

Genuity

Network Operations Center uses Lion displays to monitor global Internet infrastructure

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**Steve George
Director, Network Operations Center, Genuity**

Genuity is a leading provider of Internet infrastructure services and eBusiness Network Platforms with more than three decades of experience in designing and implementing the architecture of the Internet and solving computer-networking problems. In addition to being a pioneer in the development of the Internet, Genuity was also one of the first companies to offer managed Web hosting services and managed security services through outsourced firewall monitoring.

Today, the company's *Black Rocket*™ eBusiness network platform combines a Tier 1 network with managed Internet services to meet the demanding requirements of the world's top multinational corporations. The platform allows Genuity to deliver a full portfolio of scalable and repeatable eBusiness solutions that include dedicated, remote and broadband access, Web hosting, and Internet security.

This comprehensive network includes more than 17,700 route miles of fiber optic cable providing access in more than 100 U.S. cities, undersea and international fiber-optic cable capacity, and 17 secure data centers in the U.S. and Europe. The entire global infrastructure is monitored 24 hours a day from a new state-of-the-art Network Operations Center (NOC) at the company's Woburn, Massachusetts headquarters.

Clarity displays command attention to detail

The centerpiece of the unique 10,000 square foot NOC facility is a digital wall consisting of 72 Clarity Lion 67" (WN-6720-SX) displays. The system is programmed with alarm profiles that immediately display any information requiring the prompt attention of the Genuity team.

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The semi-circular room design provides a generous 270-degree viewing area and unobstructed view of the digital wall. Genuity selected the Lion displays – based on Clarity’s Advanced Performance Liquid Crystal Display (AP/LCD™) technology – to ensure the high-resolution content could be seen from anywhere in the room.

“Not only are these screens crystal clear close-up, I can easily read them from my office more than 40 feet away,” said George.



The continuous wall is divided into three sections of 24 Lion displays that can simultaneously show content from three satellite feeds, CNN news, a DVD and a VCR. Facing the digital wall are three levels of tiered seating to accommodate 110 people working three shifts around-the-clock. Individual computer processors allow independent network maps to be displayed in multiple size configurations. In addition, any application running on desktop computers can be viewed on the larger display screens at the same high-quality resolution.

Lion meets Genuity’s demanding requirements

Genuity NOC staff use sophisticated network management tools to proactively monitor web servers, network access and Internet backbone status for the company’s enterprise customers. The digital display of this real-time information ensures that mission-critical Internet services remain uninterrupted for the banks, brokerage firms, stock markets, utilities, government agencies, media companies, universities and other enterprise organizations that rely on Genuity’s network.

The solution

The state-of-the-art Genuity Network Operation Center consists of:

- 72 Lion (WN-6720-SX) 67" digital displays with Advanced Performance Liquid Crystal Display (AP/LCD™) technology
- Three Jupiter MP 870 processors
- High-resolution data sources and two satellite video feeds

“Using giant maps displaying real-time on the data walls allows us to know if there is a problem before the customer or the general public knows about it,” said George. “Often a quick diagnosis can result in a repair before customers ever recognize there was a problem.”

Systems integrator MCSi designed and built the multimedia digital wall that overlooks 125 workstations. Clarity Lion displays were selected because they met three key Genuity objectives in the system design: security, global monitoring and rock-solid performance. “Genuity’s requirements are cutting edge and their standards are very high,” said Dan Feerick, MCSi account manager. “The Clarity product was the only one that could meet their needs.”



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