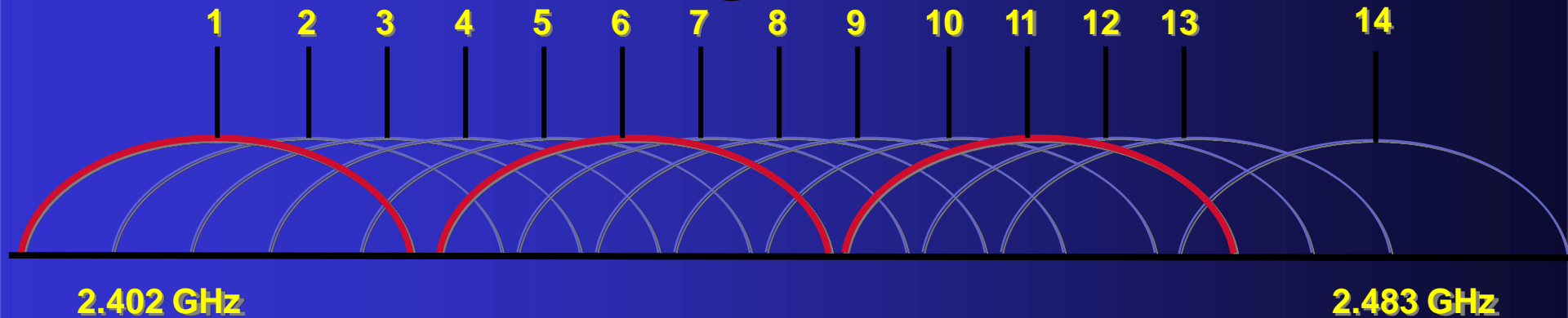


# IEEE 802.11b/g

## Direct Sequence @ 2.4

### GHz



- Up to (14) 22 MHz wide channels
- **3 non-overlapping channels**  
(1, 6, 11 in US and 1, 7, 13 in Europe)
- Up to 54 Mbps data rate
- 3 Access Points can occupy the same space for a total of 33 Mbps aggregate throughput, but not on same radio card

# Wireless LAN Channel Reuse Patterns

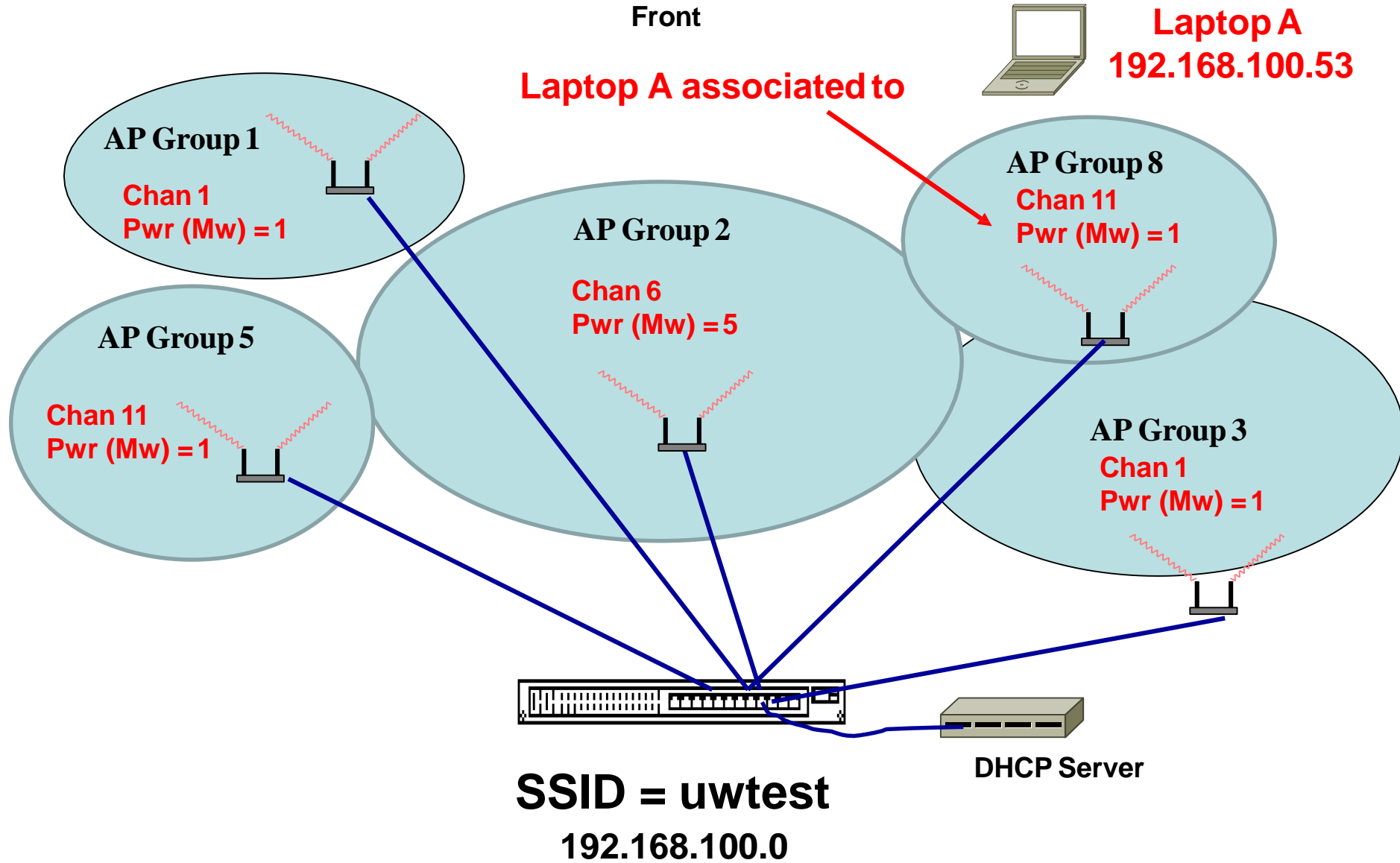


*IEEE 802.11b/g 3 Channel Reuse Pattern*

# UW Wireless LAN Lab 2016 (802.11 Design)

UW Classroom

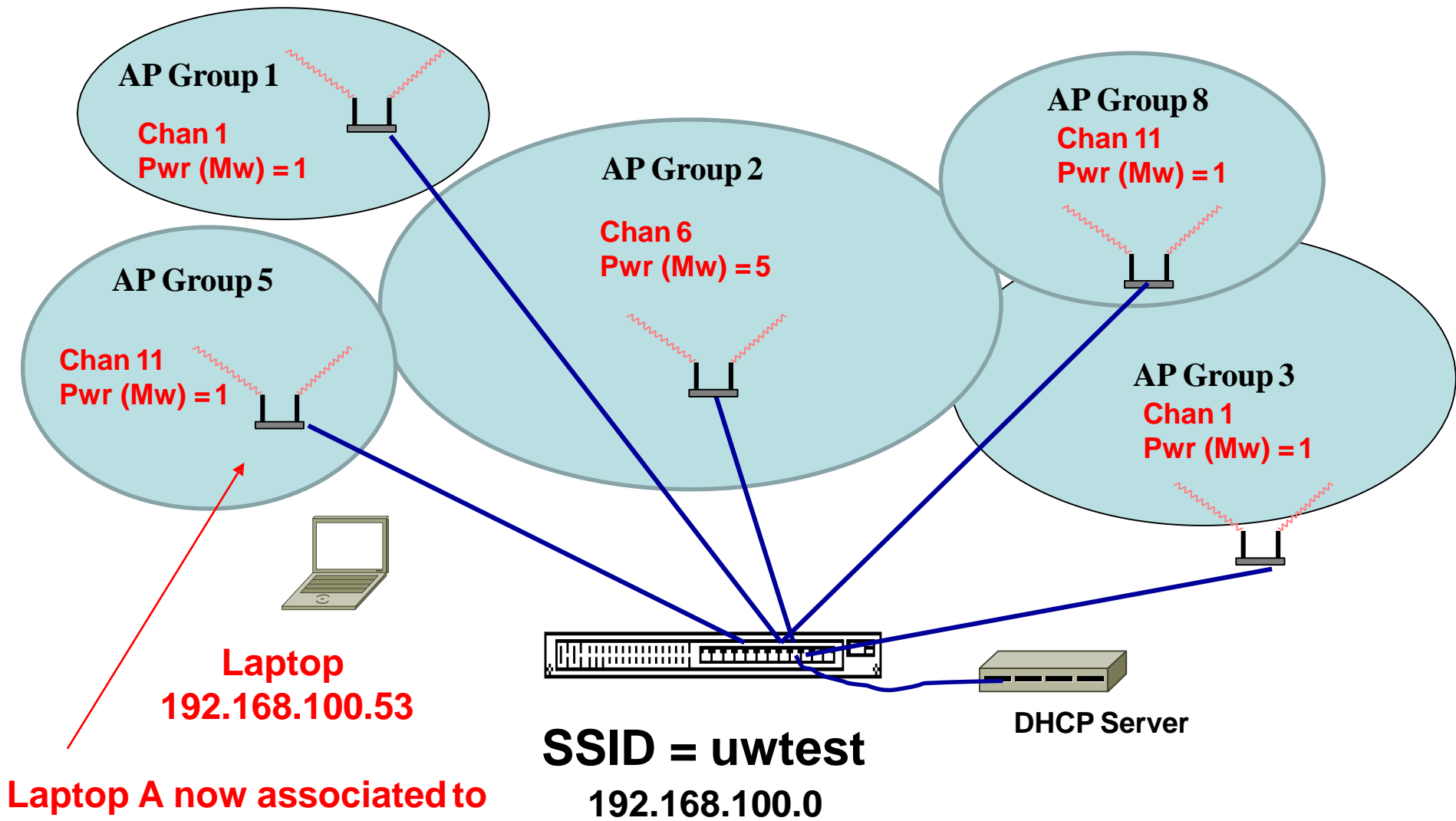
Front

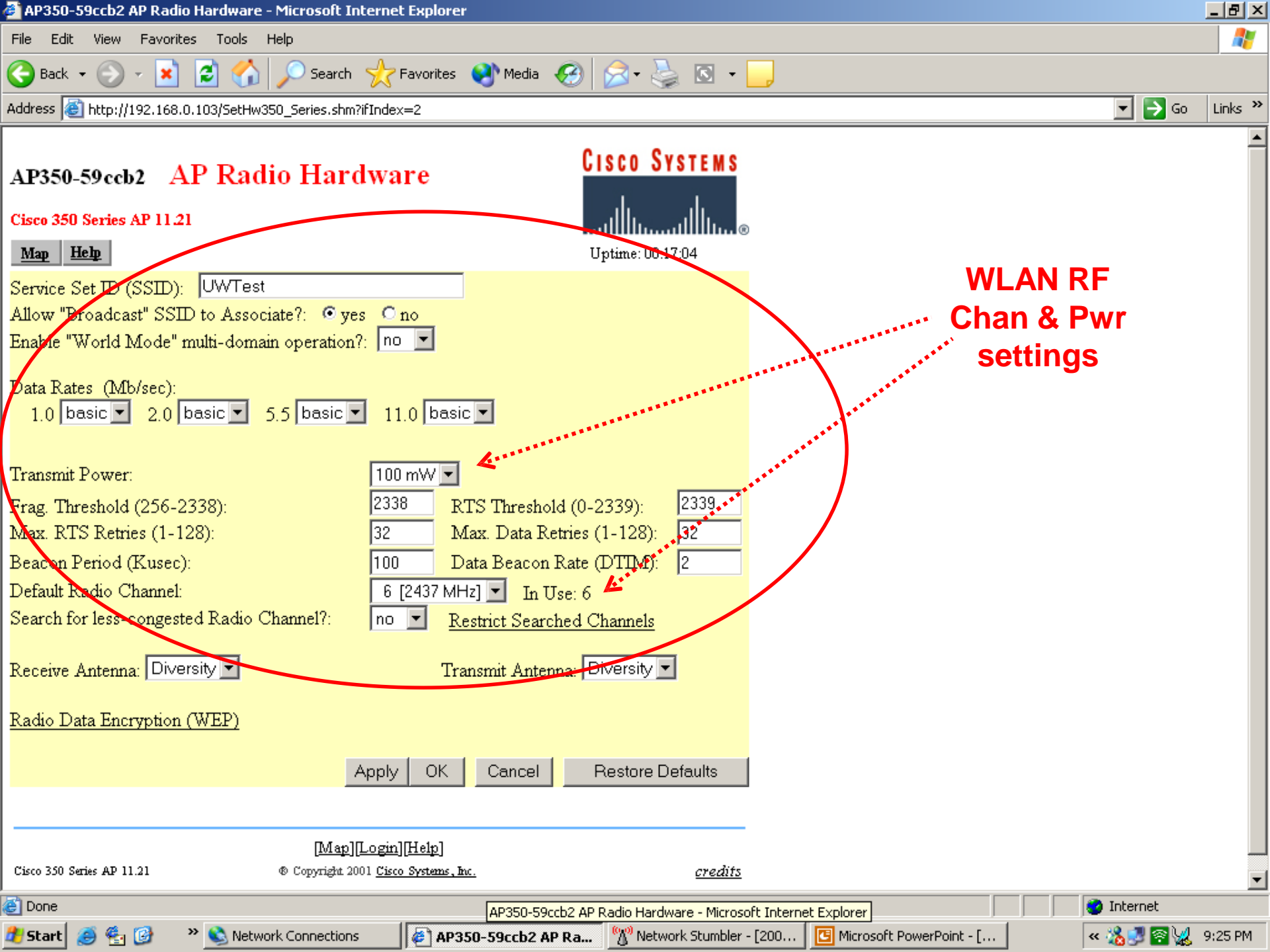
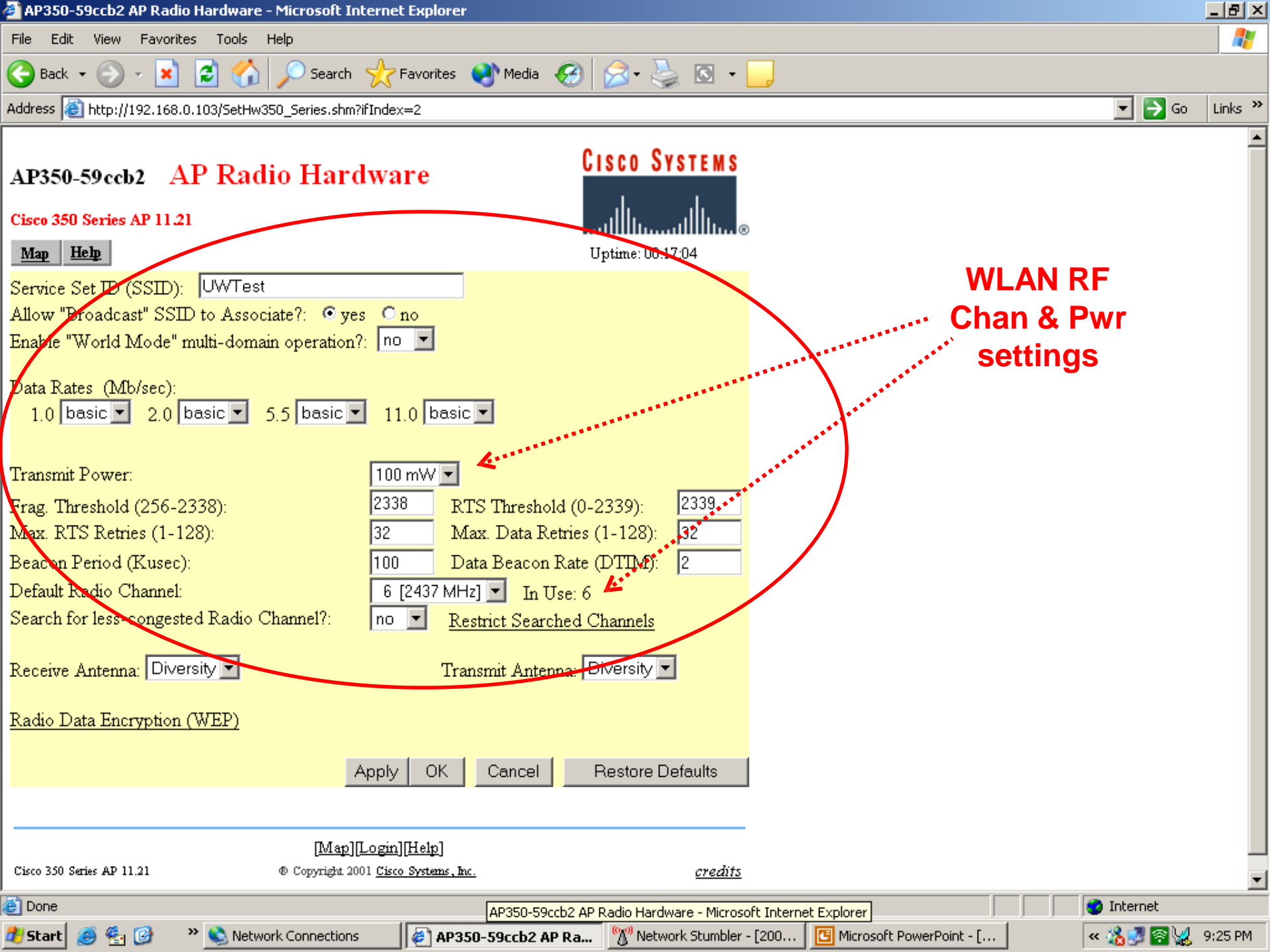


# UW Wireless LAN Lab 2014 (802.11 Design)

UW Classroom

Front





## AP350-59a5e5 Summary Status

Cisco 350 Series AP 11.21

CISCO SYSTEMS



Uptime: 00:02:00

Check AP to see what devices are associated (connected)

[Home](#) [Map](#) [Network](#) [Associations](#) [Setup](#) [Logs](#) [Help](#)

### Current Associations

Clients: 1 of 1 Repeaters: 0 of 0 Bridges: 0 of 0 APs: 1

### Recent Events

Time	Severity	Description
00:01:44	<a href="#">Info</a>	Station [UWWIRELESSPC-02]004096a145f5 Associated
00:01:44	<a href="#">Info</a>	Station [UWWIRELESSPC-02]004096a145f5 Authenticated
00:01:10	<a href="#">Info</a>	Station [UWWIRELESSPC-02]004096a145f5 Authenticated
00:01:10	<a href="#">Info</a>	Station [UWWIRELESSPC-02]004096a145f5 Authenticated
00:01:02	<a href="#">Warning</a>	No DHCP OFFER's received, restarting the negotiation in the background

### Network Ports

### Diagnostics

Device	Status	Mb/s	IP Addr.	MAC Addr.
<a href="#">Ethernet</a>	No Link	0.0	192.168.0.101	00409659a5e5
<a href="#">AP Radio</a>	Up	11.0	192.168.0.101	00409659a5e5

[\[Home\]](#)[\[Map\]](#)[\[Login\]](#)[\[Network\]](#)[\[Associations\]](#)[\[Setup\]](#)[\[Logs\]](#)[\[Help\]](#)

Cisco 350 Series AP 11.21

© Copyright 2001 Cisco Systems, Inc.

[credits](#)

\* When would this be beneficial to your home/work WLAN ?

# **Week 10 Lab Deliverable**

(approx. 1 pg writeup)

**Describe the concept of WLAN channel reuse and how lab avoided co-channel interference between AP's/cells.**

**40%**

**Describe how you used the two most important WLAN design considerations in lab.**

**20%**

**Based on learnings from lab, how might this impact your current home/business WLAN (what might you change)**

**40%**

**Due Friday 12/09/16 11:59PM**