

# MASERGY'S UNIFIED ENTERPRISE SECURITY SOLUTION

An integrated approach to advanced  
persistent threat management

# AN INTEGRATED APPROACH

Masergy has developed a security solution that combines the best features from two approaches: The first is an integrated security architecture featuring adaptive predictive data sharing. The second is data tracking and data analysis of a network behavior analysis and correlation system.

The result of this unique combination is Masergy's Unified Enterprise Security (UES) solution. UES empowers organizations to protect their network security with Masergy's patented, leading-edge behavioral technology. UES also offers a single console, unified reporting, administrative tools and overall ease of use. For today's over-burdened and under-resourced IT staff, UES is a powerful and effective solution.

Masergy's Unified Enterprise Security solution also gives organizations an extensible platform for incorporating the latest security innovations. This includes big data mining of log data and machine learning.

Masergy's UES also includes cloud security technology that integrates with private, public and hybrid cloud environments, including Amazon EC2 and VMware. This capability fully integrates patented network behavior analysis and correlation technology with customers' cloud environments.

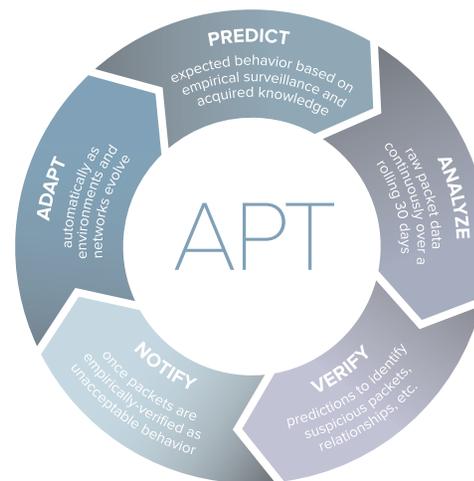
UES is cost-effective thanks to the solution's modular design. Rather than requiring an organization to rip-and-replace its existing network security infrastructure, UES instead overlays and complements that infrastructure. This also means IT departments can mix and match applications, and add or expand modules over time. This allows IT departments to obtain the most benefit from their current security investments.

By providing long-term context to threats, Masergy's UES solution can provide early warnings of threats and attack reconnaissance that other products simply can't see. It does so with an architecture that enables true subsystem integration. This, in turn, provides the power for intelligent and adaptive sharing and correlation of information on all detected threats, alerts and vulnerabilities among organizations' security systems and appliances.

However, organizations do not need to install all of these modules at once. Instead, they can add modules incrementally over time as business and network requirements change.

Regulatory compliance is made easy, too. Masergy takes a holistic approach to compliance with UES, ensuring that IT organizations efficiently achieve and maintain ongoing compliance within their vertical markets.

## ADVANCED PERSISTENT THREAT MANAGEMENT



Masergy's UES solution also features industry-proven application modules that can be deployed as part of a complete security infrastructure.

# MULTI-LAYERED SECURITY

At the heart of UES is a proprietary behavioral-correlation engine. Using machine learning and big data analytics, UES empowers security applications to leverage data from a wide range of sources. These can include raw packet information, detected vulnerabilities, signature-detection applications, posted vendor alerts, globally detected threats, logs from third-party security devices and network-access policy violations.

The UES solution's behavioral system also uses learned intelligence. So it can measure increasing hostility from progressive reconnaissance activity.

UES can also predict behaviors that may lead to data breaches then track any developing threats.

Human monitoring and management complete the offering. UES is fully managed and continuously monitored by Masergy's staff of certified security experts. On a 24x7 basis, Masergy provides continuous monitoring, vulnerability scanning, actionable remediation advice, custom signature development and deployment, firewall integration, comprehensive security reports and more.

Masergy's UES solution differs in several important ways from both security information management (SIM) and security information and event management (SIEM) implementations. While SIEM represents a noble attempt to integrate security appliances, these appliances were never intended to work together. Consequently, the SIEMs' approach is often complex, limited and expensive, making many SIEMs little more than log-management platforms.



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## COMPREHENSIVE ENTERPRISE SECURITY



# BEHAVIORAL ANALYSIS

By contrast, Masergy's UES is not an aggregation of log information from disparate security appliance logs and alerts but a complete threat management solution.

UES is a 100% passive security implementation that introduces no additional network latency and no single point of failure. It provides real-time monitoring of third-party security events and blocks malicious traffic via native integration with all firewalls, switches and routers. In practice, network traffic is mirrored to sensor devices, allowing easy installation without disruption to network activity.

We also provide external intrusion detection and prevention that identifies increasing external hostility from reconnaissance activities, external threats, and other malicious traffic. UES automatically aligns signatures with recently detected vulnerabilities. It also spots suspicious activity by employees, malware infections and security policy violations.

Our behavioral-based network access policy control detects and blocks violations in real time and shares information with relevant subsystems to secure critical assets without any additional hardware or host-agent software.

UES network resource violation monitoring triggers an alert when either an unrecognized IP address is detected or a known IP address attempts to access a device for the first time.

Our integrated vulnerability scanning and reporting automatically detects vulnerabilities in the network and on critical assets such as application servers and personal computers. Detected vulnerabilities are then shared with other subsystems for real-time event correlation.

Using sophisticated policy-based rules, UES detects anomalous events, security policy violations and changes to account privileges. UES also archives log data and reports—up to 8 TB of network attached storage capacity in compliance with regulatory requirements. All data is stored on the customer premise.

## INTEGRATED VULNERABILITY SCANNING



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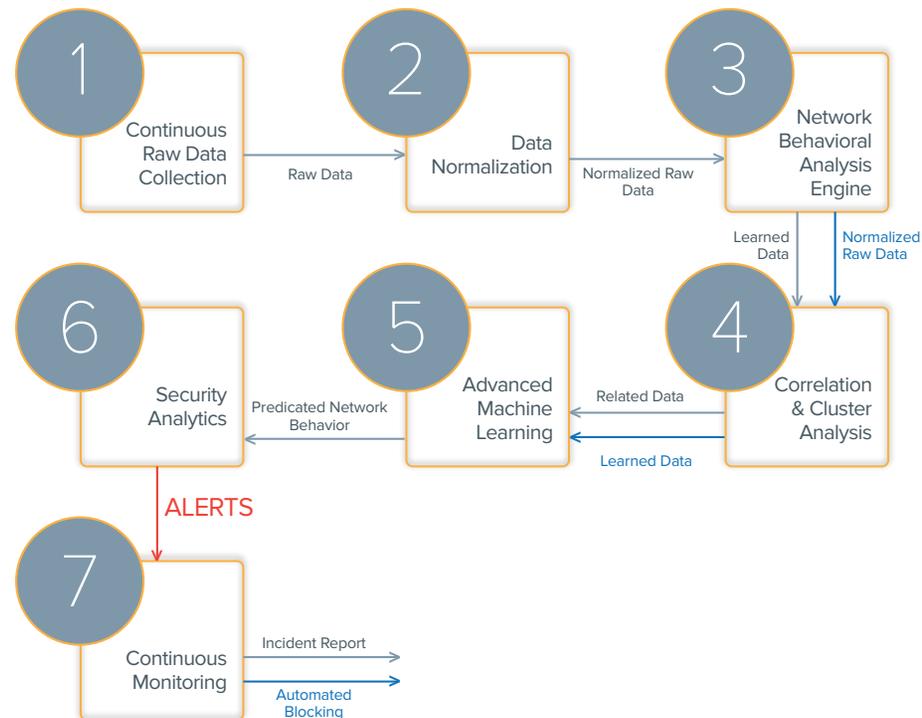
# HOW IT WORKS

Organizations that combine all of these features in conjunction with a defense-in-depth strategy add a security layer that holistically provides security oversight. This approach is economical and there's no need to uproot or disrupt the existing security infrastructure. No surprise, then, that this revolutionary approach is quickly becoming the standard for next-generation network security.

The last and most effective component to deploy is the Security Dashboard Module. It acts as a fully integrated threat management system, collecting, correlating and prioritizing network alerts and detected network vulnerabilities with enterprise assets.

This, in turn, helps organizations focus their IT resources on the most important remediation activities.

Masergy's UES solution is the answer to high-profile network breaches. It's also a solution to the high cost, complexity and uncertainty surrounding network security. With a unified, integrated and behavioral-based security architecture, UES is a modular and scalable solution that fits any organization's security needs. Masergy's UES solution is an advanced and effective approach to managing the growing list of threats that organizations around the globe are facing.



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# CONCLUSION

Masergy owns and operates the largest independent Software Defined Platform in the world, delivering hybrid networking, managed security and cloud communication solutions to global enterprises. Our patented technology, customizable solutions and unmatched customer experience are why a growing number of leading organizations rely on Masergy to deliver performance beyond expectations.



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Learn how Masergy's unified enterprise security solutions can make your business more secure.

Let Masergy custom design your next security solution.

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