ATHENAEUM
INTERCONTINENTAL®
ATHENS

Stavros Vogiatzis
IT Manager

Presentation focal points

Guest Internet and Conference Center Infrastructure

&

Using Virtualization as value added service over the existing infrastructure

Cisco Systems Itinerary

X 1

4510

X 1

4503

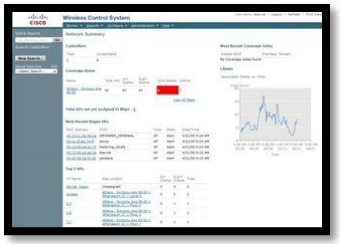
Router 2800

Router 1800

x 9 * Router 1800

X 2

Wireless LAN Controllers



Wireless Control System
(WCS)

X 8

Catalyst 2960

X 110

AP 1242

Why all this in a single Hotel Property ?

- Because of best signal “delivery”
- Spotless **roaming**, in the Conference areas
- Flawless management of all components
- PROOF TO THE CLIENT

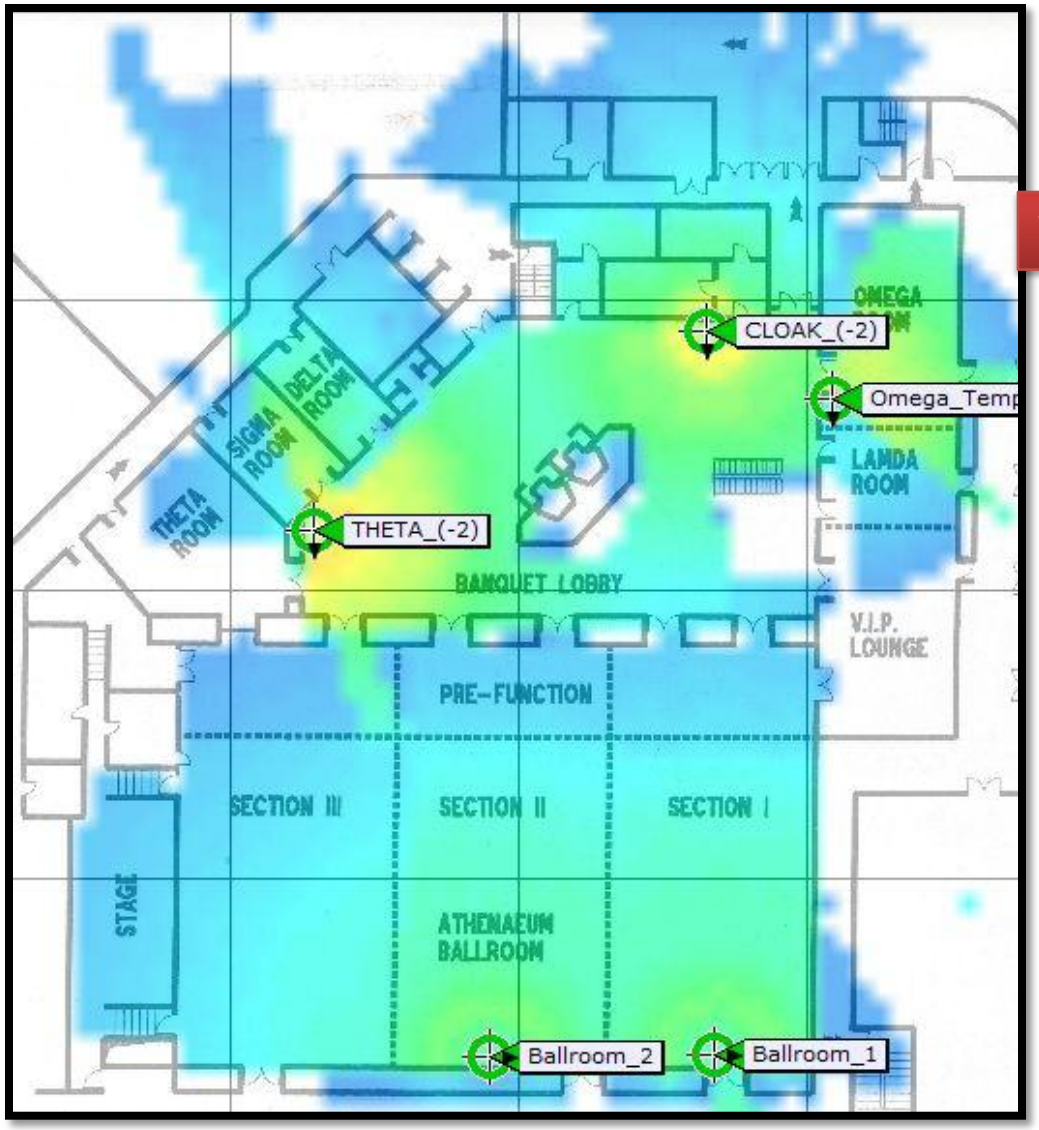
My classic phrase

The Internet Bandwidth utilization and WiFi services are invisible to the client

What needs to be made visible is:

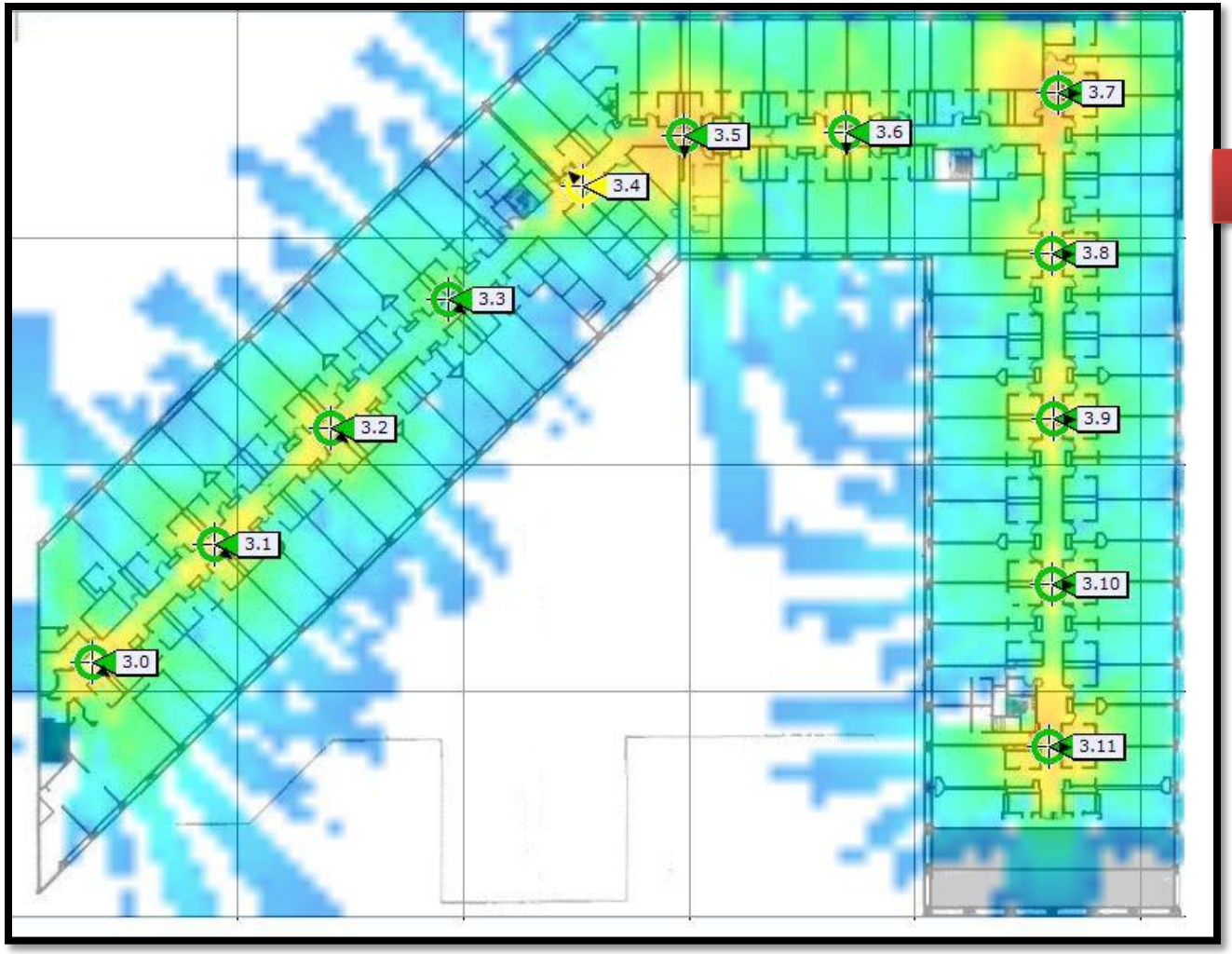
1. The Signal Coverage
2. Concurrent WiFi Connections
3. Bandwidth

Conference are – 2 level



WCS Map

3rd Floor



WCS Map

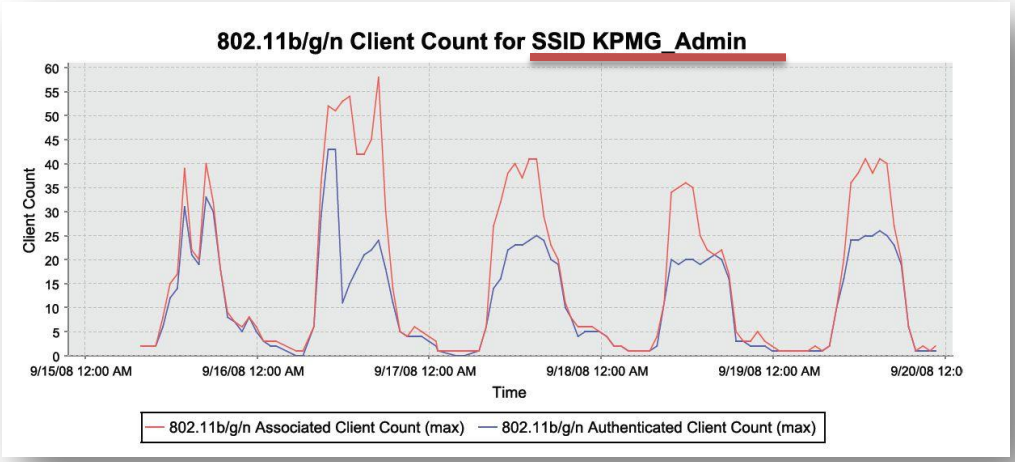
September 15th to 20th

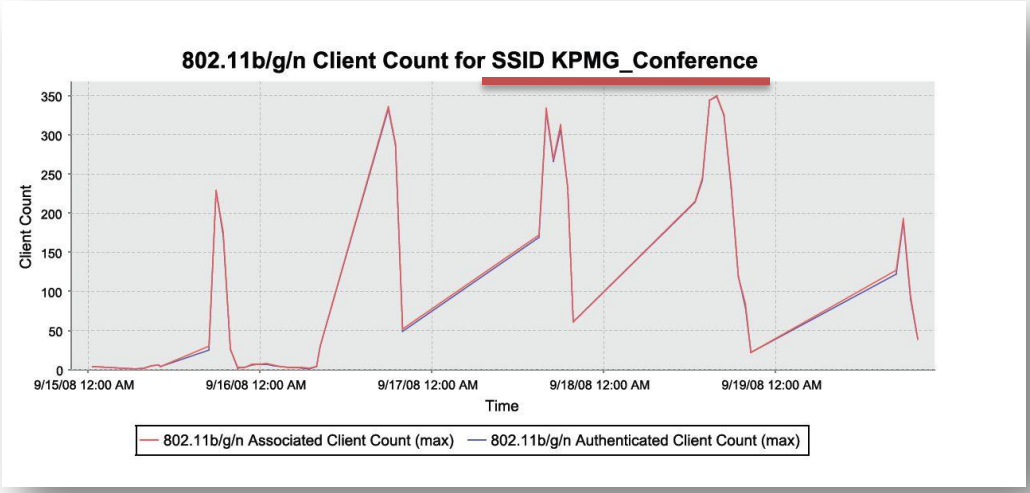
Client Count

Wireless Control System

Generated: Mon Sep 29 13:50:15 EEST 2008

Report By: SSID
Protocol: 802.11b/g/n
Reporting Period: 9/15/08 12:00 AM to 9/20/08 12:00 AM
Aggregation Frequency: Hourly





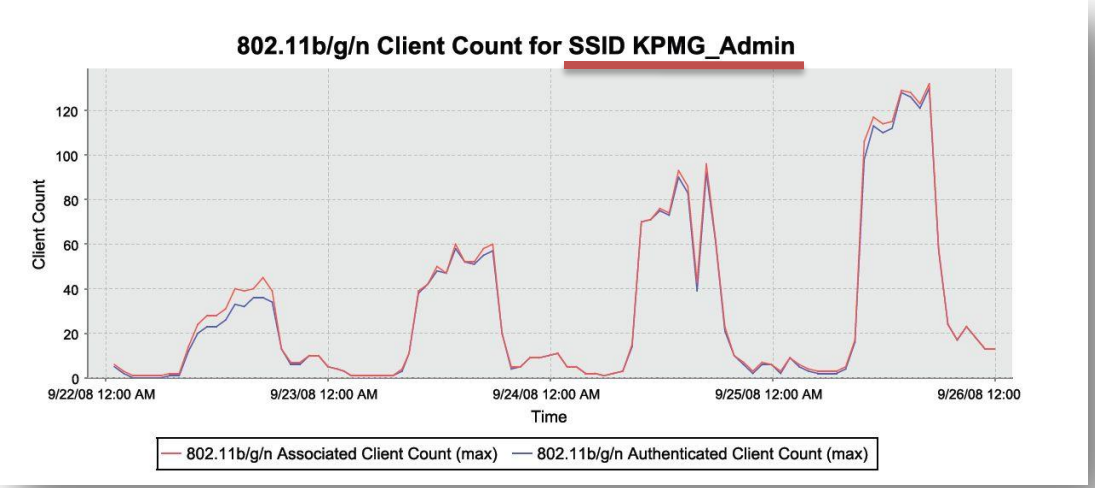
September 22th to 26th

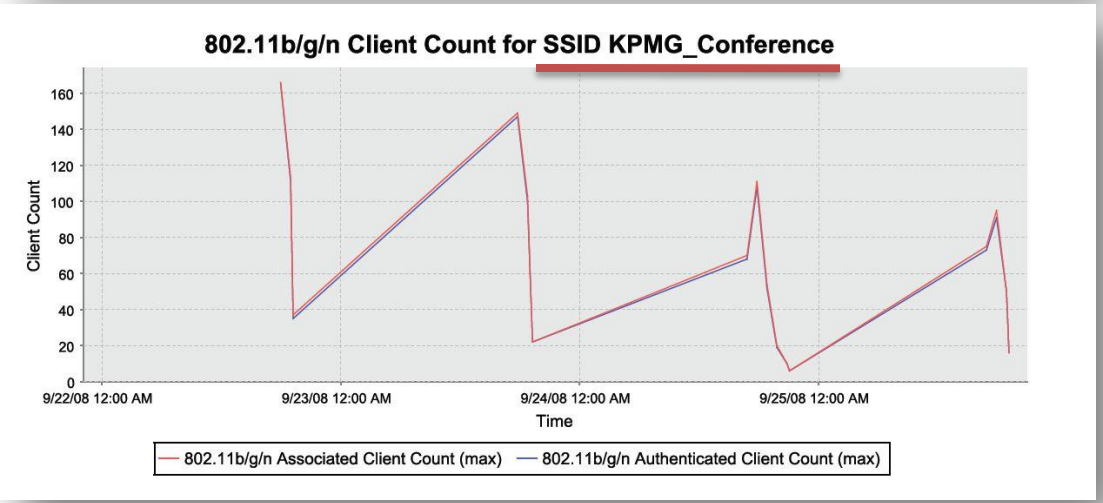
Client Count

Wireless Control System

Generated: Mon Sep 29 13:51:32 EEST 2008

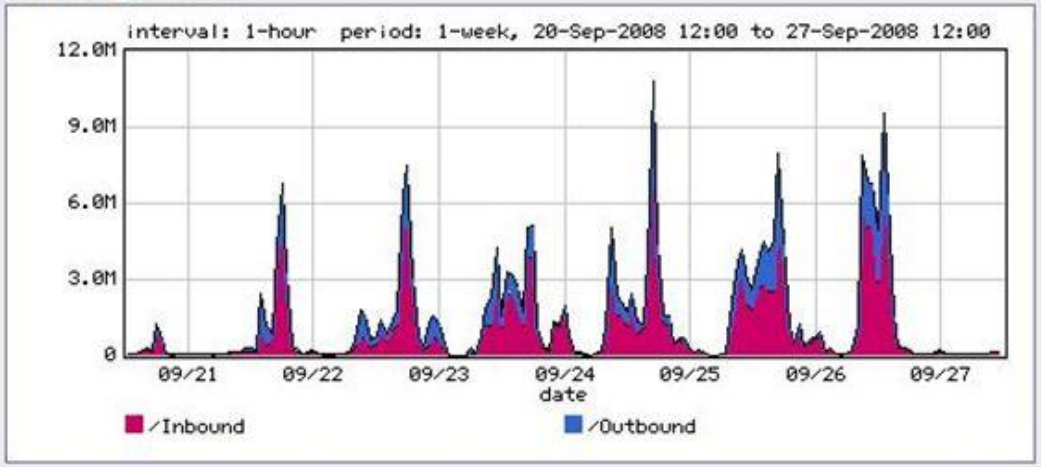
Report By: SSID
Protocol: 802.11b/g/n
Reporting Period: 9/22/08 12:00 AM to 9/26/08 12:00 AM
Aggregation Frequency: Hourly



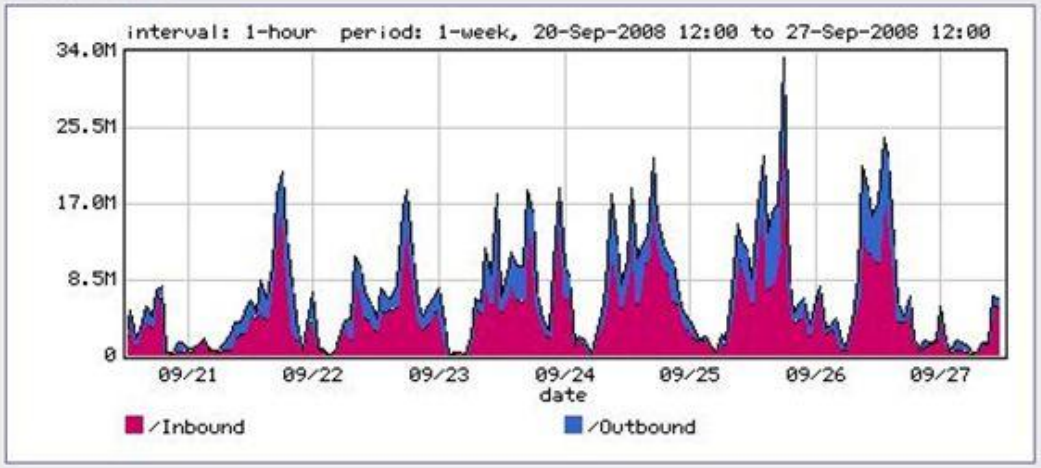


Bandwidth Usage

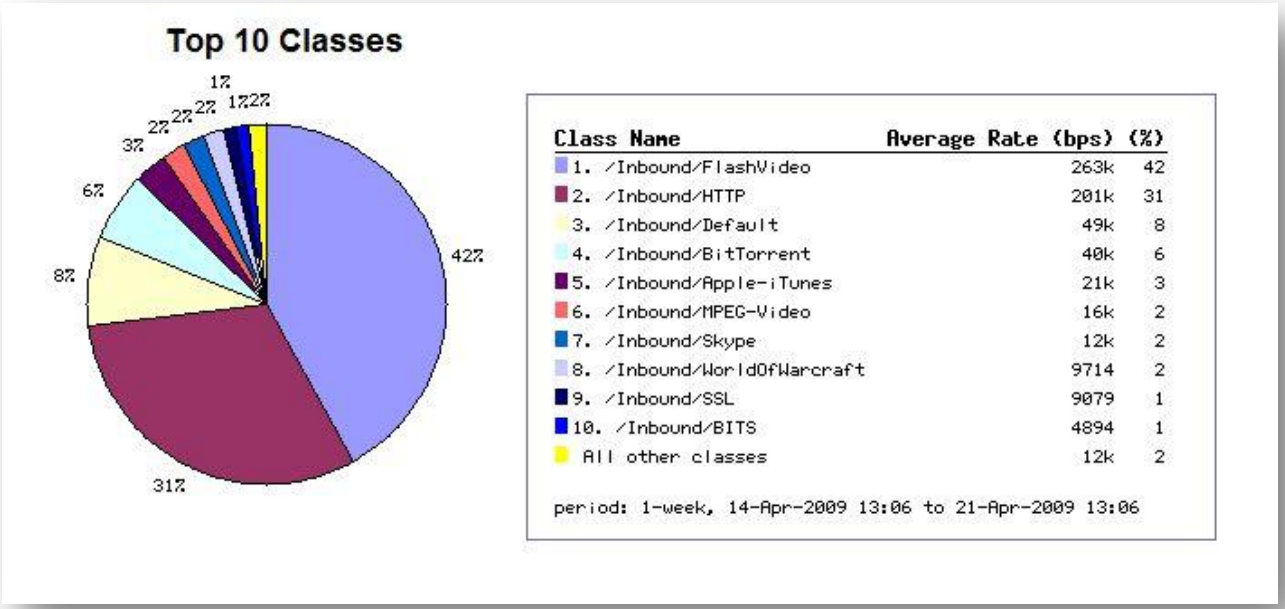
Average Rate



Peak Rate



Use of Protocols

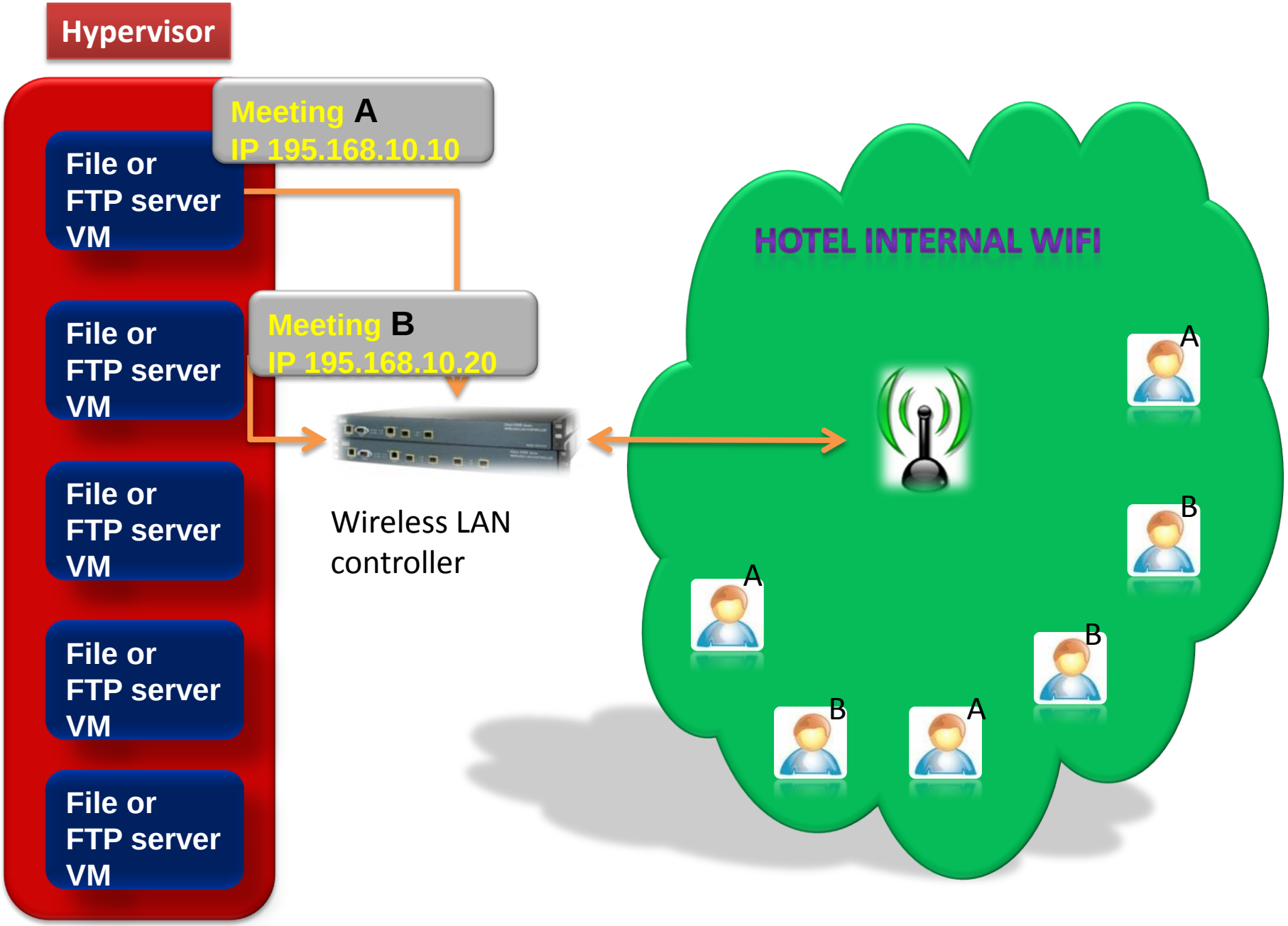


Class Name	Average Rate (bps)	(%)
1. /Inbound/FlashVideo	263k	42
2. /Inbound/HTTP	201k	31
3. /Inbound/Default	49k	8
4. /Inbound/BitTorrent	40k	6
5. /Inbound/Apple-iTunes	21k	3
6. /Inbound/MPEG-Video	16k	2
7. /Inbound/Skype	12k	2
8. /Inbound/WorldOfWarcraft	9714	2
9. /Inbound/SSL	9079	1
10. /Inbound/BITS	4894	1
All other classes	12k	2

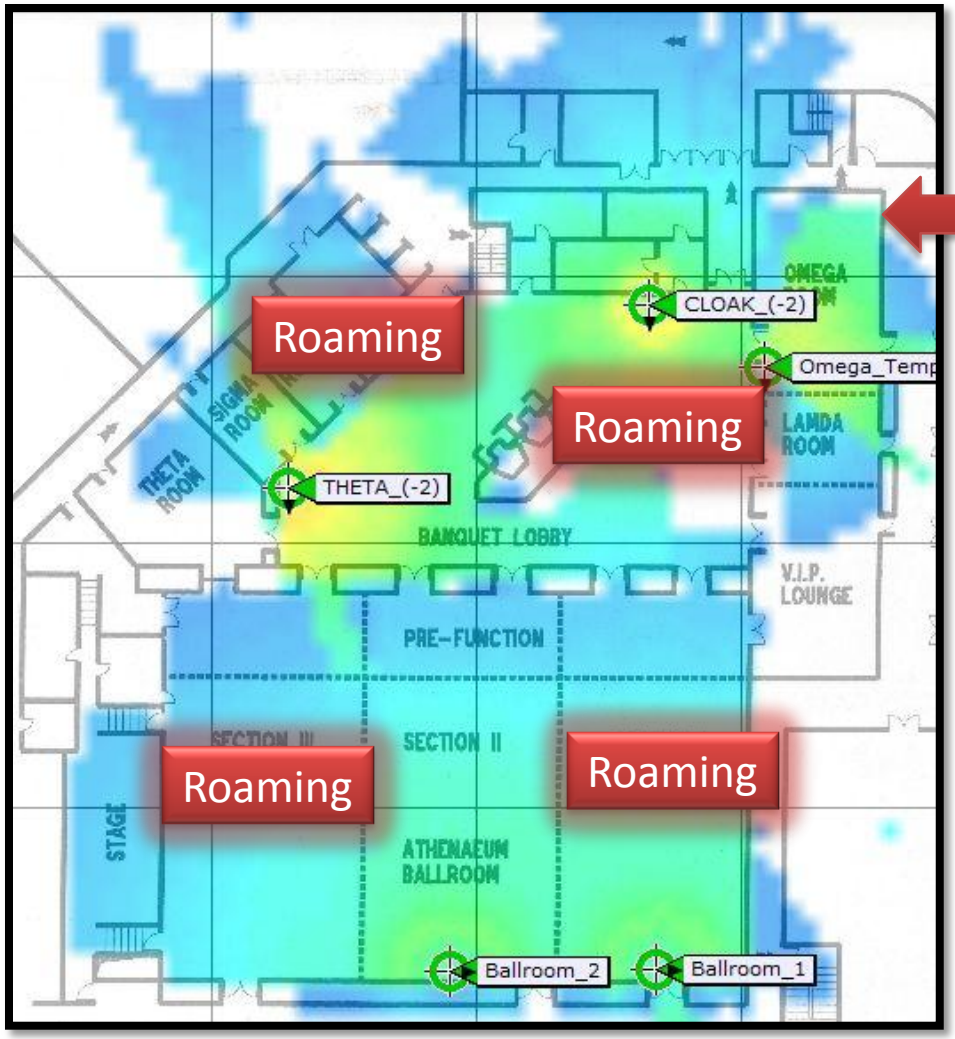
period: 1-week, 14-Apr-2009 13:06 to 21-Apr-2009 13:06

(not related to the KPMG conference)

Virtualization


Hypervisor
Meeting A
IP 195.168.10.10
File or FTP server VM
File or FTP server VM
File or FTP server VM
File or FTP server VM
File or FTP server VM
Meeting B
IP 195.168.10.20
Wireless LAN controller
HOTEL INTERNAL WIFI
A
B
A
B
B
A

Conference are – 2 level



Wireless **LAN** Controllers

File or FTP server VM

Core Switching

- Hypervisor
- SNMP client monitoring
- Bandwidth Management
- Transparent PROXY
- More than 25 VLANS
- 1 GB to all Admin users

Etc.

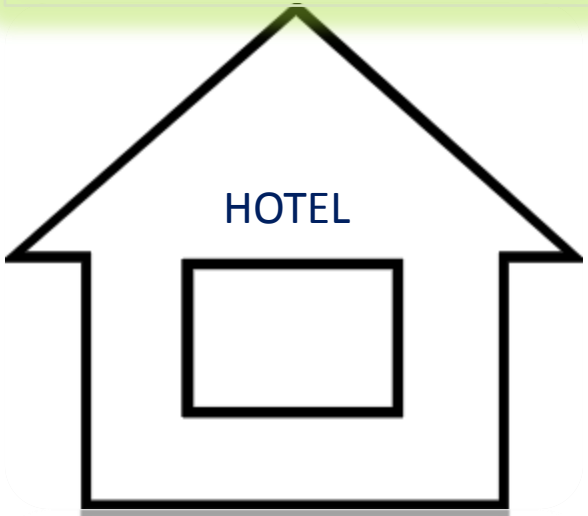
Administration Network

4510

Guest & Conference Network

4503

Hotels are “DATA CENTERS”



DATA = information exchange, information storage

Center = meeting place, social, human networking

CISCO

the human network effect

THANK YOU !