

**IEEE 802 Plenary Session
Hyatt Embarcadero, San Francisco, CA**

Network Services Report
July 19, 2007

Summary

VeriLAN Event Services, Inc. (VeriLAN) is providing comprehensive network services for the IEEE 802 July 2007 Plenary meeting in San Francisco, CA. We are pleased to report that after resolving significant issues with the onsite infrastructure, the network is stabilized and supporting in excess of 1600 wireless clients.

Issue: VeriLAN observed persistent 2% to 9% packet loss across the hotel infrastructure at the beginning of the week.

Resolution: Extensive diagnostics performed by VeriLAN engineers isolated the source of the problem and identified a malfunctioning core switch in the hotel MDF. VeriLAN replaced mission critical portions of the core switching network with two 24-port managed switches configured by VeriLAN's network engineers. The switches installed by VeriLAN are providing the VLANs required to support the IEEE 802 plenary session.

The VeriLAN Network Help Desk provided support for all attendees during scheduled meeting hours. All Help Desk support requests were addressed and fully resolved by VeriLAN staff.

The property is fed by a 45Mbps symmetrical DS3 connection to the Internet. We were given unrestricted access to the bandwidth, which is shared with the guest rooms and administrative offices. The shared Internet bandwidth was provided at no charge to IEEE guest rooms over the hotel's wireless network. The measured network latency is low, indicating that we are fitting well within the line capacity. Network traffic statistics are shown in Figure 1. Internet usage for the last 24 hour period is shown in Figure 2.

Traffic statistics - Thu Jul 19 21:38:20 2007								
Interface	Period	Direction	Current rate	Hour	Day	Week	Month	
LAN-SECURE (3)	Current	In	28.1 Kbits/s	3.7 MB	2.0 GB	38.0 GB	38.1 GB	
		Out	91.9 Kbits/s	22.2 MB	4.9 GB	14.7 GB	14.8 GB	
	Previous	In		20.4 MB	449.5 MB	61.9 MB	0.0 KB	
		Out		286.5 MB	2.3 GB	166.1 MB	0.0 KB	
Manage	Current	In	6.4 Kbits/s	3.4 MB	903.8 MB	3.0 GB	3.2 GB	
		Out	32.1 Kbits/s	42.2 MB	1.3 GB	17.0 GB	20.0 GB	
	Previous	In		8.5 MB	152.9 MB	97.2 MB	0.0 KB	
		Out		54.7 MB	1.1 GB	1.0 GB	0.0 KB	
OPEN	Current	In	522.6 Kbits/s	338.8 MB	25.0 GB	158.8 GB	158.8 GB	
		Out	2.1 Mbits/s	1.8 GB	72.8 GB	309.8 GB	310.1 GB	
	Previous	In		2.4 GB	80.7 GB	43.8 MB	0.0 KB	
		Out		5.9 GB	85.3 GB	361.0 MB	0.0 KB	
WAN	Current	In	2.2 Mbits/s	1.8 GB	79.0 GB	341.6 GB	345.1 GB	
		Out	548.0 Kbits/s	344.0 MB	27.8 GB	166.1 GB	166.4 GB	
	Previous	In		6.3 GB	88.9 GB	1.5 GB	0.0 KB	
		Out		2.4 GB	81.2 GB	184.8 MB	0.0 KB	

Figure 1. Internet Traffic Statistics

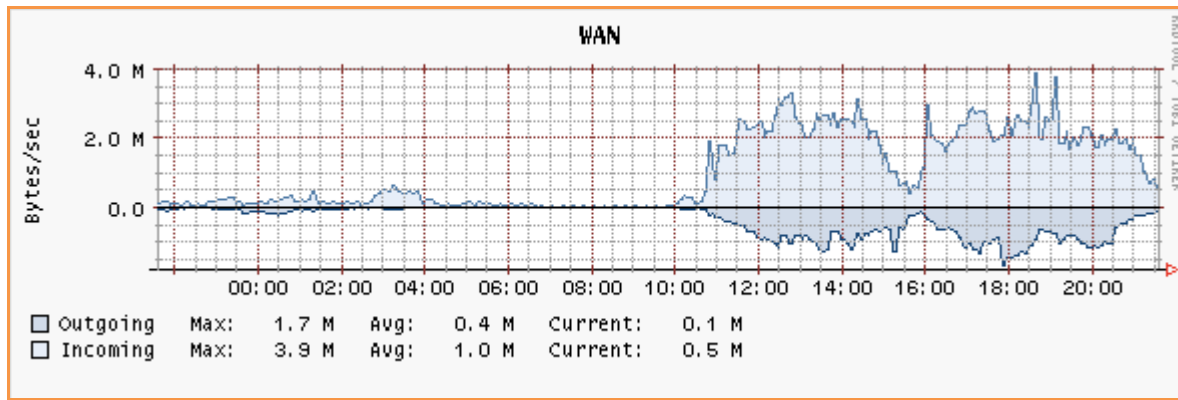


Figure 2. Internet Usage: last 24 hours (EST)

Network Deployment & Coverage

VeriLAN deployed 70 enterprise grade tri-modal IEEE 802.11a/b/g wireless access points across four floors to provide coverage for all meeting spaces. Target association density was 40 clients per WAP. VeriLAN is providing both Open and Secure (802.1x) networks to registered attendees. Figures 2 through 5 illustrate the location of the WAP deployments.

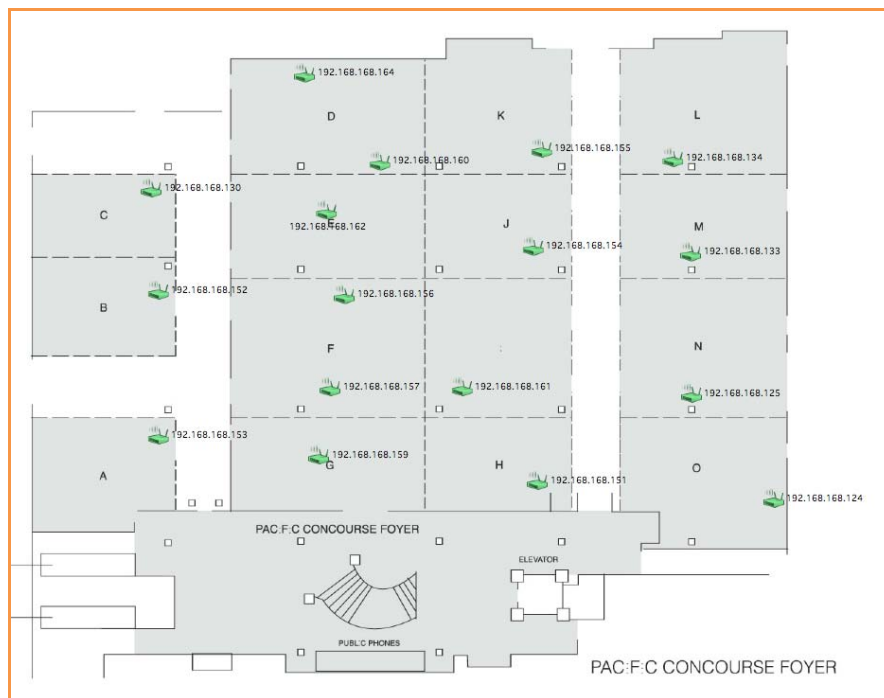


Figure 3. Pacific Concourse Level Access Point Deployment Plan

Figure 4. Street Level Access Point Deployment Plan

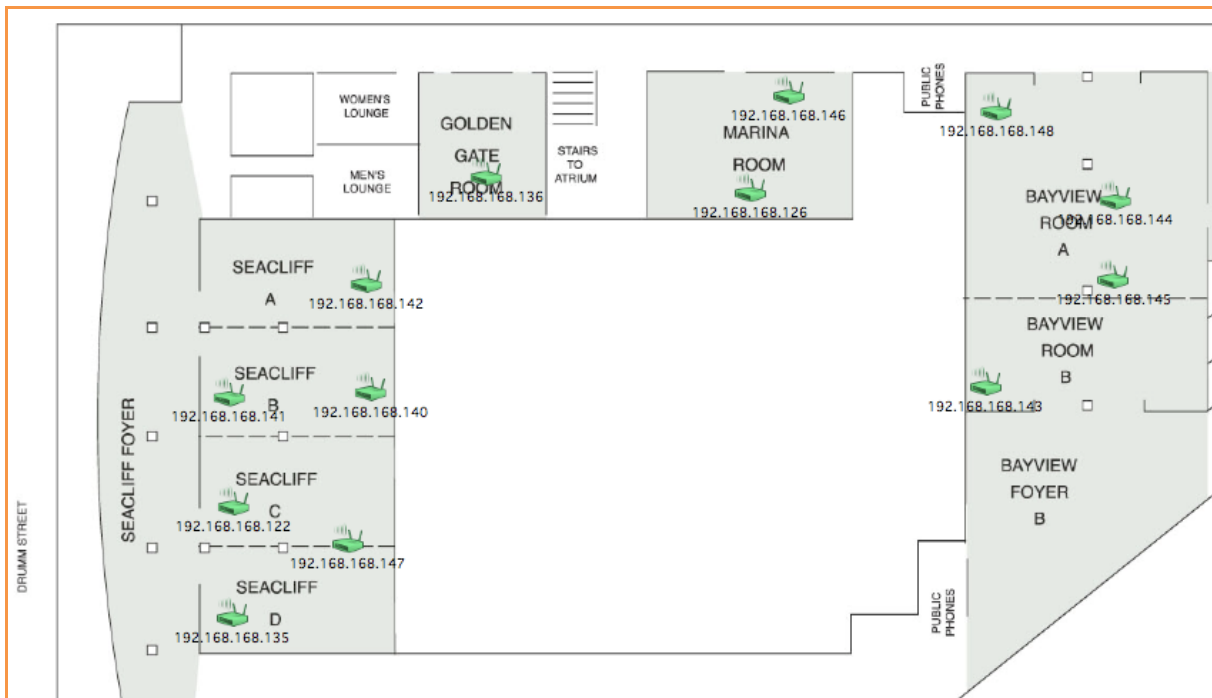


Figure 5. Bay Level Access Point Deployment Plan



Figure 6. Atrium Lobby Level Access Point Deployment Plan