Unlocking the Power of the Cloud

TRANSFORM YOUR BUSINESS
With Smarter IT

Hybrid Networking | Managed Security | Cloud Communications
Software-defined solutions that adapt to the shape of your business
The Innovation Dilemma

IT teams spend **more than 80%** of their time maintaining existing infrastructure…

…and **less than 20%** of their time strategically innovating to transform their business
We Help Solve the Dilemma
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Advanced Managed Security

Hybrid Networking | Managed Security | Cloud Communications

Fully Managed software-defined solutions that adapt to the shape of your business
Customer Driven Innovative Solutions

Hybrid Networking

Customizable, high-performance global cloud networking with software-defined network control, fully managed 24/7.

Managed Security

Next-generation threat-management solutions, fully managed with continuous monitoring by security experts.

Cloud Communications

Feature-rich global unified communications solutions that are inherently resilient and infinitely scalable.
The Security Dilemma – The Case for Managed Security

Too Many Threats

- 62% increase in breaches in 2013
- 1 in 5 organizations have experienced an APT attack
- US $3 trillion total global impact of cybercrime
- 8 months is the average time an advanced threat goes unnoticed on victim's network
- 2.5 billion exposed records as a result of a data breach in the past 5 years

Too Few Professionals

- 62% of organizations have not increased security training in 2014
- 1 out of 3 security pros are not familiar with advanced persistent threats
- <2.4% graduating students hold computer science degrees
- 1 million unfilled security jobs worldwide
- 83% of enterprises currently lack the right skills and human resources to protect their IT assets

Source: McKinsey World Economic Forum
Early Detection Failed …
A turn-key 24 x 7 managed network security service solution.....

Monthly Fee-for-Service, all equipment included...

The value we deliver comes from 2 key areas:

UNIQUE TECHNOLOGY – PATENTED BEHAVIORAL ANALYSIS

NATURE OF CUSTOMER EXPERIENCE WE DELIVER – Y2015 MSSP NPS=86

......we are more than just “eyes-on-glass”

An effective “marriage” of Machine+Human Intelligence
We Work As An Extension of Your Security Team...

- Trained, industry-certified Security Analysts...leverage our 360º “threatscape” intelligence knowledge

- Early detection of sophisticated threats.....e.g. Proactive “Dark/Deep Web” Monitoring

- Actionable remediation information...detailed remediation assistance until vulnerability is mitigated..

- Customized incident response & SLA by customer...."co-management" relationship

- All tuning, updating and maintenance

- Custom security reporting

- SSAE 16-certified SOC II

Fully-integrated solutions for Cloud, Premise and Hybrid networks

- Comprehensive suite of managed security services:
  - Network Behavioral Analysis & Correlation
  - *Integrated* Vulnerability Management
  - Intrusion Detection & Prevention
  - Security Incident & Event Management
  - Managed Firewall Services

- System architecture enables peer-level sharing of information between security subsystems.... *threat* detection (i.e. us) vs. *event* detection (i.e. them)

- Augments/Complements existing security solutions
Hybrid Deployment Example

- Public Cloud Provider
  - Virtualized within public clouds
  - As a Service with Intelligent Internet Management
- Small & Remote Offices
- Internet
- Large Office
  - Virtualized in existing client VM cluster
- Internet
- Dedicated CPE on premise
- Data Center
- Enterprise Global Network
All-n-One Security Module Deployment

- Network Behavioral Analysis and Correlation (patented subsystem)
- Unified Administration, Monitoring and Reporting (SIEM)
- Intrusion Detection & Prevention (Adaptive)
- Vulnerability Scanner (unlimited IPs/unlimited scans)
- Log Management and Monitoring
- Integrated Ticketing System

Remote office locations connected to primary system

Non-intrusive deployment

10/100/1000 Mb/10GB

Internet

ASM-2520
-1U Appliance
-VMware OS

ASM-2500
-1U Appliance
-VMware OS

DPM-21XX

Core Switch

DMZ

10/100/1000 Mb
Behavioral Analysis: Masergy approach

We’ve all had that call from our credit card companies:

10/5/14 11:47am $15.00 Central Parking, LLC - NY

10/5/14 12:19pm $124.17 Whole Foods, Inc. – NY

10/5/14 3:47pm $327.59 Guitar Center, Inc. – CA

“... We’ve noticed some suspicious behavior ...”
Patented Adaptive Network Behavioral Analysis

- Early Detection, Prevention, and Remediation for Advanced Persistent Threats (APTs)
  - Best method to detect reconnaissance activity leading up to an attack, especially low level or slow activity and inside threats or abuse
  - Able to detect APTs and stealth activities attempted by rogue employees
- Continuously analyzes and correlates rolling 14-30 days of packet data, 6mo of alerts and 2yrs of behavioral profiles
- Exceeds traditional frequency, threshold, and net flow-based detection
- Multi-tiered correlation

Continuously adapting to each network
Identifying and analyzing abnormal network behaviors
Correlation and Analysis

- Captures and analyzes logs from firewalls, Host Intrusion Detection/Prevention agents, Windows events, syslog-producing devices, etc.

- Extensive policy-based rules processing capability

- Policy enforcement capable

- Supports automatic or on-demand blocking for market-leading firewalls and/or switches and routers to block harmful network traffic
## Comprehensive Professional Security Service Offerings

### Compliance Testing

<table>
<thead>
<tr>
<th>PCI DSS 3.1 Assessments</th>
<th>Regulatory Compliance Audits</th>
<th>Cloud Check Compliance</th>
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</thead>
<tbody>
<tr>
<td>- Certified PCI ASV</td>
<td>• ISO 27001</td>
<td>• Security assessments</td>
</tr>
<tr>
<td>- Quarterly PCI Scans</td>
<td>• SOX</td>
<td>• Periodic Audits</td>
</tr>
<tr>
<td>- Annual PCI Pen Test</td>
<td>• NCUA</td>
<td>• Web app assessments</td>
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<tr>
<td>- PCI Compliance GAP analysis &amp; progress tracking</td>
<td></td>
<td>• Vulnerability assessments</td>
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<td>capabilities.</td>
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### Penetration Testing

<table>
<thead>
<tr>
<th>Penetration Testing</th>
<th>Vulnerability Assessments</th>
<th>Web Application Assessments</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Simulation of skilled remote attacker</td>
<td>• Internal/External</td>
<td>• Penetration Testing</td>
</tr>
<tr>
<td>against critical assists</td>
<td>• Wireless Assessments</td>
<td>• Source Code Analysis</td>
</tr>
<tr>
<td>• Wireless Penetration Testing</td>
<td>• Mobile Computing Environments</td>
<td>• Static, dynamic, and manual testing</td>
</tr>
</tbody>
</table>

### Risk Management

<table>
<thead>
<tr>
<th>Database Security</th>
<th>Forensics Analysis</th>
<th>Enterprise Security Assessments (ESAP)</th>
<th>Device Configurations</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Databases Asset discovery</td>
<td>• Identification &amp; containment of compromised systems</td>
<td>• Comprehensive security audits &amp; GAP analysis mapped to compliance framework</td>
<td>• Firewalls</td>
</tr>
<tr>
<td>• Database Vulnerability Scanning</td>
<td>• Complete investigation report for executive &amp; tech teams</td>
<td>• Custom packages to address various security initiatives</td>
<td>• IDS/IPS</td>
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<tr>
<td></td>
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<td>• DNS Servers</td>
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<td></td>
<td></td>
<td></td>
<td>• Database Servers</td>
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<td></td>
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<td>• Wireless Infrastructure</td>
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</tbody>
</table>
Masergy’s Unified Enterprise Security Solution is:

- Better at *predicting* threats
- Better at *protecting* against threats
- Able to rapidly *discover threats*
- Equipped to deliver *expert* advice

*We leverage artificial intelligence + big data analytics To deliver the *best* network security available*
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(Thank You…)