



Opensource SSL-VPN SSL-Explorer

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präsentiert

Digicom

Classic VPN versus SSL VPN

- **Unterschiede:**
- **Client-Art (VPN-Client / Web-Browser)**
Auswirkung auf Deployment-Handling
Auswirkung auf einsetzbare Clients
(Home-PCs, Hotel-PCs, MAC u.ä.)
- **Zugriff-Modi (transparent, applikatorisch)**
Zugriffs-Risiken (Viren etc), mögliche Zugriffe
Auswirkung auf Breite des Deployments
- **Aktualisierung / Updates**
Auswirkung auf Unterhalts-Kosten

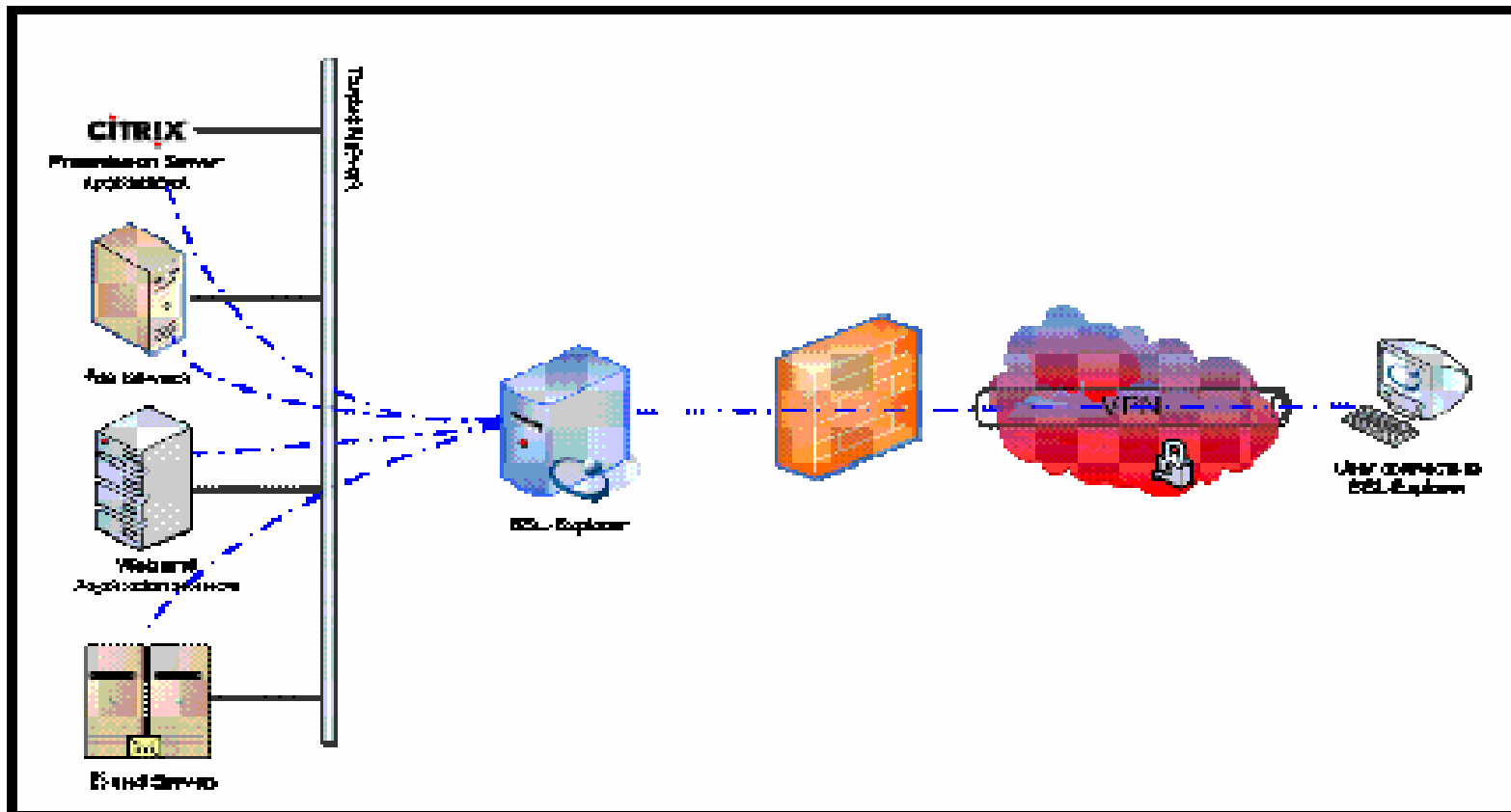
SSL Explorer

- Führende OpenSource SSL-VPN-Lösung
- Hergestellt von 3SP
- 2 Versionen:
- **Community Edition**
OpenSource, kostenlos, kommerzieller Support möglich
- **Enterprise Edition**
- kaufpflichtig, mit erweiterten Funktionen

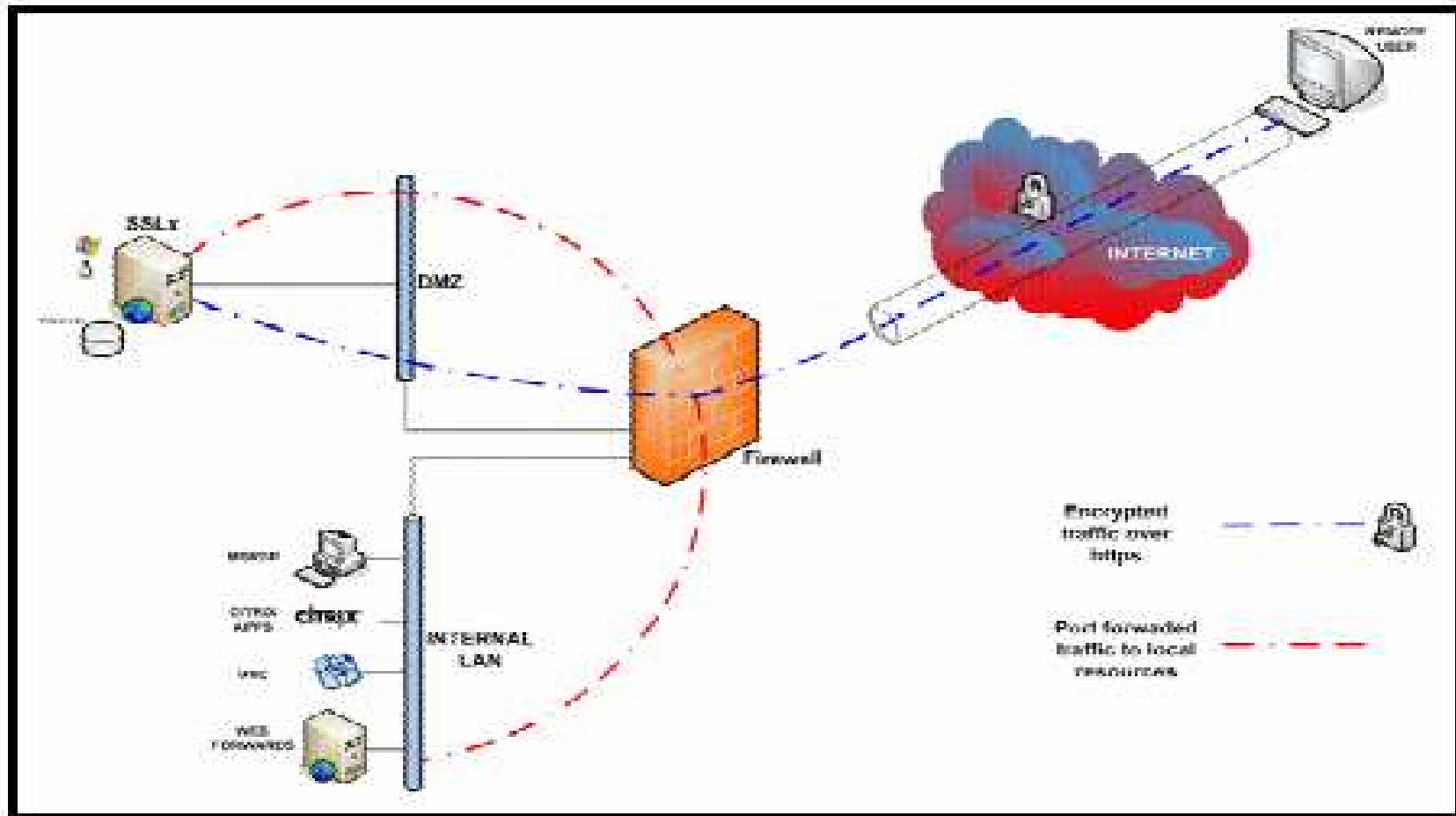
Betriebssystem-Plattformen für den SSL-Explorer

- Windows
EXE-verfügbar, Server, XP
- Linux (Redhat, SUSE, u.a.)
Installation via:
Shell-Script-Installation (Java-GUI), RPM,
Source kompilierbar

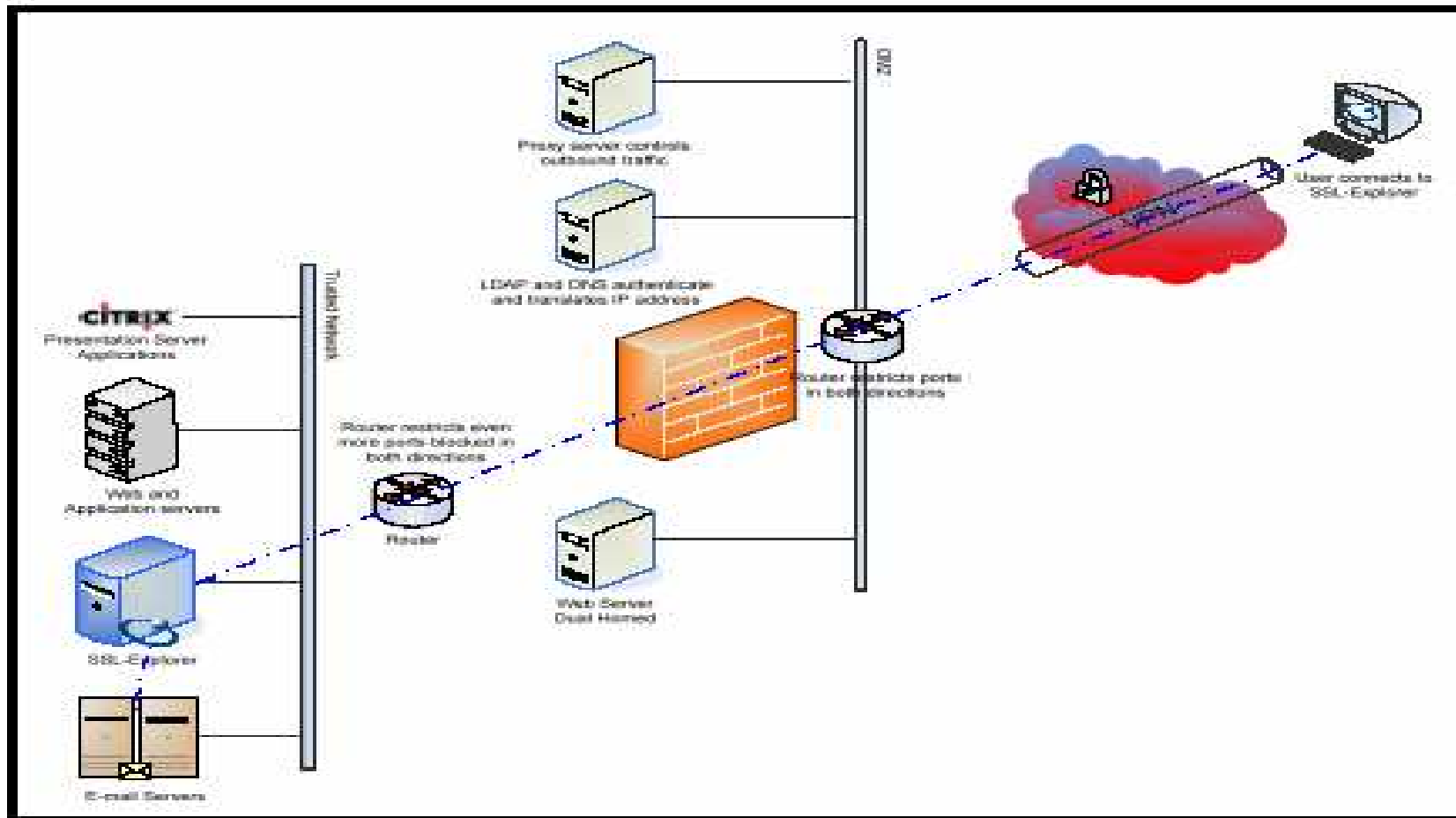
Einsatz mit ohne DMZ



Einsatz mit DMZ



Einsatz hinter DMZ



SSL Certificate

- Der verschlüsselte Zugriff macht ein Zertifikat-Einsatz nötig
- Öffentliches anerkanntes SSL-Zertifikat muss gekauft werden, da dann ein anerkannter CA-Server die Prüfung vornimmt
- Nicht zwingend, jedoch für professionelle Lösungen empfehlenswert

Integration SSL-Explorer in bestehende Netzwerke

Die User-DB kann:

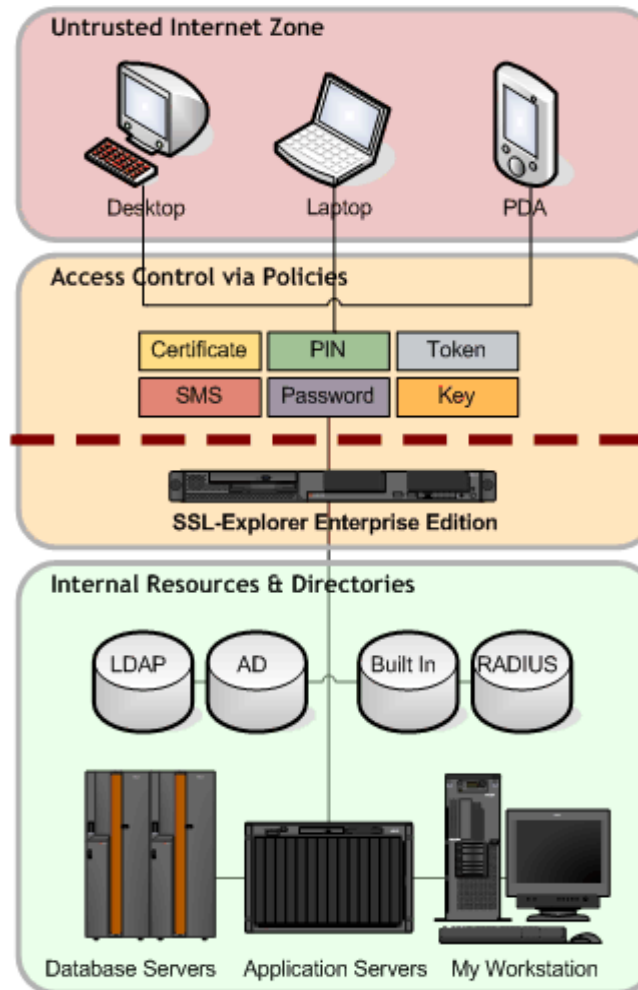
- in eigener DB stehen (HSQLDB)
- in Active Directory stehen
- Via LDAP angesprochen werden
(nur Enterprise Edition)
- in NIS stehen

- Fixe, public IP, DNS-Name

Zugriffs-Möglichkeiten

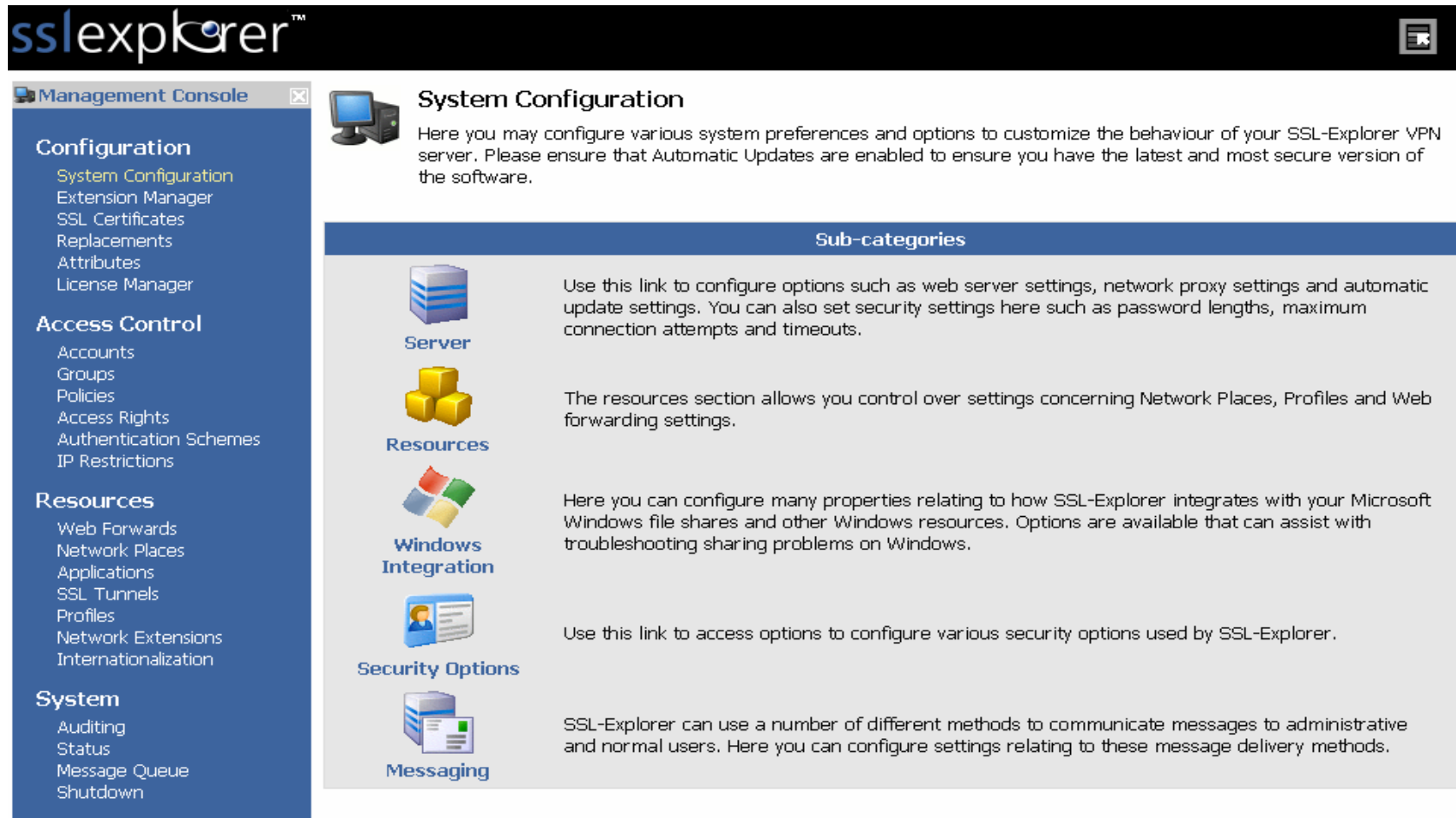
- Web-Apps (Reverse proxy)
- Microsoft RDP (Remote-Desktop)
- NX Client
- JavaRDP
- Putty, WinSCP
- RADIUS
- RDesktop
- TN5250
- UltraVNC, VNC
- ICA (Citrix)
- File-Access / Shares, FTP, Drive-Map (Enterprise)
- Transparenter VPN-Tunnel

SSL Explorer Aufbau



Demo

Administration & Anwendung



The screenshot displays the SSL-Explorer Management Console. The top bar features the 'sslexplorer' logo and a help icon. The left sidebar is a navigation menu with the following sections:

- Configuration**
 - System Configuration
 - Extension Manager
 - SSL Certificates
 - Replacements
 - Attributes
 - License Manager
- Access Control**
 - Accounts
 - Groups
 - Policies
 - Access Rights
 - Authentication Schemes
 - IP Restrictions
- Resources**
 - Web Forwards
 - Network Places
 - Applications
 - SSL Tunnels
 - Profiles
 - Network Extensions
 - Internationalization
- System**
 - Auditing
 - Status
 - Message Queue
 - Shutdown

The main content area is titled 'System Configuration' and includes a computer icon. Below the title is a description: 'Here you may configure various system preferences and options to customize the behaviour of your SSL-Explorer VPN server. Please ensure that Automatic Updates are enabled to ensure you have the latest and most secure version of the software.'

Below the description is a 'Sub-categories' section with five items:

- Server**: Use this link to configure options such as web server settings, network proxy settings and automatic update settings. You can also set security settings here such as password lengths, maximum connection attempts and timeouts.
- Resources**: The resources section allows you control over settings concerning Network Places, Profiles and Web forwarding settings.
- Windows Integration**: Here you can configure many properties relating to how SSL-Explorer integrates with your Microsoft Windows file shares and other Windows resources. Options are available that can assist with troubleshooting sharing problems on Windows.
- Security Options**: Use this link to access options to configure various security options used by SSL-Explorer.
- Messaging**: SSL-Explorer can use a number of different methods to communicate messages to administrative and normal users. Here you can configure settings relating to these message delivery methods.

User-Interface Web Forwards

sslexplorer™

User Console

My Account

My Favorites
Change Password
Attributes

Resources

Web Forwards
My Profiles
My Applications
Network Places
Network Extensions
Internationalization

Logged on as beat



Web Forwards

A Web Forward is a link to an intranet website within your network. Click on the links to view the Web Forwards. Please contact your network administrator if the web forward resource is missing.

Filter

Reset

Name	Actions
 VMWARE-Admin	 More ..
 BRIT01-HTTP	 More ..

User Interface

My Application

The screenshot displays the SSL Explorer User Console interface. At the top left, the 'sslexplorer™' logo is visible. A 'User Console' window is open, showing a navigation menu on the left with sections for 'My Account' (My Favorites, Change Password, Attributes) and 'Resources' (Web Forwards, My Profiles, My Applications, Network Places, Network Extensions, Internationalization). The 'My Applications' section is active, displaying a list of applications. Above the list is a search bar with 'Filter' and 'Reset' buttons. The application list has columns for 'Name' and 'Actions'. The applications listed are PC12-RDP, PC12-VNC, britlx01-WinSCP, britlx01-putty, and britlx02-putty, each with a 'More ..' action button. At the bottom left, it shows 'Logged on as beat' and 'SSL-Explorer™ © 2003-2007 3SP Ltd 0.2.12 Enterprise Edition'.

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User Console

My Account

- My Favorites
- Change Password
- Attributes

Resources

- Web Forwards
- My Profiles
- My Applications
- Network Places
- Network Extensions
- Internationalization

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0.2.12 Enterprise Edition

My Applications

Here you can launch applications that you have been granted access to. Please contact your network administrator if an application to which you require access is missing.

Name	Actions
PC12-RDP	More ..
PC12-VNC	More ..
britlx01-WinSCP	More ..
britlx01-putty	More ..
britlx02-putty	More ..

User Interface

My Networkplaces

ssexplorer™

User Console

My Account

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Web Forwards
My Profiles
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Network Extensions
Internationalization

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My Network Places

From here you can access various Network Places that link to shared file systems on your network. network administrator if the Network Place to which you require access is missing.

Name	Actions
PC12-TEMP-Share	More ..
brit01-ftp	More ..
brit01_w_Share	More ..

User Interface VPN-Tunnel

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User Console

My Account

My Favorites
Change Password
Attributes

Resources

Web Forwards
My Profiles
My Applications
Network Places
Network Extensions
Internationalization

Logged on as beat



Network Extensions

Here you can launch your network extension that provide you with full network connectivity to the SSL-Explorer managed network.

Filter

Reset

Name ↑

Actions

Std. Clients

More ..

Std. LAN Brit

More ..

Versions-Unterschiede

- Bei der OpenSource Edition fehlen folgende key-Funktion gegenüber der Enterprise Version:
- SMS-Authentication
- Virtual keybords
- Network Drive map's
- Full VPN Tunnel

Zufriedene Kunden



- Echos:
 - Einfache Bedienung
 - Stabil / Sicher
 - Sehr hohe breite Möglichkeiten
 - Zentral Externer Zugang
 - Absolut konkurrenzfähig gegen über kostenpflichtiger Software
 - Enterprise Edition: Vernünftige Kosten

Konsequenz:

- Just use it!

