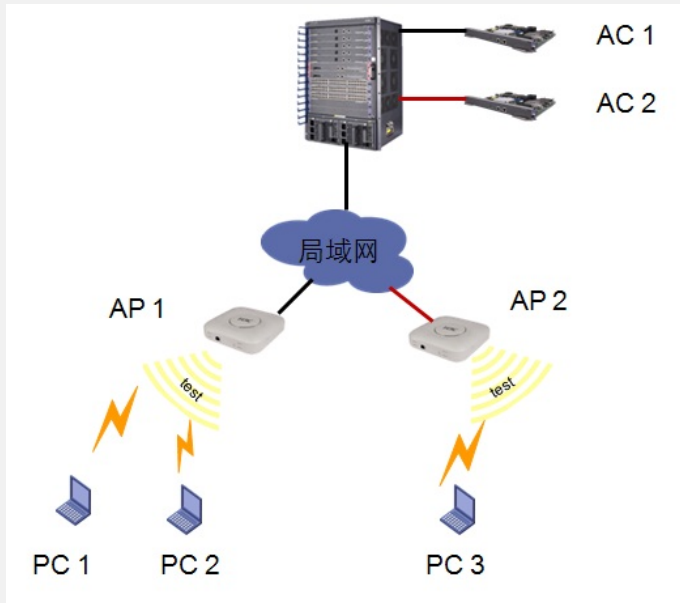


### WX6000E系列AC板卡板间隔离及基于SSID二层功能配合使用配置案例

#### 一、组网需求:

WX6000E系列AC、FIT AP、交换机、便携机 (安装有无线网卡)

#### 二、组网图:



#### 三、特性介绍:

随着运营商对WLAN网络的大规模建设, 我司WLAN产品性能日益提升, 目前WX6000E系列AC单块板卡支持AP最大数量达到1024, 整机性能极大地得到了提升。但是在后续的使用中, 问题日益明显, 由于AC使用的是集中转发模式, 如果不对这些广播、多播报文加以控制势必引起一些列恶劣的后果。为了更好地控制这些广播、组播报文, 本文提供一种基于SSID开启二层隔离并在WX6000E交换板开启板间隔离的方案, 该方案不要手动放通网关MAC, 实施起来更加方便。

#### 四、配置信息:

##### 1. AC板卡配置:

```
dis cur
#
version 5.20, Release 2308P01
#
sysname AC
#
domain default enable system
#
telnet server enable
#
port-security enable
#
vlan 1
#
vlan 184
#
vlan 1001
#
dhcp server ip-pool ap
```

```
network 10.0.1.0 mask 255.255.255.0
gateway-list 10.0.1.1
#
dhcp server ip-pool client
network 10.0.2.0 mask 255.255.255.0
gateway-list 10.0.2.1
#
local-user admin
password cipher l84AY)\`*#)%E:#"3&!A!!
authorization-attribute level 3
service-type telnet
#
wlan rrm
dot11a mandatory-rate 6 12 24
dot11a supported-rate 9 18 36 48 54
dot11b mandatory-rate 1 2
dot11b supported-rate 5.5 11
dot11g mandatory-rate 5.5 11
dot11g supported-rate 12 18 24 36 48 54
dot11n mandatory maximum-mcs 15
dot11n support maximum-mcs 15
#
wlan service-template 1 clear
ssid test
bind WLAN-ESS 1
user-isolation enable
service-template enable
#
interface Bridge-Aggregation1
port link-type trunk
undo port trunk permit vlan 1
port trunk permit vlan 184 1001
#
interface NULL0
#
interface Vlan-interface184
ip address 10.207.1.1 255.255.255.0
#
interface Vlan-interface1001
ip address 10.207.2.1 255.255.255.0
#
interface M-GigabitEthernet1/0/0
ip address 192.168.1.1 255.255.255.0
#
interface Ten-GigabitEthernet1/0/1
port link-type trunk
undo port trunk permit vlan 1
port trunk permit vlan 184 1001
port link-aggregation group 1
#
interface Ten-GigabitEthernet1/0/2
port link-type trunk
undo port trunk permit vlan 1
port trunk permit vlan 184 1001
port link-aggregation group 1
#
interface WLAN-ESS1
port access vlan 1001
#
wlan ap ap model WA2100
serial-id 210235A22WC117004854
radio 1
service-template 1
radio enable
```

```
#
dhcp enable
#
load xml-configuration
#
user-interface aux 0 1
user-interface vty 0 4
#
Return
```

## 2. WX6000E交换板配置:

```
dis cur
#
version 5.20, Feature 6632
#
sysname WX6108-1
#
irf priority 0
#
domain default enable system
#
telnet server enable
#
switch-mode standard
switch-mode normal slot 3
switch-mode normal slot 4
switch-mode normal slot 5
switch-mode normal slot 6
switch-mode normal slot 7
slot-isolate enable slot 3 4 5 6
#
vlan 1
#
vlan 184
#
vlan 1001
#
radius scheme system
#
domain system
access-limit disable
state active
idle-cut disable
self-service-url disable
#
local-user gaowei
password cipher %2VL6A+GV=(KI!_H#S>*5A!!
authorization-attribute level 3
service-type ssh telnet
#
interface Bridge-Aggregation1
port link-type trunk
undo port trunk permit vlan 1
port trunk permit vlan 184 1001
#
interface Vlan-interface184
ip address 10.207.4.2 255.255.255.0
#
interface Vlan-interface4030
port link-mode bridge
#
interface GigabitEthernet7/0/1
port link-mode bridge
#
```

```
interface GigabitEthernet7/0/2
port link-mode bridge
#
interface GigabitEthernet7/0/3
port link-mode bridge
#
interface GigabitEthernet7/0/4
port link-mode bridge
#
interface GigabitEthernet7/0/5
port link-mode bridge
#
interface GigabitEthernet7/0/6
port link-mode bridge
#
interface GigabitEthernet7/0/7
port link-mode bridge
#
interface GigabitEthernet7/0/8
port link-mode bridge
#
interface GigabitEthernet7/0/9
port link-mode bridge
#
interface GigabitEthernet7/0/10
port link-mode bridge
#
interface GigabitEthernet7/0/11
port link-mode bridge
#
interface GigabitEthernet7/0/12
port link-mode bridge
#
interface GigabitEthernet7/0/13
port link-mode bridge
#
interface GigabitEthernet7/0/14
port link-mode bridge
#
interface GigabitEthernet7/0/15
port link-mode bridge
#
interface GigabitEthernet7/0/16
port link-mode bridge
#
interface GigabitEthernet7/0/17
port link-mode bridge
shutdown
#
interface GigabitEthernet7/0/18
port link-mode bridge
shutdown
#
interface GigabitEthernet7/0/19
port link-mode bridge
shutdown
#
interface GigabitEthernet7/0/20
port link-mode bridge
shutdown
#
interface GigabitEthernet7/0/21
port link-mode bridge
shutdown
```

```
#
interface GigabitEthernet7/0/22
port link-mode bridge
shutdown
#
interface GigabitEthernet7/0/23
port link-mode bridge
shutdown
#
interface GigabitEthernet7/0/24
port link-mode bridge
shutdown
#
interface GigabitEthernet7/0/25
port link-mode bridge
#
interface GigabitEthernet7/0/26
port link-mode bridge
#
interface GigabitEthernet7/0/27
port link-mode bridge
#
interface GigabitEthernet7/0/28
port link-mode bridge
#
interface GigabitEthernet7/0/29
port link-mode bridge
#
interface GigabitEthernet7/0/30
port link-mode bridge
#
interface GigabitEthernet7/0/31
port link-mode bridge
#
interface GigabitEthernet7/0/32
port link-mode bridge
#
interface M-Ethernet0/0/0
ip address 192.168.0.1 255.255.255.0
#
interface Ten-GigabitEthernet3/0/1
port link-mode bridge
port link-type trunk
undo port trunk permit vlan 1
port trunk permit vlan 184 1001
port link-aggregation group 1
#
interface Ten-GigabitEthernet3/0/2
port link-mode bridge
port link-type trunk
undo port trunk permit vlan 1
port trunk permit vlan 184 1001
port link-aggregation group 1
#
dhcp enable
#
load xml-configuration
#
load tr069-configuration
#
user-interface aux 0 1
user-interface vty 0 4
#
return
```

## 五、主要配置步骤：

### 1. WX6000E主要配置

# 在W6000E交换板卡配置板间隔离

```
slot-isolate enable slot 3 4 5 6
```

# 创建聚合组并将相应接口添加其中

```
interface Bridge-Aggregation1
port link-type trunk
undo port trunk permit vlan 1
port trunk permit vlan 184 1001
#
```

```
interface Ten-GigabitEthernet3/0/1
port link-mode bridge
port link-type trunk
undo port trunk permit vlan 1
port trunk permit vlan 184 1001
port link-aggregation group 1
#
```

```
interface Ten-GigabitEthernet3/0/2
port link-mode bridge
port link-type trunk
undo port trunk permit vlan 1
port trunk permit vlan 184 1001
port link-aggregation group 1
```

### 2. AC板卡主要配置

# 创建ESS接口

```
interface WLAN-ESS1
port access vlan 1001
```

# 创建服务模板并在服务模板下开启二层隔离功能

```
wlan service-template 1 clear
ssid H3C
bind WLAN-ESS 1
user-isolation enable
service-template enable
```

# 创建AP并应用服务模板

```
wlan ap ap model WA2100
serial-id 210235A22WC117004854
radio 1
service-template 1
radio enable
```

# 创建聚合组并将相应接口添加其中

```
interface Bridge-Aggregation1
port link-type trunk
undo port trunk permit vlan 1
port trunk permit vlan 184 1001
#
```

```
interface Ten-GigabitEthernet1/0/1
port link-type trunk
undo port trunk permit vlan 1
port trunk permit vlan 184 1001
port link-aggregation group 1
#
```

```
interface Ten-GigabitEthernet1/0/2
port link-type trunk
undo port trunk permit vlan 1
port trunk permit vlan 184 1001
port link-aggregation group 1
```

## 六、结果验证：

1. 在同一AC下的两台终端属于相同VLAN，终端1开启组播、广播源，终端2通过抓包

比对开启隔离功能前后接收报文情况，开启隔离功能后将不会再收到终端1的广播、组播报文。

2. 在两台AC下的两台终端，其中终端1属于AC1，终端3属于AC2，且两个终端都是相同VLAN。终端1开启组播、广播源，终端3通过抓包比对开启隔离功能前后接收报文情况，开启隔离功能后将不会再收到终端1的广播、组播报文。