Browser in the Box
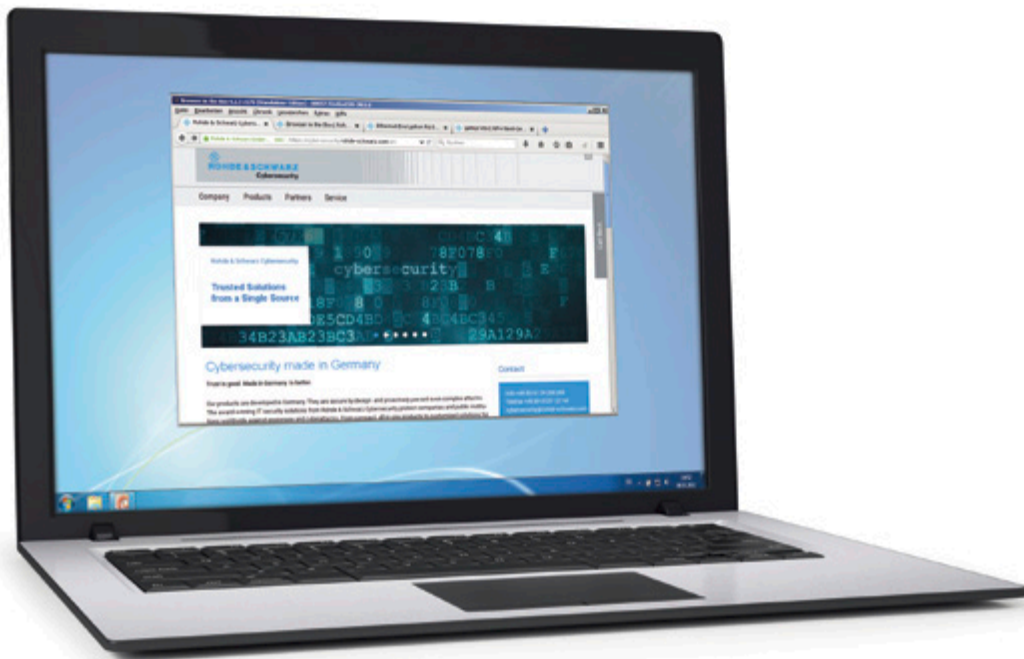## Secure browsing in a virtual environment

Browsing the Internet at work poses a great security risk. Today, 90 % of all cyber attacks are carried out via the browser.

As a result, virus, Trojans, APT´s and other malware can infiltrate local computers, the company network and the intranet.
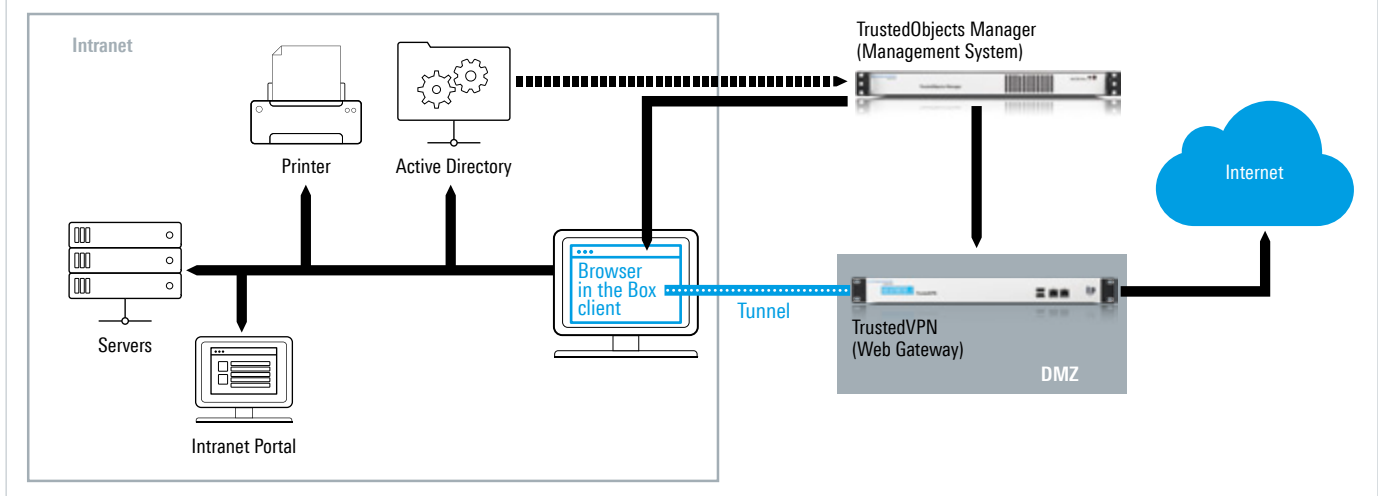
Browser in the Box, a virtual browsing environment developed in cooperation with the German Federal Office for Information Security (BSI), is a brand new solution for secure and comfortable browsing the Internet. Initially designed for the highest security requirements of federal authorities, the Browser in the Box solution is now also available for companies. A secure separation between the Internet on the client and the company network allows for reliable protection of company data without impacting the IT infrastructure availability and performance.

New security mechanism

Users are provided a virtual machine which is separated from the computer's operating system. This virtual machine has a hardened operating system and a nested web browser. Thanks to the separation of the Internet and the internal network, malware cannot infiltrate the base operating system because of the isolation in the virtual environment. Every time the virtual machine is restarted, it is reset to factory settings and cleared of any potential infections. This makes for cost-efficient and carefree browsing while still allowing for full capacity.

ROHDE&SCHWARZ
Cybersecurity

Intranet

Printer

Active Directory

Servers

Intranet Portal

Browser in the Box client

Tunnel

TrustedObjects Manager (Management System)

Internet

TrustedVPN (Web Gateway)

DMZ

An innovative solution

Unlike the basic sandboxing method used in standard browsers, Browser in the Box completely separates all browser activities from the base operating system by isolating the entire guest operating system. There is only one folder in the base operating system that is accessible to a specific user account. This is where all persistent configuration data (bookmarks etc.) will be saved. Downloaded data will be saved in this folder, scanned for malware and only then moved to the regular download folder. This technology even prevents users from accidentally uploading documents to the Internet. This way, companies can ensure that confidential data are not leaving their internal network.

Enterprise solution with central management

Browser in the Box Enterprise offers comfortable and central management for centrally administrated IT environments. Using this solution, security standards and configurations can be conveniently administrated and guest images can be generated, signed and distributed. Thanks to a secure tunnel between Browser in the Box and a central web gateway, applications on the client (and other browsers) can only access the internal company network. The Internet is accessed through Browser in the Box. Intranet portals can be accessed through any other browser. A configurable browser switch ensures that the correct browser is opened, enabling a two-browser-strategy that is equally secure and comfortable. This way, Browser in the Box allows for cost-efficient, convenient and carefree browsing. With Browser in the Box TS we also offer a version suitable for thin client architectures with terminal servers.

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