

Crypto Client

High-Performance



The SINA Workstation H Client III is a fat client with crypto file system and IPsec-secured communication. The multi-session-capable crypto client communicates VPN tunnel-secured with server or terminal server areas and can be used flexible both online and offline.

According to the requirements of the deployment scenario, different classified sessions can be combined and used in parallel, taking into account the session type.

The SINA Workstation H Client III is a crypto client that was developed in cooperation with the German Federal Office for Information Security (BSI) for processing, storage and transmission of classified information up to and including German national GEHEIM. In addition, the SINA Workstation H Client III is approved for NATO SECRET and SECRET UE/EU SECRET. The focus is on national and international military and governmental high-security networks.

High-performance cryptography

The SINA CORE-based SINA Workstation H Client III are significantly more powerful than the PEPP-based SINA Clients. This is evident when establishing new security associations and VPN encryption. Due to the inclusion of different crypto device classes and the reloadability of new crypto device classes, the SINA Workstation H Client III can be used with high flexibility.

Hardware platform for special requirements

The operational experience with the SINA Client in the Afghan(istan) Mission Network and initial evaluation results with the previous generation in military command information systems of the German Federal Armed Forces, led to a forced further development of the SINA Clients. This benefits both the SINA Workstation and the SINA Terminal. The aim was to provide an especially powerful system for load-intensive multi-session scenarios, which are characteristic of this application environment, and for the associated high demands on the hardware platform. This includes a 64-bit processor with four cores and 4 GB of main memory. In addition, the user requirements for graphic information systems applications are even better met with the high-resolution 24" TFT displays.

Ergonomic device design

Like the predecessor model, the main unit in the new generation of devices can be operated vertically. The new 24" TFT displays can now be adjusted in terms of height, inclination and viewing angle and, for the first time, offer a modern digital interface for zoned SINA devices. This enables fatigue-free working with high resolution and clear image.

Virtualisation

The virtual machine (ORACLE VM VirtualBox) integrated into software version 2.8.4 of the SINA Workstation H supports MS Windows 10-based guest systems, among others.

Multimedia support

The differences in performance compared to the predecessor model become clear when playing HD videos. The sound output can now be used by all (active) sessions. Because of the sound issues relating to encryption approval, sound input (via microphone) is still only allocated to a specific session. Specifically, some isochronous USB devices (such as webcams) are supported by the virtual machine. Future releases will benefit from developments introduced for USB optimisation.

In addition, the SINA Workstation H Client III supports a VoIP session for SIP/RTP-based telephony with a Soft Phone application. For example, it is possible to connect a classic IP telephone via the "red" network interface.

Satellite communication

Professional applications via commercial satcom IP services such as BGAN place high technical requirements on the crypto devices used. Tests by the German Federal Armed Forces have shown that the SINA Workstation also supports applications such as video conferencing, even with double hop satellite connections.



Benefits

- Approved for German national GEHEIM, NATO SECRET and SECRET UE/EU SECRET
- Intel® Core™ i7 CPU, 16 GB RAM and 24" TFT
- Multi Level Data Separation
- Faster switching between working environments (sessions)
- Session-specific crypto file system partitions
- Audio support

Management

The SINA Workstation is configured and controlled centrally by SINA Management. An integrated public key infrastructure (PKI) with associated user management supports essential administrative processes involving SINA Smartcards or SINA Smartcard Tokens. This includes, in particular, their personalization, the generation or updating of keys and cryptographic parameters as well as the administration of the associated PINs and PUKs.

Approval-related construction classes



SINA Workstation H Client III

Performance data	
Approval	German national GEHEIM, NATO SECRET and SECRET UE/EU SECRET
Boot integrity protection	coreboot
Software version	2.8
SINA CORE device classes	National 1.x (PEPP-compatible) NATO 1.x (PEPP-compatible) EU 1.x (PEPP-compatible)
Manipulation protection	SINA CORE
Emission protection	Zone 1
Authentication token	SINA Smartcard SINA Security Tokens

Technical data

General data		
Size (W × H × D)	Without stand 403 × 123 × 403 mm With stand (vertical) 237 × 425 × 403 mm	✓
Weight	19.4 kg (single monitor configuration) 29.2 kg (dual monitor configuration)	✓
Performance data		
CPU	Intel® Core™ i7 processor	✓
RAM	16 GB RAM	✓
Graphics	Intel® HD Graphics 4000	✓
Boot medium	1 TB HDD	✓
DVD burner	DVD/CD-RW	✓
Sound	Inbuilt speakers with volume control on the device	✓
Voltage supply	110–240 V	✓
Power consumption	90 W	✓
Monitor		
Display	24" TFT-LCD active matrix, 16:10 (W × H: 550 × 360 mm)	1× or 2×
Resolution	1920 × 1080 (HD) or 1920 × 1200	1× or 2×
Front interfaces		
USB 3.0	Type A	✓
USB 2.0	Type A, in recess	✓
Plug-in slot	For SINA Security Token with anti-twist safeguard	✓
Smartcard reader		✓
Audio	D-Sub 9-pos. (for headset)	✓
Rear interfaces		
USB 3.0	Type A	3×
USB 2.0	Type A (e. g. for keyboard and mouse)	3×
Monitor	Display port for SITEMP monitor zone 1	2×
Network	100/1000 Mbit LWL interchangeable, LC	2× (1× "black" SINA CORE, 1× "red" or for VoIP)
Temperature ranges		
Operation	+5 °C to +40 °C	✓
Transport and storage	-25 °C to +60 °C	✓

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