I.D.E.A.L. OVERVIEW

Audience:

Institute of Electrical and Electronics Engineers



November 14th - 19th, 2004 San Antonio, TX

Prepared by:

Michael P. Rhing, Systems Administrator I.D.E.A.L. Technology Corporation



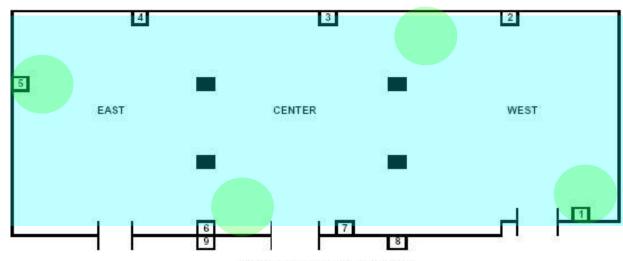
NETWORK PLAN

- Provide network support for conference
 - Network topology design and implementation
 - Management of network resources
 - Facilitate Internet access
 - File and print server access
- Provide end user support for conference
 - Wireless and wired client configuration
 - Diagnose and resolve VPN issues
- Communicate with all members any network disruptions or notable network issues

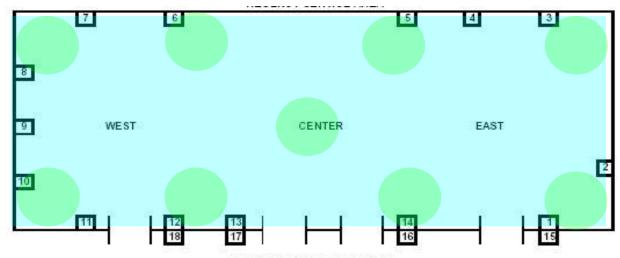
NETWORK AVAILABILITY

- Equipment inventory and initial NOC configuration by 5:00pm Saturday
- Hyatt Regency hotel Internet access available by 9:30am Sunday
- All facility links up and tested by 6:00pm Sunday
- Deployment of access points and all services completed by 11:30pm
 Sunday
- All services were active and available on time for conference sessions

HYATT REGENCY I

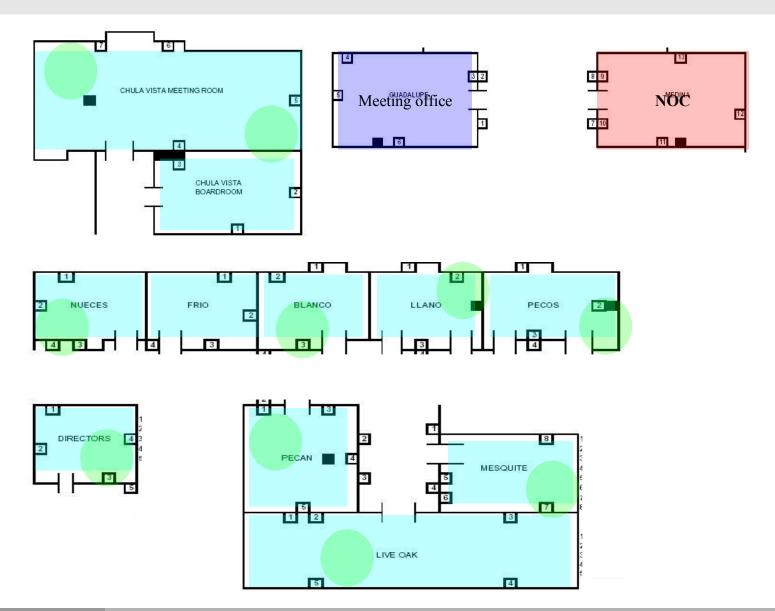


RIO GRANDE BALLROOM FOYER

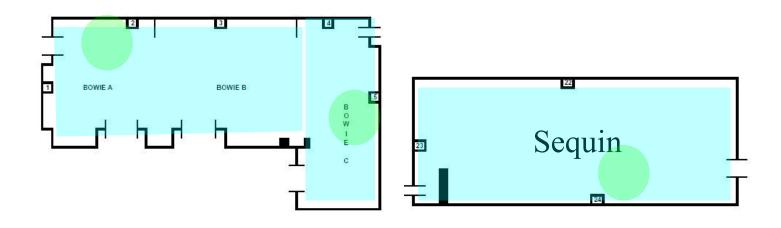


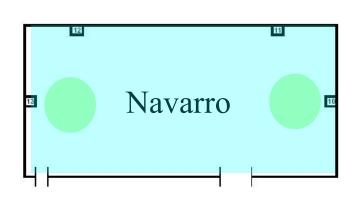
REGENCY BALLROOM FOYER

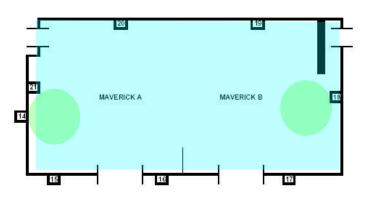
HYATT REGENCY I (CONT)



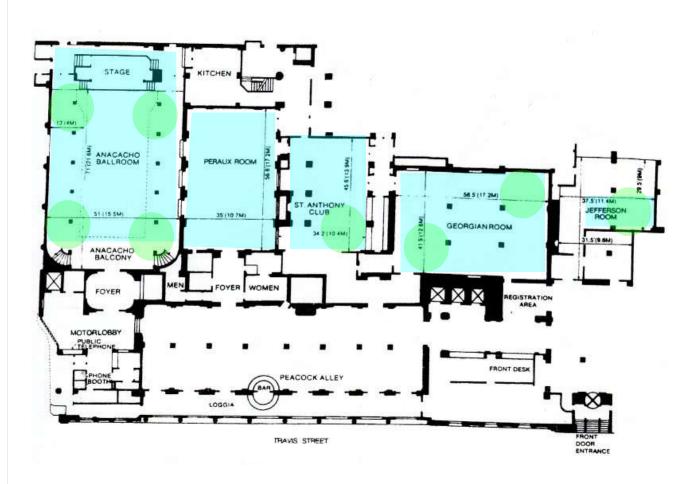
HYATT REGENCY II

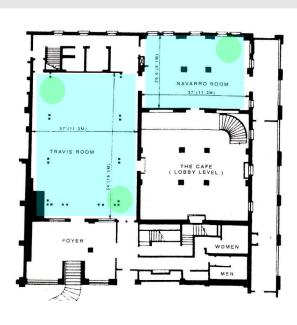




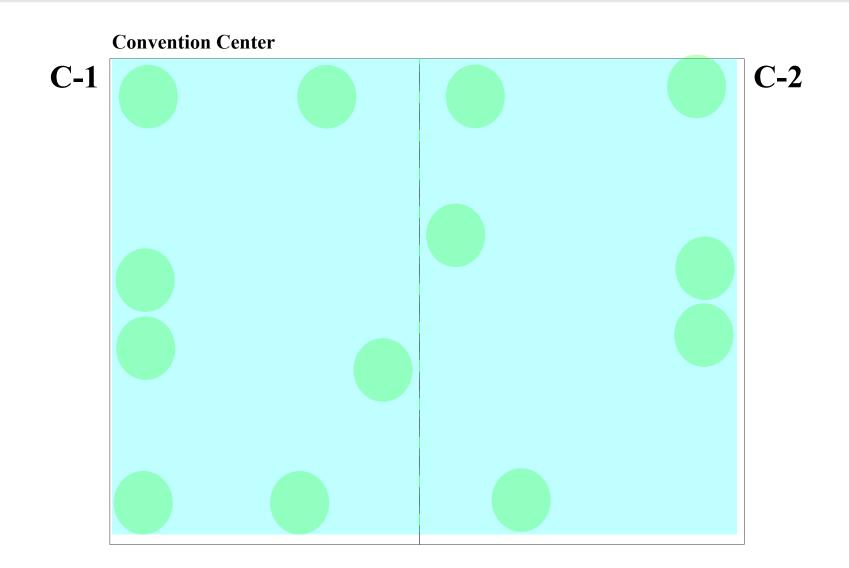


WYNDAM ST. ANTHONY

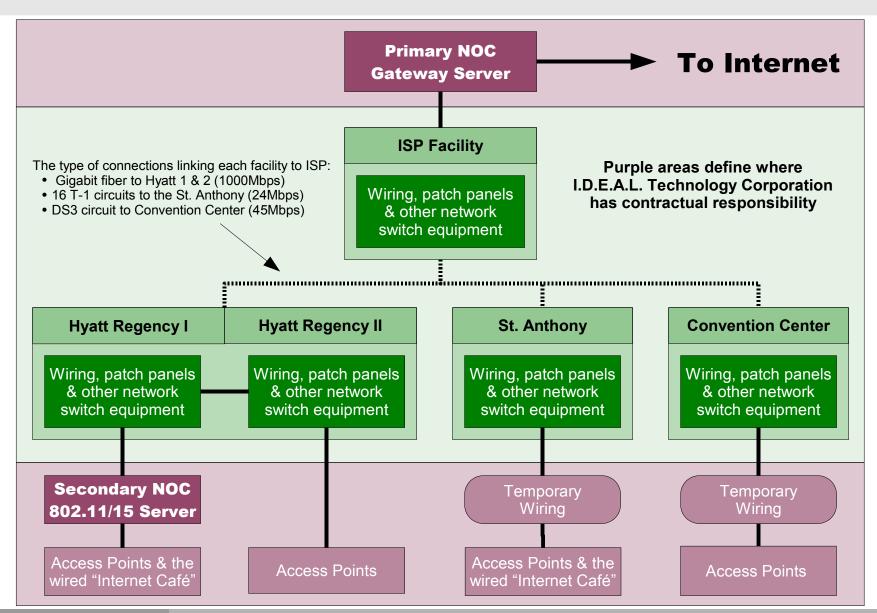




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NETWORK BLOCK DIAGRAM



I.D.E.A.L. TECHNOLOGY CORPORATION

NETWORK STATISTICS

(Statistics accurate as of 12:00pm 11-19-2004)

- Unique devices requesting IP address: 2355
- Total HTTP requests served: 19,093,836
- Total Gigabytes of HTTP data delivered: 72.7GB
- Max simultaneous Masq sessions: 61K (15K avg)
- Max simultaneous IPSEC tunnels: 207 (73 avg)
- Max simultaneous PPTP tunnels: 520 (223 avg)
- Max Internet access utilization: 25.71 Mb/sec (22.6Mb/sec)
- Total SMTP Email Deliveries: 36,024

This conference broke all previous IEEE network performance records

NETWORK CLIENTS

- 29 3com Corporation
- 5 Abocom Systems, Inc.
- 2 Acer Incorporated
- 27 Actiontec Electronics, Inc.
- 187 Agere Systems
 - 1 Airespace, Inc.
 - 5 Airgo Networks, Inc.
- 33 Aironet Wireless Communication
- 1 Allied Telesis, K.K.
- 1 Alps Electric Co., Ltd.
- 21 Ambit Microsystems Corp.
- 55 Ambit Microsystems Corporation
- 9 Ani Communications Inc.
- 36 Apple Computer, Inc.
- 1 Arima Computer Corp.
- 73 Askey Computer Corp.
- 5 Asustek Computer Inc.
- 7 Atheros Communications, Inc.
- 8 Belkin Components
- 3 Belkin Corporation
- 1 Benq Corporation
- 1 Billionton Systems, Inc.
- 2 Broadcom Corporation
- 2 Bromax Communications, Ltd.
- 1 Cabletron Yago Systems, Inc.
- 2 Cameo Communications, Inc.
- 2 Card Access, Inc.

- 189 Cisco Systems, Inc.
 - 2 Cnet Technology Inc.
 - 8 Compal Electronics, Inc.
- 28 Compaq Computer Corp
- 291 Corega K.K.
 - 2 Cybertan Technology, Inc.
- 53 D-Link Corporation
- 37 Dell Computer Corporation
- 7 Delta Networks, Inc.
- 2 Edimax Technology Co., Ltd.
- 2 Elecom Co., Ltd.
- 4 Enterasys Networks
- 4 Epigram, Inc.
- 1 Ericsson Group
- 4 Farallon Computing/Netopia
- 1 Forte Networks
- 17 Fujitsu Limited
- 101 Gemtek Technology Co., Ltd.
 - 2 Giga Fast E. Ltd.
- 5 Global Sun Technology, Inc.
- 26 Hewlett-Packard Company
- 1 Hob Electronic Gmbh & Co.
- 4 I-O Data Device, Inc.
- 43 IBM Corporation
- 2 Icom Inc.
- 441 Intel Corporation
 - 4 Intersil Corp.

- 1 Kingmax Technology, Inc.
- 1 Lite-On Communications, Inc.
- 9 Lucent Technologies
- 35 Marvell Semiconductor, Inc.
- 1 Matsushita Electric Industrial
- 8 Megahertz Corporation
- 11 Melco Inc.
- 2 Micro-Star International Co.
- 6 Microsoft Corporation
- 1 MITAC International Corp.
- 1 Module Department
- 1 Motorola Bcs
- 4 NEC Corporation
- 72 Netgear, Inc.
- 8 Nokia Wireless
- 13 Nortel Networks
- 2 Palm Inc.
- 41 Philips Components
- 1 Planet Communications, Inc.
- 2 IBM Japan Co, Ltd
- 5 Private
- 25 Proxim, Inc.
- 1 Quanta Computer, Inc.
- 2 Realtek Semiconductor Corp.
- 1 Redcreek Communications
- 38 Samsung Electro-Mechanics
- 2 Senao International Co., Ltd.

- 2 Sharp Corporation
- 1 Siemens Ag
- 17 SMC Networks, Inc.
- 14 Solomon Extreme Intl
- 21 Sony Corporation Ltd.
- 5 Sychip Inc.
- 3 Symbol Technologies, Inc.
- 1 Systemonic Ag
- 1 Test-Um Inc.
- 84 The Linksys Group, Inc.
- 12 Toshiba Corporation
- 1 Twinhead Corporation
- 2 U.S. Robotics, Inc.
- **10 USI**
- 1 Victor Company
- 2 VMware, Inc.
- 2 Wistron Corp.
- 5 Wistron Neweb Corp.
- 1 Woonsang Telecom, Inc.
- 26 Ww Pcba Test
- 41 Xircom
- 5 Z-Com. Inc.
- 1 Zyxel Communication
- 1 0C:0C:0C
- 1 63:27:24

2355 Total

NETWORK ISSUES

- An outage occurred on November 16, 2004 at 8:45AM for 20 minutes. This was due to a bug in the network card driver on the Hubble server and affected all facility sites. This issue will be corrected with a kernel upgrade during the equipment maintenance period.
- An outage occurred on November 16, 2004 at 9:55AM for 25 minutes. This
 was due to a switch locking up and only affected the St. Anthony hotel.
- The Hyatt Regency hotel experienced degraded 802.11b wireless network performance due to the presence of a video streaming demonstration utilizing 802.11g. This issue was escalated to the LMSC executive committee and was resolved by Wednesday.
- A total of 109 disrupted events were detected on the network resulting in the removal of 22 client systems from the network.

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