



SSL VPN Mobile Office

**Secure access
to all applications
from a web browser**

7M GateKeeper is an SSL VPN solution that gives external users simple and secure access to all their applications and business critical information from a web browser.

With 7M GateKeeper, existing investments in IT are utilized more efficiently through increased availability and reach.

Organizations are increasingly providing access to their internal IT systems for external users, whether they are working from home, while travelling or at a customer site. At the same time, companies want to integrate customers, partners, suppliers and remote offices into their business processes and related IT systems. The key issue is how this can be done securely and yet at a reasonable cost.

The traditional approach has been the use of so-called IPsec VPN (Virtual Private Network). Recently, however, alternative solutions based on the Internet protocol SSL (Secure Sockets Layer) have emerged, providing the same capabilities at a lower total cost and with less complexity.

With an SSL VPN, external users can get secure remote access to selected applications and data on an internal network from a web browser. No software or configuration is needed on the client. 7M GateKeeper enables users to access all relevant workplace applications from a browser regardless of their location or Internet connection.

Reduced costs

With 7M GateKeeper, internal IT systems are made more available at a lower cost.

- ▶ Simple and "clientless" access for external users increases efficiency
- ▶ Minimizes the complexity of installing software and configuring security on the client machines
- ▶ Reduces user support and help desk costs
- ▶ Simplifies installation, configuration and ongoing administration
- ▶ Allows for the use of Microsoft Terminal Server as a lower cost alternative for accessing Windows applications from the web
- ▶ Reduces the complexity of network administration such as Network Address Translation (NAT), firewall tunnelling, etc.
- ▶ Opens for the use of simpler and cheaper firewalls that do not require IPsec VPN support

- ▶ Allows the IT department to configure an optimal security solution based on risk assessments and available budgets
- ▶ Reduces the need for dedicated hardware and software for mobile users such as laptops, personal firewalls, etc.

The total cost is not only based on direct VPN investments, but also on the requirements to back-end systems as well as ongoing user support and administration.

In addition, 7M GateKeeper will significantly reduce the costs of adding new external users, since the client side security is automatically taken care of. The IT department does not have to spend time and efforts on ensuring that each client is configured to block unwanted guests from entering the internal network.

Advantages of 7M GateKeeper

▶ High security

All network traffic is authenticated and authorized, and clients are allowed access only to explicitly published services. Only the secure 7M GateKeeper server is open to the outside world; the internal network topology is not exposed. The risk of introducing "Trojan horses" into the internal network is eliminated. The company can easily control individual access rights in order to maintain internal security policies.

▶ Simple to use

The user only needs a browser and an Internet connection. Any computer can be used and there is no need for configuring firewall access. In addition, 7M GateKeeper includes Single Sign-On functionality to simplify access and reduce support costs.

▶ Easy to install

7M GateKeeper only requires a server that is accessible from external networks. The software is rapidly installed and configured against existing user directories. Authorized users can then immediately access internal applications from anywhere.

▶ Simple administration

With role based access control, the IT administrator can easily configure who shall have access to the different applications. Configuration of networks and firewalls is simplified, and new users can be added in seconds with their appropriate access rights.

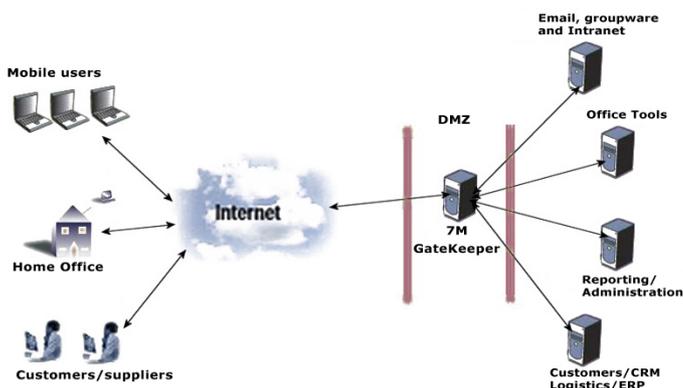
▶ Robust and scalable

7M GateKeeper has been thoroughly tested and certified by IBM. Clustering support enables the system to handle a large number of concurrent users with high demands for availability. The solution can also be integrated with standard SSL hardware acceleration to further boost scalability.



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How it works

7M GateKeeper addresses the core issues for secure access to sensitive business systems from the Internet:

► Strong authentication

7M GateKeeper supports several different security levels, from regular passwords to two-factor authentication systems such as RSA SecurID and PKI (smart cards and digital certificates). The organization can easily configure rules that require different security levels depending on the user's location. 7M GateKeeper connects to existing user directories, such as Microsoft Active Directory or LDAP.

► Secures the transport layer

When the user has been authenticated, the browser will automatically establish a secure connection to the 7M GateKeeper server. This connection is encrypted with 128-bit SSL/TLS through a single firewall port. All external-to-internal network traffic is handled by this "SSL Proxy" server, thus eliminating all open channels into the internal network.

► Access control

7M GateKeeper ensures that all network traffic originates from an authenticated client. Furthermore, it checks that the specific user has access to the application resource in question. Authorization is easily managed through a role based administration tool. This means that no users can have access to unauthorized resources. Rather than admitting users into the internal network, the administrator determines exactly what applications and resources shall be accessible from the outside, and by whom. This enables the secure and selective publishing of services to external users such as customers, suppliers and partners.

► Platform independent

7M GateKeeper supports all types of applications and TCP/IP based protocols, from Web to Windows and mainframes. This enables the secure remote access to internal Intranets, Microsoft 2000/NT Terminal Servers, Microsoft XP Professional workstations, Citrix MetaFrame, AS/400, UNIX servers and mainframes.

► Secures the client

Traditional VPN solutions often leave the clients vulnerable to so-called Trojans that can gain access to the internal network. 7M GateKeeper eliminates this problem, since the client only is allowed to use application protocols (HTTP, RDP, ICA, etc.) against an SSL Proxy server. This server verifies that the network traffic comes from an internal application and prevents unauthorized services from "piggybacking" onto the network connection.

► Accessible

To access internal application remotely, a web browser and an Internet connection are needed. 7M GateKeeper supports all versions of Internet Explorer 5.0 and higher. Even if the user is located behind an external firewall, the solution requires no additional configuration since all traffic is routed through SSL. A user can therefore access selected applications and resources even from a customer or partner site.

► Documents security policies

With 7M GateKeeper, the organization can also document their security policies for external users. All access is logged and reported, enabling an administrator to easily verify who accessed the network at any time and what applications were in use.

► Single sign-on

Users often need access to multiple applications with different password and logon procedures. This complicates access and increases support costs. With 7M GateKeeper, the user is also given the opportunity to automatically log on to all applications after being securely authenticated by the GateKeeper server. This is achieved with no modifications to existing applications. Single sign-on information is administered by each user and securely encrypted and stored on the server.



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