

IBM Secure Proxy

Advanced edge security for your multi-enterprise data exchanges

Highlights

- Enables trusted business-to-business transactions and data exchange
 - Protects your brand reputation by reducing data vulnerability risks
 - Supports new high-speed protocols and simplifies migration
 - Secures your network at the edge to protect from unauthorized access
 - Facilitates compliance with security policy and audits
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Cybersecurity has become a CEO top-of-mind concern across all industries and organizations as exchange of information across organizational boundaries is expanding rapidly. Companies all over the world rely on IBM managed file transfer (MFT) offerings to drive their mission-critical business processes. Data security, access management, and perimeter security are key considerations when moving data inside and outside of the organization. IBM Secure Proxy allows you to safely exchange data with partners, suppliers, and customers across the internet.

Secure Proxy is a DMZ-based application software proxy enabling secure and high-speed data movement over the internet. It provides increased perimeter security to protect the enterprise's trusted zone, as well as authentication services to prevent unauthorized access to your business-critical internal systems. It integrates with your existing security infrastructure to meet security and audit requirements while also supporting compliance regulations and incorporating industry standards and best practices.

Secure your network at the edge

Secure Proxy utilizes a defense-in-depth strategy to provide advanced edge security. DMZ-based authentication, SSL session breaks, and SSL termination at the edge preventing direct access to your trusted systems, across a wide range of file transfer communications protocols regardless of file type or payload size. It also provides advanced protection by proactively blocking malicious users attempting to access your trusted systems. Configuration is managed in the trusted zone and no data is stored to physical drives in the DMZ, so your vital business files are secured from unauthorized parties.

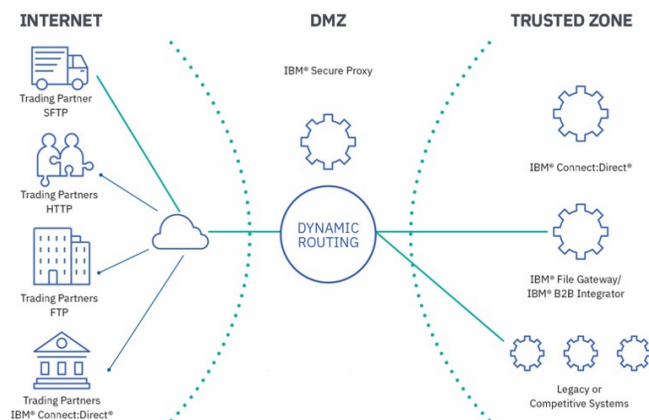
Enable trusted transactions

Secure Proxy secures and shields your trusted network by preventing direct connectivity between external partners and your critical internal servers. Partner connections for B2B transactions and MFT file exchanges are intercepted at the edge and following authorization are transparently redirected to trusted connections within your enterprise.

Enable speed and transparency

Secure Proxy offers a bridging capability for a high-speed protocol to the mainframe to support the IBM Connect:Direct High-Speed add-on option (HSAO). HSAO enables speedy and efficient transfers of large files over long distances.

Migrations from other gateway solutions can be difficult especially if your customer or partner has to make changes. Using dynamic routing capability, you can ease migration from 3rd party solutions to IBM while minimizing impact to your customers and partners. This also brings in transparency to your migration projects.



Dynamic routing allows internal system migrations to be performed transparent from external trading partners

Governance and compliance

Multiple levels of governance enable compliance with your enterprise security policies. Comprehensive logging of security and configuration changes support routine reporting as well as detailed audits. Queued events enable monitoring and alerting on the operational health of the proxy engines and adapters, and for configuration changes via IBM Control Center. A fully

integrated interface to external ID stores eliminates the need for duplicate stores and local accounts, providing a single source for user and partner credentials. Interfaces to HSMs support the use of these devices for key storage.

Operational management

Multiple Secure Proxy engines may be deployed in the DMZ for traffic separation, load balancing, and capacity management. A Configuration Manager console is provided for creation and management of all proxy configuration objects and for managing the proxy engine(s) in the DMZ. Administration is simplified through the ability to load a single configuration set onto multiple proxy engines. In addition, a full set of RESTful API's supports full automation of all configuration objects, starting and stopping the engine, and the import and export of configuration settings. Configuration is always performed inside the trusted zone to ensure the protection of configuration and management activities.

IBM Secure Proxy Specifications

Capability	Description
Application proxy	<ul style="list-style-type: none"> • Resides in the demilitarized zone (DMZ) • Supports IBM Connect:Direct High Speed Add On, IBM Connect:Direct, IBM B2B Integrator, IBM File Gateway, and IBM Connect:Express • Compatible with layered- or multiple-DMZ environments • Supports HSAO-FASP, FTP, FTPS, SCP, HTTP, HTTPS, AS2, SSH/SFTP, PeSIT and Connect:Direct protocols • Certified to run on most popular platforms including Linux, AIX, and Windows • Integrates with existing directory services, such as LDAP, Active Directory, and Tivoli • Supports high speed add-on bridging • Supports Dynamic Routing • Includes a FIPS 140-2 compliant data encryption module with the option to force strict FIPS mode communications
Firewall navigation best practices	<ul style="list-style-type: none"> • Minimizes rich targets in the DMZ by ensuring that files, user credentials and data are never stored on physical drives in the DMZ • Removes requirement for inbound holes in the firewall • Establishes sessions from more-trusted to less-trusted zones • Enforces internal and external security policies
Perimeter security	<ul style="list-style-type: none"> • Prevents direct communications between external and internal sessions by establishing secure session breaks in the DMZ using SSL or TLS encryption • Inspects protocol and sensitive control information and supports configurable error handling when violations are detected • Session limits and data encryption guard against denial-of-service attacks
Authentication services	<ul style="list-style-type: none"> • Customizable login portal provides self-service password management for external users • Supports single sign-on and integration with existing access management infrastructure, • Multi-factor authentication enforces tight controls and validation of trading partner identity in the DMZ before internal sessions are established to the trusted zone • Authentication options include IP address, user ID and password, digital certificates, SSH Keys, and RSA SecureID
Clustering	<ul style="list-style-type: none"> • Manage multiple engines configuration via a single configuration manager facilitating easy administration and painless scalability • Multiple deployments options available including high-availability and load-balanced clusters ensuring business continuity and easy scalability for optimal performance • Segregated Configuration Manager allows configuration of all Secure Proxy engines from one central console facilitating easy administration and painless scalability

Why IBM?

IBM Secure Proxy helps secure and shield your trusted network by preventing direct connectivity between external partners and internal servers. It can secure your network and data exchanges at the network edge to enable trusted business-to-business transactions and MFT file exchanges. As a DMZ-based proxy, Secure Proxy uses multi-factor authentication, SSL session breaks, closing of inbound firewall holes, protocol inspection and other controls to ensure the security of your trusted zone.

Data protection - provides firewall navigation best practices to help ensure perimeter security for enhanced protection of your data and trusted zone.

Full authentication services - offers multi-factor authentication before connection to backend systems, for tighter controls and validation. Supports SAML 2.0 based external authentication systems.

Advanced proxy features - includes proxy support and functions to improve security of edge-based file exchanges.

Dynamic routing - provides advanced routing to simplify infrastructure changes, saving time and reducing risk during migrations.

For more information

To learn more about IBM Secure Proxy, please contact your IBM representative or IBM Business Partner, or visit:

<http://ibm.biz/secure-proxy>

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