aruba

This section was kindly provided by John Mitchell, Glen Johnson (both University of Alaska), Dave Worth, Philippe Hanset (both University of tennessee) and Jeff Hagley (Internet2).

Configuring Aruba Wireless controllers for eduroam is no different than any other 802.1x wireless network on your campus.

1. Create RADIUS Server(s)
   Configuration > Authentication > Servers > RADIUS Server > Add
2. Create RADIUS Server Group
   Configuration > Authentication > Servers > Server Group > Add
3. Create 802.1x Group Auth. Profile
   Configuration > Authentication > L2 Auth. > 802.1x Auth. Profile > Add
4. Create User Roles
   Configuration > Access Control > User Roles > Add
5. Create AAA Profile
   Configuration > Authentication > AAA Profiles > Add
6. Create SSID Profile
   Configuration > All Profiles > Wireless LAN > SSID Profile > Add
7. Create Virtual AP
   Configuration > All Profiles > Wireless LAN > Virtual AP Profile > Add
   Select SSID and AAA Profiles created above

The following screenshots show these steps in the web configuration interface:

Step 1:

Step 2:

Step 3:
### Step 4:

#### Security > Access Control > User Roles

<table>
<thead>
<tr>
<th>Name</th>
<th>Firewall Policies</th>
<th>Bandwidth Contract</th>
<th>Actions</th>
</tr>
</thead>
<tbody>
<tr>
<td>default-via-role</td>
<td>allowall</td>
<td>Up: Not Enforced  Down: Not Enforced</td>
<td>Show Reference</td>
</tr>
<tr>
<td>eduroam-logon</td>
<td>blockall</td>
<td>Up: Not Enforced  Down: Not Enforced</td>
<td>Show Reference</td>
</tr>
</tbody>
</table>

### Step 5:

#### AAA Profile > eduroam

<table>
<thead>
<tr>
<th>Initial role</th>
<th>eduroam-logon</th>
<th>MAC Authentication Default Role</th>
<th>guest</th>
</tr>
</thead>
<tbody>
<tr>
<td>802.1X Authentication Default Role</td>
<td>eduroam-authenticated</td>
<td>User derivation rules</td>
<td>--NONE--</td>
</tr>
<tr>
<td>Wired to Wireless Roaming</td>
<td></td>
<td>SIP authentication role</td>
<td>--NONE--</td>
</tr>
</tbody>
</table>

### Step 6:

<table>
<thead>
<tr>
<th>MAC Authentication Profile</th>
<th>default</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAC Authentication Server Group</td>
<td>eduroam</td>
</tr>
<tr>
<td>802.1X Authentication Profile</td>
<td>eduroam</td>
</tr>
<tr>
<td>802.1X Authentication Server Group</td>
<td>eduroam</td>
</tr>
<tr>
<td>RADIUS Accounting Server Group</td>
<td>eduroam</td>
</tr>
<tr>
<td>XML API server</td>
<td></td>
</tr>
<tr>
<td>RFC 3576 server</td>
<td></td>
</tr>
</tbody>
</table>
Step 7:

SSID Profile > eduroam

Network
Network Name (SSID) eduroam

802.11 Security
- Network Authentication: WPA2
- Encryption: AES

Keys

Encryption
- wpa2-aes

AAA Profile
- edurcam

802.11K Profile
- default

SSID Profile
- edurcam

WMM Traffic Management Profile