Cyberoam
A SOPHOS Company

Cyberoam
Next Generation Security

ProtektNet

Our Products

Network Security Appliances - UTM, NGFW
(Hardware & Virtual)

Modem Router

Integrated Security appliance

Cyberoam Introduction

- Technology Powerhouse
- 550+ Employees
- Sales, Distribution Channel and Customers across 125+ Countries
- Amongst the top 3 global players for network security features
- Patent-pending Identity-based Management

One stop shop: Cyberoam's Holistic Security Solutions

Cyberoam
A SOPHOS Company

Network Security

Cyberoam

Centralized security Management

Cyberoam Central Console

VIRTUAL CCC APPLIANCE

Network Monitoring & Analysis

Cyberoam iVIEW
Intelligent Logging & Reporting

Securing Home users

Cyberoam NetGenie

HOME
Modem Router

Cyberoam®

Network Security Appliances – UTM, NGFW (Hardware & Virtual)

Cyberoam Layer 8 User-ID Technology

Cyberoam Architecture

Powerful Hardware

- Multicore Gigahertz processors for Nano second security processing
- Gigabit Ports to integrate with Gigabit network

Intelligent Firmware

- Tight integration with Hardware
- Network & Crypto Acceleration

Cyberoam OS

Multi-core Vs. Purpose-built Architecture

The Magic of Parallel Task Execution

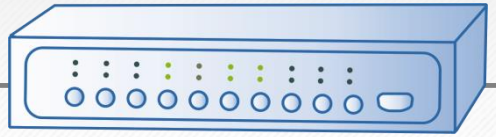
Multi-core Technology

One Task = 3 ms

Parallel Execution

Ten Tasks = 15 ms

Purpose built Technology



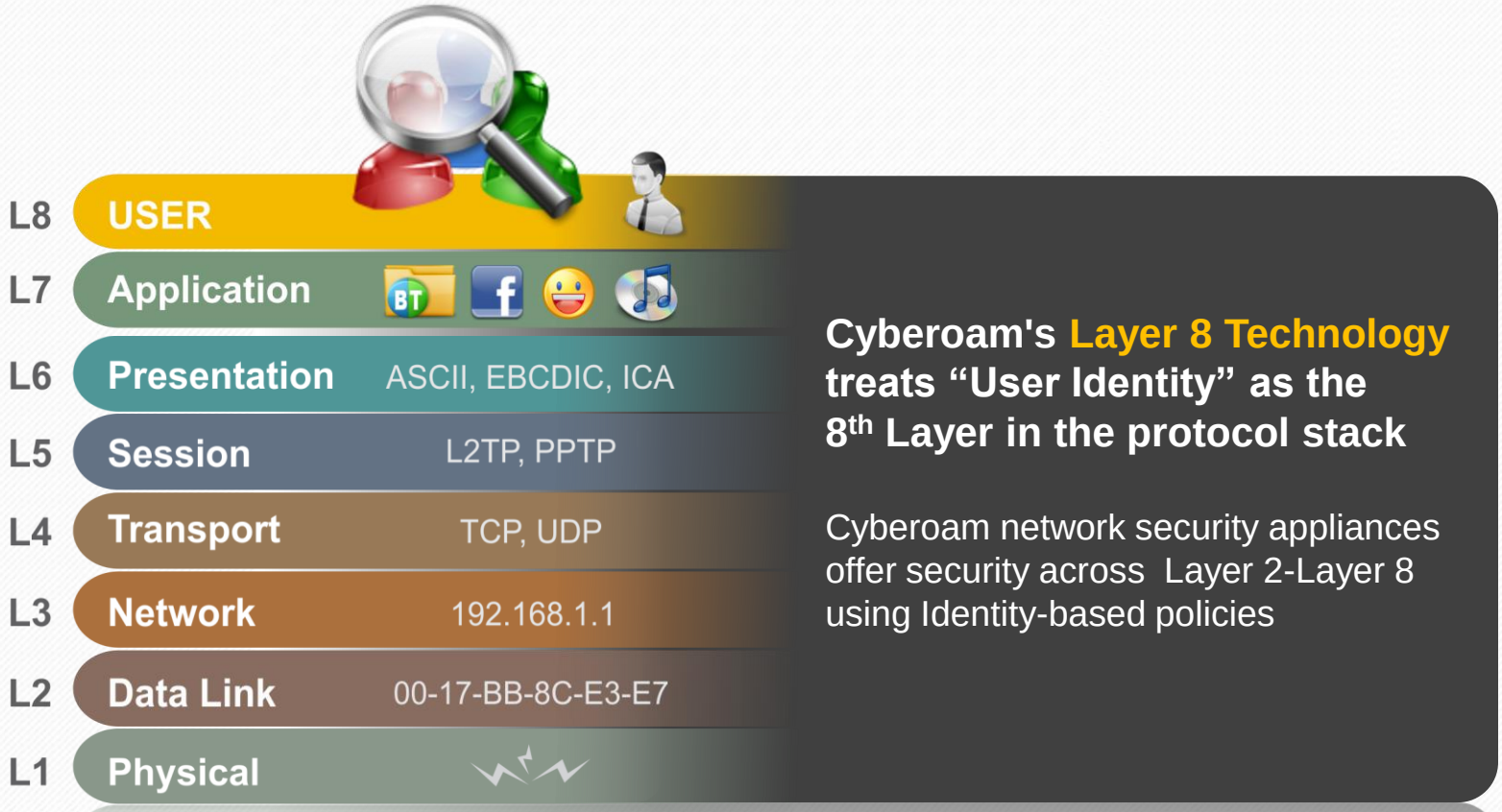
One Task = 2 ms

Serial Execution

Ten Tasks = 20 ms

This is strictly a conceptual representation of the actual process, not to be taken literally.

Cyberoam Innovation: Layer 8 Security



Cyberoam's Layer 8 Technology treats "User Identity" as the 8th Layer in the protocol stack

Cyberoam network security appliances offer security across Layer 2-Layer 8 using Identity-based policies

AAA over single Cyberoam appliance

Identity-based AAA

Users

Employees

Management

Customers

Partners

Cyberoam Authenticates

- User Name
- IP Address
- MAC Id
- Session Id

Cyberoam Authorizes

- Internet surfing quota
- Schedule control
- Security Policies
- Web Filtering
- Application Visibility & Control
- QoS / Bandwidth Management
- IM Controls

Cyberoam Audits

- Identity–based Logs + Reports
- Compliance Reports

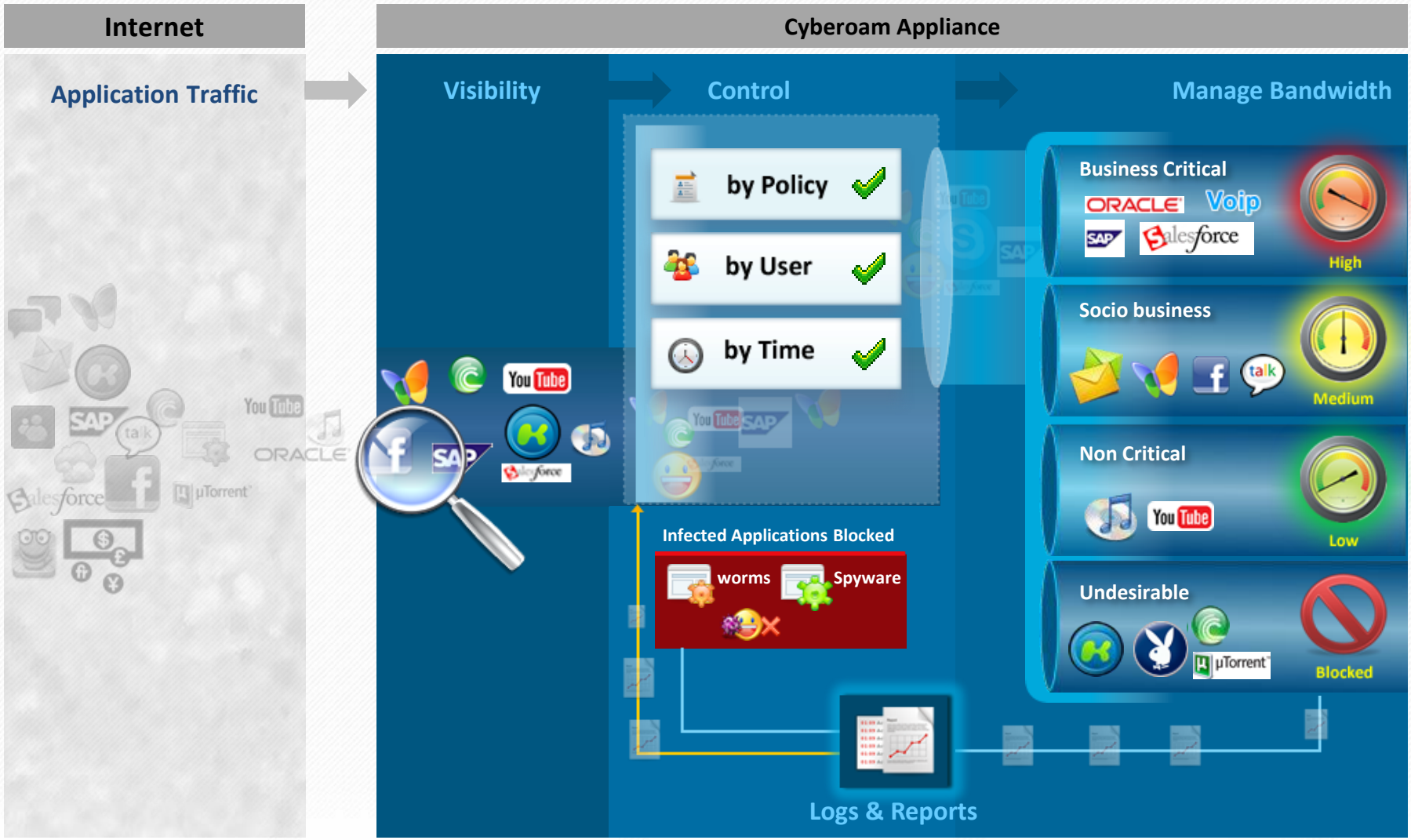
Control user network activities

- Who can connect to the network
- Who can access what
- What have they accessed

Ability to track the user activities; identify attackers /victims

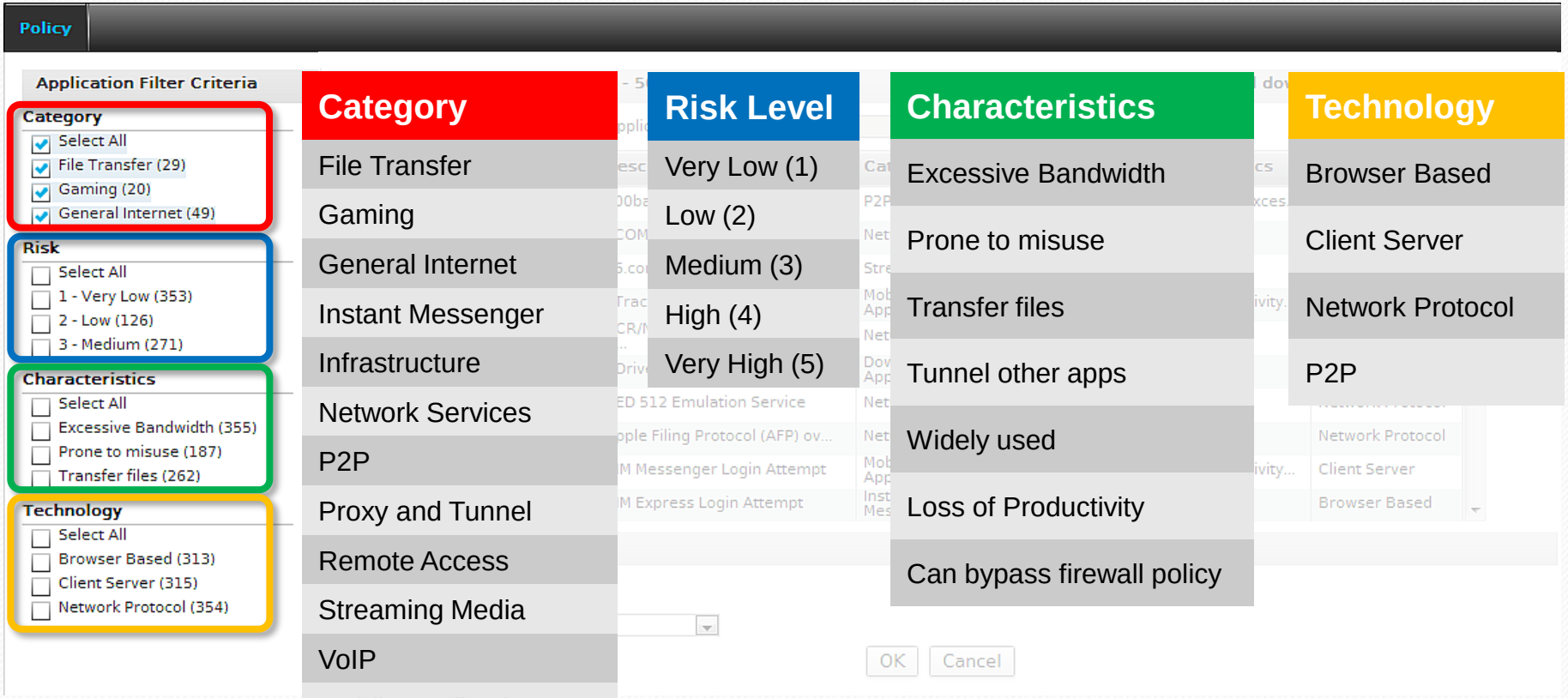
Take quick network security decisions

Prioritize applications with Layer 7 and Layer 8 controls



Controls over applications based on User Identity, Time, Application and Bandwidth

Granular classification of applications



Category
File Transfer
Gaming
General Internet
Instant Messenger
Infrastructure
Network Services
P2P
Proxy and Tunnel
Remote Access
Streaming Media
VoIP
Mobile Applications
Social Networking
Web Mail
And more…

Risk Level
Very Low (1)
Low (2)
Medium (3)
High (4)
Very High (5)

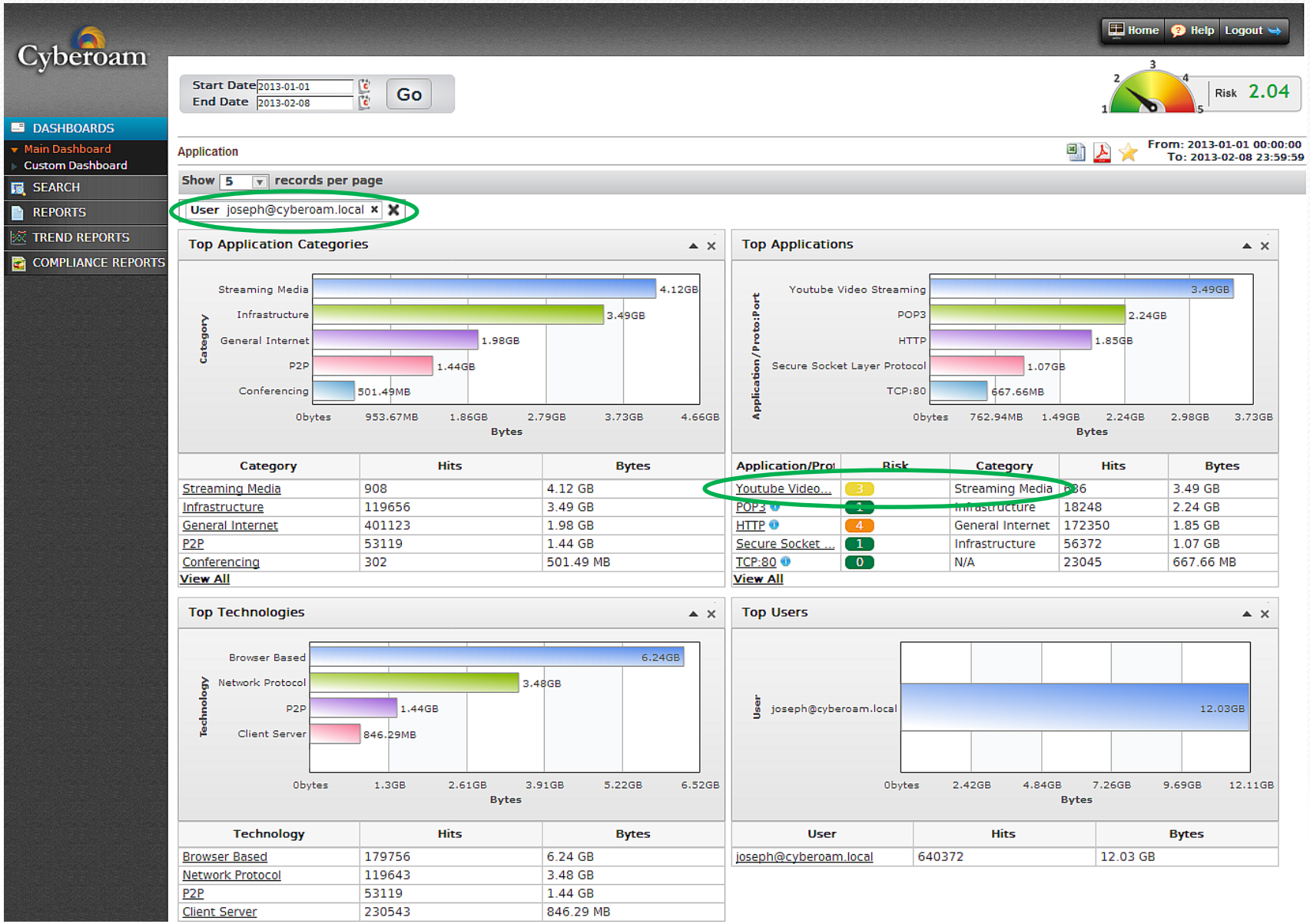
Characteristics
Excessive Bandwidth
Prone to misuse
Transfer files
Tunnel other apps
Widely used
Loss of Productivity
Can bypass firewall policy

Technology
Browser Based
Client Server
Network Protocol
P2P

On-appliance Logging & Reporting

- **Real time visibility into user and network activities**
- **Traffic Discovery**
  - Real-time visibility into bandwidth utilization by user, protocol, application

Layer-8 User-based Reports



Category	Hits	Bytes
Streaming Media	908	4.12 GB
Infrastructure	119656	3.49 GB
General Internet	401123	1.98 GB
P2P	53119	1.44 GB
Conferencing	302	501.49 MB

View All

Application/Pro	Risk	Category	Hits	Bytes
Youtube Video...	3	Streaming Media	6836	3.49 GB
POP3	1	Infrastructure	18248	2.24 GB
HTTP	4	General Internet	172350	1.85 GB
Secure Socket ...	1	Infrastructure	56372	1.07 GB
TCP:80	0	N/A	23045	667.66 MB

View All

Technology	Hits	Bytes
Browser Based	179756	6.24 GB
Network Protocol	119643	3.48 GB
P2P	53119	1.44 GB
Client Server	230543	846.29 MB

User	Hits	Bytes
joseph@cyberoam.local	640372	12.03 GB

Dual Dashboard – Traffic & Security Dashboard

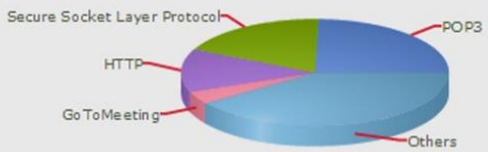
Traffic Dashboard

Traffic Dashboard | Security Dashboard

From: 2012-11-01 00:00:00
To: 2012-11-23 23:59:59

Show 5 records per page

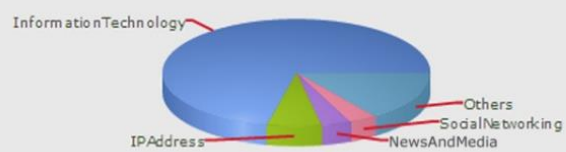
Top Applications



Application/Proto:Port	Bytes	Percent
POP3	17.8 GB	24.6 %
Secure Socket Layer Protocol	13.32 GB	18.41 %
HTTP	9.2 GB	12.71 %
GoToMeeting	2.81 GB	3.88 %
Others	29.23 GB	40.4 %

View All

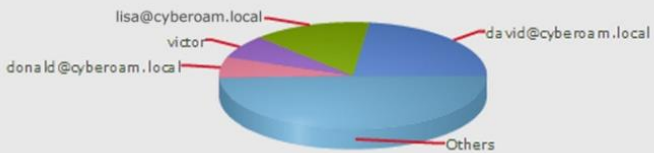
Top Categories



Category	Hits	Percent
InformationTechnology	1652646	71.39 %
IPAddress	154844	6.69 %
NewsAndMedia	83453	3.6 %
SocialNetworking	78151	3.38 %
Others	345957	14.94 %

View All

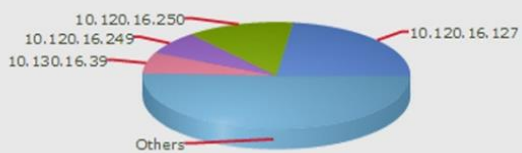
Top Users



User	Bytes	Percent
david@cyberoam.local	16.63 GB	22.98 %
lisa@cyberoam.local	10.5 GB	14.51 %
victor	5.07 GB	7.01 %
donald@cyberoam.local	4.42 GB	6.11 %
Others	35.74 GB	49.39 %

View All

Top Hosts



Host	Bytes	Percent
10.120.16.127	16.61 GB	22.96 %
10.120.16.250	9.55 GB	13.2 %
10.120.16.249	5.07 GB	7.01 %
10.130.16.39	4.43 GB	6.12 %
Others	36.69 GB	50.71 %

View All

Dual Dashboard – Traffic & Security Dashboard

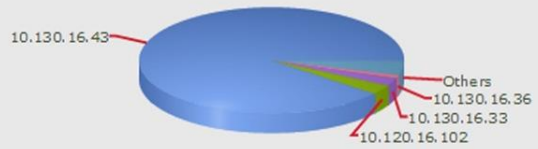
Security Dashboard

Traffic Dashboard | **Security Dashboard**

From: 2012-11-01 00:00:00
To: 2012-11-23 23:59:59

Show 5 records per page

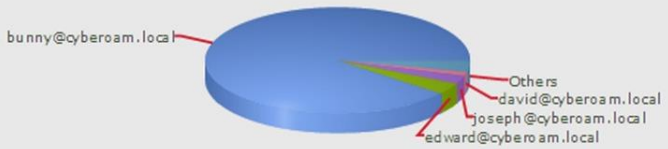
Top Denied Hosts



Host	Hits	Percent
10.130.16.43	118450	89.28 %
10.120.16.102	3835	2.89 %
10.130.16.33	3257	2.45 %
10.130.16.36	1242	0.94 %
Others	5889	4.44 %

View All

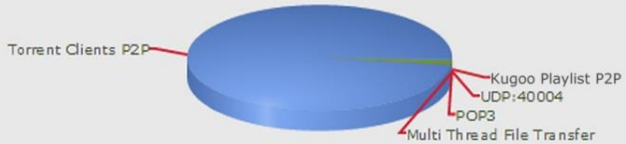
Top Denied Users



User	Hits	Percent
bunny@cyberoam.local	118538	89.35 %
edward@cyberoam.local	4650	3.5 %
joseph@cyberoam.local	3380	2.55 %
david@cyberoam.local	1460	1.1 %
Others	4645	3.5 %

View All

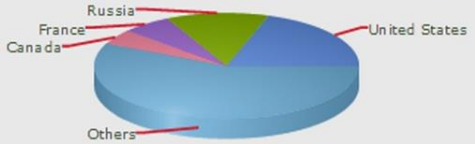
Top Denied Applications



Application/Proto:Port	Hits	Percent
Torrent Clients P2P	130085	98.05 %
Multi Thread File Transfer	1159	0.87 %
POP3	118	0.09 %
UDP:40004	110	0.08 %
Kugoo Playlist P2P	1201	0.91 %

View All

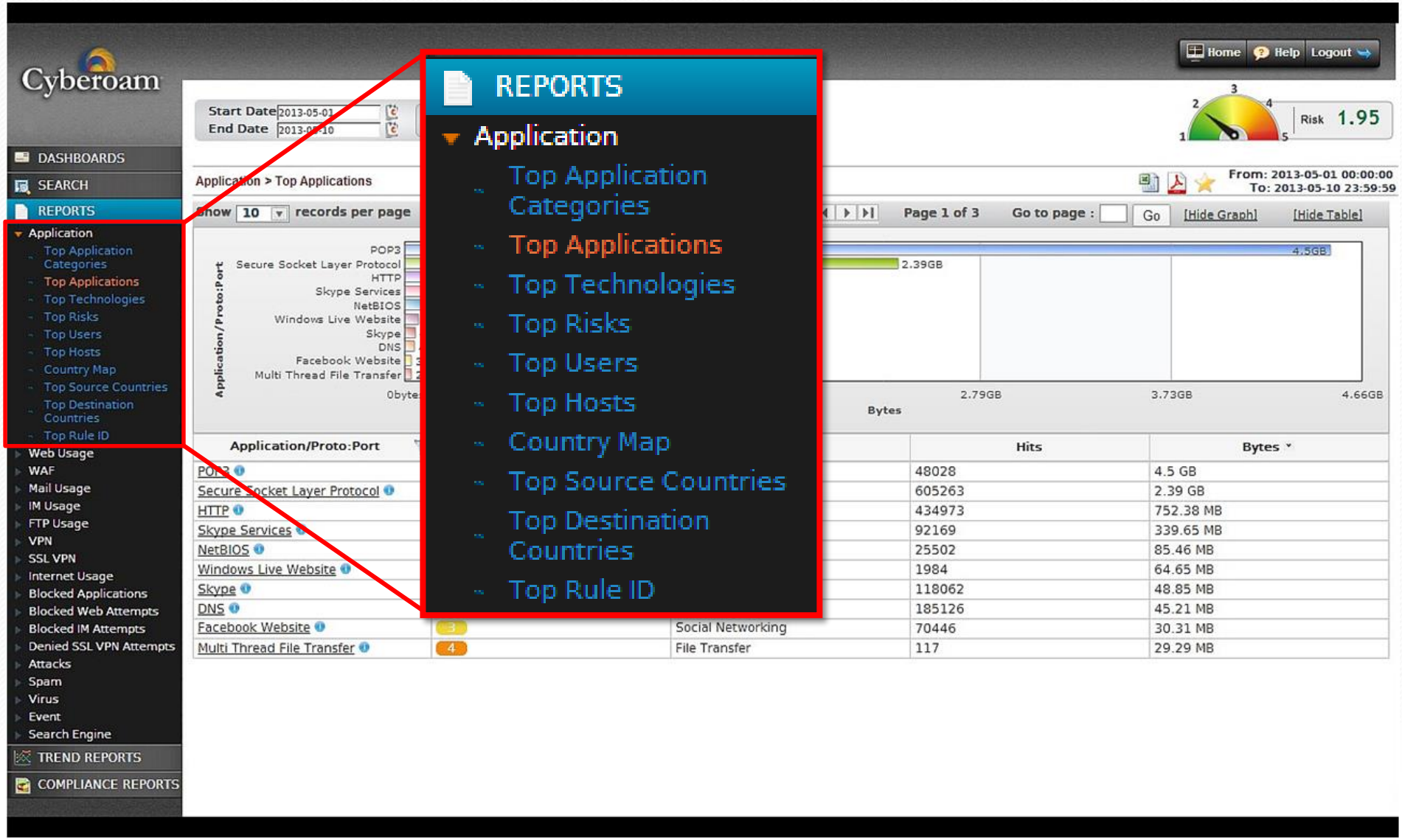
Top Denied Destination Countries



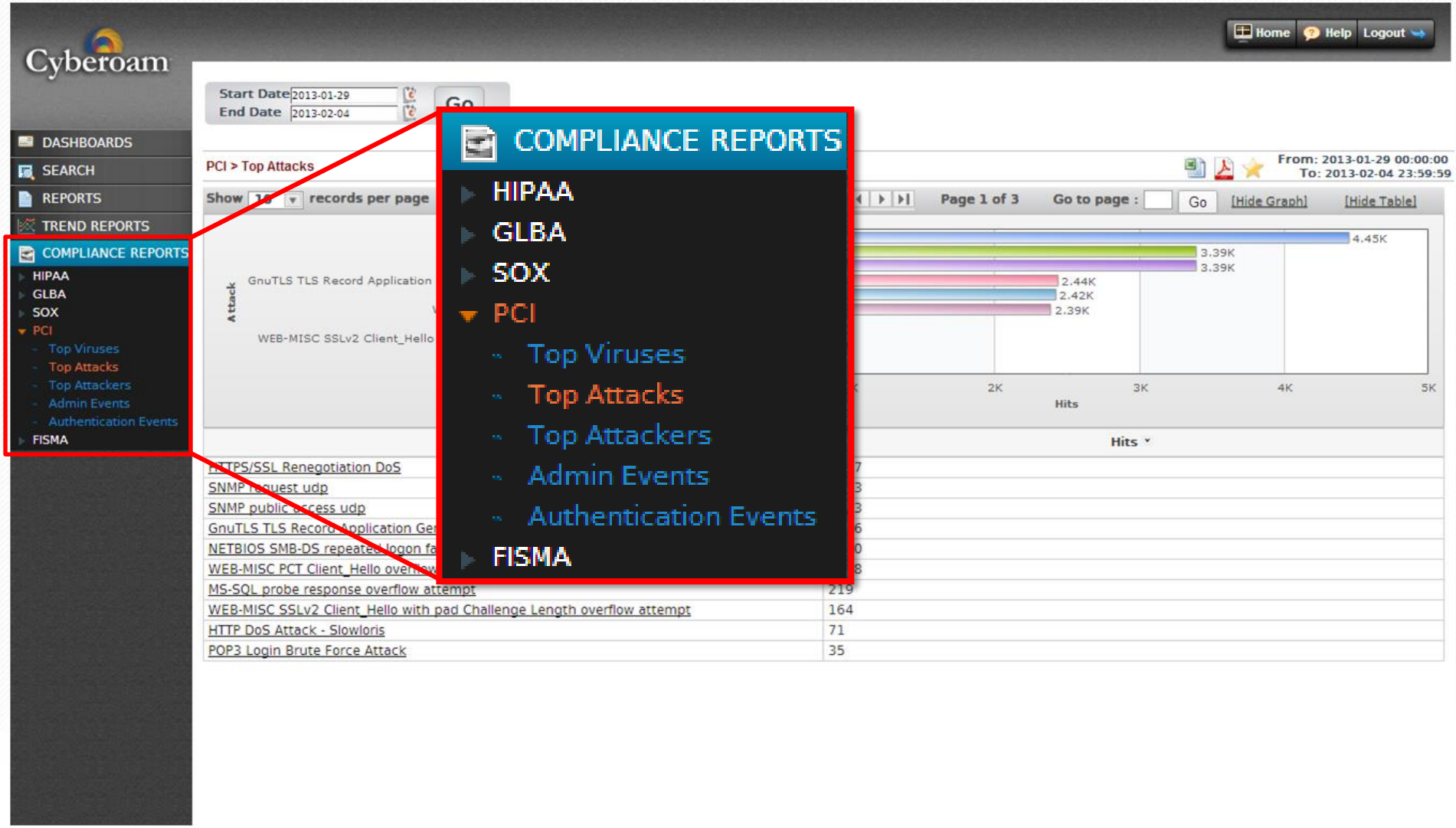
Country	Hits	Percent
United States	26162	19.72 %
Russia	17031	12.84 %
France	8088	6.1 %
Canada	6012	4.53 %
Others	75380	56.82 %

View All

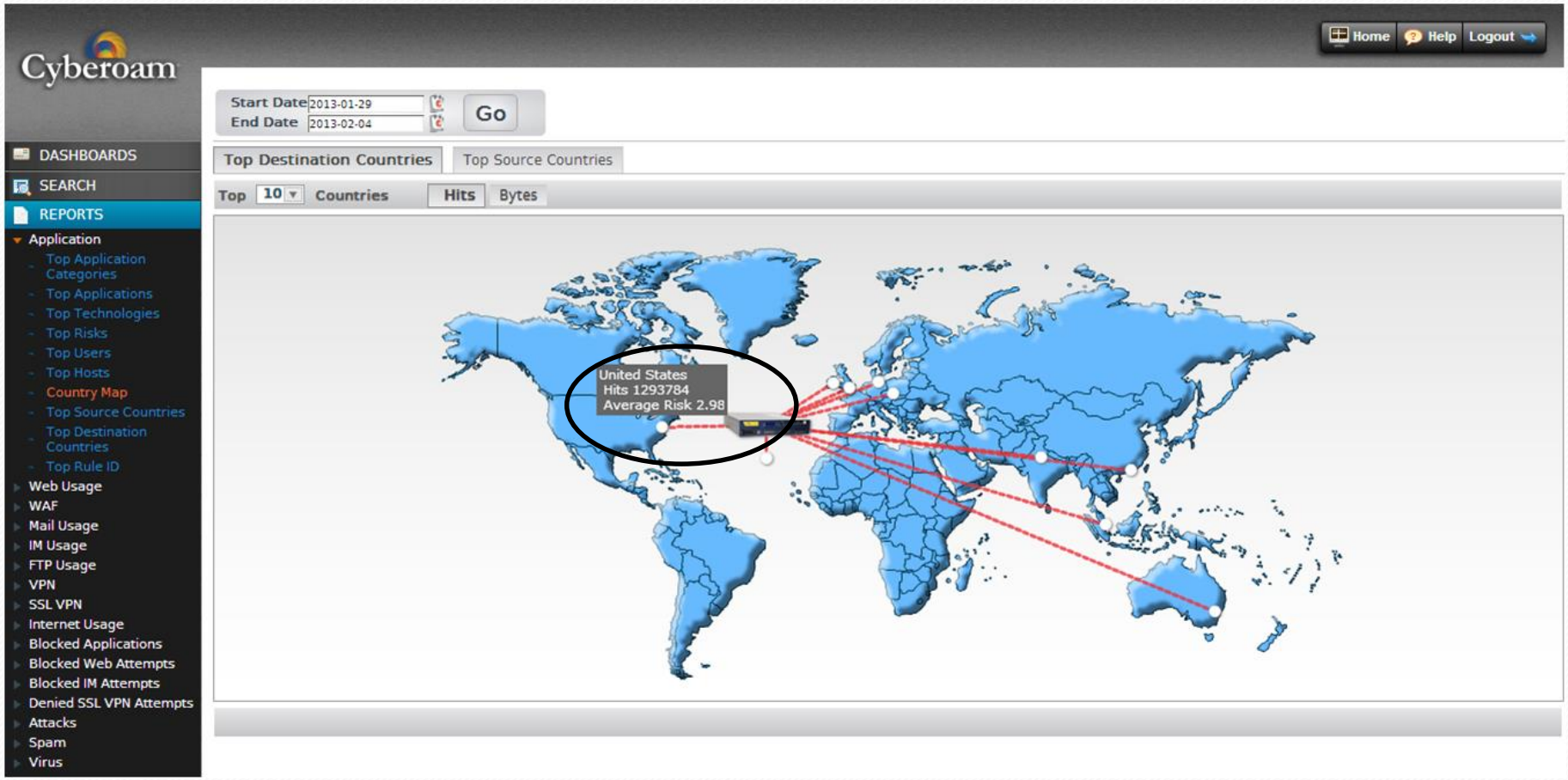
Application Reports



Compliance Reports

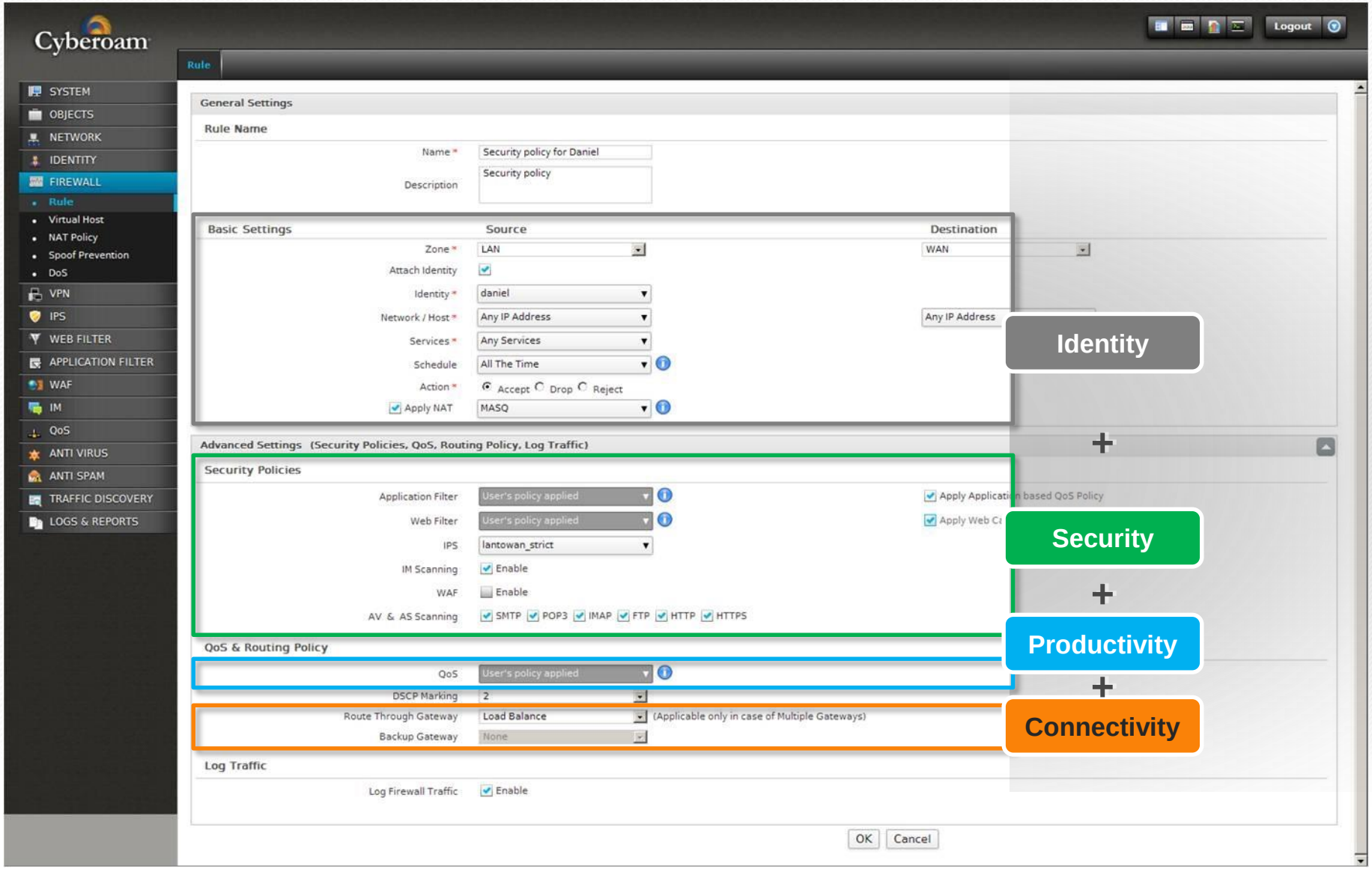


Interactive World Traffic Map



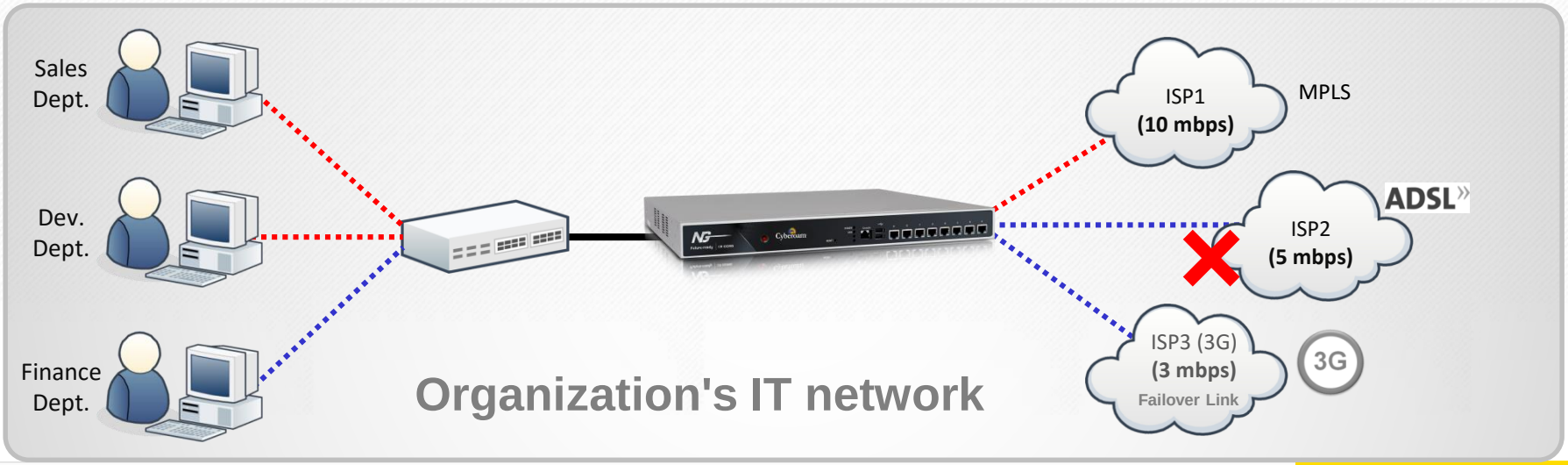
Interactive World Traffic Map for Source and Destination traffic

Configure rules for all features from Firewall page

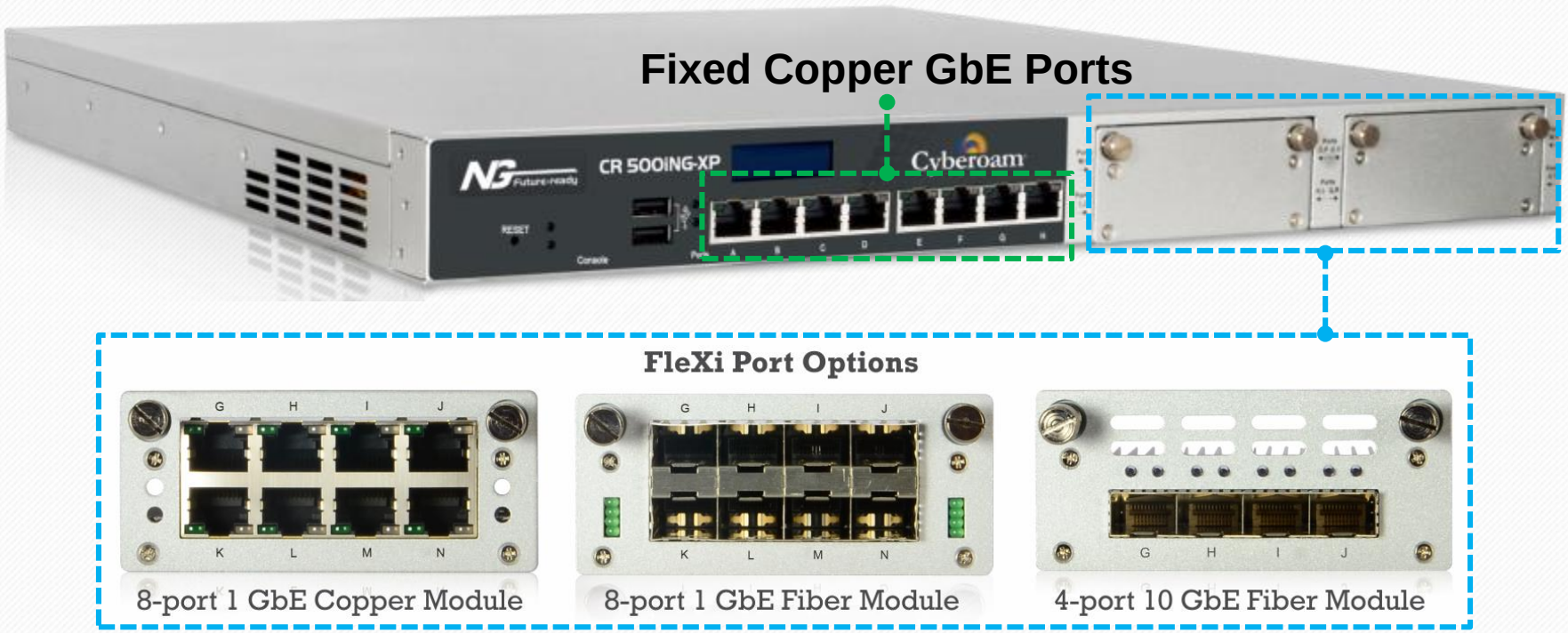


Business Continuity Features

- **High Availability**
  - Active-Active & Active-Passive
  - Reduces single-point-of-failure
  - Maximizes network uptime
  - Ensures continuous network security
- **Multiple Link Management with Automated Load Balancing**
  - Multiple WAN and WWAN (3G/4G, WiMax) link management with multiple failover conditions
    - Active-Active and Active-Passive Auto Link Failover
    - Gateway failover over VPN



FleXi Ports for flexible network connectivity



Combination of Fixed Ports and Flexible Ports

Flexibility to choose Copper, Fiber 1GbE / 10GbE modules

Modules can be purchased individually as per need

Holistic Security for Connected Critical Infrastructure

Integrated threat protection, situational awareness and security controls for Industrial Control Systems (ICS) including SCADA

Cyberoam Central Console (CCC)

- **CCC is for centralized, integrated management and monitoring of Cyberoam network security devices**
  - Offers complete control over distributed networks from head office (H.O.) or Security Operations Center (S.O.C.) of MSSPs
- **Available as**
  - Hardware CCC Appliances, Virtual CCC Appliances

Cyberoam features assure Security, Connectivity, Productivity

Organizations cannot afford to compromise on any of these.
The right SCP balance is essential!

Security

Network Security
- Firewall
- Intrusion Prevention System
- Web Application Firewall

Content Security
- Anti-Virus/Anti-Spyware
- Anti-Spam (Inbound/Outbound)##
- HTTPS/SSL Content Security

Administrative Security
- Next-Gen UI
- iView- Logging & Reporting

Connectivity

Business Continuity
- Multiple Link Management
- High Availability

Network Availability
- VPN
- 3G/4G/WiMAX Connectivity

Future-ready Connectivity
- "IPv6 Ready" Gold Logo
- FleXi Ports

Productivity

Employee Productivity
- Content Filtering
- Instant Messaging Archiving & Controls

IT Resource Optimization
- Bandwidth Management
- Traffic Discovery
- Application Visibility & Control

Administrator Productivity
- Next-Gen UI

Product Certifications

COMMON CRITERIA
CERTIFIED
EAL4+

Cyberoam achieves
Common Criteria
EAL4+ Certification

Checkmark

UTM Level 5:

Cyberoam holds a unique &
complete UTM certification

Firewall | VPN | Anti-Virus | Anti-Spyware

Premium: Anti-Spam | URL Filtering | IPS/IDP

ICSA labs CERTIFIED FIREWALL - CORPORATE

ICSA Certified Firewall

ICSA labs CERTIFIED www.ICSALabs.com Firewall - Corporate High Availability

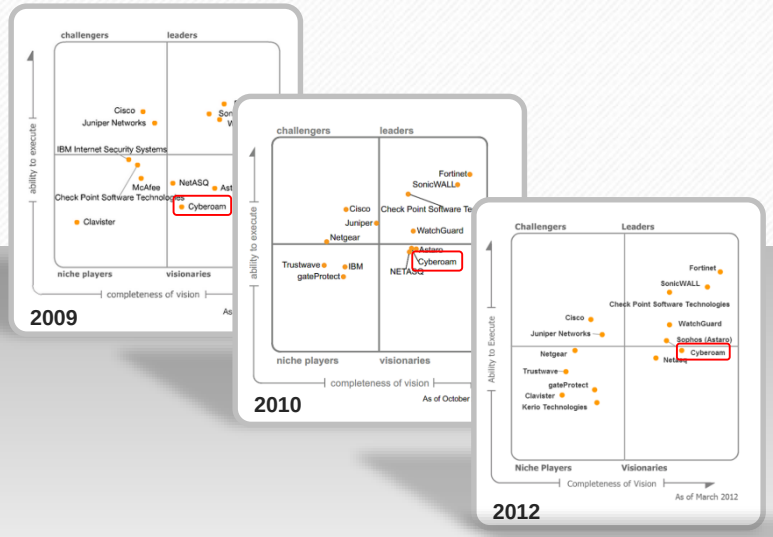
ICSA Certified
High-Availability

VPNC CERTIFIED
SSL Portal
SSL Exchange
SSL Firefox
SSL JavaScript
SSL Basic Network Extension
SSL Advanced Network Extension
Basic Interop
AES Interop

VPNC Certified for Basic
VPN & AES Interoperability

Recognized as ‘Visionary’ in the Gartner UTM MQ

2013
Magic Quadrant for Unified Threat Management



Clientele Worldwide

Cyberoam
A SOPHOS Company

BFSI

Manufacturing

Government

Education

Pharma & Healthcare

Telecom & ISP

Clientele Worldwide

Cyberoam
A SOPHOS Company

Hotels

Retail & Services

IT/BPO & Media

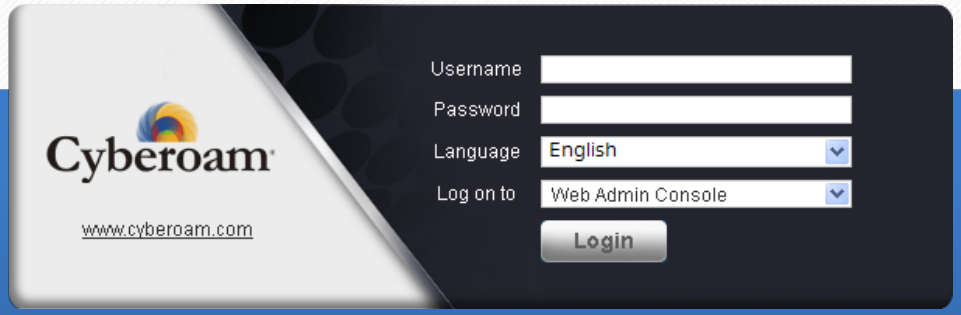
Others

Cyberoam Live Demo

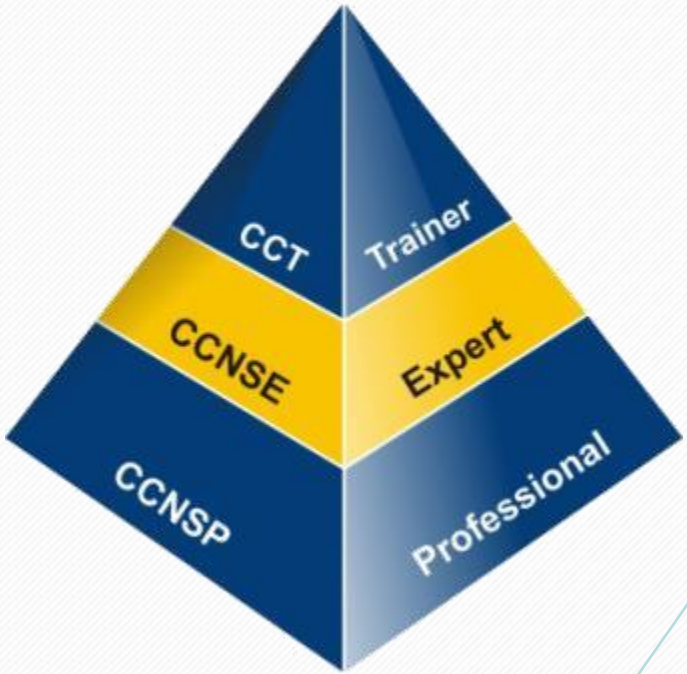
Link:
http://demo.cyberoam.com

Credentials:
guest /guest

Get a 30 day FREE Evaluation of Cyberoam Virtual appliance



Training & Certification



Cyberoam CCNSP
Cyberoam Certified Network & Security Professional

Cyberoam CCNSE
Cyberoam Certified Network & Security Expert

Cyberoam CCT
Cyberoam Certified Trainer

Developing competencies with
Cyberoam Next Generation security appliances

CYBEROAM CERTIFIED NETWORK & SECURITY PROFESSIONAL (CCNSP)

CYBEROAM CERTIFIED NETWORK & SECURITY EXPERT (CCNSE)

CYBEROAM CERTIFIED TRAINER (CCT)

PROTEKTNET