

# Configure the Ethernet Port in Instant Access Point

This is how to configure Ethernet ports for various VLANs using AP-205H

Wired

Help

Wired Networks

Wired Networks:

wired-SetMeUp

default\_wired\_port\_profile

New

Edit

Delete

Network assignments:

0/0:

default\_wired\_port\_profile

0/1:

wired-SetMeUp

0/2:

wired-SetMeUp

0/3:

wired-SetMeUp

0/4:

wired-SetMeUp

Wired Users

Wired Users

OK

Cancel

New Wired Network

Help

1

Wired Settings

2

VLAN

3

Security

4

Access

Wired Settings

Name:

E1-Port-Prof

Primary usage:

☒ Employee

☐ Guest

POE:

Disabled

Admin status:

Up

Speed/Duplex:

Auto

Auto

Content filtering:

Disabled

Uplink:

Disabled

Spanning tree:

Disabled

Inactivity timeout:

1000

sec.

New Wired Network

Help

1

Wired Settings

2

VLAN

3

Security

4

Access

VLAN Management

Mode:

Access

Client IP assignment:

Network assigned

Access VLAN:

10

VLAN Assignment Rules

New

Edit

Delete

New Wired Network

Help

1

Wired Settings

2

VLAN

3

Security

4

Access

Security

Port type:

Trusted

New Wired Network

Help

1

Wired Settings

2

VLAN

3

Security

4

Access

Access Rules

More Control

- Role-based

- Network-based

- Unrestricted

Less Control

No restrictions on access based on destination or type of traffic

Back

Finish

Cancel

Similarly for E2 port and this time we'll assign it to VLAN 20

Wired
[Help](#)

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Wired Networks

Wired Networks:

wired-SetMeUp  
default\_wired\_port\_profile  
E1-Port-Prof  
**E2-Port-Prof**

New Edit Delete

Network assignments:

0/0: default\_wired\_port\_profile
0/1: wired-SetMeUp
0/2: wired-SetMeUp
0/3: wired-SetMeUp
0/4: wired-SetMeUp

---

Wired Users

Wired Users

OK Cancel

Now we'll assign these two Wired port profiles networks to 0/1 and 0/2

Wired
[Help](#)

---

Wired Networks

Wired Networks:

wired-SetMeUp  
default\_wired\_port\_profile  
E1-Port-Prof  
**E2-Port-Prof**

New Edit Delete

Network assignments:

0/0: default\_wired\_port\_profile
0/1: E1-Port-Prof
0/2: E2-Port-Prof
0/3: wired-SetMeUp
0/4: wired-SetMeUp

---

Wired Users

Wired Users

OK Cancel

Now we ensure that the VLAN 10 and 20 are tagged on the switch port where the IAP is connected to. In this case the IAP is connected to port 3.

```
Aruba-2930F-Lab# sh vlan 10
```

# Status and Counters - VLAN Information - VLAN 10

VLAN ID : 10  
 Name : Lab  
 Status : Port-based  
 Voice : No  
 Jumbo : No  
 Private VLAN : none  
 Associated Primary VID : none  
 Associated Secondary VIDs : none

Port	Information	Mode	Unknown VLAN	Status
2		Tagged	Learn	Up
3		Tagged	Learn	Up
5		Untagged	Learn	Down
6		Untagged	Learn	Down
7		Untagged	Learn	Down
8		Untagged	Learn	Down
9		Tagged	Learn	Down
10		Tagged	Learn	Down

Aruba-2930F-Lab# sh vlan 20

# Status and Counters - VLAN Information - VLAN 20

VLAN ID : 20  
 Name : VLAN20  
 Status : Port-based  
 Voice : No  
 Jumbo : No  
 Private VLAN : none  
 Associated Primary VID : none  
 Associated Secondary VIDs : none

Port	Information	Mode	Unknown VLAN	Status
2		Tagged	Learn	Up
3		Tagged	Learn	Up
5		Tagged	Learn	Down
7		Tagged	Learn	Down
8		Tagged	Learn	Down
9		Tagged	Learn	Down
10		Tagged	Learn	Down

Aruba-2930F-Lab#

Aruba-2930F-Lab# sh int sta

Port	Name	Status	Config-mode	Speed	Type	Tagged	Untagged
1	Internet	Up	Auto	1000FDx	100/1000T	No	192
2	RPi	Up	Auto	100FDx	100/1000T	multi	192
3	InstantAP	Up	Auto	1000FDx	100/1000T	multi	4093
4	SD-Gwy-E1	Down	Auto	1000FDx	100/1000T	No	4094
5		Down	Auto	1000FDx	100/1000T	multi	10
6		Down	Auto	1000FDx	100/1000T	No	10
7		Down	Auto	1000FDx	100/1000T	multi	10
8		Down	Auto	1000FDx	100/1000T	20	10
9		Down	Auto	1000FDx	1000T-SFP	multi	192
10		Down	Auto	10GigFD	10GbE-GEN	multi	192

Aruba-2930F-Lab#

Now when you connect a laptop to E1 port you should get an IP address from VLAN 10 and E2 from VLAN 20.  
 Note that we are running DHCP on the LAN switch

```

dhcp-server pool "VLAN10"
  authoritative
  default-router "10.10.10.1"
  dns-server "192.168.1.130"
  domain-name "workgroup.com"
  network 10.10.10.0 255.255.255.0
  range 10.10.10.100 10.10.10.199
  exit
dhcp-server pool "VLAN20"
  default-router "10.10.20.1"
  dns-server "8.8.8.8"
  lease 00:08:00
  network 10.10.20.0 255.255.255.0
  range 10.10.20.100 10.10.20.199
  exit
dhcp-server pool "VLAN30"
  default-router "10.10.30.1"
  dns-server "8.8.8.8"
  network 10.10.30.0 255.255.255.0
  range 10.10.30.100 10.10.30.199
  exit
dhcp-server enable

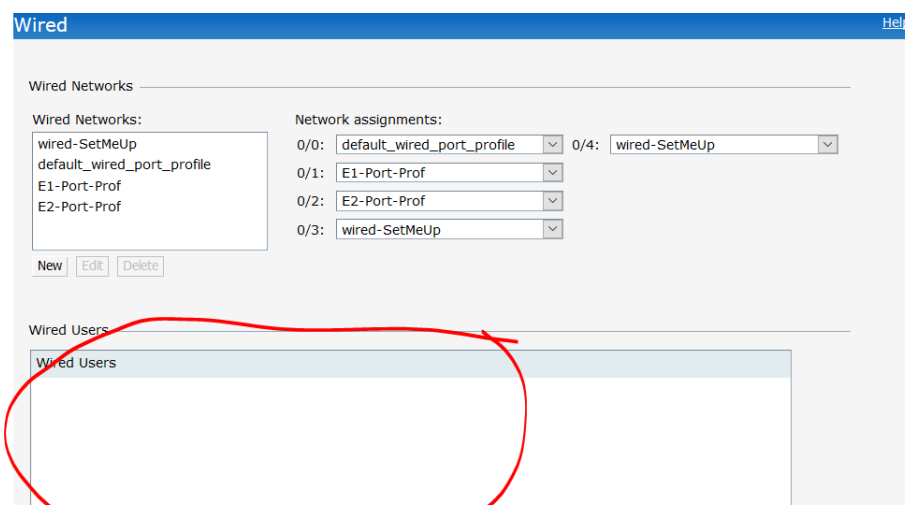
```

Note that even though the laptop gets an IP address from VLAN 10 but it will not be shown on the dashboard. The only way we can see the client is by checking the datapath session table.

```

00:0b:86:ed:49:54# sh datapath session | incl 10.10
10.10.10.251 10.10.10.9 1 15227 2048 0 0 0 0 dev4 36 0 0 FYCI
10.10.10.251 10.10.10.9 1 15228 2048 0 0 0 0 dev4 31 0 0 FYCI
10.10.10.251 10.10.10.9 1 15229 2048 0 0 0 0 dev4 2c 0 0 FYCI
10.10.10.251 10.10.10.9 1 15230 2048 0 0 0 0 dev4 27 0 0 FYCI
10.10.10.251 52.230.83.250 6 61411 443 0 0 0 13 dev4 b29 e 97a SC
10.10.10.9 10.10.10.251 1 15228 0 0 0 0 0 dev4 31 0 0 FI
10.10.10.9 10.10.10.251 1 15229 0 0 0 0 0 dev4 2c 0 0 FI
10.10.10.9 10.10.10.251 1 15230 0 0 0 0 0 dev4 27 0 0 FI
10.10.10.9 10.10.10.251 1 15227 0 0 0 0 1 dev4 36 0 0 FI
10.10.10.251 52.230.83.250 6 61393 443 0 0 0 9 dev4 d76 8 261 SC
00:0b:86:ed:49:54#

```



And this is because we have trusted the port. Here we make the E1-Port-Prof untrusted and now we should be able to see the wired clients here.

Edit Wired Network
[Help](#)

1 Wired Settings
2 VLAN
3 Security
4 Access

### Security

Port type: Untrusted

MAC authentication: Disabled

802.1X authentication: Disabled

Here we see the wired client that is connected to port 0/1

Wired
[Help](#)

Wired Networks

Wired Networks:

wired-SetMeUp
default\_wired\_port\_profile
E1-Port-Prof
E2-Port-Prof

New Edit Delete

Network assignments:

0/0: default\_wired\_port\_profile
0/1: E1-Port-Prof
0/2: E2-Port-Prof
0/3: wired-SetMeUp

0/4: wired-SetMeUp

Wired Users

Name	MAC address	IP Address	OS	AP	Port
AriyaP	f0:de:f1:64:0a:82	10.10.10.251		00:0b:86:ed:49:...	0/1

And here is when you connect it to port 0/2

Wired
[Help](#)

Wired Networks

Wired Networks:

wired-SetMeUp
default\_wired\_port\_profile
E1-Port-Prof
E2-Port-Prof

New Edit Delete

Network assignments:

0/0: default\_wired\_port\_profile
0/1: E1-Port-Prof
0/2: E2-Port-Prof
0/3: wired-SetMeUp

0/4: wired-SetMeUp

Wired Users

Name	MAC address	IP Address	OS	AP	Port
AriyaP	f0:de:f1:64:0a:82	10.10.20.100		00:0b:86:ed:49:...	0/2