

## SINA Virtual Workstation 2.1

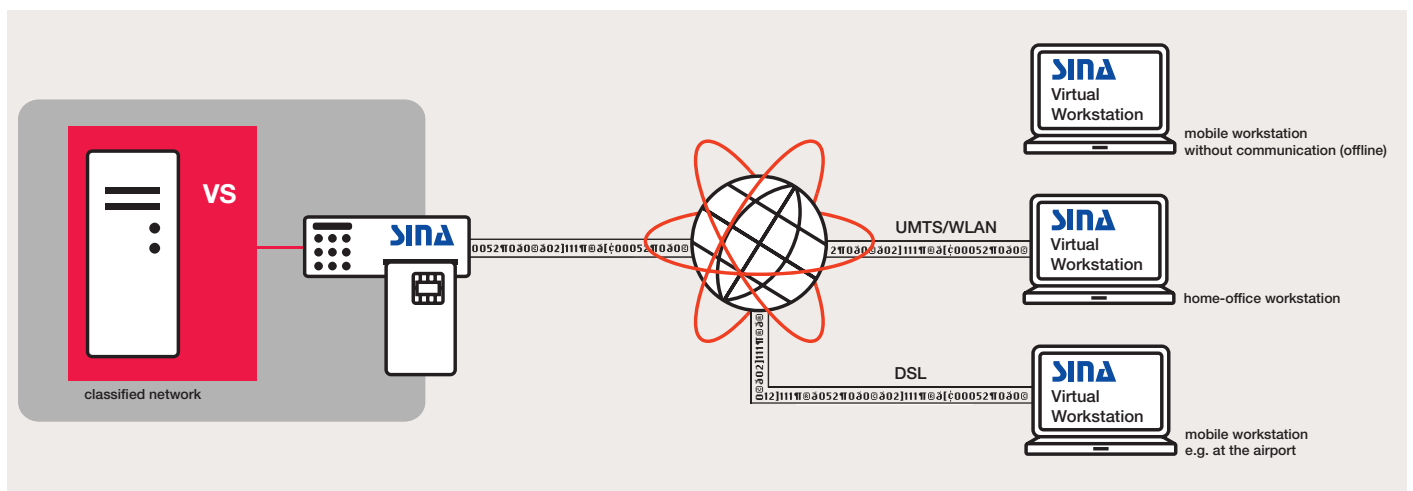
With SINA Virtual Workstation the user is no longer dependent on a networked workstation: Now the offline processing and storing of classified data is possible, too. Due to the fact that a wireless online connection via GPRS, UMTS or WLAN is available, mobile users are provided with a controlled, direct access to a SINA network. The SINA platform was developed by order of the German Federal Office for Information Security (BSI) which continuously analyses and evaluates the SINA components thoroughly.

### About SINA Virtual Workstation

SINA Virtual Workstation is a trustworthy, high-protection operating system for the processing and local storing of classified data through mobile and stationary users.

### Advantages of SINA Virtual Workstation at a glance:

- The user does not need a networked workstation as, for example, in the case of SINA Thin Client. He can process his data offline and store it in a protected, highly secure environment.
- Direct access to the protected SINA network is possible via modern, wireless online connections such as GPRS, UMTS or WLAN.
- Via SINA Virtual Workstation classified VoIP telephone conversations can be held within a SINA network.
- By means of virtualisation technology several individually configured and strictly separated PCs can be provided. For users this actually means that they can utilise familiar standard operating systems, such as Windows or Linux, and their applications within an environment protected by SINA.
- Authentication is carried out in a secure way by means of smart card technology. In case of loss or theft of the computer the stored data cannot be read out by third persons.
- All access to external interfaces, such as USB devices, in the course of which unencrypted, confidential data could possibly be copied, can be authorised or prevented via SINA Management



## The technology

SINA Virtual Workstation is based on the trustworthy operating system "SINA LINUX" combined with a modern and trustworthy virtualisation technology (encapsulation) for PCs (SINA Virtual Machine).

The security philosophy implemented in SINA Virtual Workstation rests upon techniques of encapsulating insecure parts which come into contact with classified information. The separation of potentially insecure guest operating systems by means of virtualisation technology prevents the execution of all insecure or inadmissible functions.

At the same time, all stored data and the guest operating system, too, are saved on the file level in a secure, cryptographic file system (CFS).

All initial configuration data and security relations of the SINA Virtual Workstation are stored on a smart card in a specially protected area. By means of the central SINA Management it is possible to manage the permissible access for every user of SINA Virtual Workstation within the protected network.

As a basic principle, SINA Virtual Workstation is also designed to provide access authorisation to external storage media, such as USB, serial/parallel interfaces or CD-ROM, which can be made available to the guest operating system.

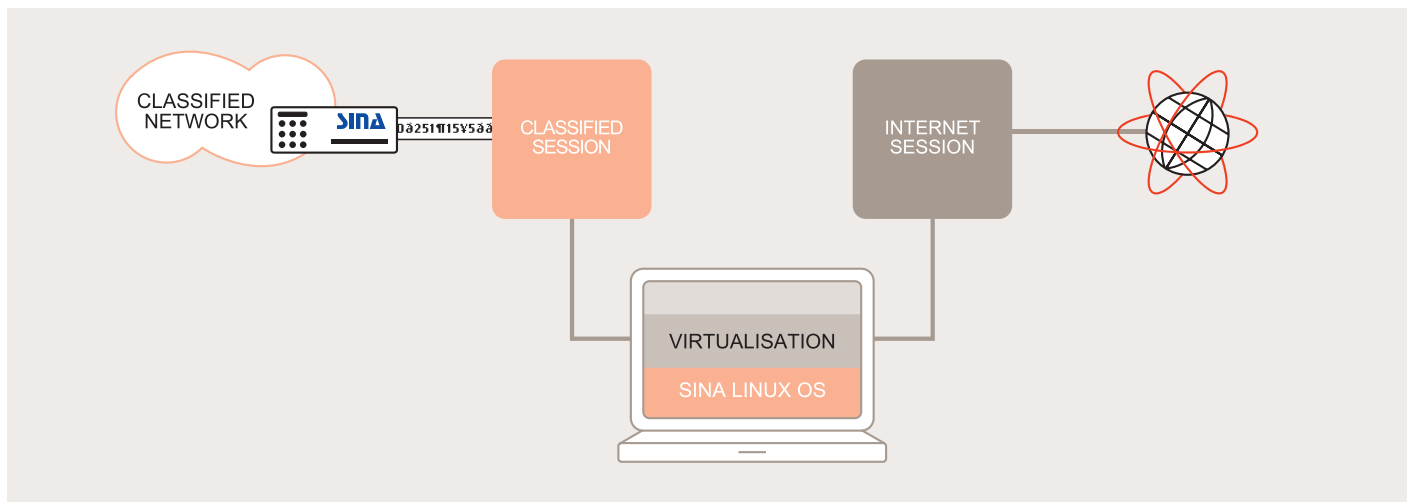
Whether such access within a concrete environment is to be permitted or to be prevented – depending on the user and the classification of the processed data – is configured accordingly by the administrator by means of SINA Management using a so-called media ACL.

SINA networks are accessed by means of SINA VPN technology.

SINA Virtual Workstation can operate several virtual PCs depending on memory capacity and processor performance in separately compartmented environments which can contain data of different security gradings.

## Approvals

SINA Virtual Workstation is approved by the German Federal Office for Information Security *for the processing of data classified as „VS-NfD“*. Approval for the security classifications „GEHEIM“ and „NATO SECRET“ is pending.



### More than just security.

secunet Security Networks AG is among the leading European service providers and product suppliers in the area of highly complex IT security solutions. More than 200 highly qualified employees with many years of experience develop intelligent and innovative solutions which generate sustainable added value for our customers. With our focus on top security in information technology, we are market leaders in Germany. Our reference list includes the majority of DAX30 companies and key international addresses as well as organisations and public authorities, at home and abroad. We offer our customers a complete range of services from consulting and development all the way to integration, training and service, and this from a single source. In doing so, secunet covers not only the traditional competence areas of security consulting and management, but also network and application security as well as the future fields of digital identity and signature and SINA® (Secure Inter-Network Architecture).

secunet Security Networks AG  
Kronprinzenstraße 30  
45128 Essen  
Germany  
Tel.: +49-201-5454-0  
Fax: +49-201-5454-123

E-mail: [sina@secunet.com](mailto:sina@secunet.com)  
[www.secunet.com](http://www.secunet.com)

