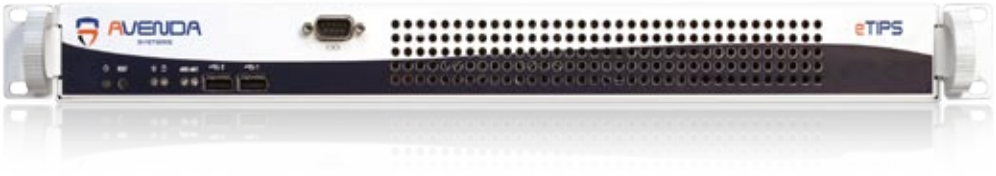
eTIPS®



Identity-based Network Access Platform
Secure User and Endpoint Control

Target Markets

Avenda's eTIPS platform is engineered to provide enterprise class network security, scalability and compliance administration for the most demanding requirements of financial institutions, government agencies, universities, healthcare organizations and global corporations of all sizes.

The growing need for organizations to offer broader employee, guest and partner network access has created greater and often undetected security risks than ever before. With this user freedom and mobility, the need to better protect against unintentional and possibly malicious data loss is a newfound requirement. Support for wireless, wired and VPN access methods for these same users has forced organizations to create silos of policy systems and authentication stores that may or may not interoperate with each other..

To prevent unauthorized access and theft of information and to curb malicious activities, organizations must authenticate and authorize all users and endpoints in order to control risk. In addition, government compliance initiatives are forcing organizations to proactively deploy improved user identity and reporting mechanisms.

Avenda Systems eTIPS policy platform addresses these issues by providing the only access control solution that centrally manages policies across access methods and frameworks, operating systems, managed and unmanaged endpoints, and existing identity stores. eTIPS value proposition is in the delivery of a single platform that includes built-in AAA, network access control and policy reporting components.

Key strengths:

- Easy to use administrator interface - industry leading 3-Click Help-desk navigation
- Web and 802.1X authentication and authorization methods
- Works with any network, identity store and endpoint

What We Do

Avenda provides a way to easily enforce identity and endpoint policies at any access point into the network. Differentiated access based on role can be granted for employees, partners, temporary workers, and guests to limit and control where on the network each group has access. Employees can be granted privileges based on their job or group while guests may only require Internet access.

Granular access privileges can also be granted based on type and health of endpoint, location, time-of-day and more. For example, an employee at a desktop may have access to more sensitive data than when connected to the network via smartphone over a public VPN.

To limit virus and malware attacks endpoint integrity or health checks can also be triggered to ensure that users are using required anti-virus, anti-spyware and firewall applications.

AVENDA SYSTEMS

What's Included

- Complete identity-based policy engine
- Native Microsoft NAP, NAC and health agent support
- Built-in AAA services - RADIUS and TACACS+
- Web and 802.1X authentication and authorization
- Reporting, analytics and troubleshooting tools
- Guest Access portal
- Interactive policy simulation and monitor mode utilities
- On-board vulnerability and port scan interfaces
- Deployment templates for any network, identity store and endpoint

Where We Fit

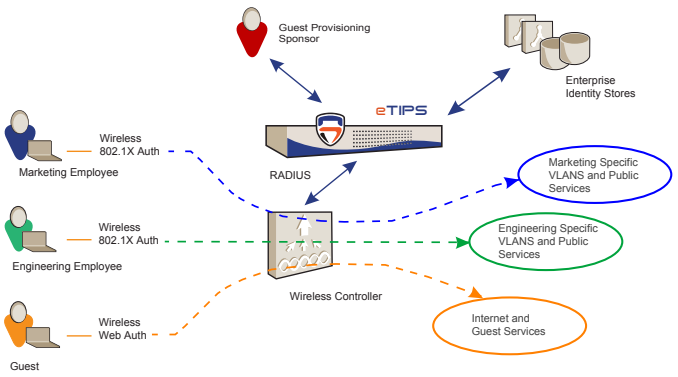


Illustration 1: Web authentication and 802.1X used in a mixed enterprise environment

eTIPS Advantage - Eliminating Complexity

For IT departments the ability to easily define roles and access control policies within eTIPS eliminates the need to build and update multiple policy systems, which strengthens an organization's overall security architecture.

By bundling all of the components needed to efficiently implement secure network access and authorization, control user and endpoint access, and protect the integrity of the network in a single platform. eTIPS then becomes a valuable security operations and trouble-shooting tool.

To further operational efficiency, regardless of how a network is constructed, eTIPS operates within any mixture of network and security infrastructure, operating systems, authentication types or identity stores.

Key Features

EXTENSIVE FRAMEWORK SUPPORT

Natively supports leading NAC & NAP frameworks to future-proof deployments. Extensible architecture makes it possible to support emerging frameworks, such as TNC, as they evolve.

OUT-OF-BAND PERFORMANCE

eTIPS sits outside the regular traffic path after authentication and authorization to minimize impact on network performance and scalability, unlike in-band and SNMP-based technologies.

EASE-OF-USE

Intuitive web-based management interface simplifies policy configuration and trouble-shooting. Additionally, policy simulation and monitoring ensure that newly configured policies are tested before deployment.

MICROSOFT NAP INTEGRATION

Enhanced Avenda NAP Agents provide more granular endpoint health evaluation.

TROUBLESHOOTING AND REPORTING

Interactive access tracker logs all access requests in real-time. Reports highlight user activity; authentications and failures.

DYNAMIC DEPLOYMENT OPTIONS

Assigns each user to appropriate resources using pre-determined services and authorization policies. Policy building blocks simplify adding security across all access methods.

RICH API'S

Rich set of configuration and authentication APIs allow for simplified third party integration.

ENTERPRISE-CLASS SCALABILITY

Fully replicated clustering for high availability and load balancing. All members of cluster can be centrally managed, with consolidated dashboard view of all session activity. Any changes are replicated throughout the cluster without need for a system restart.

AVENDA SYSTEMS

Leading Edge Policy Management

By consolidating user and endpoint authentication, authorization, access control, and monitoring behind a single policy management system. eTIPS reduces operational complexity and cost for any organization that has deployed a mixture of multi-vendor network and posture infrastructure and identity stores. Integration with existing infrastructure leverages well defined protocols, APIs and standards.

What we do:

Employee Access

eTIPS authenticates users and endpoints on wireless, wired and VPN networks using web or 802.1X. Multiple authentication protocols such as PEAP, EAP-FAST, EAP-TTLS, and more are supported. Data from multiple identity stores such as Microsoft Active Directory, LDAP compliant directory, ODBC compliant SQL database, Token Servers and internal databases can be used for fine grained policies..

Additionally, endpoint health checks and remediation can be added to policies at any time.

Guest/Partner Access

eTIPS Guest Portal provides the ability to create individual or batch guest user accounts to suuport visitors, contractors and any sized event. Receptionists/Office Administrators can be given permissions to add guest accounts in order to streamline requests.

Endpoint Health Checks

The ability to use Microsoft NAP or Avenda persistent and dissolvable agents, enable comprehensive posture assessment of Windows, Linux, and Mac OS X endpoints. This information is used to determine the integrity of the endpoint, status of anti-virus, anit-spyware and firewall, and appropriately grant network access to authorized users and endpoints. Remediation services with patch management are available for unauthorized users or non-compliant endpoints.

Unmanaged Endpoint Access

Unmanaged /non 802.1X devices (printers, IP phones, and other embedded devices) can be identified as known/unknown devices based on the presence of their MAC Address in an external repository or database. These devices can also be audited using built-in NMAP based network port scanning or NESSUS-based vulnerability scanning.

eTIPS Dashboard View

Illustration 2: Comprehensive and customizable views of successful and rejected requests, and cluster status

eTIPS Start Here View

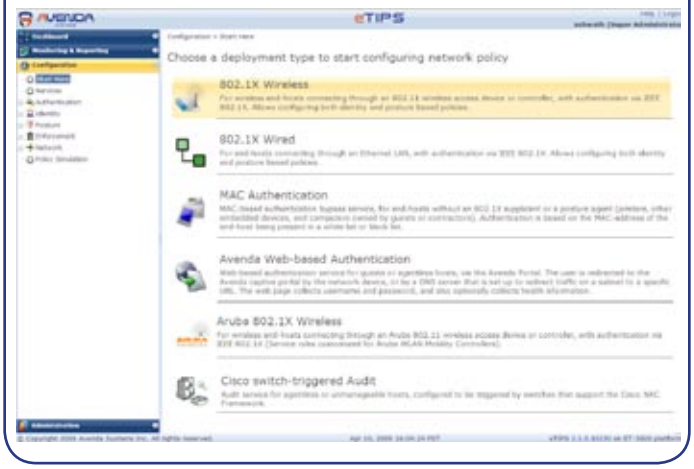


Illustration 3: Preconfigured templates for painless deployment

AVENDA SYSTEMS

eTIPS Platform Specifications

MODELS	• ET-5005, ET-5010, ET-5020, ET-5040
FRAMEWORK AND PROTOCOL SUPPORT	• Microsoft NAP, NAC • RADIUS, TACACS+, Web Authentication • EAP-FAST (EAP-MSCHAPv2, EAP-GTC, EAP-TLS) • PEAP (EAP-MSCHAPv2, EAP-GTC, EAP-TLS) • TTLS (EAP-MSCHAPv2, EAP-GTC, EAP- TLS, EAP-MD5, PAP, CHAP) • EAP-TLS • PAP, CHAP, MSCHAPv1 &2, EAP-MD5 • Wireless & Wired 802.1X • Windows Machine Authentication • MAC Auth (non 802.1X endpoints) • Audit (rules based on port and vulnerability scans)
IDENTITY STORES	• Microsoft Active Directory • Any LDAP compliant Directory • Any ODBC compliant SQL server • Token servers • Built-in Identity Store • Built-in Static Hosts List
RFC STANDARDS	• 2246, 2248, 2548, 2759, 2865, 2866, 2869, 2882, 3079, 3579, 3580, 3748, 4017, 4137, 4849, 4851, 5216, 5281
INTERNET DRAFTS	• Protected EAP (vers: 0 & 1), Microsoft CHAP Extensions, Dynamic Provisioning using EAP-FAST, TACACS+
HARDWARE COMPONENTS	• Intel multi-core, multi-processor platform • 250 to 500GB Disk • Universal Power w/PFC - (100 ~ 240 VAC; Auto Sensing) • Max power consumption – 270 W • 2 – Gigabit Ethernet ports, 1 – Serial port
MECHANICALS	• 1U rack-mountable chassis • 16.7”W x 1.7”H x 14”D • Weight - 18 Lbs
COMPLIANCE	• UL, FCC, CE, RoHS

AVENDA SYSTEMS

Avenda Systems, Inc.
3255 Scott Blvd., Bldg. 2, Suite 102
Santa Clara, California 95054
408.748.0902
info@avendasys.com
www.avendasys.com

Next Steps

Contact Avenda for further information about eTIPS and identity and access control, or partner solutions. For a technical eTIPS Techsheet, visit our resources webpage.