Pasadena Convention Center

NETWORK DETAILS & CAPABILITIES

- Overview of Network
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- Customization
- WLAN Details
- Bandwidth Management
- Network Schematics

Overview

The Pasadena Convention Center offers state-of-the-art High Speed Internet connectivity. The network infrastructure is designed to offer convenient and reliable connectivity for a wide variety of event-based needs. Our certified team of technicians and engineers can customize the experience to meet all of the conference needs.

- ↗ Network installed and managed by Cisco Certified Engineers
- ↗ On-Site staff to assist with technical needs

Data Circuit

The Pasadena Convention Center offers 100 Mbps of bandwidth in all of the convention and conference areas. This bandwidth is managed so that groups may opt for dedicated bandwidth packages based on the needs of the event.
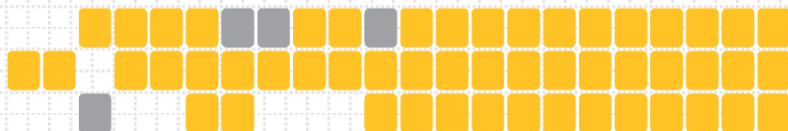
Core Network

All of the convention and meeting space is connected through a fiber optic and CAT5 backbone. All of our data connections in the meeting space are fully certified CAT5 cabling. The core switch is a Cisco 2960 gigabit model. Wireless connectivity is also available in all of the meeting space controlled by a Cisco 4402 WLC in place to dynamically handle interference and large density.

NAT IP addressing via DHCP. See available public IP range in *Customization.*

Infrastructure

There are five network closets and a main network closet that house the networking equipment. Backbone cabling consists of fiber optic and certified CAT5.

See network diagram at the end of this document.

Customization

The network was designed so that groups may personalize their experience. Various features and customizations can be put in place to create a convenient and efficient experience for the users.

- ↗ Public IP addresses (126 available)
- ↗ Custom VLANs
- ↗ Custom Security
- ↗ Custom Wireless Network Names
- ↗ Custom portal page graphics
- ↗ Content Management Services
- ↗ Audience Response Systems
- ↗ Streaming Content and Webcasting Services
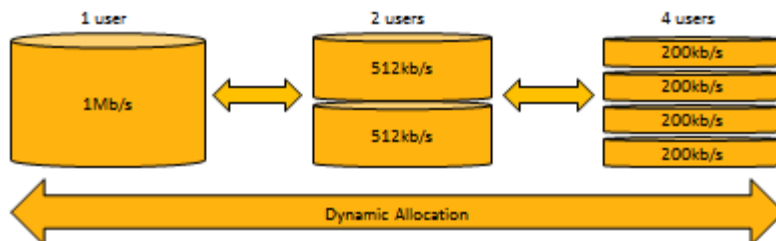
Mobile friendly..

WLAN Details

The wireless network is a full Cisco solution, offering 802.11a/b/g connectivity throughout the facility. The WLAN is managed by a Cisco Wireless LAN Controller (WLC 4402) which allows the network to manage and adapt itself to the various demands of connectivity. The access points are Cisco 1131 models.

See Access Point Locations at the end of this document.

Bandwidth Management

PSAV manages the bandwidth dynamically which means everyone will have a fair share of the bandwidth assigned to a particular group. Other networks tend to pool the bandwidth which allows for the attendees to "cannibalize" each others bandwidth causing inconsistent experiences on the network. Our approach is to dynamically assign the bandwidth in a way that evenly distributes bandwidth to those connected at the same time.

1 user	2 users	4 users
1Mb/s	512kb/s	200kb/s
	512kb/s	200kb/s
		200kb/s
		200kb/s

Dynamic Allocation

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Disclaimer

<u>Disclaimer on use of outside switches, routers, wireless hubs and access points.</u>

The PSAV network infrastructure was specifically designed for the Pasadena Convention Center and installed with specific equipment to handle a high volume of guest activity. The wireless access points are installed and configured to work well with each other.
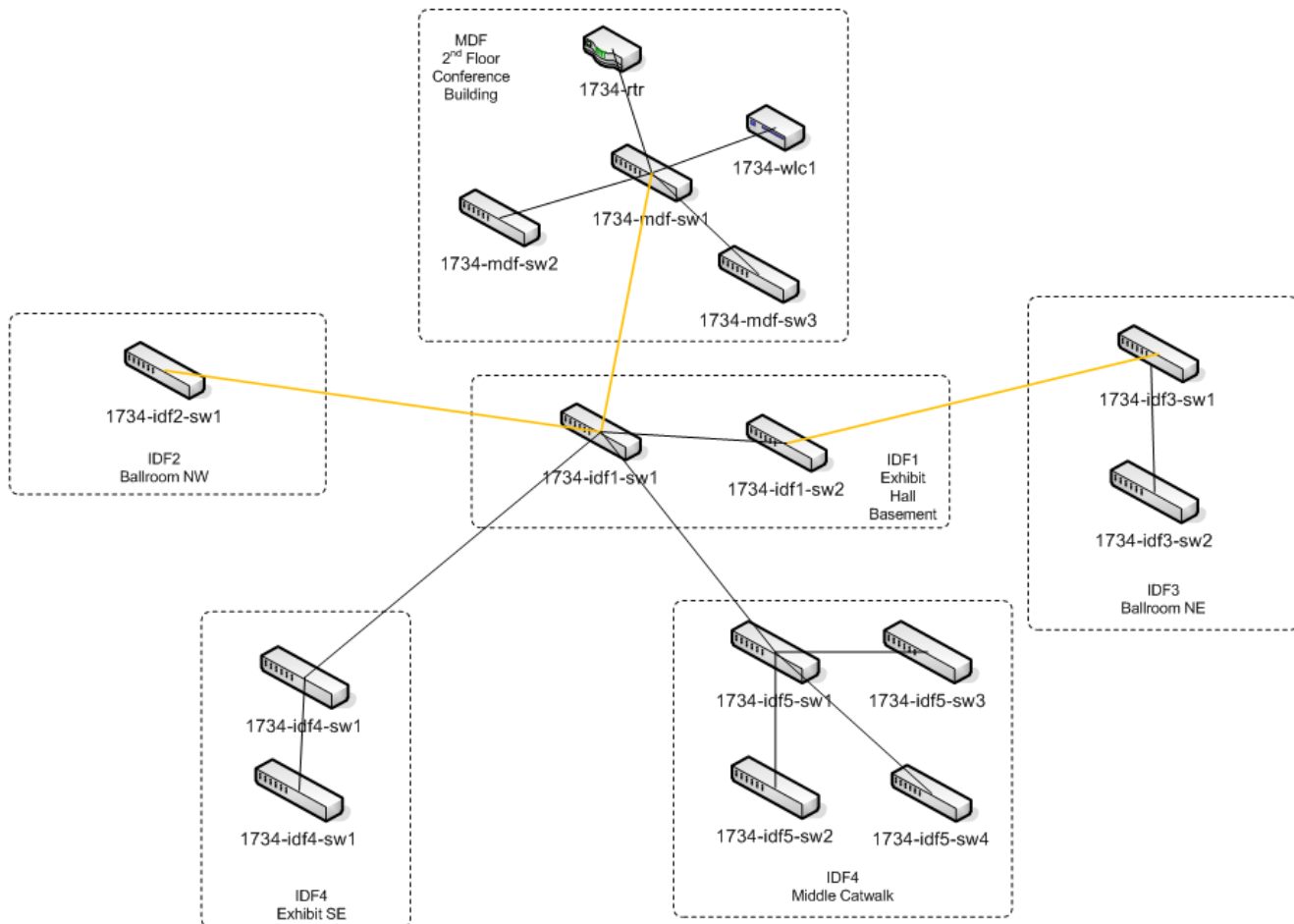
The introduction of outside switches, routers and wireless access points by conferences, conventions and events to this specifically designed system, often creates interference causing a performance deterioration of both networks. For this reason and to ensure the success of one's event technology programs, we require that any outside switches, routers and wireless access points are approved in advance by PSAV to ensure proper network design standards are met.

In the event outside switches, routers and wireless access points are brought in customer agrees that the troubleshooting of these devices remains their own responsibility and the facility and its subcontractors are unable to troubleshoot these devices. Facility and its subcontractors cannot be held responsible for a unsuccessful event technology program(s) due to the failure of outside devices.
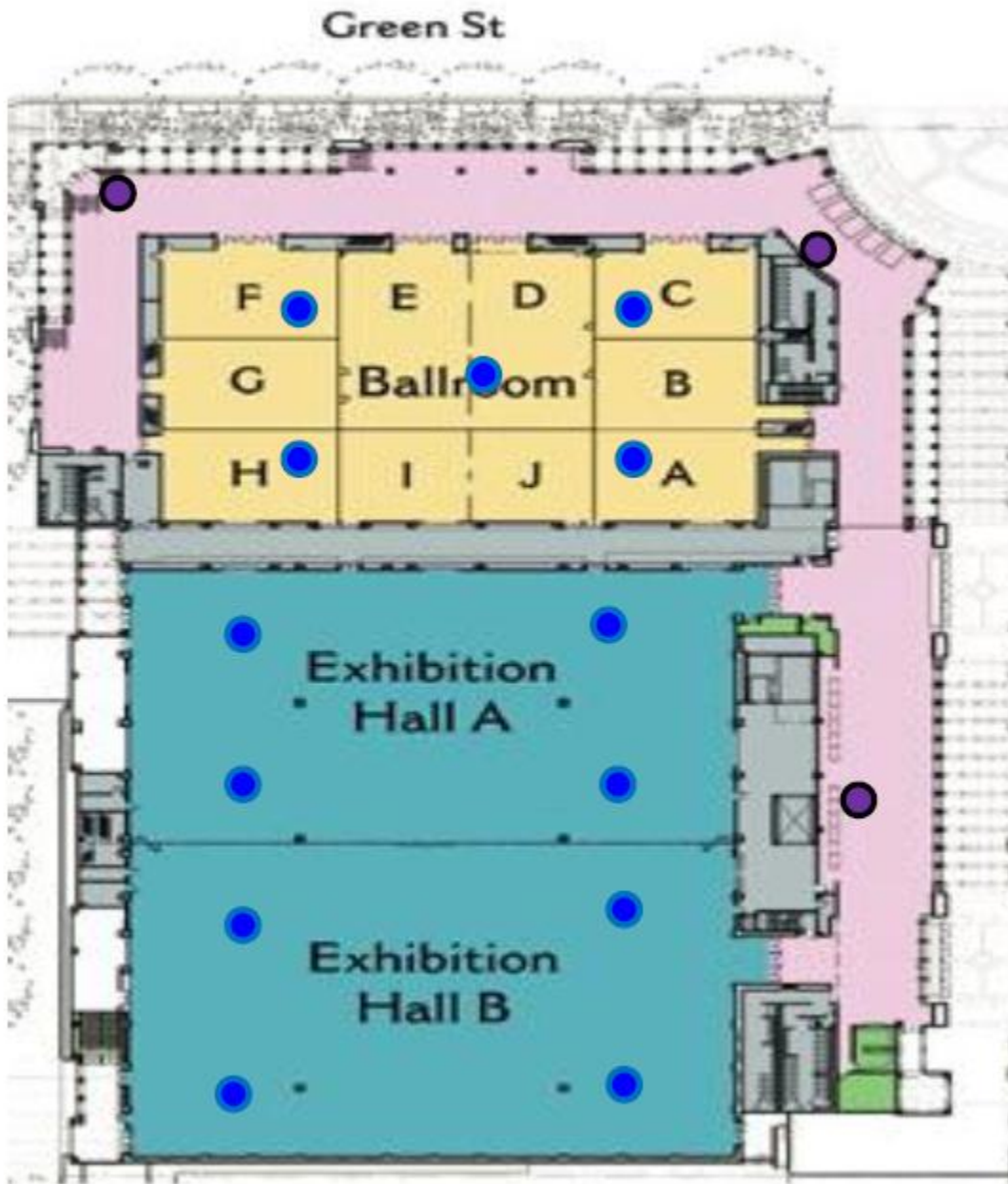

everyone wants to be connected.

don't be the reason they aren't.

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Network Layout

Wireless Access Point Locations

Wireless Access Point Locations

1st Floor

2nd Floor