

Lab 2.5.5.2 Configure Auto Profiles using ADU

Estimated Time: 25 Minutes

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

Objective

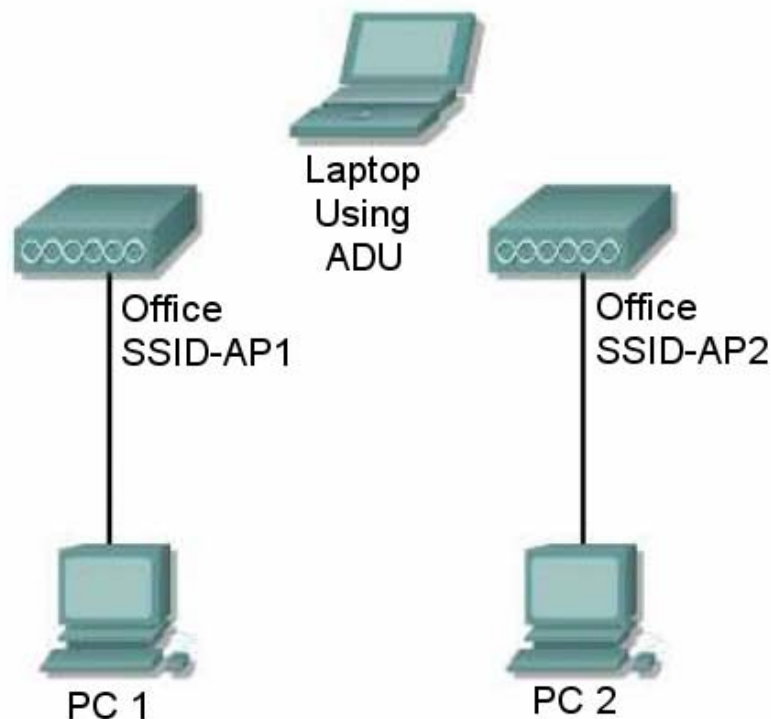
The student will learn the procedures for configuring ADU to use Auto Profiles.

Scenario

The **Auto Selected Profiles** configuration option causes the client adapter to automatically use a profile from the list when attempting to associate with a network.

If the client adapter loses association for more than 10 seconds, the driver switches automatically to another profile that is included in **Auto Selected Profiles** list. 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, the desired profile must be selected from the **Profile Management** window.

Topology



Preparation

This lab will require the following materials:

- 3 Desktop or Laptop PC
- Appropriate wireless client adapter card
- One Cisco Aironet Client Adapter Network Interface Card.
- Aironet Desktop Utility
- Two configured APs (instructor must setup)
 - AP1 – SSID of AP1
 - AP2 – SSID of AP2
 - AP3 – SSID of AP3 (optional)
 - AP4 – SSID of AP4 (optional)

Step 1 Creating multiple profiles

- Remove any existing profiles using the Aironet Desktop Utility.
- Create 4 new 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 profiles in auto profiles selection

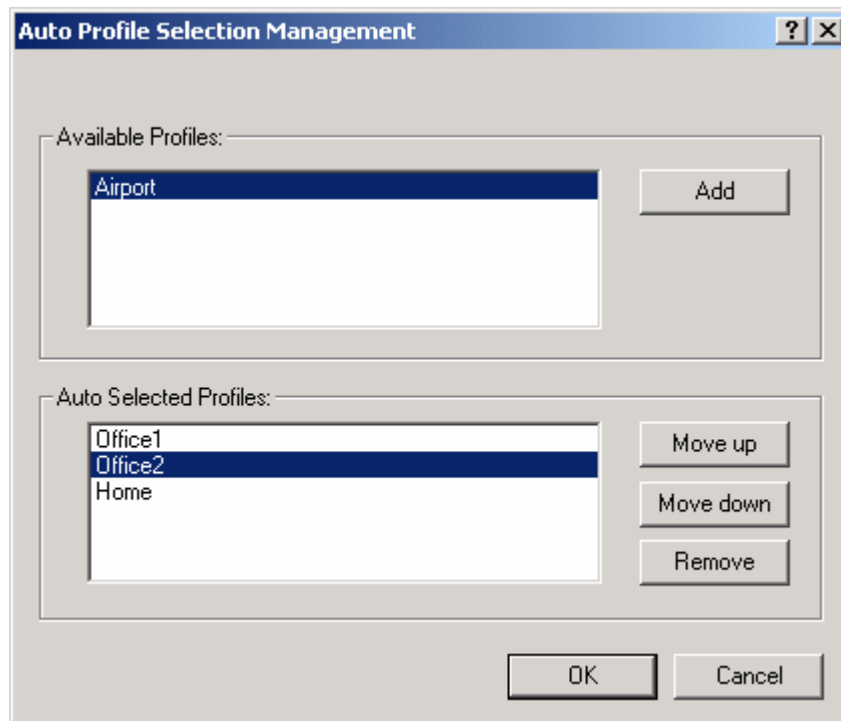
After creating the four profiles for the client adapter, use the Order Profiles button to add profiles to the **Auto Selected Profiles** list.

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.

- Open the ADU and click the **Order Profiles** button. Add profiles from the **Available Profiles** list to the **Auto Selected Profiles** list.
- Use the **Move Up** and **Move Down** buttons to rearrange the profiles in the order as listed in the table.

The following rules apply to the auto profile selection:

- 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.



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 3 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. After connecting to the highest priority AP, turn off the AP. Observe the ACM icon status.
- b. Since the High Priority AP is down, the Auto Profile will attempt to reconnect to the AP. After an unsuccessful attempt, the Profile Manager will try to connect using the second highest profile in the list.
- c. If the first AP is turned back on and the second AP is now turned off, the client adapter will reconnect to the first.