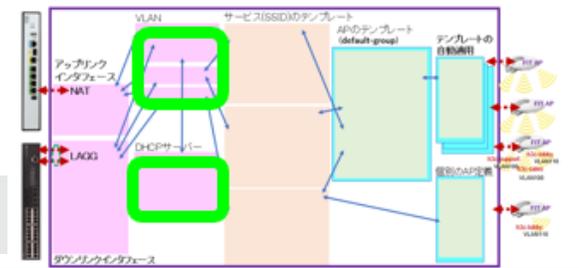
- AP name: ROOM01
- Radio: 2.4GHz(3)
- Bind WLAN Service: h3c-lobby
- Bound VLAN:  VLAN, 110 (1-4094)
- VLAN Group

Red annotations highlight the 'Bound VLAN' section (1) and the 'Apply' button (2). The bottom status bar shows: System View | Network View | Access Points (0 green, 2 grey, 1 red) | Clients (0) | Event Logs (1 red, 0 grey, 2 yellow, 1 blue, 5 white).

## (オプション)デフォルトグループ以外の設定を持つ単独APの登録

```
#  
wlan ap ROOM-101 model WA6638-JP  
serial-id 219801A2YF821E000YX  
region-code JP  
vlan 1  
radio 1  
radio 2  
radio 3  
radio enable  
service-template h3c-lobby vlan 110  
gigabitethernet 1  
ten-gigabitethernet 1  
#
```

# ACを他のAPのDHCPサーバーとして設定する 画面中央の真下でSystem Viewを選択



The screenshot shows the H3C WX1840H web management interface. The breadcrumb path is 'System > Network Configuration > Network Services > DHCP/DNS > DHCP'. The left sidebar contains the following menu items: Dashboard, Network Configuration (circled 2), Network Interfaces, VLAN, Network Routing, Network Services (circled 3), IP Services, DHCP/DNS (circled 4), Multicast, ARP, ND, Management Protocols, Network Security, and System. The main content area is titled 'DHCP' and includes the text 'The Dynamic Host Configuration Protocol(DHCP) provides a framework to assign configuration information to network devices.' Below this text is an 'Enable DHCP' button (circled 5). At the bottom of the interface, there are two tabs: 'System View' (circled 1) and 'Network View'. The bottom right corner displays status information: 'Access Points' (1 green, 0 grey, 0 red), 'Clients' (0), and 'Event Logs' (1 red, 0 grey, 6 yellow, 6 blue, 5 white).

# ACを他のAPのDHCPサーバーとして設定する(続き)

H3C WX1840H Save

System > Network Configuration > Network Services > DHCP/DNS > DHCP

**1**

Service **Address pool** Relay agent [Power] [Settings] [Help]

DHCP

The Dynamic Host Configuration Protocol(DHCP) provides a framework to assign configuration information to network devices.

[Dropdown] **Add Address Pool** **2**

Assigned Address DHCP Options IP In Use

Apply

**System View** Network View

Access Points: 1 (Green), 0 (Blue), 0 (Red) | Clients: 0 | Event Logs: 0 (Red), 7 (Blue), 7 (Yellow), 5 (Blue)

## ACを他のAPのDHCPサーバーとして設定する 画面中央の真下でSystem Viewを選択

```
#  
dhcp enable  
#
```

# ACを他のAPのDHCPサーバーとして設定する(続き)

The screenshot displays the H3C WX1840H web management interface for DHCP configuration. The breadcrumb path is System > Network Configuration > Network Services > DHCP/DNS > DHCP. The main content area shows the DHCP configuration page with an 'Add Address Pool' button. A modal dialog titled 'New DHCP Server Address Pool' is open, featuring a text input field for the 'Address pool name' containing 'For AP Management' and an 'Apply' button. Red annotations highlight the input field (1) and the 'Apply' button (2). The bottom status bar shows 'System View' selected and various system metrics.

System > Network Configuration > Network Services > DHCP/DNS > DHCP

Save

Service Address pool Relay agent

DHCP

The Dynamic Host Configuration Protocol(DHCP) provides a framework to assign configuration information to network devices.

Add Address Pool

Assigned Address DHCP Options IP In Use

Apply

New DHCP Server Address Pool

Address pool name \* 1 For AP Management (1-63 chars)

2 Apply Cancel

System View Network View

Access Points Clients Event Logs

1 0 0 0 0 0 7 7 5

## ACを他のAPのDHCPサーバーとして設定する(続き)

```
#  
dhcp server ip-pool "For AP Management"  
#
```

# ACを他のAPのDHCPサーバーとして設定する(続き)

H3C WX1840H

System > Network Configuration > Network Services > DHCP/DNS > DHCP

## DHCP

The Dynamic Host Configuration Protocol(DHCP) provides a framework to assign configuration information to network devices.

For AP Management

Assigned Address DHCP Options IP In Use

Dynamic assignment

IPv4 address Range

Static assignment

IP Address	Mask	Type	Hardware Address/Client ID
X.X.X.X		Ethernet	

Mask length must be in the range of 1 to 30.  
Hardware Address should be a string of 4-39 characters.

System View Network View

Access Points: 1 Clients: 0 Event Logs: 10

## ACを他のAPのDHCPサーバーとして設定する(続き)

```
#  
dhcp server ip-pool "For AP Management"  
network 192.168.0.0 mask 255.255.255.0  
address range 192.168.0.51 192.168.0.100  
#
```

# ACを他のAPのDHCPサーバーとして設定する(続き)

## VLAN1のDefault gatewayを設定

H3C WX1840H Save

System > Network Configuration > Network Services > DHCP/DNS > DHCP

Assigned Address **1** DHCP Options IP In Use

Lease duration  Unlimited  
 1 days 0 hours 0 minutes 0 seconds

Client domain name  (1-50 chars)

Gateways **2**

DNS servers

WINS servers

NetBIOS node type

DHCP options

Option Code	Type	Option Content
2 - 254	Hex	1 - 256 chars.

DHCP Option should be a number of 2-254, but 50-54, 56, 58, 59, 61 and 82.  
When the DHCP option type is Hex, the option content must be a hexadecimal string with a length of an even number in the range of 2 to 256.

**3** Apply

System View Network View

Access Points 1 0 0 0 Clients 0 Event Logs 0 4 4 3

## ACを他のAPのDHCPサーバーとして設定する(続き) VLAN1のDefault gatewayを設定

```
#  
dhcp server ip-pool "For AP Management"  
gateway-list 192.168.0.254  
network 192.168.0.0 mask 255.255.255.0  
address range 192.168.0.51 192.168.0.100  
dns-list 8.8.8.8  
#
```

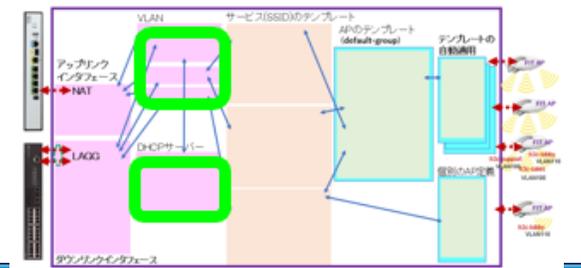
# ACのDHCPサーバーから払い出されているIPの確認

Monitoring > Access Pointsを選択します。

The screenshot shows the H3C WX1840H web interface for DHCP configuration. The breadcrumb path is System > Network Configuration > Network Services > DHCP/DNS > DHCP. The page title is DHCP, and it includes a description: "The Dynamic Host Configuration Protocol(DHCP) provides a framework to assign configuration information to network devices." There are buttons for Service, Address pool, Relay agent, and admin. A dropdown menu is set to "for ap admin" with a "Delete" button and an "Add Address Pool" button. A table lists DHCP options with columns for Assigned Address, DHCP Options, and IP In Use. The "IP In Use" column has a red box around it, and a red circle with the number "1" is around the "DHCP Options" column. A red circle with the number "2" is around a refresh button in the "Network Routing" section of the left sidebar. Below the table, it says "Total 4 entries, 4 matched, 0 selected. Page 1 / 1." The bottom status bar shows "System View" and "Network View" tabs, and a summary of system status: Access Points (4 green, 0 grey, 1 red), Clients (0), and Event Logs (1 red, 4 yellow, 15 blue, 40 grey).

Assigned Address	DHCP Options	IP In Use
<input type="checkbox"/>	192.168.0.51	0100-ddb6-b187-a0
<input type="checkbox"/>	192.168.0.52	0100-ddb6-b18f-40
<input type="checkbox"/>	192.168.0.53	0100-ddb6-b17c-a0
<input type="checkbox"/>	192.168.0.54	0100-ddb6-b192-60

# VLAN100を作成する



System > Network Configuration > VLAN > VLAN

Actions

Dashboard

Network Configuration

Network Interfaces

VLAN

Network Routing

Network Services

Management Protocols

Network Security

System

Tools

VLAN

MAC

STP

Refresh

Reset

+ Add

Search

VLAN	Untagged Port List	Tagged Port List	IP address of the VLAN interface	Description	Actions
1	↑ 2		192.168.0.50/255.255.255.0	VLAN 0001	

Create VLAN list

VLAN list \* 100 (2-4094, e.g. 3,5,10-100)

Apply Cancel

Total 3 entries, 7 matched. Page 1 / 1.

System View Network View

Access Points 1 0 0 0 Clients 0 0 Event Logs 0 7 9 21

# VLAN110を作成する

The screenshot shows the H3C WX1840H web management interface. The breadcrumb path is System > Network Configuration > VLAN > VLAN. The 'VLAN' tab is selected. A table lists existing VLANs:

VLAN	Untagged Port List	Tagged Port List	IP address of the VLAN interface	Description	Actions
1	↑ 2		192.168.0.50/255.255.255.0	VLAN 0001	✎
100	0			VLAN 0100	✎ 🗑️

A 'Create VLAN list' modal dialog is open, showing the 'VLAN list' field with the value '110' and the 'Apply' button highlighted. The dialog also includes a 'Cancel' button and a close button (X).

At the bottom of the interface, the 'System View' button is highlighted, and the status bar shows 'Access Points: 1', 'Clients: 0', and 'Event Logs: 0'.

VLAN100を作成する  
VLAN110を作成する

```
#  
vlan 100  
#  
vlan 110  
#
```

# VLAN100, VLAN110が完成

System > Network Configuration > VLAN > VLAN

VLAN MAC STP

VLAN

VLAN	Untagged Port List	Tagged Port List	IP address of the VLAN interface	Description	Actions
1	↑ 2	0	192.168.0.50/255.255.255.0	VLAN 0001	✎
100	0	↑ 1	--	VLAN 0100	✎ 🗑
110	0	↑ 1	--	VLAN 0110	✎ 🗑

Total 7 entries, 3 matched. Page 1 / 1.

System View Network View

Access Points: 1 (green), 0 (grey), 0 (red) | Clients: 0 | Event Logs: 0 (red), 5 (orange), 10 (yellow), 11 (blue)

# GE1/0/1ポートをtrunkポートに変更する

System > Network Configuration > Network Interfaces > Interfaces

Interfaces Link Aggregation

Statistics

All interfaces Search

Interface	Status	IP Address	Speed(Kbps)	Duplex	Description	Actions
<input type="checkbox"/> GE1/0/0	Down	--	1000000	Full	GigabitEthernet1/0/0 Interface	<input type="checkbox"/>
<input type="checkbox"/> GE1/0/1	Up	--	1000000	Full	GigabitEthernet1/0/1 Interface	<input type="checkbox"/>
<input type="checkbox"/> GE1/0/2	Down	--	1000000	Full	GigabitEthernet1/0/2 Interface	<input type="checkbox"/>
<input type="checkbox"/> GE1/0/3	Down	--	1000000	Full	GigabitEthernet1/0/3 Interface	<input type="checkbox"/>
<input type="checkbox"/> GE1/0/4	Down	--	1000000	Full	GigabitEthernet1/0/4 Interface	<input type="checkbox"/>

Total 32 entries, 32 matched, 0 selected. Page 1 / 1.

System View Network View

Access Points 3 1 0 0 Clients 0 Event Logs 0 0 8 51

# GE1/0/1ポートをtrunkポートに変更する

**H3C WX1840H** Save Roadmap | admin

System > Network Configuration > Network Interfaces > Interfaces > Edit Interface

**1** Network Configuration

**2** Network Interfaces

**3** Trunk

**4** 1-4094

Interface: GigabitEthernet1/0/1 (GE1/0/1)  
Status: up  Shut down  
Description: GigabitEthernet1/0/1 Interface (1-255 chars)  
MAC address: 90-23-B4-55-40-A1 (HH-HH-HH-HH-HH-HH)  
VLAN: Link type: Trunk  
PVID: 1  
Permit VLAN List: 1-4094 (1-4094, e.g. 3,5,10-100)  
Link speed: (Current: 1000000Kbps)  
Duplex: (Current: Full)  
Bandwidth: (Current: 1000000kbit/s)

System View Network View

Access Points: 0 2 1 0  
Clients: 0  
Event Logs: 1 0 2 6 9

# GE1/0/1ポートをtrunkポートに変更する

The screenshot shows the H3C WX1840H web interface for editing a network interface. The breadcrumb path is System > Network Configuration > Network Interfaces > Interfaces > Edit Interface. The left sidebar contains navigation menus for Dashboard, Network Configuration, Mobility Domain, Roaming Center, Network Interfaces (highlighted), VLAN, Network Routing, Network Services, Management Protocols, Network Security, System, and Tools. The main content area displays configuration options for the interface, including Bandwidth (Auto), Link mode (Bridge selected), Jumbo frame (4000 selected), BPDU interception (disabled), Flow control (Disable), and Traffic suppression (Broadcast, Multicast, and Unknown unicast suppression all set to ratio 100). At the bottom, there are 'Apply' and 'Cancel' buttons. A red box highlights the 'Apply' button, and a red circle with the number '2' is next to it. A red arrow points from the top right towards the bottom right, with a red circle and the number '1' at its tip. The bottom status bar shows 'System View' selected, 'Network View' available, and statistics for Access Points (0 green, 2 grey, 1 red), Clients (0), and Event Logs (0 red, 6 yellow, 10 blue).

Actions: System > Network Configuration > Network Interfaces > Interfaces > Edit Interface

Bandwidth: Auto (Current: 1000000kbit/s)

Link mode:  Bridge  Route

Jumbo frame:  Disable  4000 (1700-4000)

BPDU interception:  Enable BPDU interception

Flow control: Disable

Traffic suppression: Broadcast suppression ratio 100, Multicast suppression ratio 100, Unknown unicast suppression ratio 100

Buttons: **2** Apply Cancel

Bottom Bar: **1** System View Network View Access Points 0 2 1 Clients 0 Event Logs 0 6 10

Annotation: 画面の最下までスクロールダウン

## GE1/0/1ポートをtrunkポートに変更する

```
#  
interface GigabitEthernet1/0/1  
  port link-type trunk  
  port trunk permit vlan all  
#
```

# GE1/0/2ポート(PoEへのダウンリンクをLAGG)をtrunkポートに変更する

画面中央の真下でSystem Viewを選択

System View

Network View

H3C WX1840H

Save Roadmap admin

System > Network Configuration > Network Interfaces > Interfaces

Interfaces Link Aggregation PPPoE

Dashboard

Network Configuration

Mobility Domain

Roaming Center

Network Interfaces

VLAN

Network Routing

Network Services >

Management Protocols

Network Security >

System >

Tools >

Interfaces

Statistics

All interfaces Search

Interface	Status	IP Address	Speed(Kbps)	Duplex	Description	Actions
<input type="checkbox"/> GE1/0/1	Up	-- --	1000000	Full	GigabitEthernet1/0/1 Interface	<input type="checkbox"/>
<input type="checkbox"/> GE1/0/2	Up	-- --	1000000	Full	GigabitEthernet1/0/2 Interface	<input type="checkbox"/>
<input type="checkbox"/> GE1/0/3	Down	-- --	0	Auto	GigabitEthernet1/0/3 Interface	<input type="checkbox"/>
<input type="checkbox"/> GE1/0/4	Down	-- --	0	Auto	GigabitEthernet1/0/4 Interface	<input type="checkbox"/>
<input type="checkbox"/> GE1/0/5	Down	-- --	0	Auto	GigabitEthernet1/0/5 Interface	<input type="checkbox"/>
<input type="checkbox"/> GE1/0/6	Down	-- --	0	Auto	GigabitEthernet1/0/6 Interface	<input type="checkbox"/>
<input type="checkbox"/> GE1/0/7	Down	-- --	0	Auto	GigabitEthernet1/0/7 Interface	<input type="checkbox"/>

Total 11 entries, 11 matched, 0 selected. Page 1 / 1.

System View Network View

Access Points Clients Event Logs

0 2 1 0 0 0 6 11 10

# GE1/0/2ポートをtrunkポートに変更する

The screenshot shows the H3C WX1840H web interface for configuring the GigabitEthernet1/0/2 interface. The interface is currently set to 'Trunk' link type and '1-4094' permit VLAN list. The configuration page is titled 'GigabitEthernet1/0/2 (GE1/0/2)' and shows the following details:

- Interface: GigabitEthernet1/0/2 (GE1/0/2)
- Status: up (with a warning icon)
- Description: GigabitEthernet1/0/2 Interface (1-255 chars)
- MAC address: 90-23-B4-55-40-A2 (HH-HH-HH-HH-HH-HH)
- VLAN: Link type is Trunk (with a warning icon)
- PVID: 1 (with a warning icon)
- Permit VLAN List: 1-4094 (1-4094, e.g. 3,5,10-100)
- Link speed: (Current: 1000000Kbps)
- Duplex: Auto (with a warning icon)
- Bandwidth: (Current: 1000000kbit/s)

Navigation and configuration steps are highlighted with red circles and boxes:

1. Network Configuration (in the left sidebar)
2. Network Interfaces (in the left sidebar)
3. Trunk (in the Link type dropdown menu)
4. 1-4094 (in the Permit VLAN List input field)

At the bottom of the interface, there are buttons for 'System View' (highlighted with a red box) and 'Network View'. The bottom right corner shows system status: Access Points (0 green, 2 grey, 1 red), Clients (0), and Event Logs (0 red, 7 yellow, 12 blue, 10 white).

# GE1/0/2ポートをtrunkポートに変更する

**H3C WX1840H** Save Roadmap admin

System > Network Configuration > Network Interfaces > Interfaces > Edit Interface

Actions

Dashboard

Network Configuration

Mobility Domain

Roaming Center

Network Interfaces

VLAN

Network Routing

Network Services

Management Protocols

Network Security

System

Tools

Bandwidth: Auto (Current: 1000000kbit/s)

Link mode:  Bridge  Route

Jumbo frame:  Disable

Link speed:  4000 (1700-4000)

BPDU interception:  Enable BPDU interception

Flow control: Disable

Traffic suppression: Broadcast suppression ratio 100, Multicast suppression ratio 100, Unknown unicast suppression ratio 100

**2** Apply Cancel

**1**

System View Network View

Access Points: 0 2 1 0 Clients: 0 Event Logs: 0 6 10 10

画面の最下までスクロールダウン

## GE1/0/2ポート(PoEへのダウンリンクをLAGG)をtrunkポートに変更する 画面中央の真下でSystem Viewを選択

```
#  
interface GigabitEthernet1/0/2  
  port link-type trunk  
  port trunk permit vlan all  
#
```

(オプション)GE1/0/1, GE1/0/2をLAGGに設定する(シミュレーターでは行わない)

H3C WX1840H

System > Network Configuration > Network Interfaces > Link Aggregation

Interfaces **Link Aggregation** ②

Link Aggregation

① **Network Interfaces**

③ +

Aggregate Interface	Aggregation Mode	Member Ports	Actions
---------------------	------------------	--------------	---------

Total 0 entries, 0 matched. Page 1 / 1.

System View Network View

Access Points: 0% (0/100) 0% (0/0)  
Clients: 0  
Event Logs: 0 (0) 1 (1) 15 (15) 42 (42)

(オプション) GE1/0/1, GE1/0/2をLAGGに設定する(シミュレーターでは行わない)

H3C WX1840H

System > Network Configuration > Network Interfaces > Link Aggregation > New Link Aggregation Group

Aggregate interface type \* Bridge aggregation

Aggregate interface number \* 2 1 (1-4)

Aggregation mode \* Static

Member Ports

GE1/0/1

GE1/0/1

GE1/0/2

1 Network Interfaces

4 Apply Cancel

System View Network View

Access Points 0% 100% 0% 0 Clients 0 Event Logs 0 1 15 42

## GE1/0/1, GE1/0/2をLAGGに設定する

```
#  
interface Bridge-Aggregation1  
#  
interface GigabitEthernet1/0/1  
  port link-type trunk  
  port trunk permit vlan all  
  port link-aggregation group 1  
#  
interface GigabitEthernet1/0/2  
  port link-type trunk  
  port trunk permit vlan all  
  port link-aggregation group 1  
#
```

# (オプション) GE1/0/7をnatポートに設定するためにポートのlinkモードをrouteに変更

The screenshot displays the H3C WX1840H network configuration interface. The left sidebar contains a navigation menu with the following items: Dashboard, Network Configuration (2), Mobility Domain, Roaming Center, Network Interfaces (3), VLAN, Network Routing, Network Services, Management Protocols, Network Security, System, and Tools. The main content area shows the 'Network Interfaces' configuration page. A table lists the interfaces with the following columns: Interface, Status, IP Address, Speed(Kbps), Duplex, Description, and Actions. The interface GE1/0/7 is highlighted with a red box, and its 'Actions' column contains a red box with the number 4. The bottom status bar shows 'System View' (1) and 'Network View' tabs, along with status indicators for Access Points, Clients, and Event Logs.

Interface	Status	IP Address	Speed(Kbps)	Duplex	Description	Actions
GE1/0/1	Up	--	1000000	Full	GigabitEthernet1/0/1 Interface	
GE1/0/2	Up	--	1000000	Full	GigabitEthernet1/0/2 Interface	
GE1/0/3	Down	--	0	Auto	GigabitEthernet1/0/3 Interface	
GE1/0/4	Down	--	0	Auto	GigabitEthernet1/0/4 Interface	
GE1/0/5	Down	--	0	Auto	GigabitEthernet1/0/5 Interface	
GE1/0/6	Down	--	0	Auto	GigabitEthernet1/0/6 Interface	
GE1/0/7	Down	--	0	Auto	GigabitEthernet1/0/7 Interface	4

Total 11 entries, 11 matched, 0 selected. Page 1 / 1.

1 System View Network View

Access Points: 0 2 1 0 0 Clients: 0 Event Logs: 0 6 11 10

# (オプション) GE1/0/7をnatポートに設定するためにポートのlinkモードをrouteに変更

The screenshot displays the H3C WX1840H web management interface. The breadcrumb navigation shows the path: System > Network Configuration > Network Interfaces > Interfaces > Edit Interface. The 'Link mode' is currently set to 'Bridge' and is being changed to 'Route' (1). A confirmation dialog box is open, asking 'It will change the capabilities of the interface . Are you sure?' with 'Yes' (2) and 'No' buttons. The 'Apply' button (3) is highlighted at the bottom of the configuration page.

System > Network Configuration > Network Interfaces > Interfaces > Edit Interface

Link mode:  Bridge  Route (1)

Combo:  Copper  Fiber

Jumbo frame:  Disable

BPDU interception:  9216

EEE:  Enable BPDU interception

Flow control:  Enable EEE (2)

Traffic suppression:  Disable

Broadcast suppression:  ratio

Multicast suppression:  ratio 100

Unknown unicast suppression:  ratio 100

Confirm dialog: It will change the capabilities of the interface . Are you sure? (2) Yes No

Apply (3) Cancel

System View Network View

Access Points: 0 2 0 0 Clients: 0 Event Logs: 0 0 6 3

(オプション) GE1/0/7をnatポートに設定するためにポートのモードをrouteに変更

```
#  
interface GigabitEthernet1/0/7  
  port link-type route  
#
```

# (オプション) GE1/0/7をnatポートに設定する

The screenshot displays the H3C WX1840H web management interface. The left sidebar contains a menu with 'Network Services' highlighted (marked with a red circle and '1') and 'NAT' selected (marked with a red circle and '2'). The main content area shows the 'NAT' configuration page with a breadcrumb trail: 'System > Network Configuration > Network Services > NAT'. Below the breadcrumb, there are tabs for 'Dynamic NAT', 'Static NAT', 'NAT Server', 'Dynamic NAT444', and 'Static NAT444'. A search bar is present. A table with columns 'Interface', 'Interface Description', 'ACL', 'Address Group...', 'Address Group...', 'VRF', 'Translation Mo...', 'Reversible', 'Port Preservat...', 'State', and 'Actions' is shown, with a '+' icon in the 'Interface' column (marked with a red circle and '3'). The table is currently empty. At the bottom, there are status indicators for 'Access Points' (0% green, 100% grey, 0% red), 'Clients' (0), and 'Event Logs' (0 red, 1 yellow, 8 blue).

Network Routing

System > Network Configuration > Network Services > NAT

Network Services

NAT

Dynamic NAT Static NAT NAT Server Dynamic NAT444 Static NAT444

Search

Interface	Interface Description	ACL	Address Group...	Address Group...	VRF	Translation Mo...	Reversible	Port Preservat...	State	Actions
-----------	-----------------------	-----	------------------	------------------	-----	-------------------	------------	-------------------	-------	---------

Total 0 entries, 0 matched, 0 selected. Page 1 / 1.

System View Network View

Access Points 0% 100% 0% Clients 0 Event Logs 0 1 8 37

# (オプション) GE1/0/7(ルーターへのアップリンク)をnatポートに設定する

The screenshot displays the H3C WX1840H web management interface for configuring a new dynamic NAT rule. The breadcrumb path is System > Network Configuration > Network Services > NAT > New Dynamic NAT Rule. The interface includes a left sidebar with navigation options like Network Routing, Network Services, IP Services, DHCP/DNS, Multicast, ARP, ND, NAT, and Management Protocols. The main configuration area is titled 'New Dynamic NAT Rule' and contains the following fields and options:

- Interface \***: GE1/0/7: GigabitEthernet1/0/7 Interface (highlighted with a red box and circled '1')
- ACL**: (empty dropdown menu)
- Address group**: Radio buttons for 'Address Group' and 'Easy IP' (the latter is selected and highlighted with a red box and circled '2')
- VRF**: Public network (dropdown menu)
- Translation mode**: Radio buttons for 'PAT' (selected) and 'Easy IP'
- Port preservation**:  Try to preserve port number for PAT
- Enable**:  Enable this rule
- Buttons**: 'Apply' (highlighted with a red box and circled '3') and 'Cancel' buttons.

At the bottom of the interface, there are tabs for 'System View' and 'Network View', and a status bar showing 'Access Points' (0% up, 100% down, 0% error), 'Clients' (0), and 'Event Logs' (0 error, 1 warning, 12 info, 41 total).

# (オプション) GE1/0/7がnatポートに設定された

The screenshot shows the H3C WX1840H web management interface. The breadcrumb path is System > Network Configuration > Network Services > NAT. The left sidebar contains various network configuration categories, with NAT selected. The main content area displays the NAT configuration table, where the entry for GE1/0/7 is highlighted with a red box. The table columns include Interface, Interface Description, ACL, Address Group, VRF, Translation Mode, Reversible, Port Preservation, State, and Actions. The GE1/0/7 entry is configured with EasyIP, PAT, No, No, and Enabled.

System > Network Configuration > Network Services > NAT

Network Services

NAT

Dynamic NAT Static NAT NAT Server Dynamic NAT444 Static NAT444

Search

<input type="checkbox"/>	Interface	Interface Description	ACL	Address Group...	Address Group...	VRF	Translation Mo...	Reversible	Port Preservat...	State	Actions
<input type="checkbox"/>	GE1/0/7	GigabitEthernet1/0/7 In...			EasyIP		PAT	No	No	Enabled	

Total 1 entries, 1 matched, 0 selected. Page 1 / 1.

System View Network View

Access Points 0% 100% 0% Clients 0 Event Logs 0 1 12 41

## (オプション) GE1/0/7をnatポートに設定する

```
#  
interface GigabitEthernet1/0/7  
  port link-type route  
  nat outbound  
#
```

# ネットワークにFIT APが接続されると自動的に設定を作成して固定するモード(wlan auto-ap enable, wlan auto-persistent enable設定)

The screenshot displays the H3C WX1840H management interface. The left sidebar contains a navigation menu with the following items: Actions, Dashboard, Quick Start, Monitoring, **Wireless Configuration** (highlighted with a red box and circled '2'), Wireless Networks, **AP Management** (highlighted with a red box and circled '3'), Wireless QoS, Wireless Security, Radio Management, Client Proximity Sensor, and Applications. The main content area shows the breadcrumb path: All Networks > Wireless Configuration > AP Management > AP Global Settings (circled '4' and boxed in red). Under the 'Basic Settings' section, the following configurations are visible: Region code is set to JAPAN(JP) (boxed in red); Region code lock is ON; Software upgrade is ON; Auto AP is currently OFF (circled '5' and boxed in red), with a red arrow pointing to an ON toggle and the text '※wlan auto-ap enable設定'; Auto AP conversion is currently OFF (circled '6' and boxed in red), with a red arrow pointing to an ON toggle and the text '※wlan auto-persistent enable設定'. At the bottom of the interface, there are tabs for System View and **Network View** (circled '1'). The bottom status bar shows: Access Points (100% green, 0% grey, 0% red), Clients (4), and Event Logs (0 red, 0 grey, 798 yellow, 226 blue).

ネットワークにFIT APが接続されると自動的に設定を作成して固定するモード(wlan auto-ap enable, wlan auto-persistent enable設定)

```
#  
wlan auto-ap enable  
wlan auto-persistent enable  
#
```

# Ap-groupのdefault-group(全てのAPのテンプレート)を設定します

## GUIで設定できるのはここまで

```
#
wlan ap-group default-group
  region-code JP
  vlan 1
  ap-model WA6638-JP
  radio 1
    radio enable
    service-template h3c-sales vlan
100
  radio 2
    radio enable
    service-template h3c-support
vlan 110
  radio 3
    radio enable
    service-template h3c-lobby vlan
110
gigabitethernet 1
Ten- gigabitethernet 1
#
```

## CLIでTen-gigabitethernet 1をtagポートに設定します

```
[H3C]wlan ap-group default-group
[H3C-wlan-ap-group-default-group]ap-model WA6638-JP
[H3C-wlan-ap-group-default-group-ap-model-WA6638-JP]Ten-gigabitethernet 1
[H3C-wlan-ap-group-default-group-ap-model-WA6638-JP-Ten-gigabitethernet-1]port
link-type trunk
For the configuration to take effect, specify a PVID for the port and configure the port to
allow traffic from the PVID.
[H3C-wlan-ap-group-default-group-ap-model-WA6638-JP-Ten-gigabitethernet-1]port
trunk permit vlan all
[H3C-wlan-ap-group-default-group-ap-model-WA6638-JP-Ten-gigabitethernet-1]port
trunk pvid vlan 1
[H3C-wlan-ap-group-default-group-ap-model-WA6638-JP-gigabitethernet-1]quit
[H3C-wlan-ap-group-default-group-ap-model-WA6638-JP]quit
[H3C-wlan-ap-group-default-group]quit
[H3C] save force   設定を変更した都度設定を保存する
Saved the current configuration to mainboard device successfully.
[H3C]
```

## CLIでの設定後

```
[H3C] display current-configuration
wlan ap-group default-group
  region-code JP
  vlan 1
  ap-model WA6638-JP
  radio 1
    radio enable
    service-template h3c-sales vlan 100
  radio 2
    radio enable
    service-template h3c-support vlan 110
  radio 3
    radio enable
    service-template h3c-lobby vlan 100
gigabitethernet 1
Ten-gigabitethernet 1
port link-type trunk
port trunk permit vlan all
port trunk pvid vlan 1
[H3C]
```

## Ap-groupのdefault-group(全てのAPのテンプレート)を設定します

```
wlan ap-group default-group
  region-code JP
  vlan 1
  ap-model WA6338-JP
  radio 1
    radio enable
    service-template h3c-sales vlan 100
  radio 2
    radio enable
    service-template h3c-support vlan 110
  radio 3
    radio enable
    service-template h3c-lobby vlan 110
  gigabitethernet 1
    port link-type trunk
    port trunk permit vlan all
    port trunk pvid vlan 1
#
```

# 最後に今まで設定したコンフィグを保存(save)してログアウト

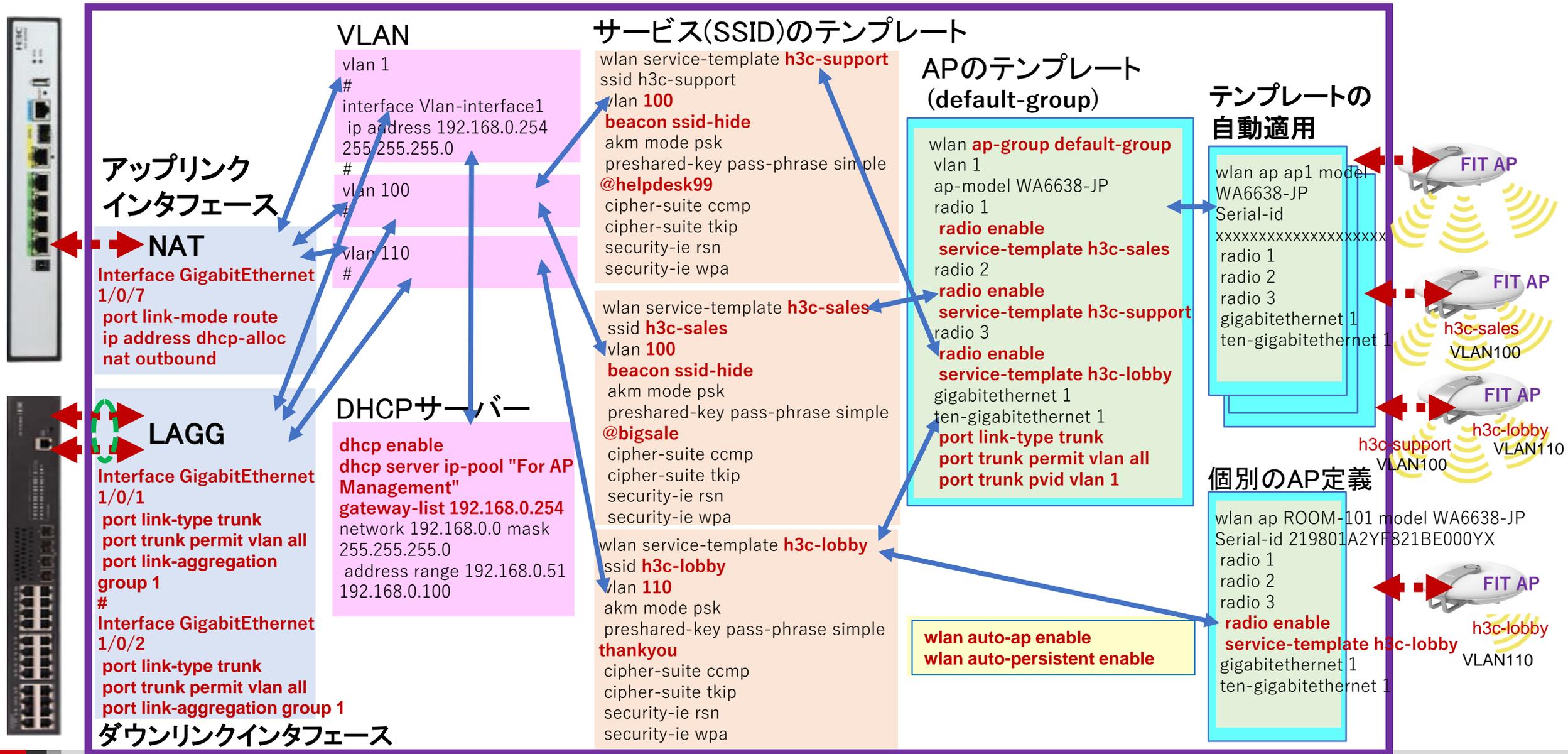
admin > Save そして Logout

The screenshot displays the H3C WX1840H management interface. The top navigation bar includes the H3C logo and the model number WX1840H. On the right side of the top bar, there is a 'Save' button (labeled 2) and a dropdown menu (labeled 3) containing 'Save', 'Logout', 'Change Password', 'Roadmap', and 'Scan and Look Me'. The left sidebar (labeled 1) shows the 'Dashboard' menu item highlighted. The main content area features a 'System Logs' section with status indicators for Emergency (0), Critical (5), and Warning (8). Below this are several monitoring widgets: 'APs' with a pie chart showing 1 online AP, 'System usage' showing 0% CPU and 68% Memory, 'Wireless services' with a bar chart for SSIDs, and 'Clients' showing 0 clients. The bottom status bar includes 'Access Points' (1 online, 0 offline, 0 unhealthy), 'Clients' (0), and 'Event Logs' (1 info, 0 error, 5 warning, 8 critical, 12 total). The URL at the bottom is 192.168.0.50/wnm/frame/index.php?sessionid=20000146350de2b50aac29e5d8e4c3eae86#.



- 01 アクセスポイントをFITに設定する
- 02 ACを設定する
- 03 完成したコンフィグのコマンドでの確認
- 04 エラー情報の取得
- 05 PoEスイッチの設定
- 06 マニュアルについて

# ACの設定の概要



# GUIで作成するコンフィグをコマンドで表示

C:\Users\H3C>**telnet 192.168.0.254**

\*\*\*\*\*

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\*Without the owner's prior written consent,  
\*no decompiling or reverse-engineering  
shall be allowed.

\*\*\*\*\*

login: **admin**

Password: **xxxxxxx**

<AC> **display current-configuration**

version 7.1.064, ESS 2442

sysname WX1840H

#

wlan global-configuration

**region-code JP**

#

telnet server enable

#

port-security enable

#

**dhcp enable**

#

lldp global enable

lldp hold-multiplier 8

password-recovery enable

#

vlan 1

#

vlan 100

#

vlan 110

#

**dhcp server ip-pool "For AP Management"**

**gateway-list 192.168.0.254**

**network 192.168.0.0 mask 255.255.255.0**

**address range 192.168.0.51 192.168.0.100**

#

**wlan service-template h3c-lobby**

ssid **h3c-lobby**

vlan **110**

**user-isolation enable**

akm mode psk

pre-shared-key pass-phrase simple **thankyou**

cipher-suite ccmp

cipher-suite tkip

security-ie rsn

security-ie wpa

service-template enable

**wlan service-template h3c-sales**

ssid **h3c-sales**

vlan **100**

**beacon ssid-hide**

**user-isolation enable**

akm mode psk

pre-shared-key pass-phrase simple **@bigsale**

cipher-suite ccmp

cipher-suite tkip

security-ie rsn

security-ie wpa

service-template enable

#

**wlan service-template h3c-support**

ssid **h3c-support**

vlan **100**

**beacon ssid-hide**

**user-isolation enable**

akm mode psk

pre-shared-key pass-phrase simple **@helpdesk99**

cipher-suite ccmp

cipher-suite tkip

security-ie rsn

security-ie wpa

service-template enable

## GUIで作成するコンフィグをコマンドで表示(続き)

```
interface NULL0
#
interface Vlan-interface1
ip address 192.168.0.254 255.255.255.0
#
interface Bridge-Aggregation 1
#
interface GigabitEthernet1/0/1
port link-type trunk
port trunk permit vlan all
port link-aggregation group 1
#
interface GigabitEthernet1/0/2
port link-type trunk
port trunk permit vlan all
port link-aggregation group 1
#
interface GigabitEthernet1/0/7
port link-mode route
ip address dhcp-alloc
nat outbound
#
interface WLAN-Radio1/0/1
途中省略
user-group system
#
```

```
local-user admin class manage
password simple h3cjapan
service-type telnet http https
authorization-attribute user-role network-admin
#
ip http enable
ip https enable
#
undo attack-defense tcp fragment enable
#
wlan auto-ap enable
wlan auto-persistent enable
#
wlan ap-group default-group
vlan 1
ap-model WA6638-JP
radio 1
radio enable
service-template h3c-sales vlan 100
radio 2
radio enable
service-template h3c-support vlan 100
radio 3
radio enable
service-template h3c-lobby vlan 110
```

```
gigabitethernet 1
ten-gigabitethernet 1
port link-type trunk
port trunk permit vlan all
port trunk pvid vlan 1
#
wlan ap XXXX-XXXX-XXXX model WA6638-JP
serial-id XXXXXXXXXXXXXXXXXXXXXX
vlan 1
radio 1
radio 2
radio 3
gigabitethernet 1
ten-gigabitethernet 1
#
wlan ap ROOM-101 model WA6638-JP
serial-id 219801A2YF821BE000YX
vlan 1
radio 1
radio 2
radio 3
radio enable
service-template h3c-lobby vlan 110
gigabitethernet 1
ten-gigabitethernet 1
#
cloud-management server domain oasiscloud.h3c.com
```



- 01 アクセスポイントをFITに設定する
- 02 ACを設定する
- 03 完成したコンフィグのコマンドでの確認
- 04 エラー情報の取得
- 05 PoEスイッチの設定
- 06 マニュアルについて

# イベントログを表示

System > Event Logsを選択します。

The screenshot displays the H3C WX1840H web management interface. The left sidebar contains a navigation menu with the following items: Actions, Dashboard, Network Configuration, Network Security, System (highlighted with a red box and circled number 2), Event Logs (highlighted with a red box and circled number 3), Resource, File Systems, License Management, Administrators, Management, and Tools. The main content area shows the 'System Logs' page, which includes a search bar, a refresh button, and a table of log entries. The table has columns for Time, Level, and Description. The log entries are as follows:

Time	Level	Description	Actions
2022-02-04 02:25:18	Notification	h3c failed to log in from 10.10.11.180.	...
2022-02-04 02:28:04	Informational	-Line=vty0-IPAddr=10.10.11.182-User=admin; Command is system-view	...
2022-02-04 02:28:04	Notification	admin logged in from 10.10.11.182.	...
2022-02-04 02:28:05	Notification	admin logged out from 10.10.11.182.	...
2022-02-04 02:28:05	Informational	-Line=vty0-IPAddr=10.10.11.182-User=admin; Command is quit	...
2022-02-04 02:28:05	Informational	-Line=vty0-IPAddr=10.10.11.182-User=admin; Command is quit	...
2022-02-04 02:28:05	Informational	-Line=vty0-IPAddr=10.10.11.182-User=admin; Command is display radius scheme	...
2022-02-04 02:30:18	Notification	h3c failed to log in from 10.10.11.180.	...
2022-02-04 02:35:18	Notification	h3c failed to log in from 10.10.11.180.	...

At the bottom of the interface, the 'System View' button is highlighted with a red box and circled number 1. The bottom status bar shows 'Access Points' (100%), 'Clients' (5), and 'Event Logs' (0 critical, 0 warning, 799 info, 225 debug).

# エラーログをダウンロード

System > File SystemでファイルにチェックマークをいれDownloadを選択します。

The screenshot shows the H3C WX1840H File System Management interface. The left sidebar contains a navigation menu with the following items: Actions, Dashboard, Network Configuration, Network Security, System (highlighted with a red box and circled '2'), Event Logs, Resource, File Systems (highlighted with a red box and circled '3'), License Management, Administrators, Management, and Tools. The main content area displays 'File System Management' for the 'flash:' storage. It shows a table of files with columns for Name, Size(bytes), Time, Directory, and Actions. The file 'flash:/logfile/logfile.log' is selected with a checkmark (circled '4'). Below the table, there are 'Delete' and 'Download' buttons (the latter is circled '5'). The bottom status bar shows 'System View' (circled '1') and various system metrics.

**File System Management**

flash:

Total: 1073741824 bytes, Used: 383623168 bytes, Free: 690118656 bytes

Name	Size(bytes)	Time	Directory	Actions
<input checked="" type="checkbox"/> flash:/logfile/logfile.log	10485731	2022-02-06 15:57:27	No	🗑️
<input type="checkbox"/> flash:/map_config.cfg	913	2021-03-18 12:12:25	No	🗑️
<input type="checkbox"/> flash:/pdt_reserve		2022-02-05 16:32:40	Yes	🗑️
<input type="checkbox"/> flash:/pdt_reserve/cplog.txt	14778277	2022-02-05 16:32:40	No	🗑️
<input type="checkbox"/> flash:/pdt_reserve/cplog_reboot.txt	1800197	2021-12-03 16:46:37	No	🗑️
<input type="checkbox"/> flash:/pdt_reserve/dplog.txt	10887615	2022-02-05 16:32:58	No	🗑️
<input type="checkbox"/> flash:/pdt_reserve/dplog_reboot.txt	1476442	2021-12-03 16:46:39	No	🗑️

Total 49 entries, 49 matched, 1 selected. Page 1 / 1.

Delete Download

System View Network View

Access Points: 100% 0% 0% Clients: 5 Event Logs: 0 0 799 225

# コンフィギュレーションファイル(startup.cfg)のダウンロード

System > File Systemでflash:/startup.cfgにチェックマークをいれDownloadを選択します。

H3C WX1840H

System > System > File Systems > File System Management

File System Management

flash:

Total: 1073741824 bytes, Used: 383623168 bytes, Free: 690118656 bytes

Name	Size(bytes)	Time	Directory	Actions
<input checked="" type="checkbox"/> flash:/startup.cfg	7598	2021-04-09 00:49:16	No	
<input type="checkbox"/> flash:/startup.mdb	196346	2021-04-09 00:49:16	No	
<input type="checkbox"/> flash:/startup2726641351479625.cfg	6191	2020-11-08 16:57:12	No	
<input type="checkbox"/> flash:/system.bin	91169792	2021-11-09 14:59:59	No	
<input type="checkbox"/> flash:/topology.db	0	2020-12-18 21:43:24	No	

Total 49 entries, 49 matched, 1 selected. Page 1 / 1.

Delete Download

System View Network View

Access Points: 100% 0% 0% Clients: 5 Event Logs: 0 0 799 225

この種類のファイルはコンピュータに損害を与える可能性があります。flash\_startup.cfg のダウンロードを続けますか? 保存 破棄

# 診断ログを収集(display diagnostic-information)

Tools > Debug > Collectを選択します。ログはflash:/diag\_AC\_yyyymmdd-hhmmss.tar.gzに出力

The screenshot displays the H3C WX1840H web management interface. The breadcrumb navigation path is System > Tools > Debug > Diagnostics. The left sidebar contains a menu with the following items: Dashboard, Network Configuration, Network Security, System, Tools (highlighted with a red box and circled '2'), Debug (highlighted with a red box and circled '3'), Ping, and Tracert. In the main content area, the 'Diagnostics' section is active, and a 'Collect' button is highlighted with a red box and circled '4'. A modal dialog box is open in the center, displaying 'Please wait...' and 'Collecting diagnostic information...'. At the bottom of the interface, the 'System View' button is highlighted with a red box and circled '1'. The bottom right corner shows system status indicators: Access Points (100% green, 0% grey, 0% red), Clients (5), and Event Logs (0 red, 0 grey, 800 yellow, 224 blue).

# 収集した診断ログをダウンロードする

System > File Systemsでflash:/diag\_AC\_yyyymmdd-hhmmss.tar.gzをチェックしDownloadを選択

The screenshot shows the H3C WX1840H File System Management interface. The left sidebar contains navigation options: Actions, Dashboard, Network Configuration, Network Security, System (highlighted with a red box and circled '2'), Event Logs, Resource, File Systems (highlighted with a red box and circled '3'), License Management, Administrators, and Management. The main content area displays the File System Management page for the 'flash:' storage. A table lists files with columns for Name, Size (bytes), Time, Directory, and Actions. The file 'flash:/diag\_AC\_20220206-155614.tar.gz' is selected (checkbox checked, circled '4'). Below the table, the 'Download' button is highlighted with a red box and circled '5'. At the bottom, the 'System View' button is highlighted with a red box and circled '1'. The status bar at the bottom right shows 'Access Points' (100% green, 0% grey, 0% red), 'Clients' (5), and 'Event Logs' (0 red, 0 grey, 801 yellow, 223 blue). A file browser window at the bottom shows 'flash\_\_diag\_AC\_2...tar.gz'.

Name	Size(bytes)	Time	Directory	Actions
<input checked="" type="checkbox"/> flash:/diag_AC_20220206-155614.tar.gz	208655	2022-02-06 15:57:31	No	
<input type="checkbox"/> flash:/diagfile		2019-11-05 22:01:41	Yes	
<input type="checkbox"/> flash:/facebook.zip	262878	2021-12-11 16:30:23	No	
<input type="checkbox"/> flash:/freeradius.bin	1463296	2021-04-08 23:45:29	No	
<input type="checkbox"/> flash:/h3cjapan.zip	190739	2021-09-08 11:34:54	No	

# (オプション)ACをリブートする

System > Management > Reboot > Reboot Deviceを選択します。

The screenshot displays the H3C WX1840H management interface. The breadcrumb navigation path is System > System > Management > Reboot. The 'Reboot' tab is selected in the top navigation bar. In the left sidebar, the 'System' menu item is highlighted with a red box and a circled '2', and the 'Management' menu item is highlighted with a red box and a circled '3'. In the main content area, the 'Reboot Device' button is highlighted with a red box and a circled '5', and the 'Reboot' tab in the top navigation bar is highlighted with a red box and a circled '4'. At the bottom of the interface, the 'System View' button is highlighted with a red box and a circled '1'. The bottom status bar shows 'Access Points' at 100%, 'Clients' at 5, and 'Event Logs' at 225.

System > System > Management > Reboot

Settings Configuration Upgrade **Reboot** About

Reboot Device ⑤

② System

③ Management

① System View Network View

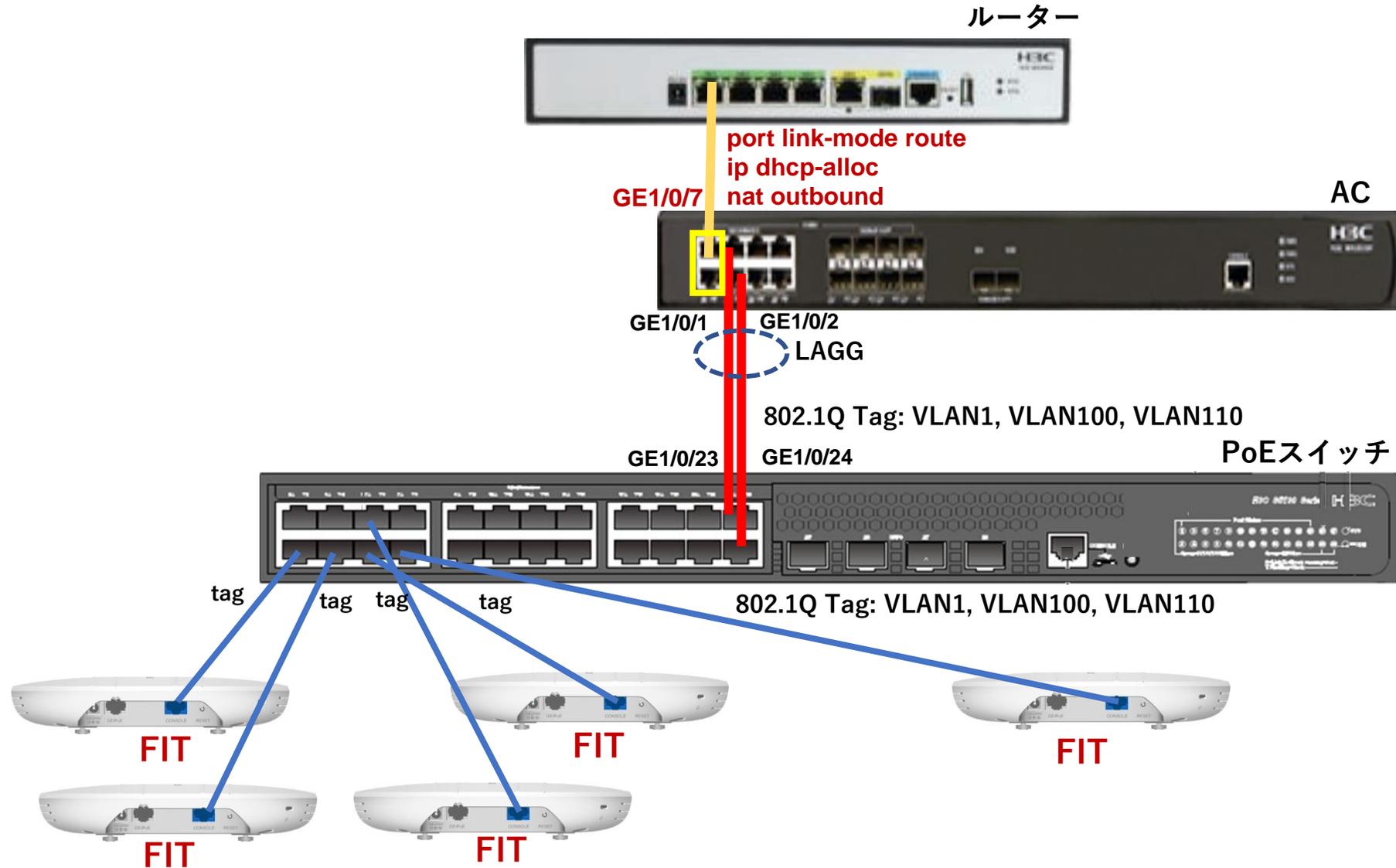
Access Points 100% 0% 0% Clients 5 Event Logs 0 0 799 225

https://oasiscloud.h3c.com:27443/wnm/frame/index.php?sessionid=2000014ea25bdf4f36a16e8a...



- 01 アクセスポイントをFITに設定する
- 02 ACを設定する
- 03 完成したコンフィグのコマンドでの確認
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- 05 PoEスイッチの設定
- 06 マニュアルについて

# PoEスイッチの設定



# PoEスイッチの設定

<H3C>**system-view**

System View: return to User View with Ctrl+Z.

[H3C]**vlan 100**

[H3C-vlan100]**port GigabitEthernet 1/0/1 to GigabitEthernet 1/0/8  
GigabitEthernet 1/0/23 GigabitEthernet 1/0/24**

[H3C-vlan100]quit

[H3C]**vlan 110**

[H3C-vlan110]**port GigabitEthernet 1/0/1 to GigabitEthernet 1/0/8  
GigabitEthernet 1/0/23 GigabitEthernet 1/0/24**

[H3C-vlan110]quit

[H3C]**interface GigabitEthernet 1/0/1**

[H3C-GigabitEthernet1/0/1]**port link-type trunk**

[H3C-GigabitEthernet1/0/1]**port trunk permit vlan all**

[H3C-GigabitEthernet1/0/1]**quit**

[H3C]interface GigabitEthernet 1/0/2

[H3C-GigabitEthernet1/0/2]port link-type trunk

[H3C-GigabitEthernet1/0/2]port trunk permit vlan all

[H3C-GigabitEthernet1/0/2]quit

[H3C]interface GigabitEthernet 1/0/3

[H3C-GigabitEthernet1/0/3]port link-type trunk

[H3C-GigabitEthernet1/0/3]port trunk permit vlan all

[H3C-GigabitEthernet1/0/3]quit

....

ポート4から8と23, 24まで同様

....

[H3C]**display vlan 100**

VLAN ID: 100

VLAN type: Static

Route interface: Not configured

Description: VLAN 0100

Name: VLAN 0100

Tagged ports:

GigabitEthernet1/0/1

GigabitEthernet1/0/2

GigabitEthernet1/0/3

GigabitEthernet1/0/4

GigabitEthernet1/0/5

GigabitEthernet1/0/6

GigabitEthernet1/0/7

GigabitEthernet1/0/8

GigabitEthernet1/0/23

GigabitEthernet1/0/24

Untagged ports: None

[H3C]**interface Bridge-Aggregation 1**

[H3C-Bridge-Aggregation1]quit

[H3C]interface GigabitEthernet 1/0/23

[H3C-GigabitEthernet1/0/23]**port link-aggregation group 1**

[H3C-GigabitEthernet1/0/23]quit

[H3C]interface GigabitEthernet 1/0/24

[H3C-GigabitEthernet1/0/24]**port link-aggregation group 1**

[H3C-GigabitEthernet1/0/24]quit

[H3C]**save force**

Validating file. Please wait...

Saved the current configuration to mainboard device successfully.

[H3C]



- 01 アクセスポイントをFITに設定する
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- 06 マニュアルについて

# 日本語マニュアル、FAQなど

<https://knowledge-jp.h3c.com/TechDoc/index>

## 製品別検索

ルーター

スイッチ

WLAN

セキュリティ

(ファイアウォール)

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UIS(仮想化)

ネットワーク管理

(snmpベースiMC)

AD-NET ソリューション

サーバ

CloudNet

(Cloud管理)

Cloud Lab

(シュミレーター)

テクニカルサポート

Others

# 無線関連の日本語マニュアル、FAQなど

- ・構築のための事前調査

★ [H3C WLAN構築のための調査の運用\(翻訳\)](#)

- ・トラブルシューティング

★ [H3C 初級WiFi トラブルシューティングガイド](#)

[H3C Wireless製品導入と保守ガイド\(翻訳\)](#)

★ [H3Cワイヤレス製品トラブルシューティングガイド\(翻訳\)](#)

[WLAN製品管理とトラブルシューティング](#)

[ワイヤレスに共通の問題点での情報収集ガイド\(翻訳\)](#)

[ワイヤレスクライアント接続失敗トラブルシューティング\\_V7\(翻訳\)](#)

- ・FAQ

[APから電波が出ていない？](#)

[無線一般のよくある質問](#)

[H3Cワイヤレス製品テーマ別FAQ\(V7\)\(翻訳\)](#)

# 英文ニュアルのダウンロードサイト

https://www.h3c.com/jp/



http://www.h3c.com/en/Support/Resource\_Center/Technical\_Documents/

ログイン 国/地域 検索

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## サポート

すべて表示 >

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ソフトウェアのダウンロード  
知識ベース

テクニカルドキュメント ②  
テクニカルドキュメント

### ポリシー

サービス掲示板  
チャンネルサービス

製品ライフサイクル管理戦略  
サービス・保証

### オンラインヘルプ

# 製品カテゴリーの選択

Products by Category

 Cloud Computing	 Routers	 Switches
 Wireless	 Security	 Network Management
 SDN	 License Server	 Transceiver Modules
 NFV	 Servers	 Oasis

# 個別製品の選択

## H3C WX1800H Series Access Controllers

H3C WX1800H Series Access Controllers

[Learn More →](#)

## H3C WX5800H Series Access Controllers

H3C WX5800H Series Access Controllers

[Learn More →](#)

## H3C 802.11ax Series Access Points

H3C WA6638 Access Point

[Learn More →](#)

## H3C WX3800H Series Access Controllers

H3C WX3800H Series Access Controllers

[Learn More →](#)

## H3C 802.11ac Wave2 Series Access Points

H3C WA510H Access Point

[Learn More →](#)

H3C WA6636 Access Point

[Learn More →](#)

H3C WA530 Access Point

[Learn More →](#)

H3C WA6630X Access Point

[Learn More →](#)

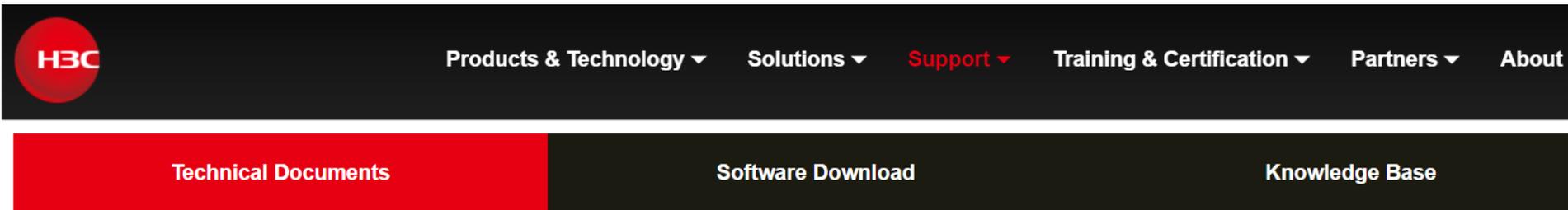
H3C WA530X Access Point

[Learn More →](#)

H3C WA6628X Access Point

[Learn More →](#)

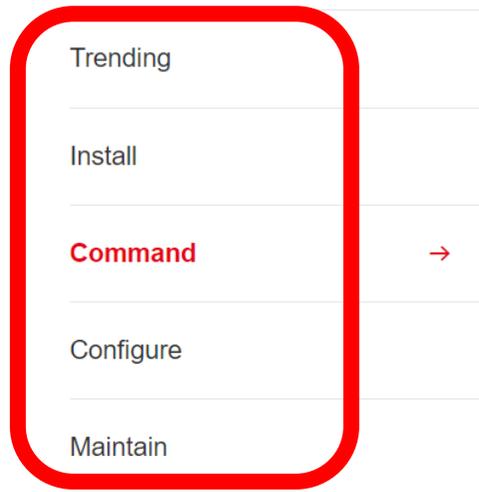
# 設置、コマンド、コンフィグ、保守マニュアル



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Technical Documents Software Download Knowledge Base

## Technical Documents



- Trending
- Install
- Command** →
- Configure
- Maintain

## Command References

Title	Date
<a href="#">H3C Access Controllers Command References(R5426P02)-6W103</a>	10-12-2020
→ <a href="#">00-About the H3C command references</a>	
→ <a href="#">01-License Management Command Reference</a>	
→ <a href="#">02-Fundamentals Command Reference</a>	
→ <a href="#">03-System Management Command Reference</a>	
→ <a href="#">04-Interface Command Reference</a>	
→ <a href="#">05-Network Connectivity</a>	
→ <a href="#">06-WLAN Access Command Reference</a>	
→ <a href="#">07-AP and WT Management Command Reference</a>	
→ <a href="#">08-WLAN Security Command Reference</a>	



補足資料  
冗長化  
Intelligent Resilient  
Framework(IRF)

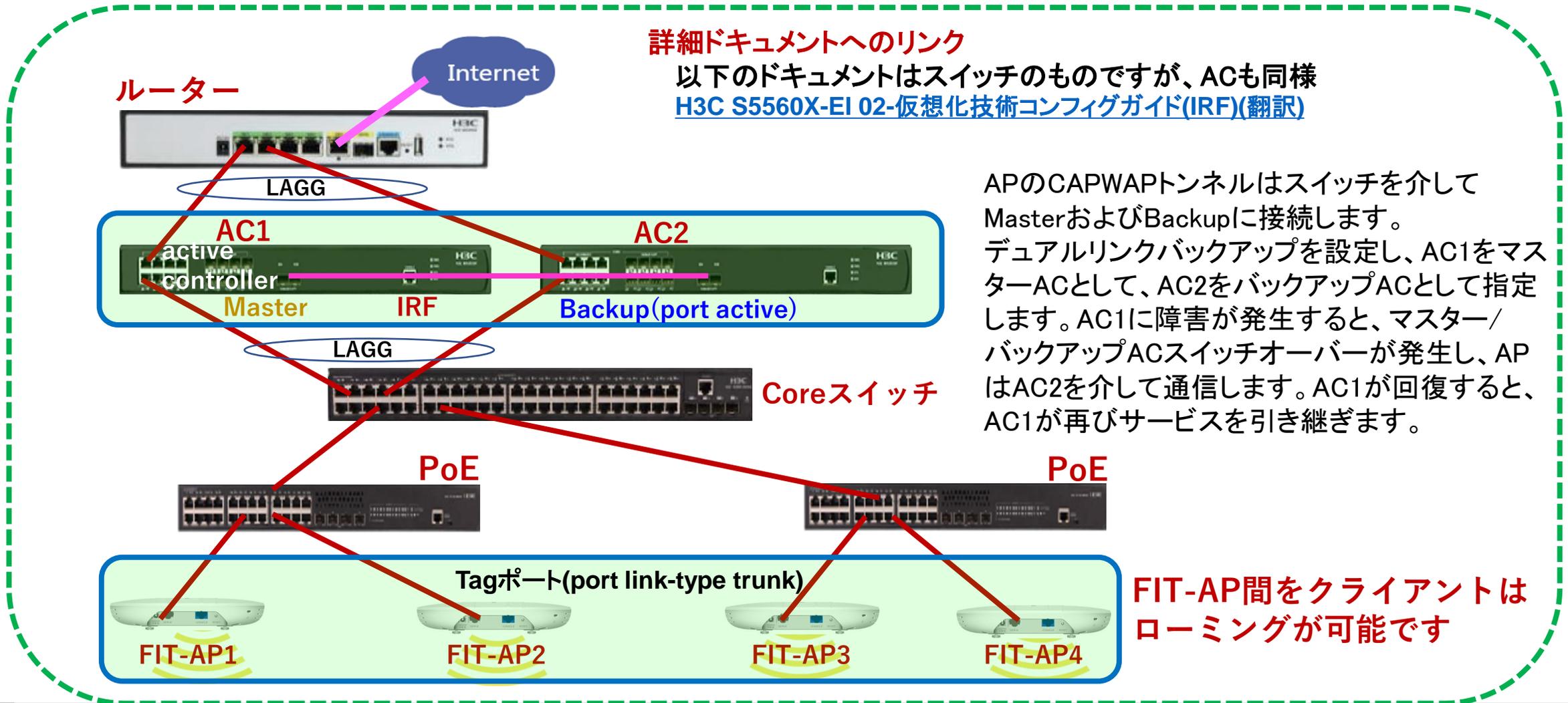
# 冗長化(IRF:1+nの冗長化)

## 詳細ドキュメントへのリンク

以下のドキュメントはスイッチのものですが、ACも同様  
[H3C S5560X-EI 02-仮想化技術コンフィグガイド\(IRF\)\(翻訳\)](#)

APのCAPWAPトンネルはスイッチを介してMasterおよびBackupに接続します。デュアルリンクバックアップを設定し、AC1をマスターACとして、AC2をバックアップACとして指定します。AC1に障害が発生すると、マスター/バックアップACスイッチオーバーが発生し、APはAC2を介して通信します。AC1が回復すると、AC1が再びサービスを引き継ぎます。

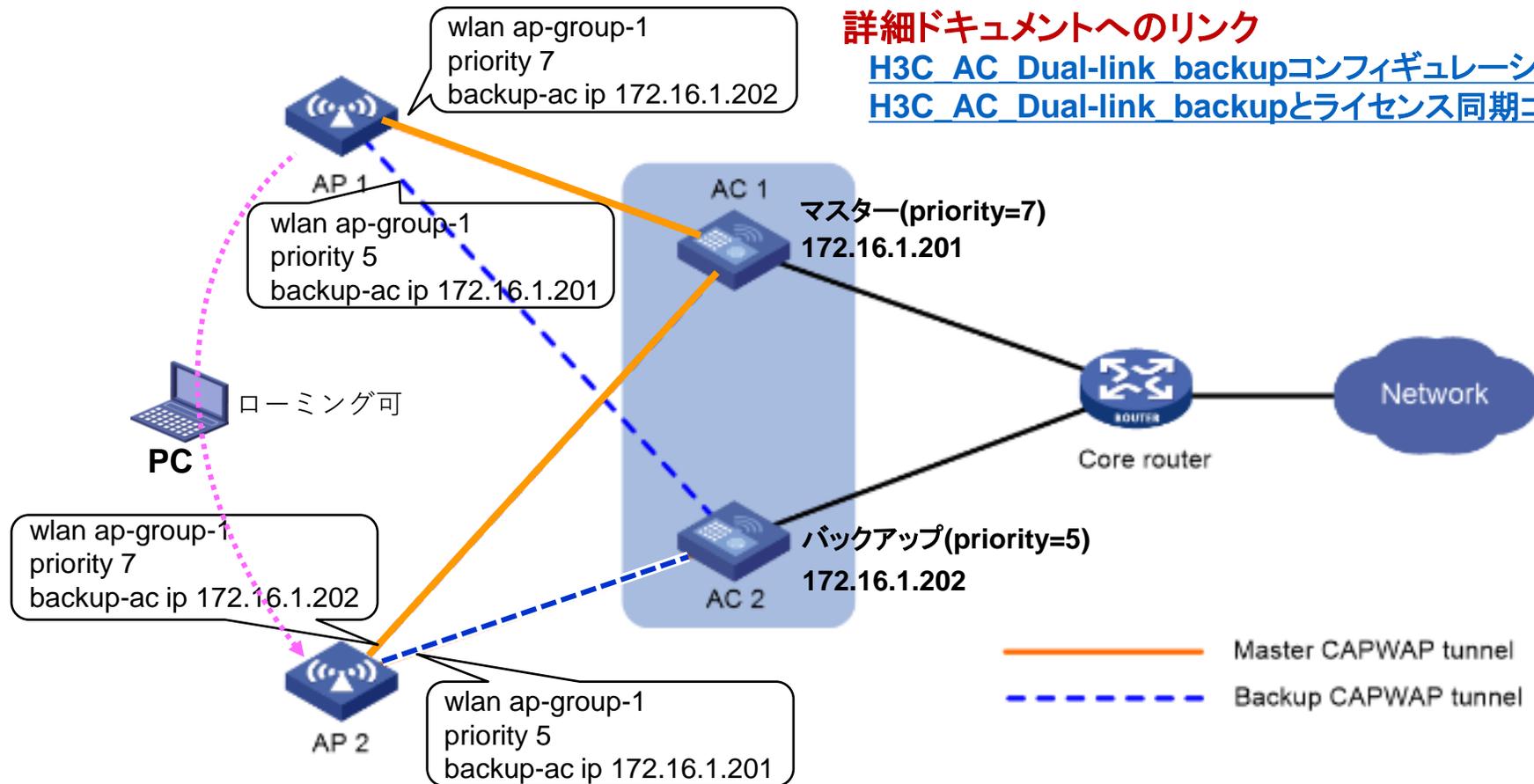
FIT-AP間をクライアントはローミングが可能です





補足資料  
Dual link backup(冗長化)

# 冗長化(Dual link backup:1+1の冗長化)



# AC1

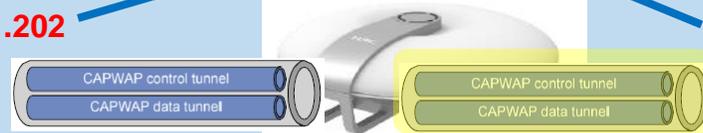
```
wlan service-template north
ssid south
client forwarding-location ap
fail-permit enable keep-online
service-template enable
#
interface Vlan-interface10
ip address 172.16.1.201 255.255.255.0
#
wlan ap-group ap-group-1
priority 7
region-code JP
backup-ac ip 172.16.1.202
vlan 10
ap AP1
ap AP2
ap-model WA6320-JP
radio 1
radio enable
service-template north vlan 11
radio 2
radio enable
service-template south vlan 12
gigabitethernet 1
port link-type trunk
undo port trunk permit vlan 1
port trunk permit vlan 10 11 12
port trunk pvid vlan 10
#
```

```
wlan ap-group ap-group-2
priority 7
region-code JP
backup-ac ip 172.16.1.202
```

# AC2

```
wlan service-template north
ssid south
client forwarding-location ap
fail-permit enable keep-online
service-template enable
#
interface Vlan-interface10
ip address 172.16.1.202 255.255.255.0
#
wlan ap-group ap-group-1
priority 5 priority は INTEGER <0-7>
region-code JP
backup-ac ip 172.16.1.201
vlan 10
ap AP1
ap AP2
ap-model WA6320-JP
radio 1
radio enable
service-template north vlan 11
radio 2
radio enable
service-template south vlan 12
gigabitethernet 1
port link-type trunk
undo port trunk permit vlan 1
port trunk permit vlan 10 11 12
port trunk pvid vlan 10
#
```

```
wlan ap-group ap-group-2
priority 5
region-code JP
backup-ac ip 172.16.1.201
```

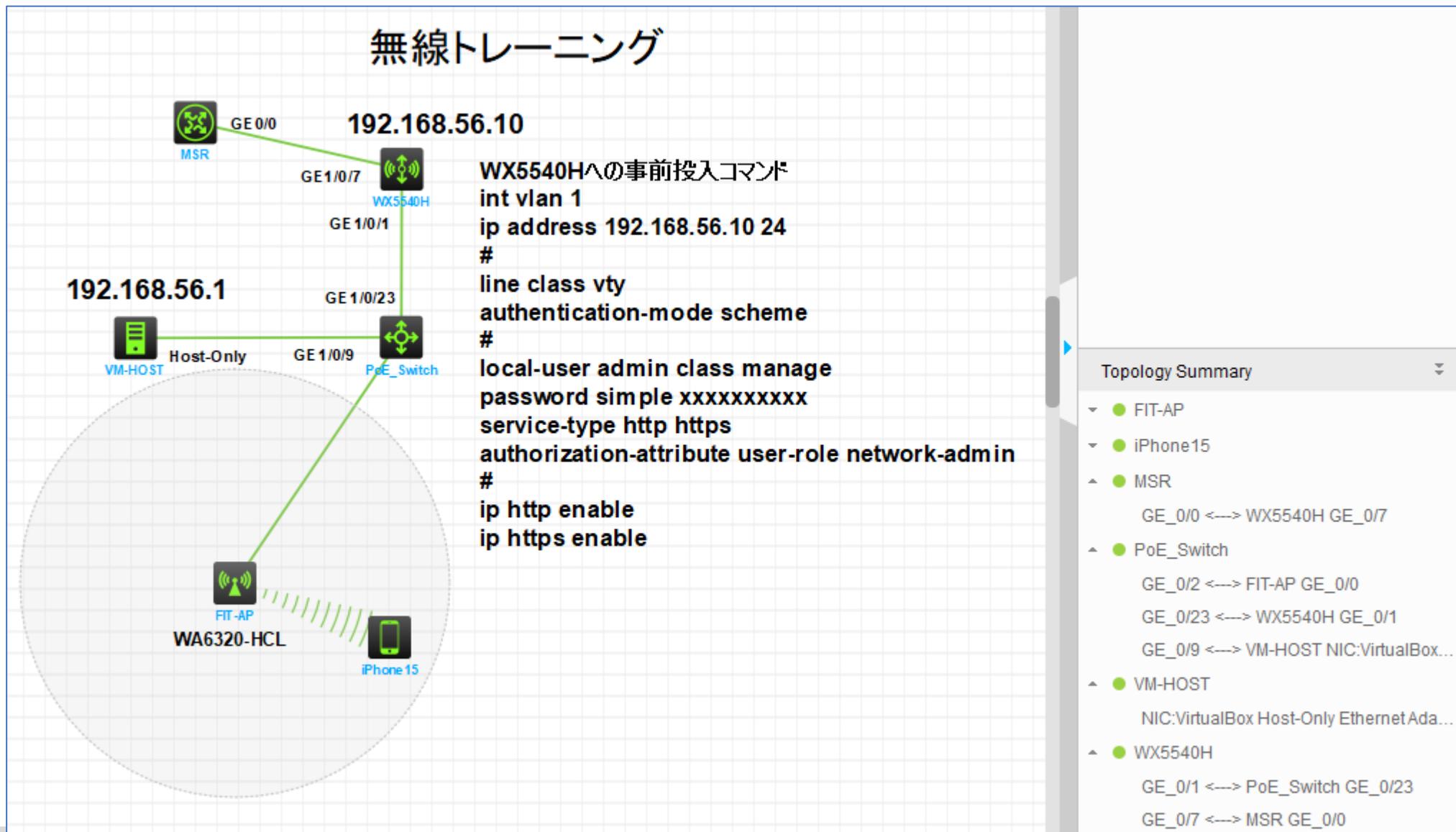


障害時の切り替えは10分程度かかる  
fail permitが設定されているので、既存クライアントはACを経由しないので接続を続ける



## 補足資料 HCL(シュミレーター)例

# HCL(シュミレーター)例



## HCL(シュミレーター)で以下のコンフィグを追加

※シュミレーターで用意されているAPはWA6320-HCLだけなので以下の設定を追加します

```
WX5540Hに設定を追加
#
wlan service-template h3c-hcl
  ssid h3c-hcl
  service-template enable
#
wlan ap 66ea-509b-0400 model WA6320-HCL
  serial-id H3C_66-EA-50-9B-04-00
  vlan 1
  radio 1
  radio enable
  service-template h3c-hcl
  radio 2
  gigabitethernet 1
#
```

※OracleVMのHost Only Ethernet adapterのデフォルトのIPアドレスが192.168.56.1でWX5540Hのvlan 1のアドレスを192.168.56.10に設定したので、WA6320-HCL用のdhcpサーバーをPoEスイッチに192.168.56.0用に設定しました。

```
PoE Switchに設定を追加
#
dhcp enable
#
dhcp server ip-pool phone
  gateway-list 192.168.56.2
  network 192.168.56.0 mask 255.255.255.0
  address range 192.168.56.51 192.168.56.100
#
interface Vlan-interface1
  ip address 192.168.56.2 255.255.255.0
#
```

**H3C**

[www.h3c.com](http://www.h3c.com)