



## Lab 2.5.5.1 Configure Auto Profiles

Estimated Time: 25 Minutes

Number of Team Members: six teams with two students per team

### Objective

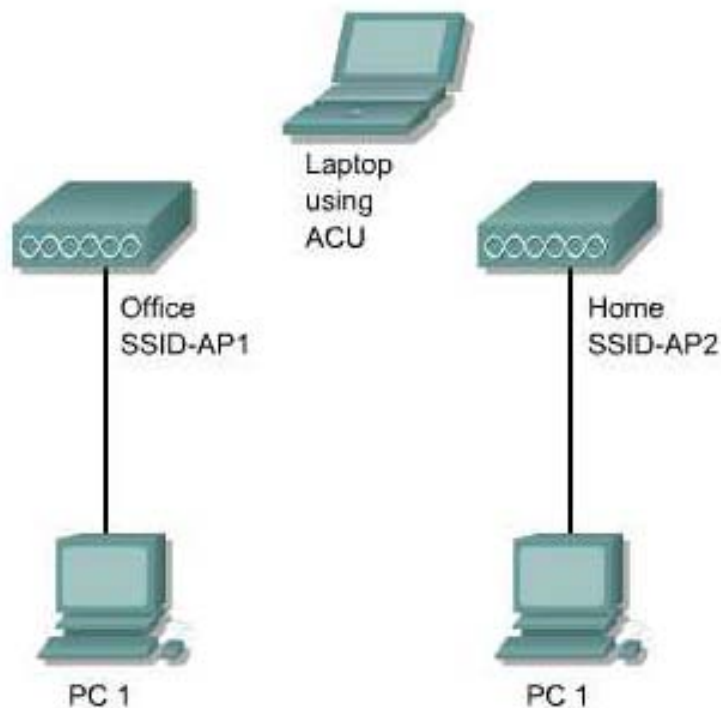
The student will learn the procedures for configuring ACU to use Auto Profiles.

### Scenario

The **Use Auto Profile Selection** option causes the driver for the client adapter to automatically select a profile from the list of profiles that were set up to be included in auto profile selection. The name of the profile that is being used appears in the box to the right of the **Use Auto Profile Selection** option.

If the client adapter loses association for more than 10 seconds, the driver switches automatically to another profile that is included in **Auto Profile Selection**. The adapter will not switch profiles as long as it remains associated or reassociates within 10 seconds (or within the time specified by the LEAP authentication timeout value). To force the client adapter to associate to a different AP, Auto Profile Selection must be disabled and a new profile must be selected.

### Topology



## Preparation

This lab will require the following materials:

- 3 Desktop or Laptop PC
- Appropriate wireless client adapter card
- One Cisco Aironet PCI352, CB20A, or PCM 352 Client Adapter Network Interface Card.
- Aironet Client Utility installer
- Two configured AP (instructor must setup)
  - AP1 – SSID of AP1
  - AP2 – SSID of AP2
  - AP3 – SSID of AP3 (optional)

## Resources

[http://www.cisco.com/en/US/products/hw/wireless/ps4555/products\\_installation\\_and\\_configuration\\_guide\\_chapter09186a008007f869.html#1091568](http://www.cisco.com/en/US/products/hw/wireless/ps4555/products_installation_and_configuration_guide_chapter09186a008007f869.html#1091568)

### Step 1 Creating multiple profiles

- a. Remove any existing profiles.
- b. Now create 4 profiles based on the following table.

Profile	Profile Name	Client Name	SSID
1	Office1	StudentP1	AP1
2	Home	StudentP2	AP2
3	Office2	StudentP3	AP3
4	Airport	StudentP4	AP4

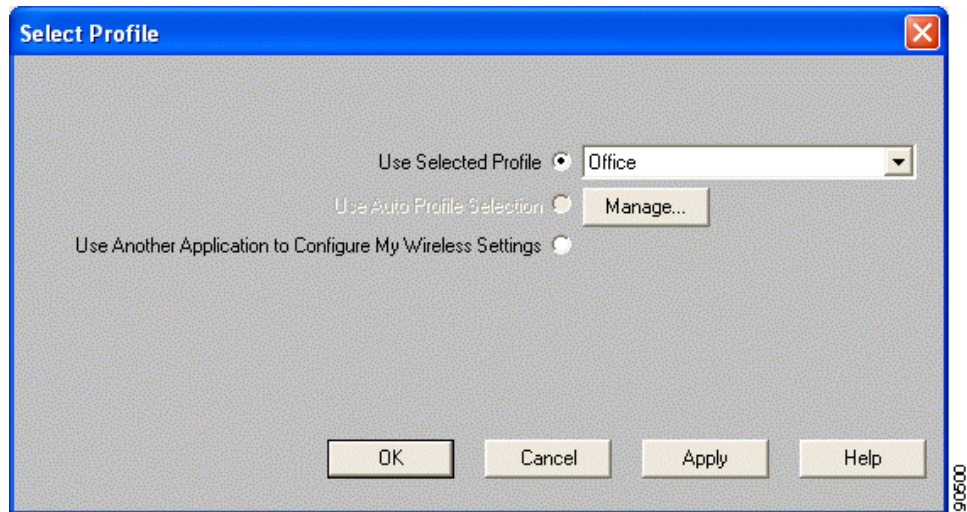
(Where StudentP is the student name)

### Step 2 Including a profile in auto profiles selection

After creating the four profiles for the client adapter, the profile manager auto profile selection feature can be used. When auto profile selection is enabled, the client adapter automatically selects a profile from the list of profiles that were included in auto profile selection and uses it to establish a connection to the network.

Follow the steps below to include the profiles in auto profile selection and to establish the order in which the profiles will be selected for use.

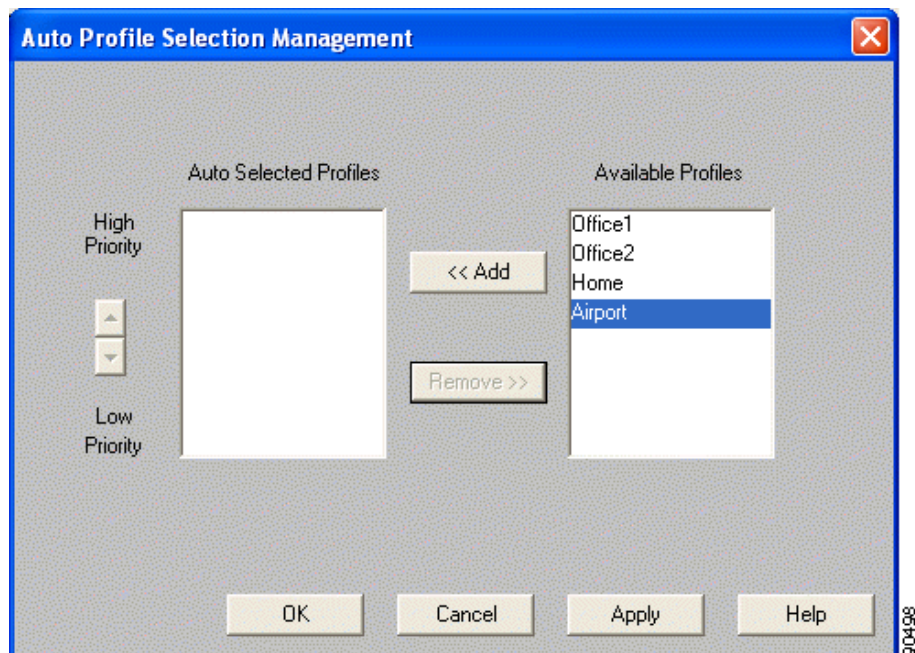
- a. Open ACU; click the **Select Profile** icon or select **Select Profile** from the Commands drop-down menu. The Select Profile screen appears



### Step 3 Manage and add profiles

The following rules apply to the auto profile selection:

- At least two profiles must be included in the Auto Selected Profiles Box.
  - The profiles must specify an SSID; otherwise, they cannot be selected in the Available Profiles box.
  - Profiles cannot specify multiple SSIDs; otherwise, they cannot be selected in the Available Profiles box.
  - Each profile that is included in auto profile selection must have a unique SSID. For example, if Profile A and Profile B both have "ABCD" as their SSID, only Profile A or Profile B can be included in auto profile selection.
- a. Click the **Manage** button next to the Use Auto Profile Selection option. The Auto Profile Selection Management screen appears



- b. All the created profiles are listed in the Available Profiles box. Highlight each one to include in auto profile selection and click the **Add** button. The profiles move to the Auto Selected Profiles box.
- c. The first profile in the Auto Selected Profiles box has the highest priority while the last profile has the lowest priority. To change the order and priority of the auto-selectable profiles, highlight the profile to be moved and click the **High Priority** or **Low Priority** arrow to move the profile up or down, respectively.
- d. Click **OK** to save the changes.

When auto profile selection is enabled, the client adapter scans for an available network. The profile with the highest priority and the same SSID as one of the found networks is the one that is used to connect to the network. If the connection fails, the client adapter tries the next highest priority profile that matches the SSID and so on.

To remove a profile from auto profile selection, highlight the profile in the Auto Selected Profiles box and click the Remove button. The profile moves to the Available Profiles box.

#### Step 4 Connect to the highest priority AP

Connecting to APs in various venues becomes very easy. Follow the instructions below to observe the auto profile feature.

- a. With the **Select Profile** window open, select the **Use Auto Profile Selection**
- b. Click **OK**
- c. A connection to the first AP in the list should be established. If not, turn off the client radio and then turn on the radio.
- d. After connecting to the highest priority AP, turn off the AP. Observe the ACM icon status.
- e. Since the High Priority AP is down, the Auto Profile will attempt to connect to the AP. After an unsuccessful attempt, the Profile Manager will try to connect using the second highest profile in the list.