Rohde & Schwarz Cybersecurity

R&S®BROWSER IN THE BOX – WORKSTATION

In most cases, viruses and APTs enter the local PC and the corporate network via the browser. The consequences: High financial damage, loss of sensitive data and reputation. With R&S®Browser in the Box you minimize the risks for your company.

In version 2023 of the German "IT-Grundschutz-Kompendium" (IT Baseline Protection Compendium), the German Federal Office for Information Security (BSI) recommends, for the first time, a special browser environment with virtualized instances – such as R&S®Browser in the Box. Our virtual surfing environment, developed together with the BSI, offers a proactive approach to secure and comfortable surfing on the internet.
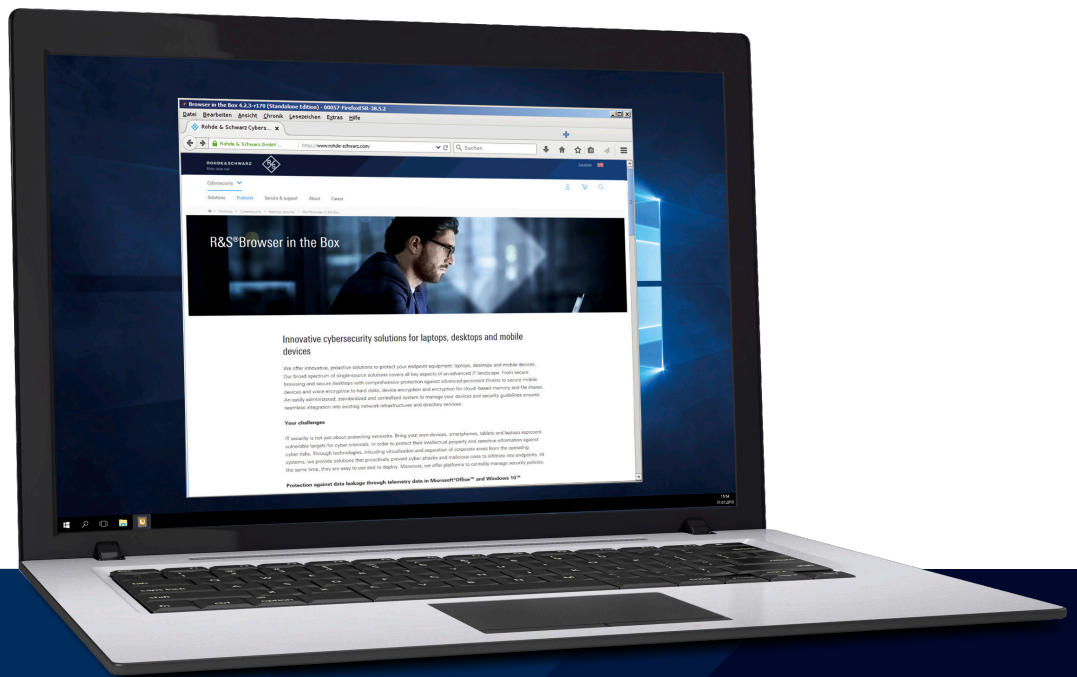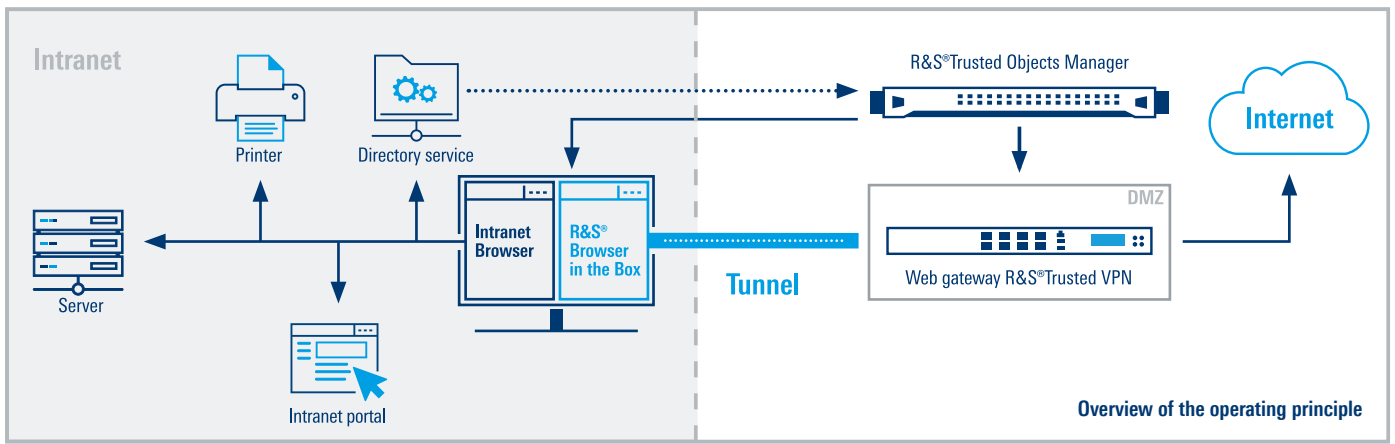

Product flyer
Version 03.00

ROHDE & SCHWARZ

Make ideas real

Overview of the operating principle

New protection mechanism
Users get a completely separate environment from the operating system so that they can work on the internet. By **separating the internet from the internal network,** malware cannot penetrate the base operating system, but is isolated in the virtual environment. In addition to the separation at the network level, the browser itself is also decoupled from the operating system through virtualization. A potential infection of the separated virtual machine is removed by returning to a signed initial state each time the browser is started. The result: **cost-efficient, trouble-free surfing with full performance.**

Innovative solution approach
Unlike the simple sandboxing method of standard browsers, R&S®Browser in the Box – Workstation **completely isolates all browser activities from the end-user operating system.** This is done by means of a dedicated virtualized operating system for the browser. In this browser, only a shared folder is available for a separate user account. All persistent configuration data (favorites, etc.) of the browser are stored there. Files downloaded from the internet are first stored here before being made available to users in their usual download directory after a malware scan. Accidental uploads of documents to the internet are also prevented in this way. This enables companies to make sure that confidential data does not leak unintentionally.

Optional webcam add-on
Virtualization of the webcam actively prevents unauthorized access to a camera when using R&S®Browser in the Box – enabling secure participation in web conferences in a fully virtualized surfing environment. This completely prevents unwanted information leakage through camera or audio recordings, such as on compromised websites.

Workstation with central management
For professional use in centrally managed IT environments, R&S®Browser in the Box – Workstation offers **convenient central management.** It allows to conveniently manage security policies and configurations and to generate, sign and distribute guest images. A security tunnel between R&S®Browser in the Box – Workstation and a central web gateway ensures that the applications on the client (including other browsers) can only access the internal corporate network. R&S®Browser in the Box – Workstation provides access to the internet. Intranet portals can be accessed with any other browser. A configurable browser switch ensures that the correct browser is opened automatically. This implements a **two-browser strategy** that is both secure and convenient – for cost-effective and worry-free surfing.

Browser variants
Since R&S®Browser in the Box is based on a fully virtualized operating system, various browsers can be used in it:

Google Chrome – ideal for multimedia content und video conferences
Mozilla Firefox – highest settings flexibility, especially with regard to data privacy
Tor-Browser – Anonymization of connection data using the Tor network (for specialized applications)

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