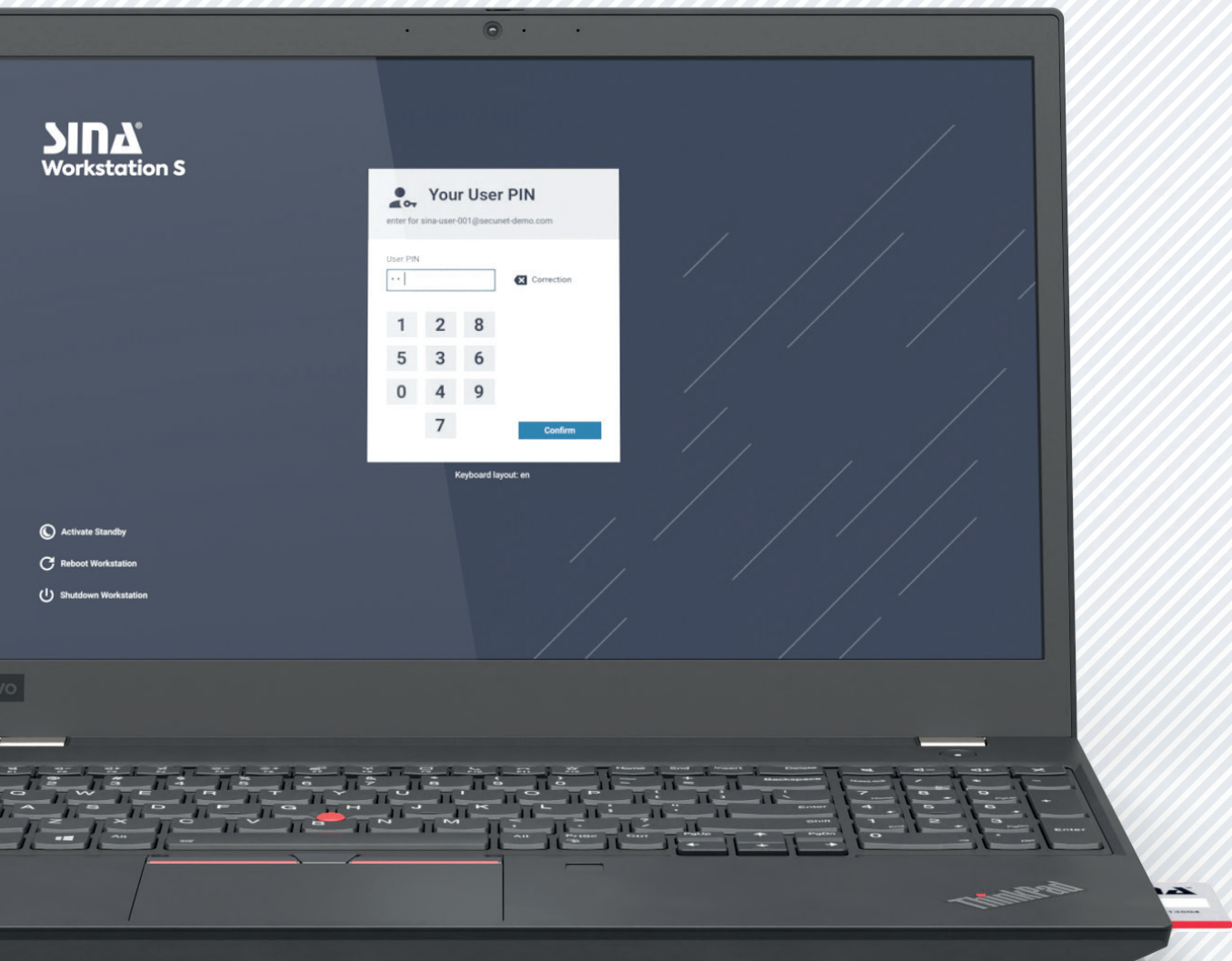# Secure remote work

A modern, powerful workstation
for secure remote work from anywhere

SINA Workstation S creates a modern and high-performance workstation, for simultaneous mobility and security on the go.

The security platform with smartcard-based 2-factor authentication, hard disk encryption and IPsec-secured communication is approved for processing classified information.

The SINA Workstation offers you security and convenience – online and offline, as you move around your familiar working environment. You always have access to data and documents from your network and can use all the functions of your usual applications such as e-mail, word processing and specialist procedures from anywhere in the world. With the integrated voice and video conferencing system, conversations are possible in real time without separate devices. The differences to the previous work with your operating system are marginal and intuitively understandable for every user. You can interact with the SINA Workstation simply by using the status bar.

Security architecture

The SINA Workstation runs so-called guest systems such as Windows or Linux and their applications in a virtualised environment. This allows access to devices and interfaces detected by the guest system to be carried out under the control of the SINA security operating system. All hard disk access and network connections are automatically encrypted by SINA without further manual interaction by the user.

Users can only access the encrypted data with a PIN-protected SINA ID token. After entering the PIN, the SINA Workstation automatically starts the standard workstation as a guest system.

Smartcard-based 2-factor authentication

The SINA ID token – either in the form of a smart card, a USB token or a microSD card contains the initial configuration data and security associations for the SINA Workstation. It also serves as a secure storage for cryptographic keys and certificates.

The access rights, i.e. which user can access which security domains or external interfaces with his SINA Workstation, can be assigned centrally via SINA Management system on a user-specific and classification-specific basis.

Benefits

- 2-factor authentication, hard disk encryption and integrated VPN

- Parallel working in several Windows or Linux workstations with different classification levels

- Expandable through SINA Apps

- Central management and remote administration

- Approved for German national RESTRICTED (VS-NfD) and CONFIDENTIAL (VS-VERTRAULICH) (offline)

Virtualisation

The virtualisation technology of the SINA secure operating system completely isolates the guest systems. Parallel operation of several guest systems, which can also be assigned to different security domains, makes it possible to work with one guest system in the internal security network and simultaneously surf the Internet with another system – without the risk of compromising your own network with malware.

Thanks to virtualisation, the same virtual system is always available to the guest system, regardless of the underlying hardware. This greatly simplifies administration and the replacement or renewal of hardware. Virtualisation is optimised for desktop use and supports common audio and video devices.

Secure Label

The Secure Label is the status bar of the SINA Workstation and is always displayed at the top of the screen. It allows you to control the most important functions of the SINA Workstation, such as switching between sessions, starting a new session or managing network connections.

Thin clients

The SINA Workstation has various integrated thin clients to provide VPN secured access to terminal servers. It supports various industrial protocols, such as Citrix ICA or Microsoft RDP.

VoIP telephony session

A VoIP telephony client is available as a VoIP session for SIP and RTP-based IP telephony. Incoming calls are indicated acoustically and visually in the Secure Label. The VoIP session has an intuitive interface, allowing you to use standard functions such as a local and central phone book as well as call lists.

SINA Apps

SINA Apps are specialised guest systems with defined tasks, and extend the range of applications of the SINA Workstation. For example, the practical SINA Apps can be used to automatically log on to WLAN hotspots or to launch a video conferencing system or other collaboration applications.

Additional features

The clipboard function allows you to exchange data (text & bitmap graphics) between different sessions – if permitted in the configuration by the SINA administrator. The SINA Workstation also offers an energy-saving mode to improve battery life.

Central management / remote administration

The configuration of the SINA Workstation in the network is carried out centrally by SINA Management. An integrated public key infrastructure (PKI) with associated user management supports essential administrative processes relating to the SINA ID token, in particular its personalisation, the generation and/ or updating of keys and cryptographic parameters as well as the administration of associated PINs and PUKs.

A SINA administrator can grant or revoke rights and change the configuration from a remote location. Powerful applications are available for simple rollout and remote administration, which can be integrated into your own administration processes.

BSI approvals

The SINA Workstations S are authorised by the German Federal Office for Information Security (BSI) for the processing, storage and transmission of confidential data of the classifications RESTRICTED and are aimed at national and international security networks. The SINA Workstation S compactly integrates all functionalities required for the protection and operation of the client into a single hardware platform.

Construction statuses relevant for authorisation

			SINA Workstation S
Performance data			
National approval levels		networked:	German national RESTRICTED (VS-NfD)
		offline:	German national CONFIDENTIAL (VERTRAULICH)
International approval levels		networked:	NATO RESTRICTED, RESTREINT UE
		offline:	NATO CONFIDENTIAL* CONFIDENTIEL UE*/**
Software version			3.5
Authentication token			SINA ID Token

Technical data

SINA Workstation S		Lenovo X13 Gen4	Lenovo L14 Gen4	Lenovo T14 Gen4	Lenovo P14s Gen4	Lenovo T16 Gen2
Performance data						
Display	Size, Type	13.3" WUXGA IPS	14" FHD IPS	14" WUXGA IPS	14" WUXGA IPS	16" WUXGA IPS
	Resolution	1920 × 1200	1920 × 1080	1920 × 1200	1920 × 1200	1920 × 1200
CPU	Intel® Core™ Prozessor	i7-1360p	i5-1340p	i7-1360p	i7-1360p	i7-1360p
RAM		32GB DDR4	16GB DDR4	32GB DDR4	48GB DDR4	32GB DDR4
Boot medium	Solid State Disc	1TB SSD	512GB SSD	1TB/2TB SSD	1TB/2TB SSD	1TB/2TB SSD
Interfaces						
USB 3.0	Standard	2× USB 3.2, 2× USB-C	2× USB 3.2, 2× USB-C	2× USB 3.2, 2× USB-C	2× USB 3.2, 2× USB-C	2x USB 3.2, 2× USB-C
Smart card reader	For SINA smart cards	✓	✓	✓	✓	✓
Network		Gigabit Ethernet WLAN, LTE	Gigabit Ethernet WLAN, LTE	Gigabit Ethernet WLAN, LTE	Gigabit Ethernet WLAN, LTE	Gigabit Ethernet WLAN, LTE

Sources
Authority customers in Germany can acquire SINA components from the framework contract of the Procurement Office of the German Federal Ministry of the Interior. secunet would also be pleased to serve all other national and international customers.

* Special requirements, e.g. in terms of tempestation of the hardware being used, can be found in the approval documentation.
** For German national use only.

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