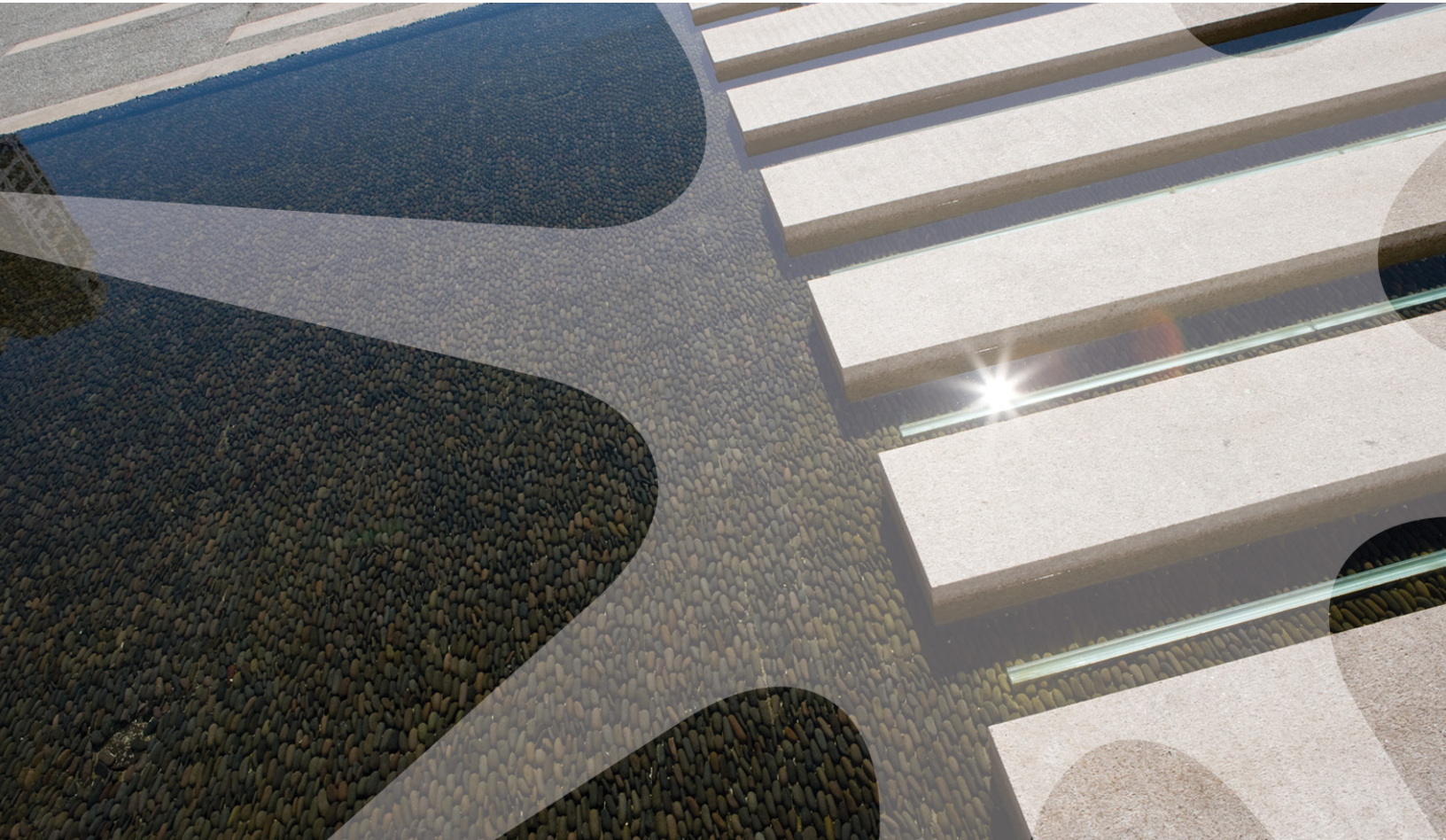




Savvis IT Infrastructure

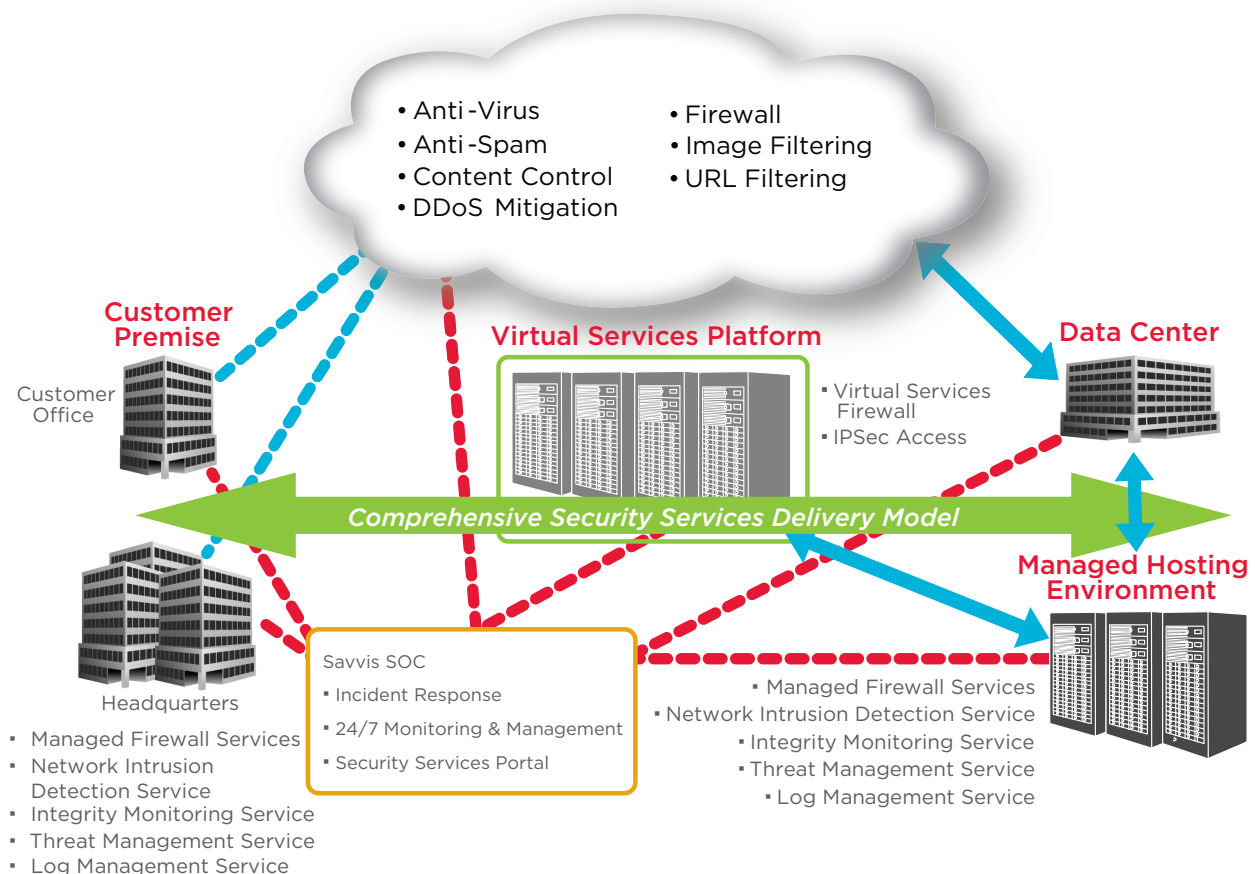


Savvis Security Services

Your Trusted Advisor for Managed Security

Data is the lifeblood of business today. Companies large and small rely on it to be confidential, accurate, and always available. Yet the constant — and growing — threats of viruses, worms, spyware, and denial-of-service attacks can corrupt, steal, or outright destroy critical corporate information. These attacks have become so widespread and complex that many IT organizations simply can't keep up with them. Small wonder that many enterprises are turning to Savvis, a service provider that can deliver security almost anywhere: at your site, at our data centers, within our virtual hosting platform, and over the Internet “in the cloud.”

Our comprehensive portfolio of services includes Managed Firewall Services, Intrusion Detection Services, Incident Response, E-Mail and Web Protection Services, and much, much more. When it comes to providing comprehensive, reliable, and cost-effective security services, Savvis is a trusted advisor that you can rely on to help protect your valuable organizational data and IT assets.



Savvis' Security Utility

Your Trusted Platform for Virtualized Managed Security Services

Security is a challenge for even the most technically sophisticated enterprises. Attracting and retaining a staff with up-to-date skills, identifying where your organization's systems and processes are the most vulnerable, and complying with the ever-increasing burden of industry security standards are just some of the challenges facing IT and business leaders today.

As a direct result of these developments, more and more organizations are finding outsourced managed security services an increasingly attractive option. In most cases, you don't have to purchase additional security hardware or software. Everything is installed and managed for you — either on your premises, or at the Managed Security Service Provider's (MSSP's) data center. And if you choose your MSSP wisely, you are provided with advanced, virtualized managed security services that can transparently and seamlessly integrate with your existing IT operations. This approach can reduce your Total Cost of Ownership (TCO) while improving the overall risk profile of your systems and data.

But not all MSSPs are created equal. The comprehensiveness, flexibility, scalability, and reliability of the solutions offered, as well as the proven experience and expertise of the MSSP itself, are key differentiating factors. In all these areas, Savvis excels. You don't have to patch together security solutions from different vendors — Savvis has it all. Our extensive menu of security services means you can design a customized and comprehensive solution that suits your particular needs, regardless of when or how it is implemented. Most importantly, Savvis is a trusted advisor that works with you to create and implement a security strategy that helps you achieve your long-term business goals, whatever those happen to be.

You don't have to patch together security solutions from different vendors — Savvis has it all.

Savvis' Security Services are:

Supported by experienced professionals.

The frequency and complexity of threats to your data and systems are growing. Although new security technologies and techniques that battle these threats are attempting to keep pace with new threats as they arise, it's essential that qualified individuals are available round-the-clock to manage this technology and take action when necessary. It's difficult to attract and retain top-notch security personnel who are up-to-date on existing security practices — much less knowledgeable and skilled enough to quickly absorb the new ones. Savvis takes care of this for you by hiring the best and the brightest security professionals in the industry, who stay abreast of the very latest methods and technologies for keeping your corporate data and systems safe.

Experienced. Because our customer base is so large and diverse — serving Small and Medium-Sized Businesses (SMBs) up to the largest global enterprises throughout a variety of industries — we have accumulated a wealth of expertise in security risks and solutions. We leverage that expertise to help your business by applying our knowledge to your specific issues and challenges.

Cost-effective. By taking a holistic view of security components, and by integrating security management into all IT operations, Savvis' Security Utility services are substantially less expensive than those delivered via a dedicated internally managed infrastructure. The scalability and reliability of our offerings allow for better capacity planning and predictable budgeting. And because Savvis by design offers centrally managed services, we perform automatic technology refreshes as IT threats change and security solutions evolve. This buffers you from the high cost of managing the rapid technology obsolescence that characterizes IT.

Flexible. Savvis offers dedicated security services at your site or ours. In addition to our acclaimed security utility service hosted in our data centers, Savvis manages and monitors thousands of security installations within our cloud and at customer sites worldwide. By combining advanced hardware, software, and reporting capabilities through a comprehensive portal with 24/7 management and a world-class incident response team, you get security done your way, not ours.

Savvis' scalable and reliable security offerings help you perform more accurate capacity planning and budgeting.

Focused. Savvis believes that over-spending on your security controls can actually result in diminishing returns with regard to your overall level of protection. Conversely, under-spending on security can leave significant organizational vulnerabilities open to exploitation by potential threats. With that in mind, Savvis works with you to provide security controls when and where they are needed, through its risk-based approach to security.

Comprehensive. With an entire suite of security products, from firewalls to anti-virus and anti-spyware protection to network-based security services. Savvis provides a one-stop shop for all of your security needs.

IT Infrastructure-Aware. Because Savvis is responsible for managing IT infrastructure for several thousand enterprises, our security team has a broad view of the impact that security controls have on the overall IT environment. This level of sensitivity and awareness of the up- and down-stream impact of security controls and incidents allows us to deliver security services in a highly efficient and transparent manner.



Managed Security Services

Savvis Log Management Service

Savvis' Log Management Service provides a robust log collection, alerting, reporting and archival solution that is designed to be an important component of your organization's risk management strategy, providing you with a valuable tool to help your organization address its applicable compliance requirements.

Historically, enterprise-class log management solutions have been extremely expensive and time-consuming to implement. However, Savvis' Log Management Service provides the functionality of an enterprise-class solution, without the significant upfront costs and implementation timelines. This allows your IT staff on focus on other priorities within your organization rather than on routine log management activities.

Specifically, the service benefits your organization by:

- Providing secure gathering, transmission and storage of log data, with 90 days of log data available online and 12 months of log data available in off-site archives
- Developing log source configuration guidelines for supported devices, for later use by your device administrator
- Offering a robust reporting interface that contains many standardized reports, with customized reporting available to meet your unique requirements
- Generating alerts based on standardized, pre-defined alert criteria, with up to twenty customized alert-rules also available.

Network-Based Firewall Service

Savvis' Network-Based Firewall Service (NBFS) leverages Cisco's® Multi-Service Blade (MSB) Firewall Module to provide true, Multiprotocol Label Switching (MPLS)-aware, "in-the-cloud" firewall protection to your organization through a flexible and efficient delivery model. Our deployment efficiency and anticipated timeframes can allow your organization to benefit from a lower TCO, especially when comparing Savvis' service to traditional premise-based deployment models. In addition, our service is provisioned with only the bandwidth that you require, characterized by convenient upgrades to bandwidth requirements, should your requirements increase as your organization grows. Firewall configuration changes are made directly in the cloud, rather than to premise-based equipment. Deploying this level of security intelligence in the network incorporates leading practices for security protection, without requiring you to deploy premises-based equipment.

Our service includes the following:

- Critical stateful packet inspection and anti-spoofing functionality
- Inter-Virtual Local Area Network (VLAN) and Internet firewall inspection
- Network Address Translation (NAT) and Port Address Translation (PAT) capabilities, which can help organizations like yours to protect their internal-network assets
- High-availability failover, which improves overall network efficiency

Our industry-leading incident response services can be purchased whether or not your equipment is installed in our data centers, or on your own premises.

Managed Firewall Service

Firewall needs and network and system topology are reviewed to develop and define firewall security policies.

- Firewall systems are configured, installed, and managed according to your requirements
- Range of platforms includes network-based firewalls as well as virtual firewalls

Incident Response

Initiated when your organization, a system alert or other indicator points to a possible compromise of your systems. This may be purchased whether or not equipment is installed in a Savvis data center, and regardless of equipment components and architecture.

E-Mail and Web Protection Services

Savvis offers the following types of cloud-based e-mail — and Web-security services:

- Anti-Spam – Identifies and controls spam-related e-mails
- Content Control – Maintains your organization's rule-based filtering strategy
- Anti-Virus – Scans all inbound and outbound e-mails for malicious payload before they reach the recipient
- Image Filtering – Utilizes advanced techniques to detect and stop e-mail containing pornographic images
- Web Security Services: Web Anti-Virus/Anti-Spyware, and URL Filtering
 - Protects users from malicious Web content and dangerous or offensive Internet sites

Integrated Firewall with NIDS

Both Firewall and Network Intrusion Detection Service (NIDS), in a single, unified delivery platform.

As with all of Savvis' Managed Firewall Services, the service includes:

- Firewall management
- Installation
- Round-the-clock monitoring
- Support of your organization's Cisco Adaptive Security Appliance (ASA) device

Simultaneously, the NIDS Service provides:

- Managed intrusion detection, with round-the-clock management, monitoring and response to computer security incidents
- Support for Cisco Advanced Inspection and Prevention (AIP) modules that are installed within Savvis-managed ASA devices

Intrusion Detection Services

- Promptly detect intrusions or security attacks, internally or externally
- Avert costly consequences of undetected intrusion incidents
- Reduce the potential impact of incidents on your business

Savvis is proud to be an active member of Cisco's Cisco Powered Network (CPN) program for Firewall and Intrusion Detection System (IDS) Services.

Savvis Threat Management Service

Savvis' Threat Management Service provides an advanced, correlated view of critical IT assets, their vulnerabilities and the threats that are actively attempting to exploit those vulnerabilities. The service also provides a risk profile of these IT assets and can thus be an important component of your company's overall risk management strategy.

Specifically, the Threat Management Service benefits your organization's risk management strategy by:

- Identifying attacks that pose the greatest threats to high-value assets, through real-time analysis and correlation of vulnerability and threat data
- Filtering out most insignificant attacks, resulting in fewer, more significant threats to address
- Leveraging a market-leading vulnerability scanning system for internal scanning
- Providing a robust portal, which provides a 24/7 view of the risk posture of your IT assets and access to detailed reports

Network-based DDoS Mitigation

Cloud-based service provides protection from large-scale attacks which compromise your organization's data, your customers' data, and your ability to conduct business. The DDoS filtering equipment, which relies on advanced detection and mitigation technologies, is located on Savvis' private Wide Area Network (WAN) backbone, which extends to more than 40 countries and serves a large portion of the world's Internet traffic.

- Re-routes potential DDoS attack traffic to "cleaning centers"
- Provides protection at the core-router level
- Reduces overall site downtime
- Reduces potential costs of bandwidth spikes caused by the attacks
- Eliminates purchase of additional equipment or software
- Reduces your organization's overall dedicated infrastructure costs, as the service makes use of a Savvis-provided infrastructure

A Growing Threat: DDoS

One of today's fastest growing and potentially crippling threats is a Distributed Denial-of-Service (DDoS) attack. In many cases a DDoS attack can be caused by zombie armies: hundreds or thousands of compromised computers that are controlled by a single perpetrator. During an attack, the perpetrator causes these infected computers to flood the victim's site with requests, rendering it incapable of functioning properly. Even the largest and best designed Web sites can be compromised.

Professional Security Services

Application Security Review

An assigned architect-level Application Engineer analyzes your current Web applications, and determines potential vulnerabilities.

- The engineer may perform a Web Application Vulnerability Scan, a Web Application Penetration Test, and/or an Application Security Code Review
- Potential flaws are identified that can cripple the security of dynamic Web sites, and result in costly downtime for your organization

Network Penetration Testing

Savvis tests for potential network penetration vulnerabilities, which can place sensitive company information at risk.

- Testing Service identifies key network vulnerabilities by mimicking a malicious intruder in a simulated network attack
- Carefully controlled testing prevents possible network outages and maintains the integrity of testing data
- A detailed remediation roadmap is provided, which summarizes identified network weaknesses

Risk Assessment Services

Risk Assessment is the foundation of any security program. Savvis' detailed evaluation of your information security posture is based on globally-recognized ISO 17799 standards, and industry leading practices.

- Gaps are identified in your company's security policies, procedures and systems across your facilities, networks, operating systems, data-bases and applications

- Administrative, technical, and physical security controls are assessed and our findings are documented, resulting in a cost-effective roadmap for mitigating identified risks and improving your overall security posture
- Our recommendations are customized to your company's specific goals and priorities, and are ranked based on potential effectiveness

Security Architecture & Design

Savvis' Security Architecture and Design professionals will develop an architecture that is better prepared to face potential internal and external threats. Using cost and level-of-effort guidelines that you pre-approve, Savvis creates a design that supports your business goals, while leveraging leading security practices.

Security Remediation Planning

Savvis' Security Consulting Teams will help you develop a plan to close the gaps in your security posture identified by a Risk Assessment, third party auditor, or your internal audit team. Our consultants have experience with PCI, HIPAA, SOX, ISO 17799, FISMA, FDA (21 CFR Parts 11, 210, and 211). Additional services include:

- Security Program and Policy Development
- Incident Response Planning
- Infrastructure Hardening
- Network Segmentation
- Identity Management Implementation
- Two-Factor Authentication Implementation

Savvis' Comprehensive Portfolio of Services

Savvis offers a secure computing and communications environment — from the computing core to the customer edge. Because we've built an advanced environment — a complete ecosystem — that is fully integrated, Savvis is able to provide security at every level — whether you are collaborating, creating, distributing, transacting, or simply communicating.

Network Services

- Tier 1 OC-192 Internet backbone
- MPLS-enabled Application Transport Service (ATS) network
- WAM!NET services that support the exchange of information with members of your community of interest network

Hosting Services

- Managed Hosting Services, including Savvis Cloud Compute
- Utility Backup, Storage, and Vaulting are available to support your organization's data management requirements
- Multiple data center locations in the United States, United Kingdom, and Asia-Pacific regions, allowing your organization to work with one global provider and establish redundant sites for business continuity and disaster recovery purposes

Savvis is an industry leader in providing secure, reliable, and scalable hosting, network and application services. Savvis' solutions enable customers to focus on their core businesses while Savvis oversees the quality of their IT infrastructures.

We relieve you of the burden of attracting and retaining skilled security professionals through a specialized security staff with experience across a broad range of companies and industries.

The Benefits of Choosing Savvis

As your trusted advisor, Savvis not only delivers this comprehensive portfolio of security services, we help you strategize and implement your ongoing and future security plans. We do this by incorporating a business-focused approach to protecting your systems and data into our technology services, and by working closely with you to understand your particular needs.

Among other benefits, Savvis' managed security services will:

- **Provide your organization with tools to help it meet its applicable compliance requirements.** Although compliance is the customer's responsibility, Savvis has a deep understanding of compliance issues and preferred approaches for managing security threats in both dedicated, and virtualized IT environments across a wide range of industries.
- **Scale to meet business growth.** As your business grows, Savvis can expand security coverage accordingly. This is possible due to Savvis' extensive network of data centers located around the globe, as well as its leadership in the use of virtualization technology.
- **Lower capital costs and make operational costs predictable.** Because Savvis takes care of all hardware, software, and management of your security services, you don't have to invest heavily in security capital. The infrastructure is included with the services that are provided to you. Additionally, your operational costs are predictable and easy to budget for.
- **Remedy gaps in your security team's skills.** You no longer need worry about finding and retaining skilled security workers. Savvis has specialized professionals on staff who are experienced in security practices across a broad range of companies and industries.

Together, we can map out a security strategy that works for you, and which protects your interests in both the short-term and the long-term. By providing and managing your security infrastructure — strategically and tactically — Savvis enables you to focus on your core business.



... Savvis can provide you with
the security protection that you need.

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