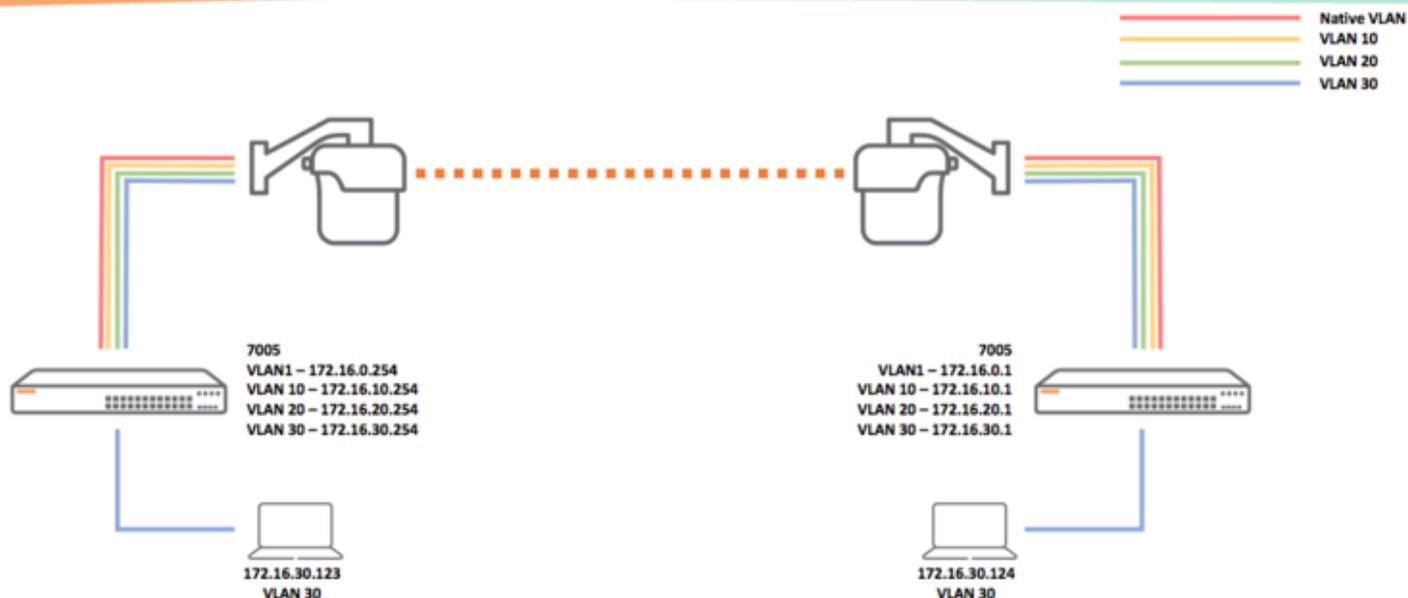


Instant Mesh with Network Bridging - Trunk Port [\[edit\]](#)

When Instant Mesh is desired to provide a PtP link that carries both native, untagged traffic, as well as trunked traffic, the below config guide/stubs will provide proper guidance.

Instant AP – Mesh Bridging



In the diagram above, there are two AP-27x APs providing untagged traffic on VLAN 1, and tagged traffic on VLAN 10, 20, and 30. **Note that in the case where the Instant Mesh Point will be connected to a switch where IP traffic will be seen on boot-up on the wired interface, you must first configure the wired interface of the mesh point to be in Bridge Mode before deployment. Otherwise, the IAP will see wired frames and assign the VC to the wired interface, instead of bringing up the wireless interface first. This is done by editing the IAP Mesh Point from the Main VC window and changing the wired interface to 'Bridge'**

1. From the VC's main dashboard, go to 'More > Wired'

The screenshot shows the Aruba Instant-CA: C9:E4 configuration interface. At the top, there are tabs for '0 Networks', '2 Access Points', and '0 Clients'. The 'Clients' tab is active, showing a table with columns for Name, IP Address, ESSID, and Access Point. Below the table, there are sections for 'Info', 'RF Dashboard' (with Signal, Speed, Utilization, Noise, Errors), and 'Usage Trends' (with Clients and Throughput graphs).

2. From the 'Wired' config window, this shows the two default wired-profiles ('wired-instant' and 'default_wired_port_profile'). Click on the 'New' to create a new bridged profile.

The screenshot shows the 'Wired' configuration window. It has a 'Wired Networks' section with a list of profiles: 'wired-instant', 'default_wired_port_profile', and 'iap-mesh_bridge'. Below this, there are 'Network assignments' for ports 0/0 through 0/3, all set to 'wired-instant'. A 'Wired Users' table is also visible, showing two users with their MAC addresses, IP addresses, OS, AP, and Port.

3. Configure the 'Wired Settings' fields (Employee or Guest, etc, etc) and click 'Next'

The screenshot shows the 'Edit Wired Network' configuration window, specifically the 'Wired Settings' tab. The 'Name' is 'iap-mesh_bridge'. The 'Primary usage' is set to 'Employee'. Other settings include POE: Enabled, Admin status: Up, Speed/Duplex: Auto, Content filtering: Disabled, Uplink: Disabled, Spanning tree: Disabled, and Inactivity timeout: 1000 sec.

4. On the VLAN settings, select 'Trunk' and assign Native and Trunk VLANs to carry and click 'Next'

The screenshot shows the 'Edit Wired Network' configuration page with the 'VLAN Management' tab selected. The page has a blue header with 'Edit Wired Network' and 'Help' on the right. Below the header is a navigation bar with four tabs: '1 Wired Settings', '2 VLAN' (highlighted in green), '3 Security', and '4 Access'. The main content area is titled 'VLAN Management' and contains the following fields: 'Mode:' with a dropdown menu set to 'Trunk'; 'Client IP assignment:' with a dropdown menu set to 'Network assigned'; 'Native VLAN:' with a text input field containing '1'; and 'Allowed VLANs:' with a text input field containing '10,20,30'. Below these fields is a large empty box labeled 'VLAN Assignment Rules'. At the bottom left of this box are buttons for 'New', 'Edit', and 'Delete', followed by two small square icons. At the bottom right of the page are buttons for 'Back', 'Next', and 'Cancel'.

5. If there is any MAC or 802.1x settings to be enabled, leave here. Otherwise leave both as disabled and click 'Next'

The screenshot shows the 'Edit Wired Network' configuration page with the 'Security' tab selected. The page has a blue header with 'Edit Wired Network' and 'Help' on the right. Below the header is a navigation bar with four tabs: '1 Wired Settings', '2 VLAN', '3 Security' (highlighted in green), and '4 Access'. The main content area is titled 'Security' and contains two dropdown menus: 'MAC authentication:' set to 'Disabled' and '802.1X authentication:' set to 'Disabled'. At the bottom right of the page are buttons for 'Back', 'Next', and 'Cancel'.

6. Apply any firewall rules to the role assigned to the wired interface, otherwise leave as 'Unrestricted' and click 'Finish'

The screenshot shows the 'Edit Wired Network' configuration page with the 'Access Rules' tab selected. The page has a blue header with 'Edit Wired Network' and 'Help' on the right. Below the header is a navigation bar with four tabs: '1 Wired Settings', '2 VLAN', '3 Security', and '4 Access' (highlighted in green). The main content area is titled 'Access Rules' and features a vertical slider on the left labeled 'More Control' at the top and 'Less Control' at the bottom. The slider has three positions: 'Role-based', 'Network-based', and 'Unrestricted' (which is selected and highlighted in blue). To the right of the slider, the text reads 'No restrictions on access based on destination or type of traffic'. At the bottom right of the page are buttons for 'Back', 'Finish', and 'Cancel'.

Once this is complete, you can assign your new Bridge Profile to the IAP's respective wired interfaces for wired

bridging. In the example config, the E0 and E1 ports are all trunk ports carrying tagged VLAN 10, 20, and 30, and are untagged on VLAN 1 (native).

The instant config elements from the CLI will look as follows:

```
wired-port-profile iap-mesh_bridge
  switchport-mode trunk
  allowed-vlan 10,20,30
  native-vlan 1
  no shutdown
  access-rule-name iap-mesh_bridge
  speed auto
  duplex auto
  poe
  type employee
  auth-server InternalServer
  captive-portal disable
  no dot1x

enet0-port-profile iap-mesh_bridge
enet1-port-profile iap-mesh_bridge
```

Once the mesh link is built, you can run the following from the CLI

```
274-portal# show ap mesh link
```

```
Neighbor list
```

| MAC | Portal | Channel | Age | Hops | Cost | Relation | Fl |
|-------------------|-------------------|---------|--------|--------|------------------|---------------------------------|----|
| ags | Rate Tx/Rx | A-Req | A-Resp | A-Fail | HT-Details | Cluster ID | |
| 94:b4:0f:31:50:70 | 94:b4:0f:2c:9e:51 | 157+ | 0 | 1 | 5.00 | C 49s | VL |
| K 82 | 600/6 | 1 | 1 | 0 | VHT-40MHzsgi-3ss | ab43b1cc73de9632d61ff80ab38a265 | |

```
Total count: 1, Children: 1
```

```
Relation: P = Parent; C = Child; N = Neighbor; B = Blacklisted-neighbor
```

```
Flags: R = Recovery-mode; S = Sub-threshold link; D = Reselection backoff; F = Auth-failure; H = High Throughput; V = Very High Throughput, L = Legacy allowed
```

```
K = Connected; U = Upgrading; G = Descendant-upgrading; Z = Config pending; Y = Assoc-resp/Auth pending
```

```
a = SAE Accepted; b = SAE Blacklisted-neighbour; e = SAE Enabled; u = portal-unreachable; o = opensystem
```