**IBM**

# IBM SecureWay Boundary Server

## Highlights

**Provides perimeter security by policing who and what enters and leaves your network—and the data and applications that can be accessed**

**Helps protect your systems from harmful code passed through the network**
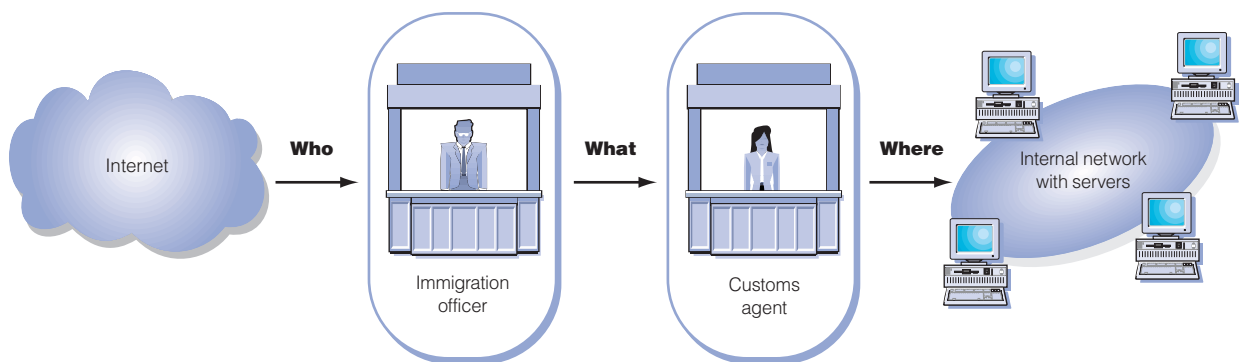
**Helps protect your company from the threat of malicious ActiveX controls or Java applets**

**Defends against the loss of trade secrets or confidential information with e-mail content screening**

**Enables quick deployment of a secure extranet when used with SecureWay Policy Director**

Today's virtual businesses need securely controlled boundaries between networks, system resources, information and people.

The proliferation of e-mail and Web browsers has revolutionized the way companies do business. But it has also led to the emergence of new threats hidden in e-mail and on the Web, such as viruses and malicious code with unauthorized access to data, potential breaches of confidential information, and deluges of junk mail or offensive material—all resulting in the potential loss of productivity.



Internet — Who → Immigration officer — What → Customs agent — Where → Internal network with servers

*Like international security, IBM SecureWay Boundary Server controls both who and what enters and leaves your network as well as the data and applications that can be accessed.*

**e**™
e-business

*Secure your network for e-business*

**Boundary security is the solution**

Secure boundaries are needed everywhere—between departments, such as engineering and human resources; headquarters and remote offices; your company's network and the Internet; your company's Web applications and customers; and your company's network or applications and business partners.

Boundary security not only protects your network, applications and information but also extends their reach. To understand how that reach can be expanded while still being protected, consider a country's security. The country has communications and visitors from outside of its boundaries but maintains effective security. Key to international security is not only *who* can enter the country but also *what* can enter the country and *where* they can go in that country. It's easy to see that proper boundary security for your network requires that you control three factors—who and what can enter or leave the network, as well as the data and applications that can be accessed.

**IBM SecureWay Boundary Server**

IBM SecureWay® Boundary Server brings together, for the first time, a complete boundary security solution to counter threats. SecureWay Boundary Server provides firewall protection, virtual private networking (VPN) and content security to check—based on your criteria—for inappropriate e-mail or Web content, or harmful code. Through integration with IBM SecureWay Policy Director, you gain centralized control of user authentication and access to Web objects, including HTML pages, graphics, Common Gateway Interface (CGI), and Java™ applications and database queries.

SecureWay Boundary Server brings together best-of-breed technology from experts in the security industry into an integrated solution backed by IBM support and services. When you purchase SecureWay Boundary Server, you get:

• IBM SecureWay Firewall

• RSA ACE/Server and SecurID tokens

• Content Technologies MIMEsweeper

• Finjan SurfinGate

• IBM Network Security Auditor

**IBM SecureWay Firewall**

IBM SecureWay Firewall enhances safe, secure e-business transactions by controlling communications to and from the Internet or between any two networks. This firewall technology was developed by IBM research and has protected IBM and other global corporations' assets for more than 10 years. Unlike other firewalls, SecureWay Firewall contains all three critical firewall architectures—expert filters, application proxy and circuit-level gateway—to provide a high level of security and flexibility.

To further distinguish SecureWay Firewall from other leading firewall products, the server on which SecureWay Firewall runs is *hardened* to remove potential security vulnerabilities of the underlying middleware and operating systems. The IP addresses and configuration of the internal network are hidden from the external, untrusted network. All traffic through the firewall can be logged, enabling you to generate user activity and audit reports. Since internal attacks are always a danger, a two-user license of the RSA ACE/Server and SecurID tokens are included with SecureWay Firewall so that only your administrator can modify SecureWay Boundary Server.

## Authentication is key to the Internet environment

SecureWay Boundary Server helps to provide a comprehensive solution for safe e-business by enabling you to authenticate individuals who enter and leave your network. With SecureWay Boundary Server, you get virtual private networking (VPN) support—and you can use SecureWay Policy Director to set policy for access to and from your network.

Reducing dependence on expensive leased lines can significantly reduce costs. VPN enables your communications to travel over the Internet while keeping them private and secure. VPN function offers data integrity, which reduces the risk that your data can be changed.

It provides authentication, which means that the sending node is correctly identified. And it gives you privacy, which means your data cannot be seen.

SecureWay Firewall can share user authentication with IBM SecureWay Policy Director through LDAP support. This support enables easier administration because it provides a common policy and allows users to be defined centrally.
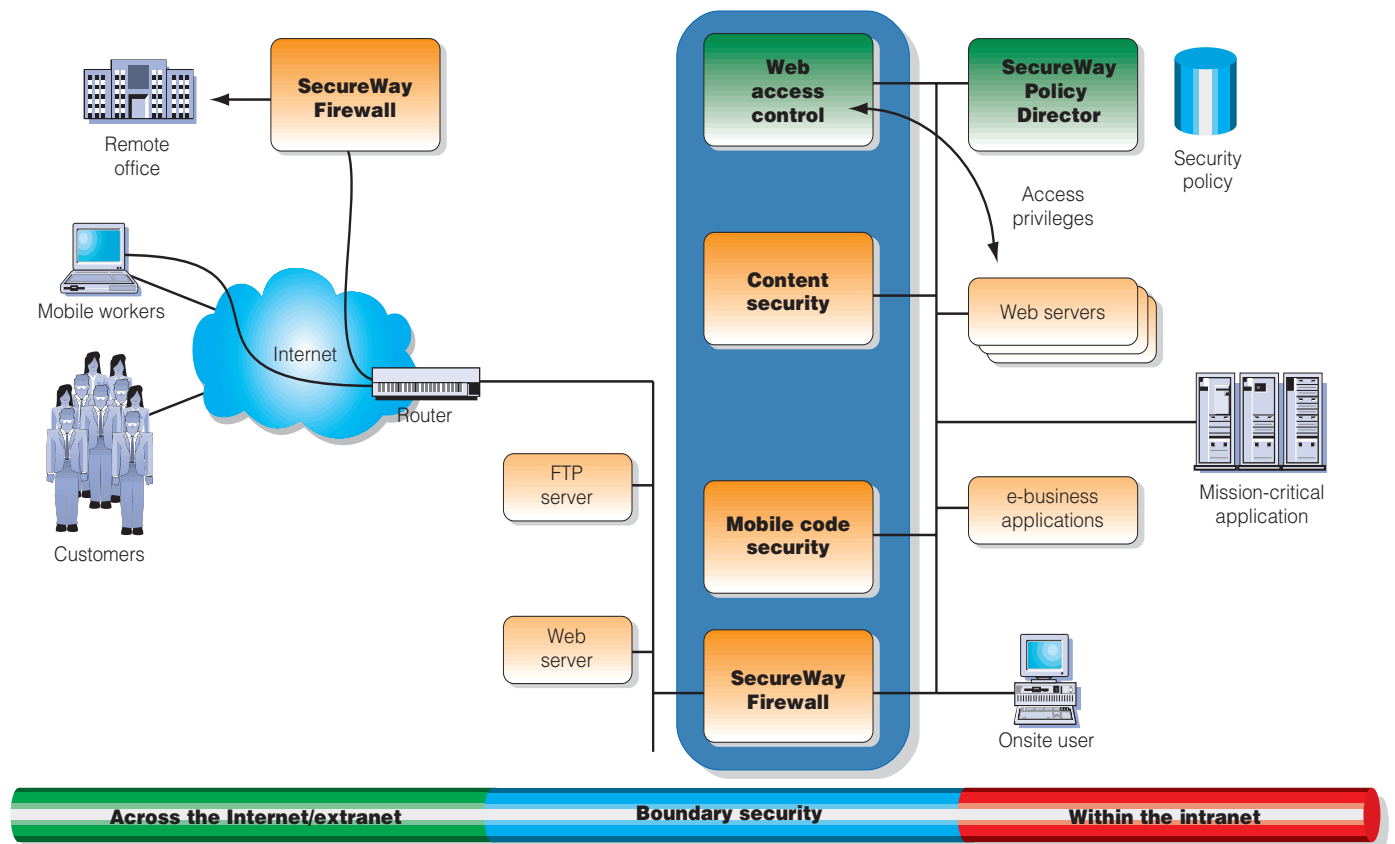
*IBM SecureWay Boundary Server brings together firewall protection, VPN, content security and extranet security to enable secure e-business across the Internet, intranets and extranets.*

## Comprehensive content security provides realtime protection

SecureWay Boundary Server provides comprehensive content security. The content-filtering technology checks data entering or leaving your network to provide realtime protection to combat viruses in e-mail, e-mail attachments, (including compressed, zipped and encoded files), Internet mobile code (including Java applets, ActiveX controls, JavaScript and Visual Basic Script), cookies and URLs.

*E-mail content security*
By scanning incoming and outgoing e-mail to detect and remove content security threats, the MIMEsweeper component automatically helps to:

- Identify viruses in incoming and outgoing e-mail

- Break down e-mail into raw data to detect viruses hidden in embedded objects and compressed files

- Scan e-mail for key words or phrases to prevent confidentiality breaches and to provide intelligent methods to thwart spoofing and unsolicited e-mail

- Stop unauthorized e-mail users and recipients

- Allow addition of legal disclaimers to outbound e-mail by user, group or domain

- Quarantine defined file types

- Delay e-mail based on defined file sizes

- Archive e-mail by key word, key phrase, user, group or domain

- Provide logging and graphical reporting about all e-mail traffic

*Protection against the latest harmful code threats*
The MIMEsweeper component works with antivirus scanners to verify that the disassembled component parts are free of known viruses. Norton AntiVirus™ by Symantec™, one of the world's leading antivirus software products, can be used with SecureWay Boundary Server and scheduled to automatically retrieve new antivirus definitions as often as once a week. This helps to ensure your network is always protected against the latest virus threats without network interruptions.

*Web content security*
The MIMEsweeper and SurfinGate components work together to protect against threats encountered when you access internal or external Web servers and help to:

- Eliminate viruses in Web transfers

- Protect users from inappropriate material by doing keyword searches, validating PICS ratings and blocking URLs

- Sanitize cookies

- Provide centralized control over Java, JavaScript, ActiveX and other mobile-code activity

- Protect against undetected mobile-code attacks that can transfer workstation data to external servers and can be totally invisible to the user

- Provide detailed logs and alerting of event activity

- Enable safe Internet, intranet and extranet surfing while taking full advantage of Java, JavaScript and ActiveX technologies

## SecureWay Boundary Server and Policy Director work together

SecureWay Boundary Server provides centralized, identity-based access control to Web applications. SecureWay Boundary Server, working with SecureWay Policy Director, provides one-time authentication capability with access to multiple Web resources from most popular Web browsers. This allows authenticated and authorized users to log-in independent of location.

SecureWay Boundary Server and SecureWay Policy Director, when deployed together, provide:

- An extranet security framework that enables quick deployment of e-business applications—security can be provided without having to make changes to existing applications or networks

- Application proxies capable of identity-based access control—down to Web objects, including HTML pages, graphics, CGI, Java applets and database queries—between users and applications

- Role-based, delegated administration of user access control to reduce and distribute the administration cost of an extranet

## Designed to complement your current firewall

SecureWay Boundary Server can be used to extend the boundary security capabilities of your current firewall with VPN and robust content security, or can be deployed as a firewall itself. You can deploy SecureWay Boundary Server as a turnkey solution to quickly and securely deploy a new e-business initiative while keeping your existing firewall in place.

## Open for trusted e-business with IBM SecureWay FirstSecure

IBM SecureWay FirstSecure enables companies to build and operate secure and trusted environments to conduct e-business. FirstSecure offers an integrated, policy-driven solution for your IT security needs, including digital identities, network boundary protection, detection

for viruses and intrusions, and tools for developing secure applications. SecureWay Boundary Server can be purchased separately or as part of IBM SecureWay FirstSecure.

## For more information

To learn more about IBM SecureWay Boundary Server, visit:
*www.ibm.com/software/security/ boundary*

To learn more about IBM SecureWay FirstSecure, visit:
*www.ibm.com/software/security/ firstsecure*

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