



IEEE 802 Plenary Session

Hyatt Regency Atlanta

Mid-Session Network Services Report

November 9th, 2011

Summary

Verilan, Inc. is providing comprehensive network services for the IEEE 802 November 2011 Plenary session at the Hyatt Regency Atlanta (HRA) in Atlanta, GA, USA. We are pleased to report that after a full infrastructure deployment, the network is fully operational, stable and supporting in excess of 1000 unique wireless clients (laptops, smartphones, etc.). There have been no network issues reported to date.

The Verilan Network Help Desk is providing support for all attendees during scheduled meeting hours. All Help Desk client support requests have been addressed and fully resolved by the Verilan staff.

Earlier this year Verilan performed a site survey of the HRA meeting space LAN infrastructure and developed the custom network design used for this event. We contracted for 100Mbps of symmetrical uncapped bandwidth shared between our meeting space and the HRA guest rooms. Peak Internet bandwidth usage during this session is currently recorded as 57.6Mbps. Comprehensive LAN and WLAN infrastructure including managed layer 3 switches were configured and deployed in the MDF, IDF's and 33 meeting rooms located on three floors of the HRA. A total of nine IDF's were interconnected to the MDF via optical links. Network traffic statistics are shown in Figure 1. Associations are evenly distributed between 802.11a and 802.11b/g clients as indicated in the aggregate association graph shown in Figure 2. Internet usage for the last 24 hour period is shown in Figure 3. Internet usage for the last seven days is shown in Figure 4. Internet usage at Verilan supported IEEE 802 plenaries and interims for the last twelve months is shown in Figure 5.



Traffic statistics - Wed Nov 9 11:00:00 2011

Interface	Period	Direction	Current rate	Hour	Day	Week	Month
EXTERNAL	Current	In	36.8 Mbits/s	267.2 MB	44.6 GB	356.1 GB	373.8 GB
		Out	10.2 Mbits/s	73.8 MB	7.5 GB	96.0 GB	100.1 GB
	Previous	In		14.7 GB	160.1 GB	17.7 GB	0.0 KB
		Out		3.2 GB	42.2 GB	4.1 GB	0.0 KB
MANAGEMENT	Current	In	273.3 Kbits/s	2.0 MB	16.1 GB	92.6 GB	96.1 GB
		Out	985.3 Kbits/s	7.1 MB	2.0 GB	33.3 GB	47.9 GB
	Previous	In		952.9 MB	34.0 GB	3.4 GB	0.0 KB
		Out		364.4 MB	11.3 GB	14.6 GB	0.0 KB
open	Current	In	10.2 Mbits/s	73.9 MB	7.5 GB	91.1 GB	91.8 GB
		Out	35.7 Mbits/s	258.9 MB	58.0 GB	400.3 GB	402.9 GB
	Previous	In		3.2 GB	39.8 GB	677.1 MB	0.0 KB
		Out		14.9 GB	178.0 GB	2.6 GB	0.0 KB
secure	Current	In	82.7 Kbits/s	614.0 KB	189.9 MB	1.2 GB	1.3 GB
		Out	401.6 Kbits/s	2.9 MB	738.2 MB	10.1 GB	10.4 GB
	Previous	In		49.6 MB	619.6 MB	22.9 MB	0.0 KB
		Out		324.8 MB	2.5 GB	342.9 MB	0.0 KB

Figure 1. Internet Traffic Statistics

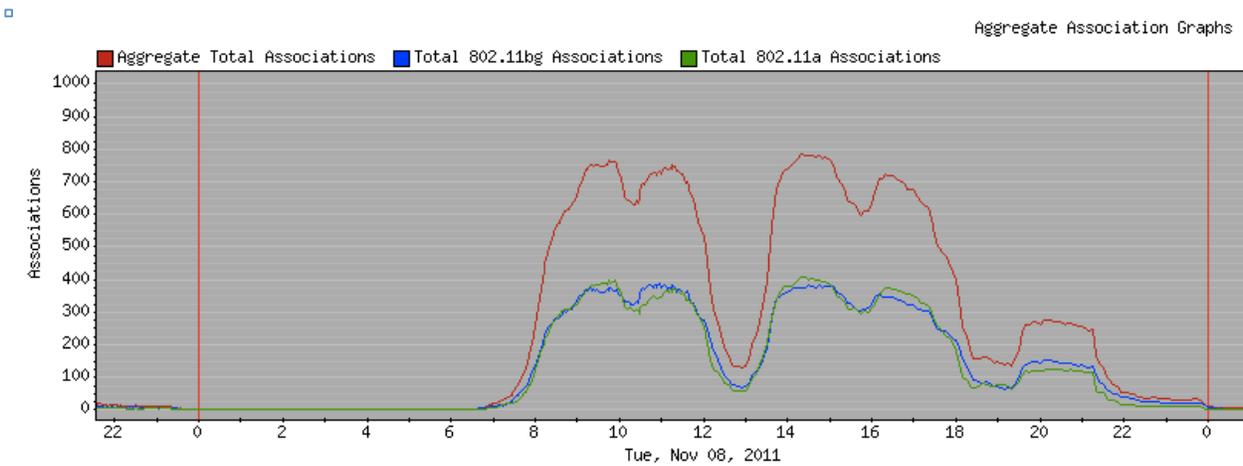


Figure 2. Aggregate 802.11a and 802.11b/g associations over 24 hour period.

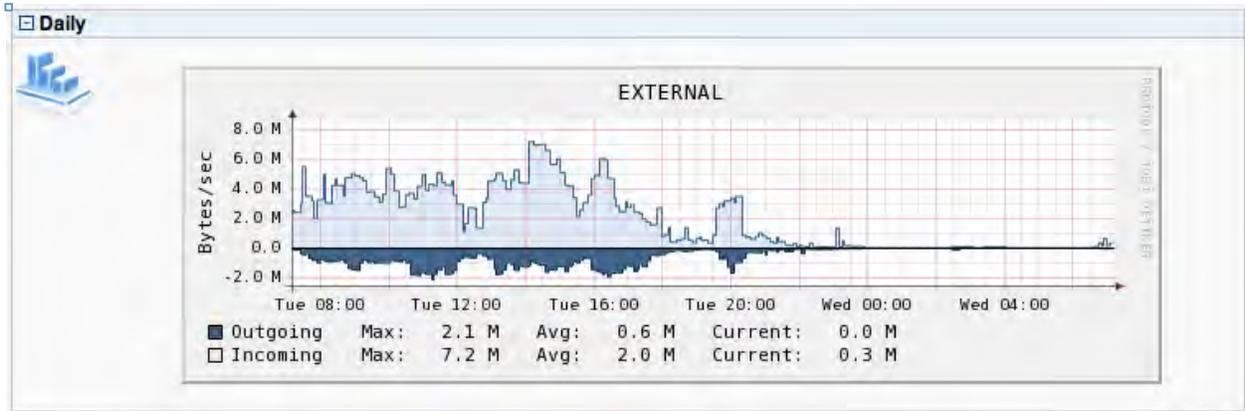


Figure 3. Internet Usage: past 24 hours (PDT)

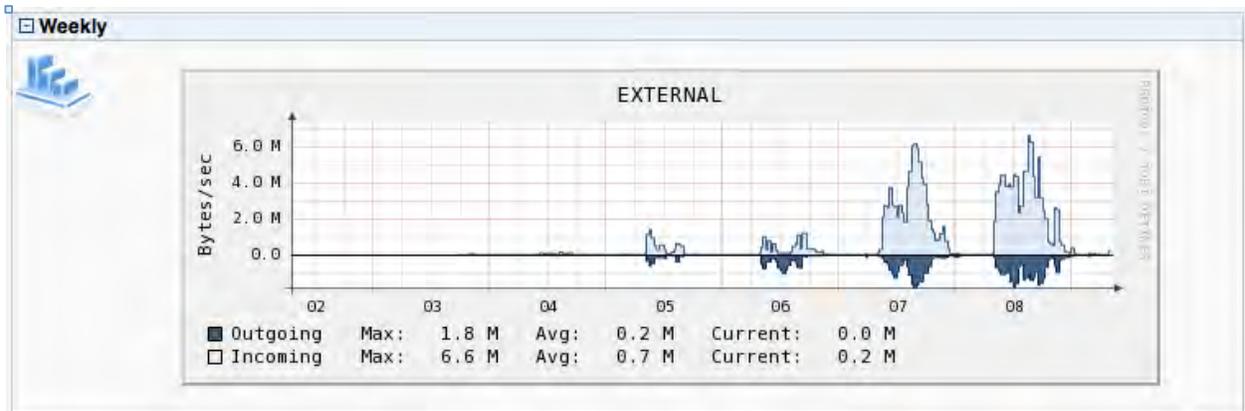


Figure 4. Internet Usage: past 7 days

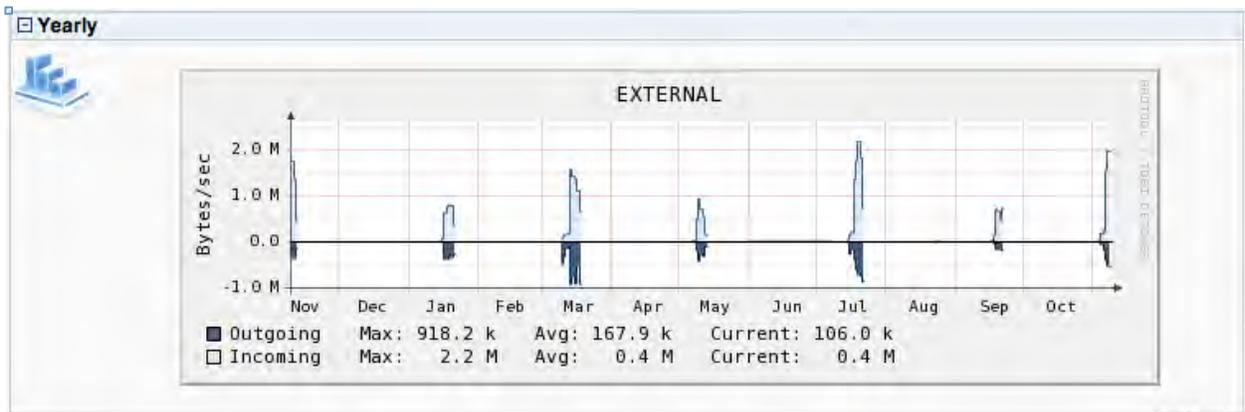


Figure 5. Internet Usage: past 12 months



Network Deployment & Coverage

Verilan deployed 48 enterprise grade tri-modal IEEE 802.11a/b/g wireless access points throughout the HRA to provide coverage for all meeting spaces. Verilan is providing both Open and Secure (802.1x) networks to registered attendees. Figure 5. illustrates the location of the WAP deployments.

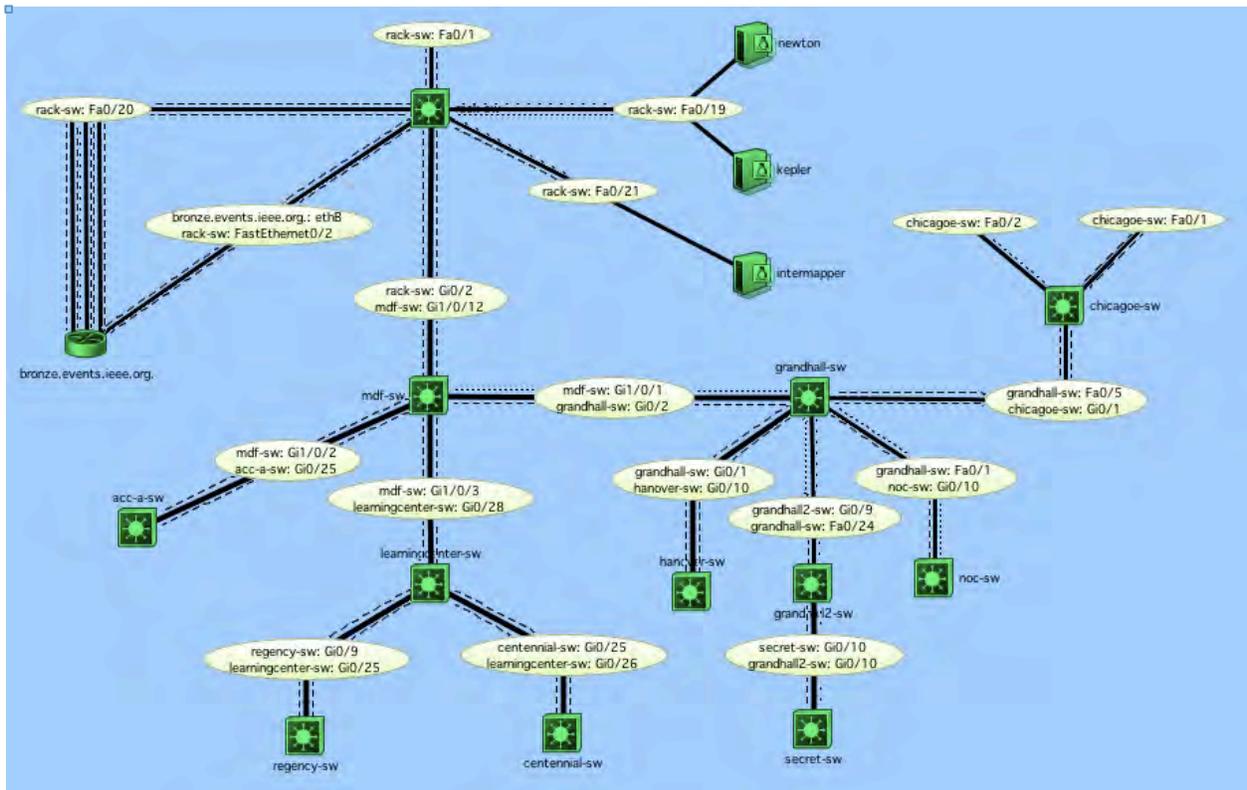


Figure 6. MDF/IDF LAN Deployment Topology



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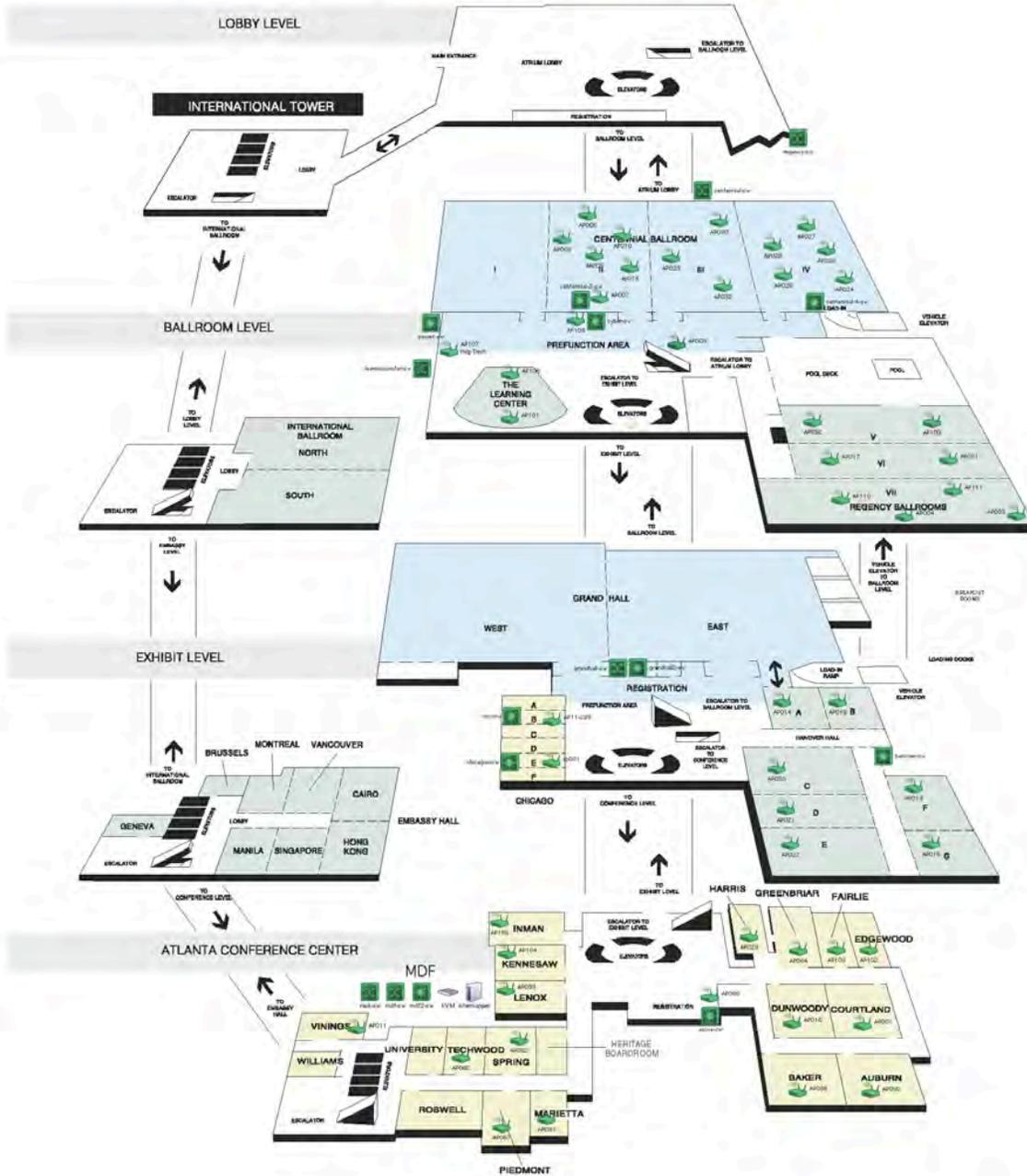


Figure 7. Wireless Access Point Deployment Plan