

SINA[®] Workstation S

Universal Crypto Client for Mobile Use



Benefits:

- » **RESTRICTED (networked)**
CONFIDENTIAL (offline)
- » **Powerful hard disk encryption**
- » **Virtualisation**
- » **VoIP integrated**
- » **Fast direct operation via Secure Label**
- » **Video session**
- » **Remote authority management (MACL)**

The SINA Workstation is a fat client with crypto file systems and IPsec-secured communication. The (semi-)parallel, multi-session-compatible crypto client communicates with the server or terminal server areas in a VPN-tunnel-secured manner and so can be used flexibly, either online or offline. SINA-secured networks can be accessed via wireless or wired media (Ethernet).

The SINA Workstations S is approved by the German Federal Office for Information Security (BSI) for the processing, storage and transmission of confidential data classified in Germany as “VS – NUR FÜR DEN DIENSTGEBRAUCH” and is aimed at national and international security networks.

With the SINA Workstation S, all of the functionality required for protecting and operating the client is compactly integrated into one hardware platform. No peripheral add-ons are required. The fundamental communications options are supported, in LAN, WLAN, LTE and Bluetooth.

IT security concept

The SINA Workstation S is based on a holistic IT security concept. It comprises the following:

- an annealed, security-tested SINA OS system platform,
- smart card-based authentication,
- IPsec-based virtual private networks,
- session-specific crypto file systems and
- government-compliant SINA software versions.

System start, quick start profiles and operation

The SINA Workstation S software is launched from a hard disk or SSD. For example, if data classified as CONFIDENTIAL* is processed offline or is “transported”, the SINA Workstation S system must be launched with integrity assured. Usage-specific fast-start profiles (e.g. for the office, Internet research, business trip, mobile (offline) data safe, home office) can be used to make the system start process both simpler and faster for the user. The resources allocated to the sessions and the network connection are parameterised in these profiles. All the initial security-related configuration data (e.g. media ACL) and security associations for the SINA Workstation are stored in a protected area of the SINA smart card and in the user-specific system CFS. When starting a SINA Workstation, the security associations to SINA Management and the communication-related SINA boxes are structured as IPsec VPN tunnels. If necessary, additional security associations or configuration data can be downloaded from SINA Management. This makes the SINA Workstation easy to configure, install and operate.

Power save mode

To have a longer battery life SINA Workstation provides a power save mode. While enabled, a number of energy saving settings of the linux kernel will be activated at the moment of the separation from the power supply. At the same time the screen brightness will be reduced to a range the user can adjust.

VoIP telephony session

Along with the new VoIP session for SIP- and RTP-based IP telephony, there is now a VoIP telephony client available. Incoming calls are both displayed visually in Secure Label and audibly, regardless of which session the user is active in. The Workstation S has a softphone interface via which the standard functions can be accessed. Furthermore a local phone book, plus one that can be accessed via LDAP, and a call list are supported.

Video session

In the video session users can view videos locally (from a USB storage medium or the optical drive) or from a remote server. HD quality can be achieved depending on the performance level of the underlying hardware platform. As regards simple editing, it is possible to create video screenshots and set bookmarks.

Virtualisation

Virtualisation enables (semi-)parallel working in differently classified sessions or contexts. Guest systems – including their data – are cryptographically “blackened” on a USB hard drive or backed up via the network and restored when required. Virtualisation means that the same virtual system is always available for the guest system, regardless of the underlying hardware. This vastly simplifies the administration. Since the version 3.3.5 with oracle box 5.0 and USB Support 3.0 the software provides a significantly improved USB performance for the guest systems. Thus you can easily apply USB audio devices such as USB headsets for example.

Technical data

		SINA Workstation S X270	SINA Workstation S T470s	SINA Workstation S T570	SINA Workstation S EliteDesk 800 G3
Performance data					
Display	Size, Type	12.5" FHD IPS	14.0" FHD IPS	15.6" FHD IPS	–
	Resolution	1920 x 1080	1920 x 1080	1920 x 1080	–
CPU	Intel® Core™ processor	i7-7500u	i7-7500u	i7-7500u	i7-7700T
RAM		16 GB DDR3 SDRAM	24 GB DDR3 SDRAM	16 GB DDR3 SDRAM	16 GB (2x 8 GB) DDR4
Boot medium	Solid State Disc	256 or 512 GB SSD	256 or 512 GB SSD	256 or 512 GB SSD	512 GB SSD
Interfaces					
USB 3.0	Standard	3x	3x	3x	7x
Smart card reader	For SINA smart cards	■	■	■	in the keyboard
Network	10/100/1000 Cu	■	■	■	■
		WLAN, Bluetooth, LTE	WLAN, Bluetooth, LTE	WLAN, Bluetooth, LTE	WLAN

* Special requirements, e.g. in terms of temperature of the hardware being used, can be found in the approval documentation.

** For German national use only.

Additional features

It is now possible to use the clipboard function in version 3.3 to copy data (text and Bitmap graphics) between differently classified sessions or from a lower-classified session to a higher-classified one.

Furthermore the version enables user rights to be changed remotely. Rights can be allocated or withdrawn by a system administrator within the Media Access Control List (MACL), regardless of where the user actually is.


Optimised network integration

The IP routing of “red” networks is simplified by support for “red” IP addresses for thin client sessions and the SINA Management functionality integrated into the client.

Management

The SINA Workstation is centrally configured in the network by SINA Management. An integrated public key infrastructure (PKI) with the relevant user management supports the significant administrative processes related to SINA smart cards or SINA smart card tokens, especially personalisation, the generation and updating of keys and cryptographic parameters as well as the management of the relevant PINs and PUKs.

Approval-related construction classes

 SINA Workstation S	
National approval levels	networked: RESTRICTED offline: CONFIDENTIAL*
International approval levels	networked: NATO RESTRICTED; RESTREINT UE offline: NATO CONFIDENTIAL*; CONFIDENTIEL UE ^{*/**}
Software version	3.3
Authentication token	SINA smart card, SINA USB token In the above offline scenarios or SINA mIdentity Token

More information:
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