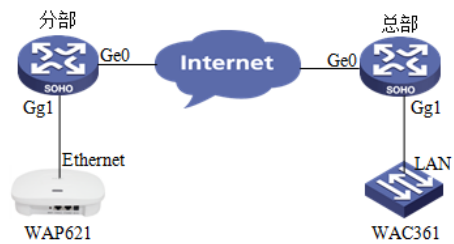


## 知 分部AP通过公网注册上总部AC配置案例

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目前无线控制器在总部，分部有一台瘦AP。现在想要实现分部AP在总部无线控制器上进行注册。



### 1、分部侧路由器配置

```
interface Ethernet0/0 //配置外网接口
nat outbound
ip address 1.1.1.1 255.255.255.0
#
interface Vlan-interface1 //内网接口设置
ip address 192.168.1.1 255.255.255.0
#
interface Ethernet0/1
port link-mode bridge
#
dhcp server ip-pool 1
network 192.168.1.0 mask 255.255.255.0
gateway-list 192.168.1.1
option 43 hex 80070000 01010101 02
#
dhcp enable
ip route-static 0.0.0.0 0.0.0.0 1.1.1.2
注：option43属性中写的地址为总部侧公网地址
```

### 2、总部侧设备配置：

```
interface GigabitEthernet0/0 //总部侧外网配置
port link-mode route
nat outbound
nat server 1 protocol udp global current-interface 12222 inside 192.168.1.2 12222
nat server 2 protocol udp global current-interface 12223 inside 192.168.1.2 12223
ip address 1.1.1.2 255.255.255.0
#
interface Vlan-interface1 //配置内网接口
ip address 192.168.1.1 255.255.255.0
#
interface GigabitEthernet0/1
port link-mode bridge
#
dhcp server ip-pool vlan1
network 192.168.1.0 mask 255.255.255.0
gateway-list 192.168.1.1
#
dhcp enable
#
ip route-static 0.0.0.0 0.0.0.0 1.1.1.1
```

### 3、WAC361的配置：

```
wlan auto-ap enable \\开启自动注册和自动固化
wlan auto-persistent enable
#
interface Vlan-interface1 \\LAN口IP地址最好固定
ip address 192.168.1.2 255.255.255.0
#
```

```
ip route-static 0.0.0.0 0.0.0.0 192.168.1.1    \设置默认路由
```

### 实验验证: (AP上收集的信息)

```
BootWare Validating...
```

```
Press Ctrl+B to enter extended boot menu...    \尝试本地获取版本
```

```
Starting to get the main application file--flash:/wa2600a_fit.bin!
```

```
The main application file does not exist--flash:/wa2600a_fit.bin!
```

```
Starting to get the backup application file--flash:/backup.bin!
```

```
The backup application file does not exist--flash:/backup.bin!
```

```
Starting to get the secure application file--flash:/secure.bin!
```

```
The secure application file does not exist--flash:/secure.bin!
```

```
Booting App fails!    \获取失败后获取地址
```

```
Trying to get the IP address from the DHCP server.....
```

```
DHCP server& # 39;s IP address is 192.168.0.1
```

```
Client& # 39;s assigned address is 192.168.0.2
```

```
DNS domain name got from DHCP server is
```

```
DNS server& # 39;s IP address is 0.0.0.0
```

```
Default Gateway& # 39;s IP address is 192.168.0.1
```

```
This client& # 39;s subnet mask is 255.255.255.0
```

```
The length of option 43 is: 9
```

```
Change State : Idle to Broadcast Discovery
```

```
Change State : Broadcast Discovery to Unicast Discovery
```

```
Use Option 43:
```

```
Getting AC& # 39;s IP Address 1.1.1.2    //获取到对端公网的IP地址
```

```
Change State : Unicast Discovery to Join
```

```
Change State : Join to JoinAck
```

```
Change State : JoinCfm to Image Download.....
```

```
.....
```

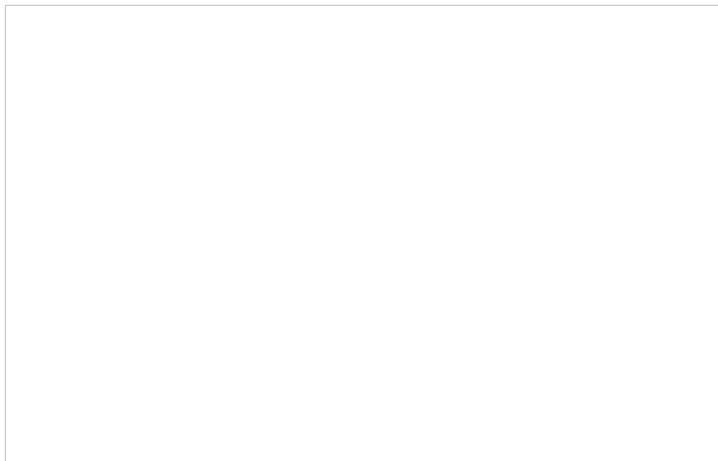
```
[State : ImageLoad] Image download successful
```

```
[State : Idle] Reset request, rebooting the AP
```

```
Rebooting.....
```

```
System is starting...    //注册成功, 系统启动
```

在AC上可以查询到AP的信息



- 1、在这种组网中分部侧DHCP服务器需要支持DHCP的option 43属性, 给AP下发IP地址的同时下发AC的IP地址。
- 2、总部侧路由器需要支持映射, 将用户AP注册的UDP12222和UDP的12223端口映射被AC。因为注册使用的UDP端口为12222和12223端口。
- 3、在此类组网中, 分部侧的无线设备是不能和分部的网段互访的。因为分部侧流量无法通过LWAPP隧道。如果想要互访需要在分部和总部侧做VPN, 利用VPN来连接两个内网。
- 4、客户端连入后还是会在获取总部侧的IP地址, 进行在AC上进行集中转发。