



Worldwide Headquarters

NetClarity, Inc. Crosby Corporate Center, 34 Crosby Drive, Bedford, MA USA 01730
Toll Free (USA): 1-800-874-2133 Direct (Worldwide): 1-781-791-9497

©2003-2011 NetClarity, Inc.



Agenda

- ❑ Who we are
- ❑ Threat Landscape
- ❑ 1st Generation NAC
- ❑ Our Solution
- ❑ Sample Awards
- ❑ End



“Most Innovative NAC Product of 2011”

- Nominated by InfoSec Products Guide



“NetClarity – Who’s Who of NAC”

- Channel Reseller News (CRN.com)

Worldwide Headquarters

NetClarity, Inc. Crosby Corporate Center, 34 Crosby Drive, Bedford, MA USA 01730
Toll Free (USA): 1-800-874-2133 Direct (Worldwide): 1-781-791-9497

©2003-2011 NetClarity, Inc.

Company Background

- We are a 2G NAC company
- Privately-held Delaware Corporation started R&D in late 2003
- Headquartered in Bedford, MA., USA.
Branch offices: London, Brussels & Beijing
- Initial product offering in 2007
- Sell NetClarity branded Security Appliances through a network of Distributors and Resellers worldwide

“We’ve been watching NetClarity for some time. In our view, this company is amongst the most innovative we’ve seen.”

SC Magazine



Worldwide Headquarters

NetClarity, Inc. Crosby Corporate Center, 34 Crosby Drive, Bedford, MA USA 01730
Toll Free (USA): 1-800-874-2133 Direct (Worldwide): 1-781-791-9497

©2003-2011 NetClarity, Inc.

Threat Landscape



Information



Cyber Crime



MALWARE



CVE's



Assets



Worldwide Headquarters

NetClarity, Inc. Crosby Corporate Center, 34 Crosby Drive, Bedford, MA USA 01730
Toll Free (USA): 1-800-874-2133 Direct (Worldwide): 1-781-791-9497



Threat Landscape: Information

- “Wikileaks exists in order to undermine the ability of governments to communicate secretly and diminish the power of authoritarian states. Doing this, he believes, will force openness and lead to more progressive forms of government - or at least, less repressive ones.” *Bill Thompson/BBC (2010, Dec 16th) Quoting from Aaron Bady’s Zunguzungu Blog*
- “We have called forth the network age, and yet carried on in our daily lives as if nothing has really changed.” *Bill Thompson (2010, Dec 16th) Retrieved from www.bbc.co.uk/news/technology/-12007616)*
- “A former Swiss banker has passed on data containing account details of 2,000 prominent people to Wikileaks founder Julian Assange.” (2011, Jan 7th) Retrieved from <http://www.bbc.co.uk/news/business-12205690>)
- ‘The leaky corporation’ Transparency, Content Management, data loss prevention, network forensics.... *The Economist (Feb 26th – March 4th 2011 edition)*

Worldwide Headquarters

NetClarity, Inc. Crosby Corporate Center, 34 Crosby Drive, Bedford, MA USA 01730
Toll Free (USA): 1-800-874-2133 Direct (Worldwide): 1-781-791-9497



Threat Landscape: Cyber Crime & Hacking

- Attacks on computer networks are among the biggest emerging threats to the UK, the government has said in its new national security strategy. The report highlights cyber crime, alongside terrorism and a flu pandemic, among the key dangers to UK security. Foreign Secretary William Hague said that, unless addressed, this could threaten the UK's "economic welfare". (2010, October 18) Retrieved from <http://www.bbc.co.uk/news/uk-11562969>
- The Secret Service has resolved over 1,100 cases and cracked the Heartland Payment Systems case that compromised over 130 million credit cards. Albert Gonzalez, a main defendant in that case, was sentenced to 20 years in prison. The FBI led an international law enforcement group which dismantled several international cyber criminal organizations. Two examples include the take-down of an organization which penetrated over 300 financial institutions, including the Royal Bank of Scotland (RBS), where the actors coordinated the withdrawal of nearly \$10 million in less than 24 hours from more than 2,100 ATMs in 280 cities around the world. Another FBI investigation brought down the perpetrators of a scheme that executed more than \$4 million of unauthorized transfers from over 5,000 victims' accounts

Worldwide Headquarters

NetClarity, Inc. Crosby Corporate Center, 34 Crosby Drive, Bedford, MA USA 01730
Toll Free (USA): 1-800-874-2133 Direct (Worldwide): 1-781-791-9497



Threat Landscape: Cyber Crime & Hacking

- In his address in May 2009, President Obama announced his intention to make cyber security a priority for his Administration with a “new comprehensive approach to securing America’s digital infrastructure.”
- **Cyber security is being incorporated into the Administration’s agenda as a key management priority.**
- NSS and OMB released new guidance this year for the Federal Information Security Management Act (FISMA) on April 21, 2010. This new guidance shifts the focus from departments and agencies developing static, paper-based compliance reports to continuous, real time monitoring of Federal networks.

(2010, July 14) Retrieved from

<http://www.whitehouse.gov/administration/eop/nsc/cybersecurity/progressreports/july2010>

Worldwide Headquarters

NetClarity, Inc. Crosby Corporate Center, 34 Crosby Drive, Bedford, MA USA 01730
Toll Free (USA): 1-800-874-2133 Direct (Worldwide): 1-781-791-9497



Threat Landscape: Malware

- Stuxnet is a Windows computer worm discovered in July 2010 that targets industrial software and equipment. While it is not the first time that hackers have targeted industrial systems, it is the first discovered malware that spies on and subverts industrial systems, and the first to include a programmable logic controller (PLC) rootkit.
- The worm initially spreads indiscriminately, but includes a highly specialized malware payload that is designed to target only Siemens Supervisory Control and Data Acquisition (SCADA) systems that are configured to control and monitor specific industrial processes. Stuxnet infects PLCs by subverting the Step-7 software application that is used to reprogram these devices.
- Different variants of Stuxnet targeted five Iranian organisations, with the probable target widely suspected to be uranium enrichment infrastructure in Iran; Symantec noted in August 2010 that 60% of the infected computers worldwide were in Iran.

Worldwide Headquarters

NetClarity, Inc. Crosby Corporate Center, 34 Crosby Drive, Bedford, MA USA 01730
Toll Free (USA): 1-800-874-2133 Direct (Worldwide): 1-781-791-9497



Threat Landscape: Common Vulnerabilities & Exposures

- Virtually all attacks come from already known vulnerabilities
- Netcraft.com
- National Vulnerabilities Database (CVE's)
(<http://nvd.nist.gov/>)
- Search for downloadable hacking applications

Worldwide Headquarters

NetClarity, Inc. Crosby Corporate Center, 34 Crosby Drive, Bedford, MA USA 01730
Toll Free (USA): 1-800-874-2133 Direct (Worldwide): 1-781-791-9497

Threat Landscape: Assets



- Guests
- New generation employees
- Rogue access
- Traffic Cops & Asset Cops

Worldwide Headquarters

NetClarity, Inc. Crosby Corporate Center, 34 Crosby Drive, Bedford, MA USA 01730
Toll Free (USA): 1-800-874-2133 Direct (Worldwide): 1-781-791-9497



The real story is CVEs in trusted assets!

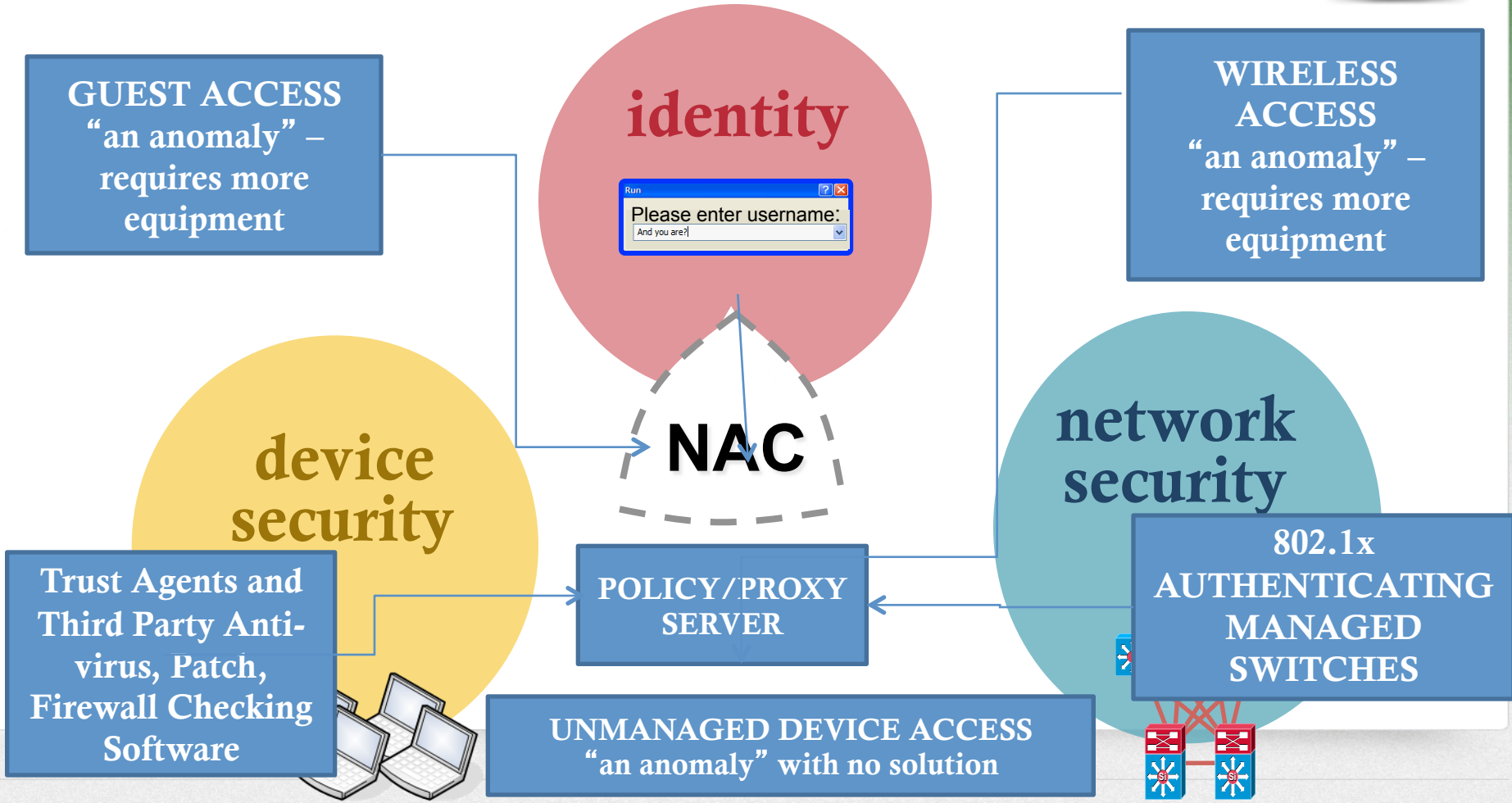
- **Only one CVE in a trusted asset and:**
 - You could be infected by Stuxnet, Sasser, Bugbear, Melissa, etc.
 - 95% of all successful attacks are a direct result of an exploit against a known vulnerability!
- **Get Rid of Your Holes (CVEs) and Malware has nothing to exploit!**

Worldwide Headquarters

NetClarity, Inc. Crosby Corporate Center, 34 Crosby Drive, Bedford, MA USA 01730
Toll Free (USA): 1-800-874-2133 Direct (Worldwide): 1-781-791-9497

©2003-2011 NetClarity, Inc.

First Generation NAC – Complex, Insecure, Expensive



Worldwide Headquarters

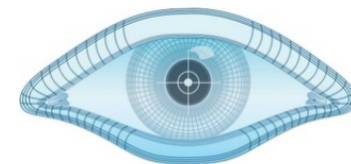
NetClarity, Inc. Crosby Corporate Center, 34 Crosby Drive, Bedford, MA USA 01730
Toll Free (USA): 1-800-874-2133 Direct (Worldwide): 1-781-791-9497

©2003-2011 NetClarity, Inc.



2G NAC Focuses on IT Security and Compliance

- **Risk = Threats x Vulnerabilities x Assets**
 - PATENTED agent-less detection, alerting, documenting and controlling:
- **Threats**
 - Zero-day “new” Malware
 - Untrusted and Guest Access
 - Malicious Insiders
- **Vulnerabilities**
 - Finding all major CVE@s in all network attached devices
 - This includes holes in wireless, firewalls, voip, desktops, servers, laptops, PDAs, iTouch, iPhone, BlackBerry, etc.
 - Differential Audits – Proving Due Care and Due Diligence
- **Assets**
 - Creating USER/IP/MAC/HOST/OS “USER/DEVICE FINGERPRINT”
 - Capturing Untrusted Assets and Quarantining them
 - Blocking assets and moving assets agentlessly across VLANs



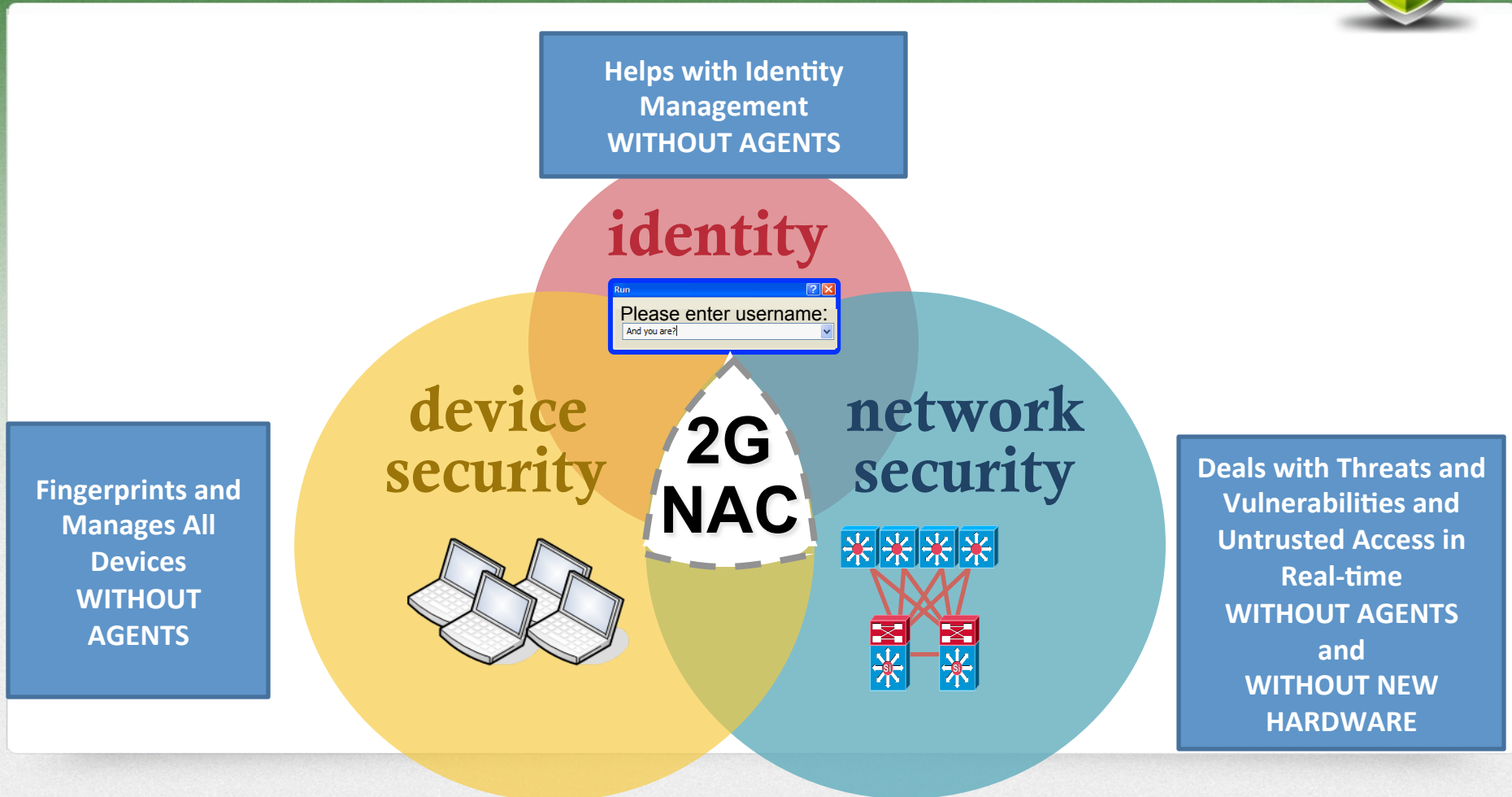
insecure.org

Worldwide Headquarters

NetClarity, Inc. Crosby Corporate Center, 34 Crosby Drive, Bedford, MA USA 01730
Toll Free (USA): 1-800-874-2133 Direct (Worldwide): 1-781-791-9497

©2003-2011 NetClarity, Inc.

Second Gen. (2G) NAC – Fast, Easy, Cost Effective



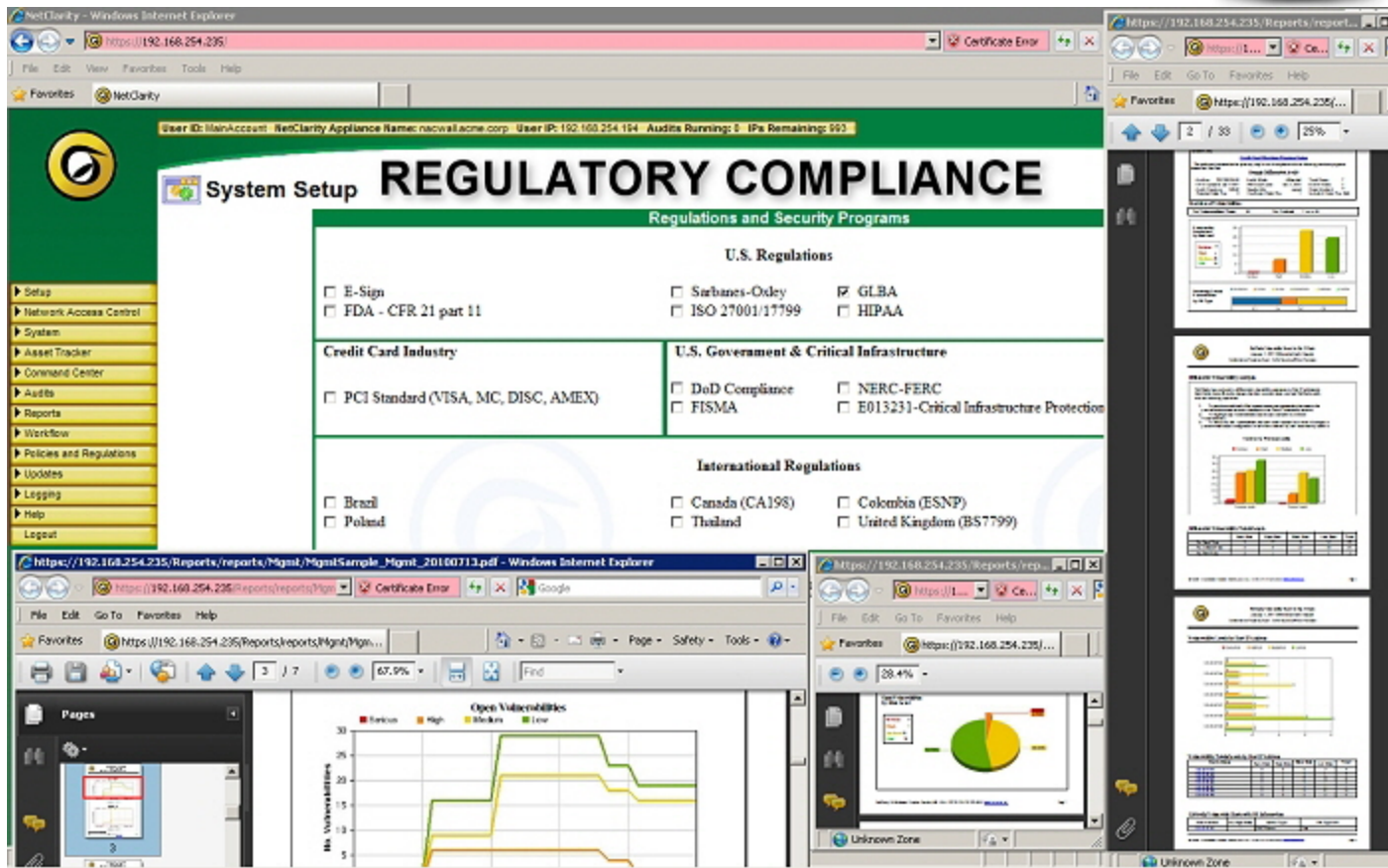
Worldwide Headquarters

NetClarity, Inc. Crosby Corporate Center, 34 Crosby Drive, Bedford, MA USA 01730
Toll Free (USA): 1-800-874-2133 Direct (Worldwide): 1-781-791-9497

©2003-2011 NetClarity, Inc.

Regulatory Pressures Growing...

- **Audit** yourself with NACwall's built-in CVE® certified vulnerability scanning and management system.
- **Report** using over a dozen different reports including Differential and Trend Analysis reports.
- **Comply** with GLBA, HIPAA, Visa PCI, NER/FERC and many other U.S. and international regulations.



The screenshot displays the NetClarity System Setup interface for Regulatory Compliance. The main heading is "REGULATORY COMPLIANCE" under "System Setup". The interface is divided into several sections for configuring various regulations and security programs.

U.S. Regulations:

- E-Sign
- FDA - CFR 21 part 11
- Sarbanes-Oxley
- ISO 27001:17799
- GLBA
- HIPAA

Credit Card Industry:

- PCI Standard (VISA, MC, DISC, AMEX)

U.S. Government & Critical Infrastructure:

- DoD Compliance
- FISMA
- NERC-FERC
- E013231-Critical Infrastructure Protection

International Regulations:

- Brazil
- Poland
- Canada (CA198)
- Thailand
- Colombia (ESNP)
- United Kingdom (BS7799)

Below the configuration sections, there are several reports and charts:

- Open Vulnerabilities:** A line graph showing the number of open vulnerabilities over time, categorized by severity (Medium, High, Medium, Low).
- Security Score:** A pie chart showing the distribution of security scores.
- Compliance Status:** A bar chart showing compliance status for various regulations.
- Asset Tracker:** A table listing assets and their associated vulnerabilities.

Worldwide Headquarters

NetClarity, Inc. Crosby Corporate Center, 34 Crosby Drive, Bedford, MA USA 01730
 Toll Free (USA): 1-800-874-2133 Direct (Worldwide): 1-781-791-9497

©2003-2011 NetClarity, Inc.

Second Generation (2G) NAC Advantages

- Manages the unmanageable!
- Fits within any normal IT budget
- Easy to deploy and manage
- Scales to any network size
- No Trust Agents
- Manages Risk (Threats, Vulnerabilities, Assets)
- Provides Real-time Intrusion Prevention behind existing firewalls and network equipment without any upgrades
- Nearly invisible on the network
- 1 SKU Does It All



Worldwide Headquarters

NetClarity, Inc. Crosby Corporate Center, 34 Crosby Drive, Bedford, MA USA 01730
Toll Free (USA): 1-800-874-2133 Direct (Worldwide): 1-781-791-9497

©2003-2011 NetClarity, Inc.



Representative Awards

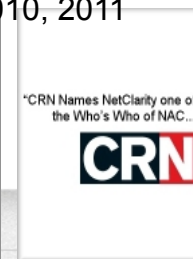
“NetClarity Picks Up Where Firewalls, Anti-virus, Intrusion Detection Systems and Intrusion Prevention Systems Leave Off”

— John Gallant, President, Network World



“The Most Innovative NAC Vendor in the World”

– Network Products Guide, Hot Companies, 2009, 2010, 2011



Worldwide Headquarters

NetClarity, Inc. Crosby Corporate Center, 34 Crosby Drive, Bedford, MA USA 01730
Toll Free (USA): 1-800-874-2133 Direct (Worldwide): 1-781-791-9497

©2003-2011 NetClarity, Inc.



End

Thank You!



Worldwide Headquarters

NetClarity, Inc. Crosby Corporate Center, 34 Crosby Drive, Bedford, MA USA 01730
Toll Free (USA): 1-800-874-2133 Direct (Worldwide): 1-781-791-9497

©2003-2011 NetClarity, Inc.