

NitroSecurity Intrusion Prevention Overview for OSSIR (Groupe SUR)

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Cressida Int'l Company History

- Created by Systems Administration and Security Experts in 2001
- Distributes and supports software across all European markets
- Main products:
 - NitroSecurity Suite
 - Intrusion Prevention Systems
 - Ecora
 - Configuration & Change Reporting, Baseline & Compare settings, Automated Patch Management, Devices Security
 - Akonix
 - Real time solutions for Secure, Managed, Productive Enterprise Instant Messaging
 - MQ Message Assurance
 - Track, Record, Audit, Replay, Edit WMQ Messages
 - RepliWeb
 - Industrialized Strength Disaster Recovery cross platform tool, replication, distribution, synchronization













NitroSecurity Company History

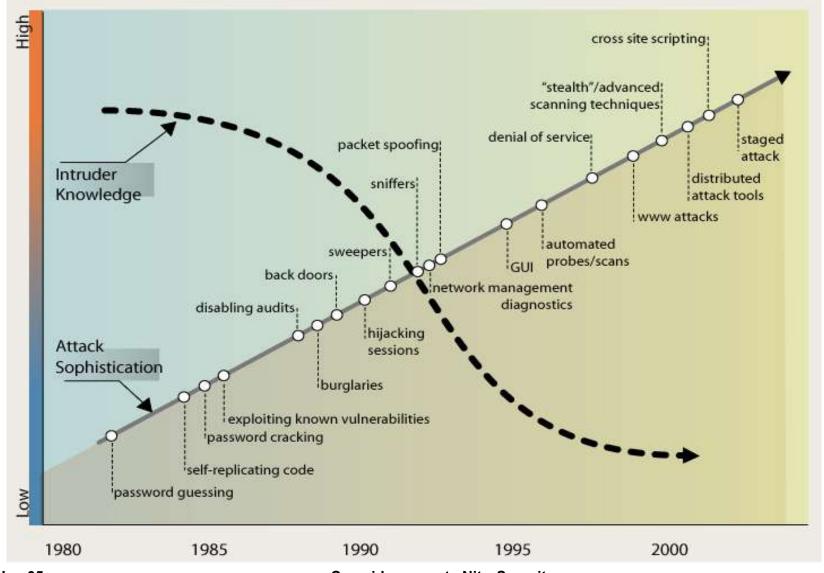
Technology origins U.S. Department of Energy's Idaho National Engineering and Environmental Laboratory (INEEL) (Sister to Los Alamos, Sandia, Oakridge)

Products

- NitroEDB- High performance embedded relational database
 - Built to handle exact, high speed data demands of nuclear power industry
 - \$30M and 65 man years invested
 - Commercialized in 1999 for the OEM community
- NitroGuard IPS-In line intrusion prevention solution
 - Open Source Debut in 2001 at DEFCON
 - Commercialized in 4th Quarter of 2001
 - 2002 version 3.0 introduced new Technologies for Detection, Analysis including integrating in-line SNORT, and Remote Communications
 - 2003 version 4.0 introduced improved Device Analysis and more comprehensive Management Console queries and analysis capabilities



So many attacks, so little time...





NitroGuard Concepts

- Next Generation Network-Based Intrusion Prevention System
 - No client agents
 - No version management or interoperability issues
 - Scalable to any size enterprise
- Ultra-fast database
 - Same database used to correlate data from all U.S nuclear power plants
 - Highly scalable
 - Technology embedded in upcoming Cisco monitoring products
- Enterprise management console
 - Enterprise wide correlation from all IPSs
 - Robust reporting



A Layered Security Approach

Security Threat	Firewall	Antivirus	NitroSecurity
Limits access to parts of the network	FULL		FULL
Translates internal addresses to external addresses	FULL		No IP Address
Protects against virus attacks		FULL	PARTIAL
Protects against worms		FULL	PARTIAL
Protects against combination worm/intrusion attacks (Nimda, CodeRed)		PARTIAL	FULL
Protects against intrusion			*FULL
Prevents outbound attacks			*FULL
Prevents outbound critical data loss			*FULL
Enforces policy rules (porn, gambling, webmail, IM, etc)			*FULL
Logs intrusion alerts for post-analysis			*FULL

NitroGuard Security Architecture





NitroSecurity IPS Family

Enterprise-Scale, In-line IPS

- Active (IPS) or promiscuous (IDS) mode in single device
- Real-time event correlation and analysis across entire enterprise via embedded security database architecture

Integrated Signature/Anomaly Detection

- Industry's largest signature (3600+) library
- Fully customizable signatures/reports
- Protocol and behavioral anomaly support

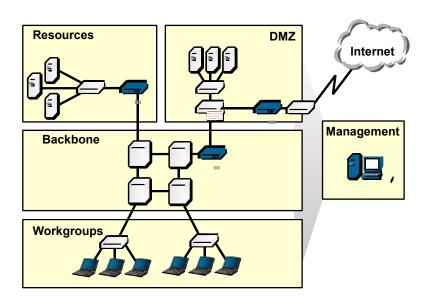
Stealth Operation Mode

- Industry's only IPS that has no IP address using in-band management
- Invisible to typical network attacks

NitroSecurity IPS

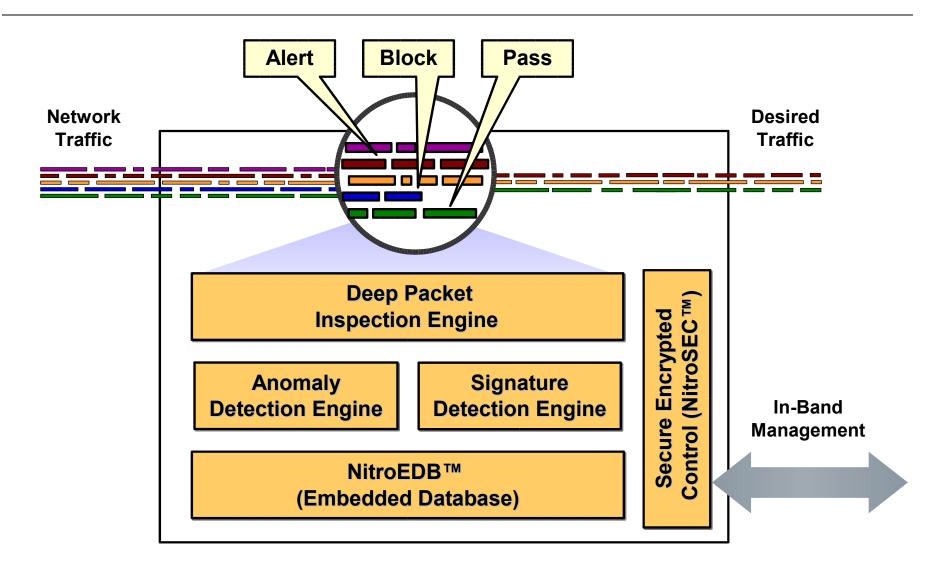


Hardware either supplied by NitroSecurity or purchased based on exact specifications



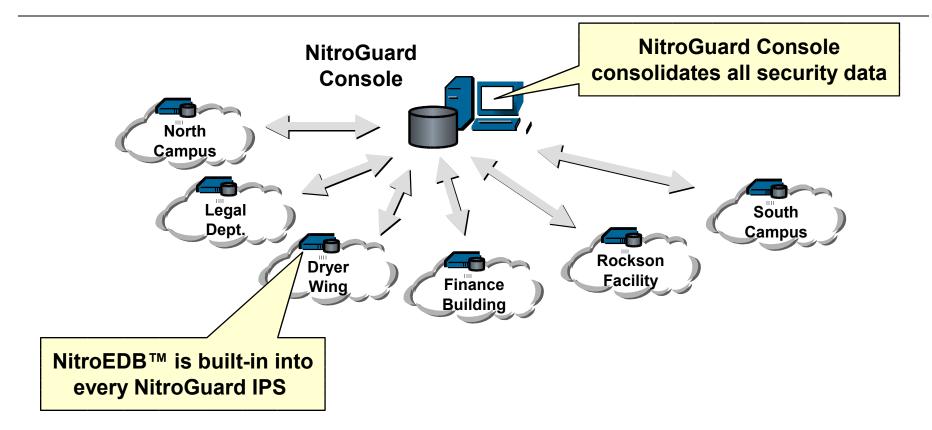


NitroSecurity IPS Architecture





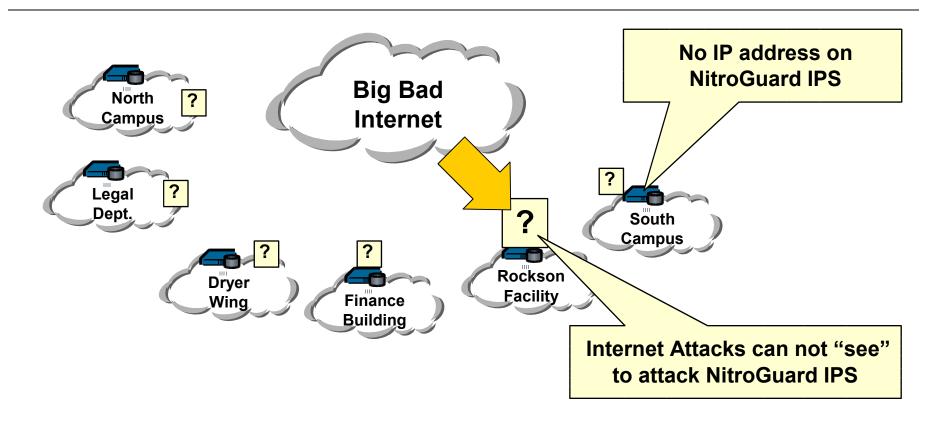
NitroEDB™ Overview



- NitroEDB™ enables real-time, enterprise-wide correlation of security data across an unlimited number of NitroGuard IPS
- Traditional IPS designs decrease in performance and correlation capabilities as security data increases



NitroSEC™ Overview

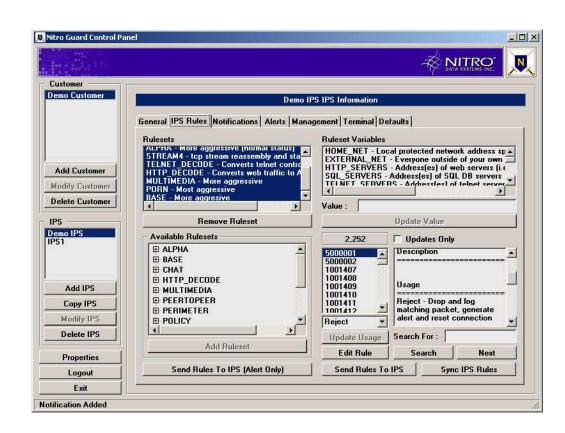


- NitroSEC™ makes NitroGuard IPS virtually impossible to attack (and does not require out-of-band management)
- Traditional IPS designs use an IP address for management (or require an out-of-band management interface and network)



NitroSecurity Demonstration





Please contact us at www.cressida.info for a live demo



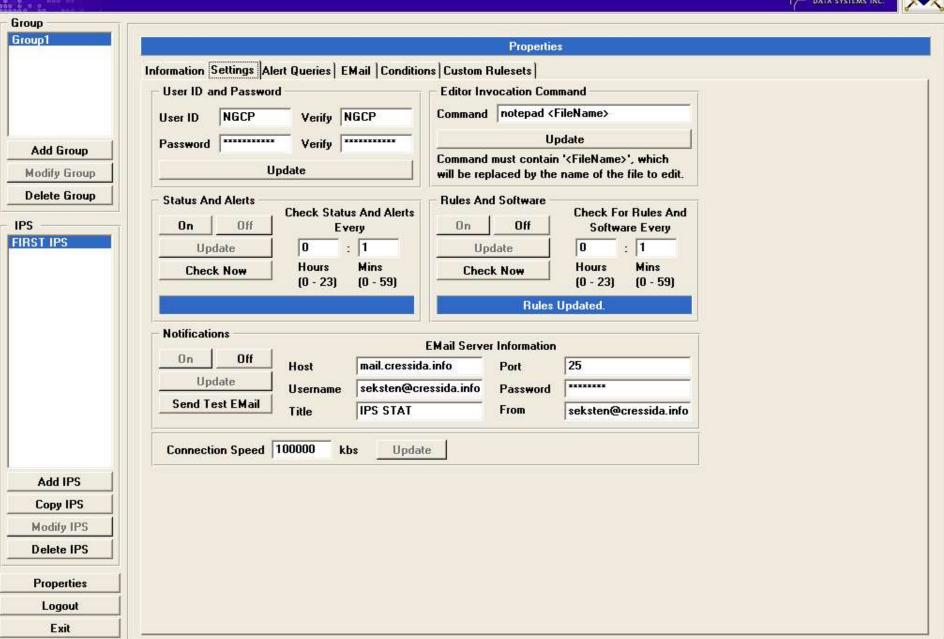












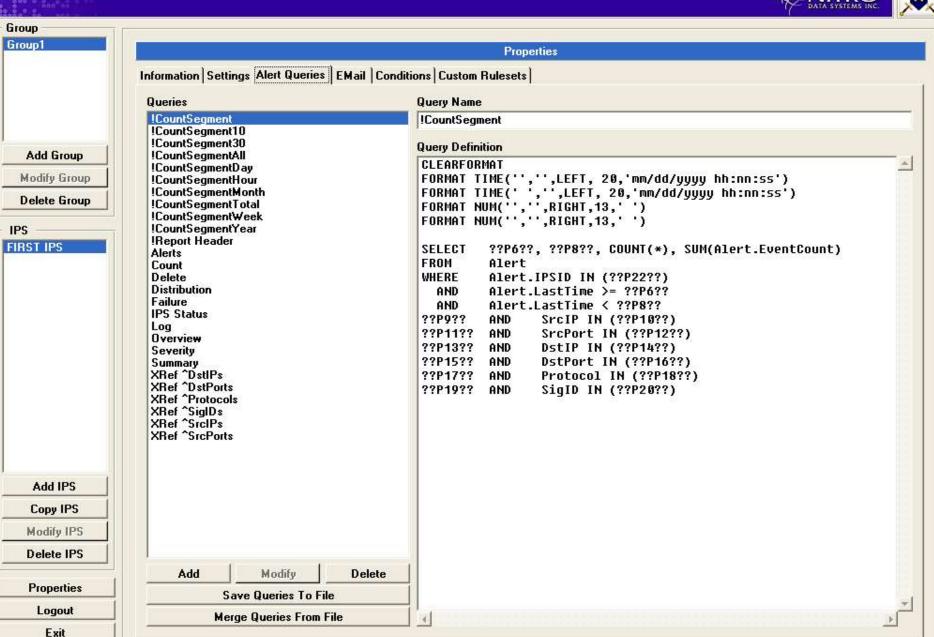










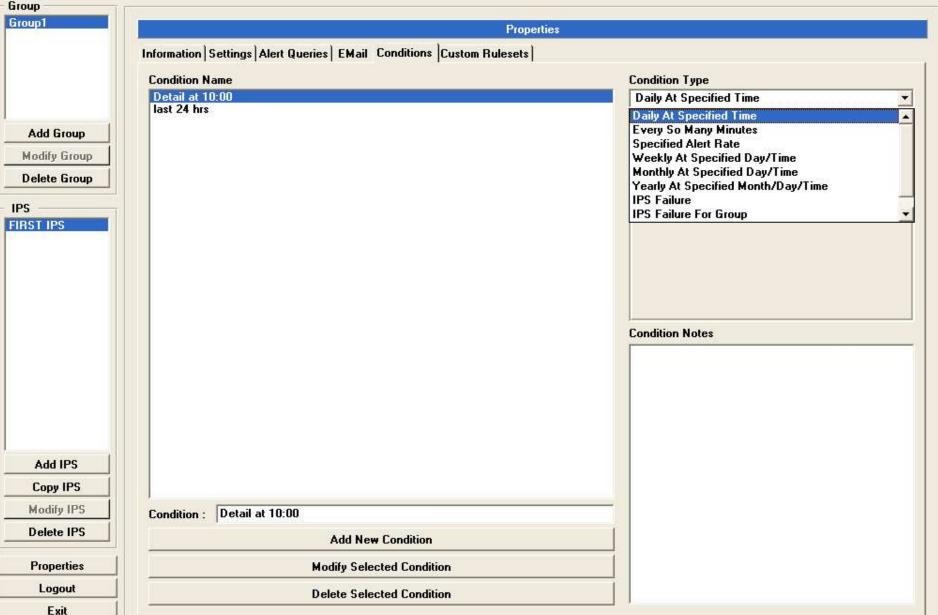












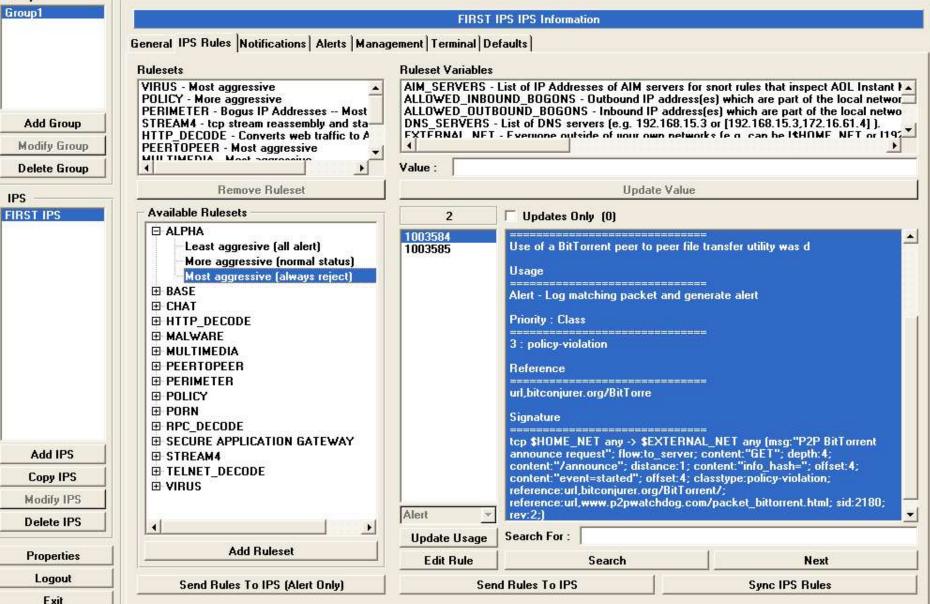










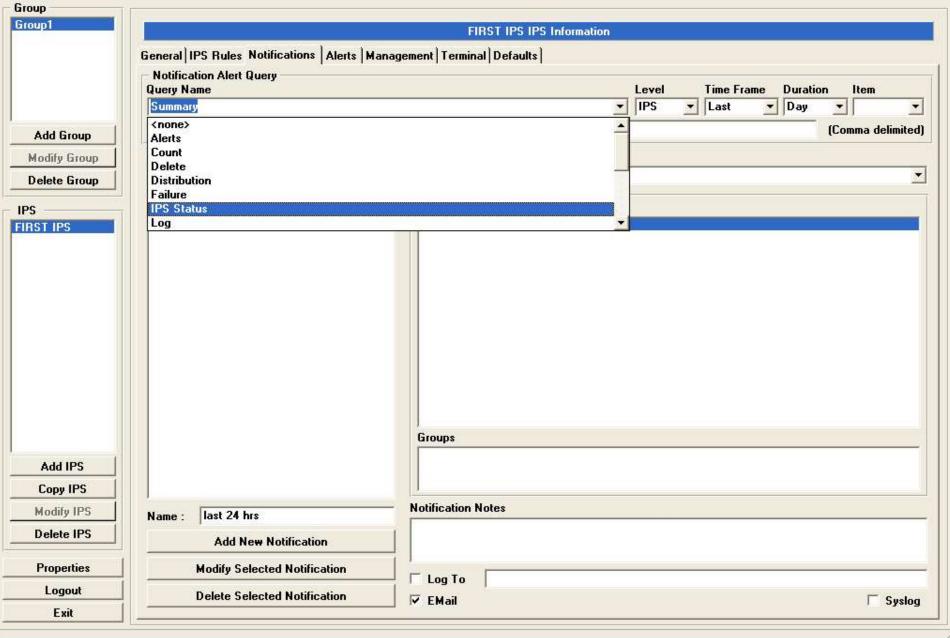












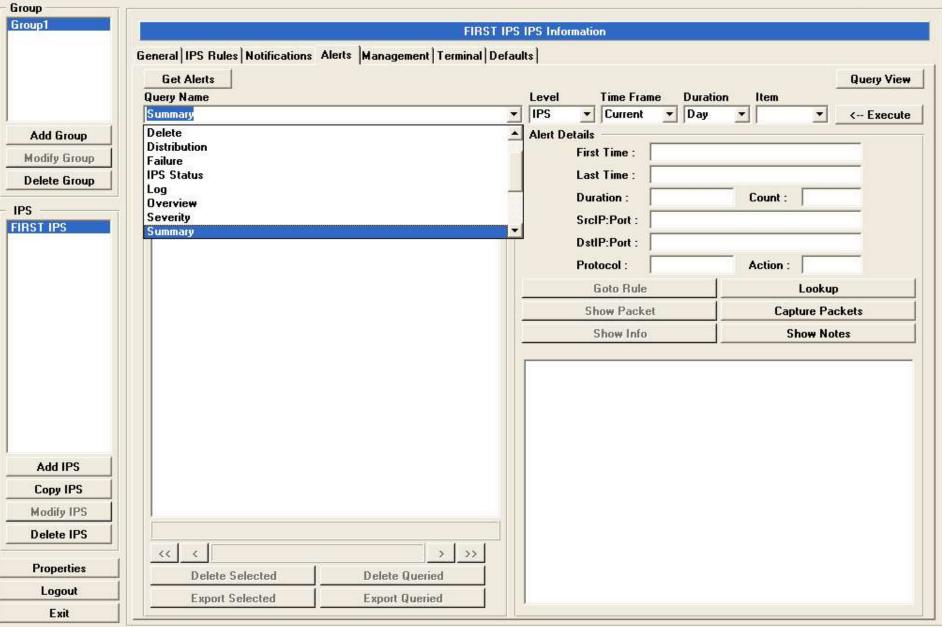








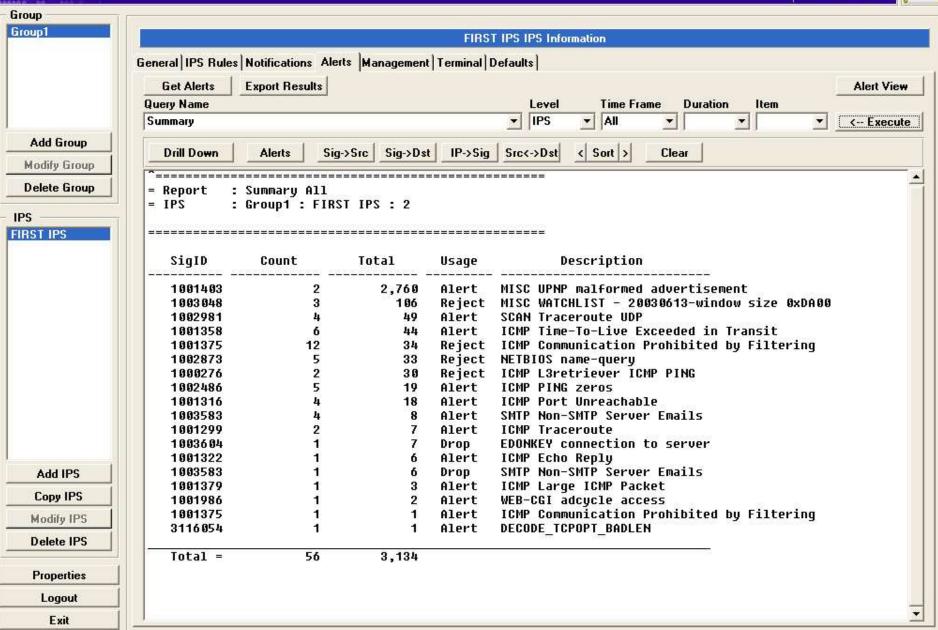












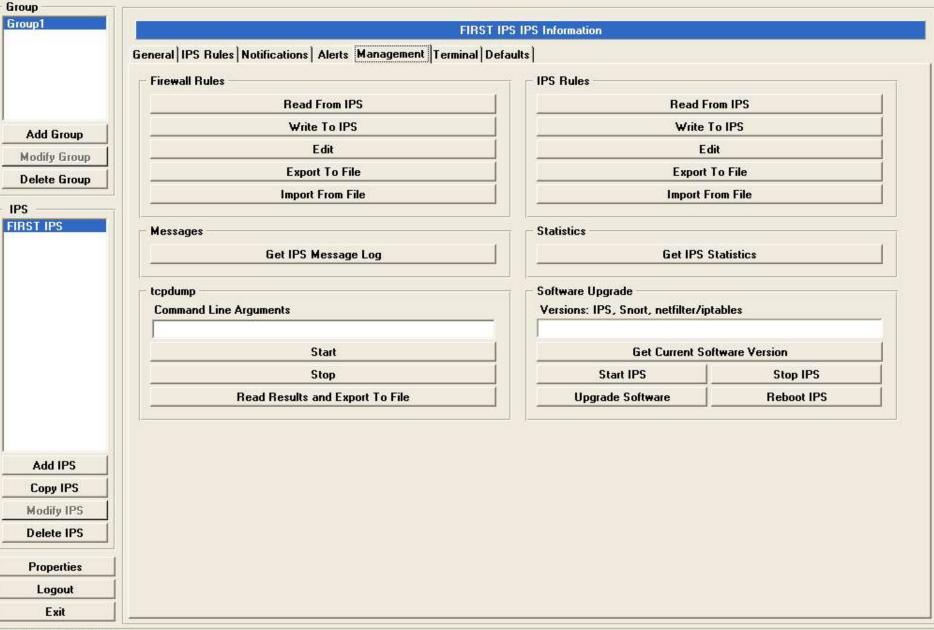


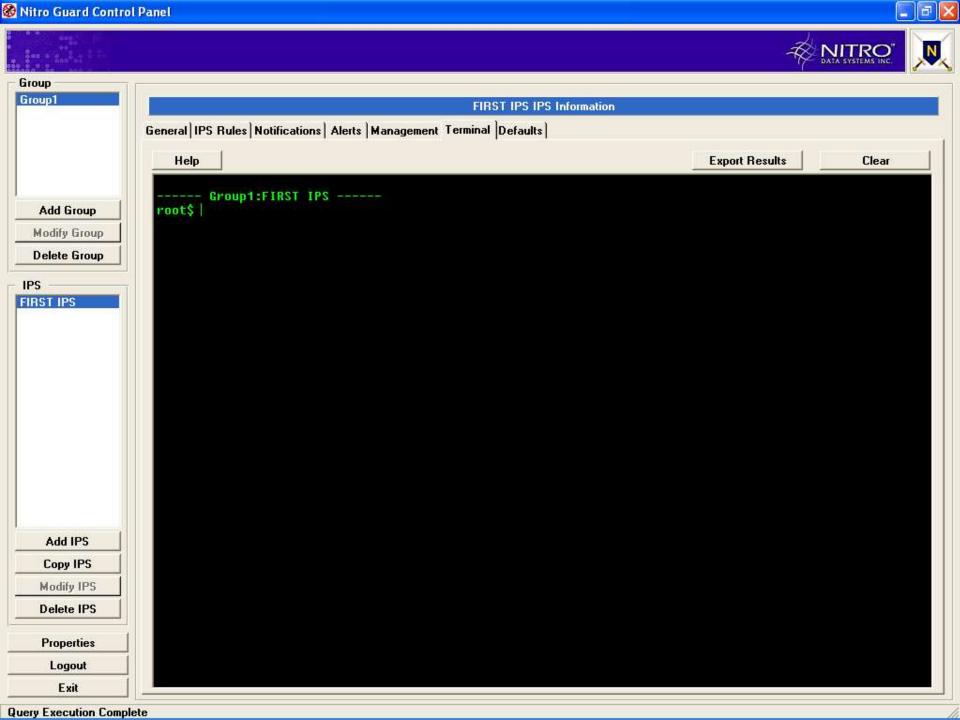






















Group		1 (2)		
Group1	FIRST IPS IPS Information			
	General IPS Rules Notifications Alerts Management Terminal Defaults			
Add Group Modify Group Delete Group IPS FIRST IPS	General IPS Rules Notifications Alerts Management Terminal Defaults Home Mask: Compression Times Minute(s) Since Last Alert Anomaly Information Anomaly (> (Min and Not in Ports)) or (> Max) Anomaly Min Limit No Destination High Port To High Port Large Outbound Data Long Duration Network Enumeration (Port) Network Enumeration (Host) Large Packet Rate Inbound Connection Rate Outbound Connection Rate Outbound Connection Rate Send to IPS Sync with IPS Reset			
Add IPS				
Copy IPS				
Modify IPS				
Delete IPS				
Properties				
Logout				
Exit				



NitroGuard Product Line

- NitroGuard 500 IPS
 - Ready for the enterprise
 - Redundant hardware
- NitroGuard 200 IPS
 - SME and departmental solution
- NitroGuard WG IPS
 - Work Group Solution
 - Protects internal assets
- NitroGuard M IPS
 - Built for SMB
 - Managed by a partner



Hardware either supplied by NitroSecurity or purchased based on exact specifications

In the US, Nitroguard is delivered embedded within a hardware box.

In Europe, NitroGuard is mostly provided as a software suite in order to run on hardware based on NitroSecurity exact specifications.



The NitroGuard Advantage

User Customizable

- Custom Signatures / Alerts
- Custom Reports
- Secure Application Gateway

Signature updates

- Based upon the industry's most widely deployed Intrusion
 Detection System core SNORT
- Over 3,000 built in attack signatures
- Multiple source vs. proprietary
- Automated signature updates

World Class Service and Support

- 24X7 and managed service options available
- Alpha response available



Intrusions: What should you do?

In an October 2003 release, Gartner advised clients to purchase a network-based IPS and states, "A true network-based intrusion prevention system must:"

- Operate as an in-line network device at wire speeds. √
- Perform packet normalization, assembly and inspection. √
- Apply rules based on several methodologies to packet streams, including (at a minimum) protocol anomaly analysis, signature analysis and behavior analysis. √
- Drop malicious sessions don't simply reset connections. √

"Enterprises that have not yet made large investments in network IDSs should delay investment while investigating the advantages of Intrusion Prevention Solutions."



Other Cressida Security Solutions: Ecora

Enterprise Auditor

Ensure proper implementation and use of Security settings & policies

- Automatically generate configuration settings and change reports,
- For security audits and compliance.
- Covers all critical OS's, databases, network devices, and applications, including Cisco, Citrix, IBM, Microsoft and Oracle.

Patch Manager

Make sure latest Operating System Security capabilities are effective

- Automate and accelerate patch management –
- Easy to install and use,
- Unsurpassed graphical reports.
- Agentless or agent-based your choice.



Device Lock

Stop improper use of mobile and volatile storage devices

- Prevent users with USB drives from stealing your data.
- Halt unauthorized Wi-Fi networks and manage user access to devices.



Other Cressida Security Solutions: Akonix

- Full and Comprehensive of Management of Public and Enterprise IM
 - Public IM AOL, ICQ, IRC, MSN and Yahoo!
 - EIM Lotus SameTime and Microsoft Live Communication Server (LCS)
- IM Logging and Report for other selected Enterprise IM solutions
 - Reuters Instant Messaging
 - Bloomberg Instant Message
 - Authenticates user/screen name
 - Integrates with Active Directory
 - Manages by single user, groups of users or everyone
 - Full Access Controls Chinese Walls
 - File Transfer Controls
 - IM Feature Controls
 - Full or Selective Content Filtering
 - Anti-virus scanning (with 3rd party)
 - IM conversation logging and reporting
 - IM Content Archiving Integration (with 3rd party)
 - Compliance Reporter and protocol
 - Dynamic update for protocol changes
 - Auto install, no downtime
 - Offers full scalability





Other Cressida Security Solutions: ReQuest

Recovery

- Time Stamp Recovery
- Detection of valid recovery points
- Cross Queue Manager
- Allows MQ data to be recovered in sync with DBMS data.
- Recover deleted queues and purged data.
- Forward Recovery
- Individual Q's or group of Q's, possibly cross queue manager
- Mass recovery in fail over situation.
- Purged Queues

Reporting

- Granularity is MQ-call
- Cross Queue Manager
- By Q, By application, By Time-span
- "Message Propagation"-report
- MQPUT by appl A on RemoteQ in QMGR_A
- Put on transmission Q for QMGR_intermediate
- Put on transmission for QMGRB by QMGR intermediate
- Put on Q_Receiving in QMGRB by receiver.
- MQGET from Q Receiving
- MQPUT of reply message (correlid!) by appl B on...
- Filtering options
- Raw data, in fixed documented format
- To interface with other reporting tools





Other Cressida Security Solutions: RepliWeb

Recovery

Fire and forget
 Recovers from networks failures or system crashes down to block level

Data transfer

- Integrity
- Compression
- Bandwidth control
 - Absolute
 - Relative
 - Time frames
- Differential Transfer
 on large files only transfer the differences



Thank You



- Interesting free downloads:
 - NitroSecurity:
 - White papers on IPS (Intrusion Prevention System)
 - http://www.cressida.info/whitepapers_page.htm#NitroGuard
 - Akonix RogueAware software:
 - free monitoring tool that detects and reports on IM and P2P File Sharing use within corporate network
 - http://www.akonix.com/products/test_drive.asp
 - Ecora
 - Free software evaluation (Systems Configuration Audit & Patch Management)
 - http://www.cressida.info/products_ecora_overview.htm

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