

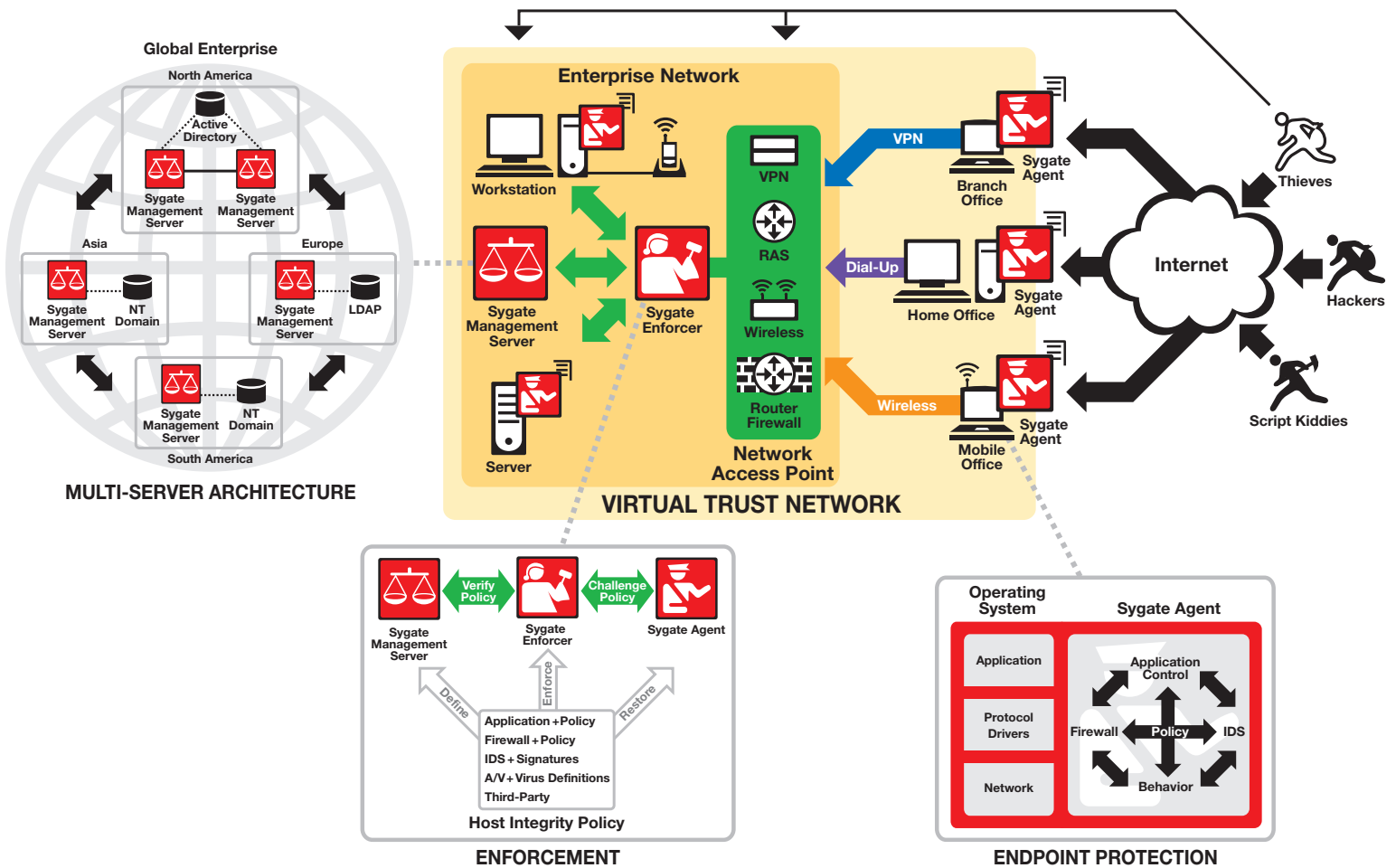
Sygate Secure Enterprise: Making Open Networks Trustworthy

The Open Network Problem

Since the introduction of the Internet, enterprise networks have evolved from a closed to an open environment. As it became clear that information technology—in the form of the Internet, wireless, remote connectivity, and network-enabled applications—would increase the productivity of workforces, streamline business processes, and open new markets, enterprises began to open their networks to the outside world. An unfortunate byproduct of this evolution to open networks was the fact that enterprise assets (including intellectual property, brand, computing resources, and sensitive data) are exposed to unprecedented risk, resulting in significant financial losses. Despite these consequences, networks remained open simply because the benefits of open networks were greater than the associated risks.

Benefits

- Secure enterprise networks against intrusion
- Enable the secure deployment of productivity-enhancing technologies, such as VPN, Wireless LAN, and collaboration applications
- Enforce the presence and effectiveness of security applications, such as anti-virus, firewalls, IDS, and other third-party security software when connected to the Virtual Trusted Network
- Gain visibility and control of network-enabled devices when they travel outside your network
- Achieve compliance with enterprise security policy and regulatory requirements



point in your organization, establishing a trust in the enterprise network. This trust enables enterprises to continue to deploy productivity-enhancing applications such as Internet connectivity, wireless LANs, remote access, and collaboration applications, while at the same time making their open networks trustworthy.

At the core of Sygate's ability to make open networks trustworthy is the concept of Host Integrity. The Sygate solution incorporates the unique ability to define, enforce, and restore the host integrity for the purpose of securing enterprise networks and valuable data. Defining host integrity involves creating a profile of security applications, data, and policies that must be in place for secure communication. Enforcing host integrity is accomplished by checking the integrity of each host system every time they connect to

the enterprise network, and allowing or denying access based on the integrity of the host. Restoring host integrity is accomplished through an access control methodology that allows users who connect to the enterprise network, but are denied access because of integrity loss, to restore their integrity by connecting to the anti-virus, host-based firewall, intrusion prevention and/or other third-party update servers. The Sygate Secure Enterprise suite bridges the enforcement gap that exists today in the enterprise, by ensuring that all devices that connect to the enterprise network are running the correct security application, with the policy and data that is mandated by information security organizations.

Building a Foundation

The challenge is to build a security architecture that allows enterprises to continue realizing the benefits of open networks, while protecting enterprise assets from loss and damage.

Sygate Secure Enterprise combines a sophisticated security agent that runs on each client, one or more policy management servers distributed across the enterprise, and enforcement servers at network access points. Sygate's is the first architecture to enable dynamic security policies that can be tied to individual users, following them as they change location (for example, home to office to hotel) or method of connection (from switched Ethernet to VPN over DSL to wireless LAN). Sygate countermeasures automatically adapt to the changing risks of each environment, ensuring business continuity and appropriate security policy in a distributed and mobile enterprise.

Supported Platforms

SYGATE MANAGEMENT SERVER

Operating Systems

Windows 2000 Server
Solaris 8 or greater

Web Servers

iPlanet Web Server
Internet Information Systems

Database

Oracle
Microsoft SQL

SYGATE SECURING AGENT

Operating System

All Microsoft Windows platforms

SYGATE ENFORCERS

Operating System

Windows 2000 platform

Enforcement Scope

Sygate Enforcers are vendor independent and will interoperate with any standards based networking technology including VPN, WLAN, and RAS.

Sygate Security Agents

Sygate Security Agents are installed on all network-enabled endpoints within an enterprise to provide host-based security, including an application-centric firewall and intrusion prevention engine. The security agent also gathers information for Sygate Management Server and Sygate Enforcers to automate the policy creation and enforcement process.

Sygate Management Server

Sygate Management Server learns communications behavior, creates and deploys security and enforcement policies, manages user and computer group structures, and communicates with other Sygate management and enforcement servers. Through Sygate Secure Enterprise's heart-beat communication protocol, Sygate Management Server learns user, application, and network behavior from Sygate Security Agents and Enforcers to provide enterprises with an up-to-the-minute view of their security posture. With the information that is learned by Sygate Management Server, enterprises can automatically create security policies that link users, connectivity technology, applications, and network communication to security policy. Sygate policies are managed and inherited through group structures of users, workstations, and servers that can be imported and synchronized with NT Domain, Active Directory, and/or LDAP. Sygate Management Servers can be centralized or distributed in a global enterprise to provide scalability, fault tolerance, load balancing, and policy replication.

Sygate Enforcers (VPN, Wireless, RAS)

Sygate Enforcers are network gateway devices that enforce host integrity at network access points to the enterprise network such as VPN, wireless access points, and RAS dial-up servers. Sygate Enforcers communicate with Sygate Management Server to obtain enforcement policy and agent authentication information. When a Sygate Security Agent connects to the enterprise, Sygate Enforcers initiate a challenge response session that determines the authenticity of the agent, the status of the firewall, intrusion prevention, anti-virus, other security applications, and the adherence of policy, signatures, and virus definitions to corporate policy.



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