

High end Crypto Client

For an up-to-date and efficient working day with classified information up to German national SECRET (GEHEIM)



The SINA Workstation H Client V 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 is a new crypto client based on Client V that has been developed jointly with the German Federal Office for Information Security (BSI) for the processing, storage and transmission of crypto information with classifications of up to German national SECRET (GEHEIM). The international approvals NATO SECRET and SECRET UE/EU SECRET are also sought. The focus lies on national and international military and official high-security networks.

High-performance cryptography

The SINA Workstation H Client V has a new SINA CORE module for significantly higher performance. This is particularly noticeable when creating new CFS containers and in read/write access on the SSD. The SINA Workstation H Client V can be used flexibly by storing and reloading different cryptographic device classes.

Optimised hardware platform for special requirements

The SINA Workstation H Client V was developed in the light of experience gained in recent years and features numerous innovative performance features.

Compared to its predecessor, the cryptographic client has an Intel® Xeon® E-2176M with six processor cores and 64 GB RAM for significantly more power.

The modern 2 TB SSD NVMe drive offers sufficient storage space. The high-resolution 27" TFT display with 4K resolution meets user requirements with regard to the interaction with graphic data processing systems. Three smartcard interfaces also offer a high level of convenience, e. g. the insertion of a PKIBw smartcard.

The dual configuration with a red and black switchable fiber optic network interface enables a high degree of flexibility for integration into heterogeneous network infrastructures.

Ergonomic device design

The new generation of devices has a much more compact design than the SINA Workstation H Client III(a) model. The SINA Workstation H Client V is fully integrated into the TFT display. The new TFT display can be adjusted in height, inclination and viewing angle and has a modern digital interface. This makes effortless work possible, with high resolution and a clear image.

Virtualisation

The SINA Workstation H Client V is supported from software version 2.8.5. This includes a current version of the virtual machine (ORACLE VM VirtualBox).

Multimedia support

HD videos can be played effortlessly. The sound output can be used in all (active) sessions. Due to the issue of eavesdropping, which would void the encryption approval, sound input (via microphone) is still allocated to just one specific session. Isochronous USB devices (e.g. webcams) in particular are generally supported by the virtual machine. Future releases will benefit from further USB optimisations.

The SINA Workstation H Client V also supports a VoIP session for SIP/RTP-based telephony using a soft phone application. The "red" network interface enables the connection of a conventional IP telephone, for example.

Benefits

- Approved for German national SECRET (GEHEIM), under evaluation for NATO SECRET and SECRET UE/EU SECRET
- Post-quantum cryptography
- Intel® Xeon® E-2176M, 64 GB RAM and 27" 4K TFT display
- Multi Level Data Separation
- Fast switching of working environments (sessions)
- Session-specific encrypted file system partitions
- Compact, ergonomic design



Satellite communication

Professional applications via commercial Satcom IP services, such as BGAN, place high technical requirements on the cryptographic devices used. In tests by the Federal Armed Forces, the SINA Workstation has been proven to support applications such as video conferencing even with double-hop satellite connections.

Central management

The SINA workstation is configured and controlled centrally in the network via the SINA Management. An integrated Public Key Infrastructure with associated user management system supports critical administrative processes involving SINA smartcards or SINA smartcard tokens. This particularly includes their customisation, the generation and updating of keys and cryptographic parameters, and the administration of their PINs and PUKs.

SINA products can be kept up to date via remote software updates initiated by SINA Management. This reduces the support overhead in the long term and they can be distributed quickly in the customer networks in the event of a security or bug fix. In addition, this means that users have access to all newly developed features at any time.

The Remote Configuration Update allows configurations for SINA L3 boxes, users, SINA clients as well as series clients to be changed without having to update the smartcards concerned.

Remote Administration and Installation (RAS) is also supported.

Approval-related construction classes



SINA Workstation H Client V

| Performance data | |
|---------------------------|---|
| Approval | German national SECRET (GEHEIM), under evaluation for NATO SECRET and SECRET UE/EU SECRET |
| Boot integrity protection | coreboot |
| Software versions | 3.6.1 |
| SINA CORE device | National |
| Manipulation protection | SINA CORE-based |
| Emission protection | Zone 1 |
| Authentication token | SINA smartcard |

* approval sought

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Technical data

| General data | | |
|-----------------------|---|---|
| Size (W × H × D) | 655 × 498–638 × 275 mm | ✓ |
| Weight | ca. 21,2 kg | ✓ |
| Performance data | | |
| CPU | Intel® Xeon® E-2176M | ✓ |
| RAM | 64 GB RAM ECC | ✓ |
| Graphics | Intel® P630 | ✓ |
| Boot medium | 2 TB SSD NVMe | ✓ |
| Sound | Built-in speaker | ✓ |
| Voltage supply | 110–240 V | ✓ |
| Power consumption | In use SINA Workstation H Client V Z1 ca. 95 Watt SINA Monitor 27" Z1 ca. 46 Watt Stand by SINA Workstation H Client V Z1 ca. 12 Watt SINA Monitor 27" Z1 ca. 7 Watt | ✓ |
| Monitor | | |
| Display | 27" | 1x or 2x |
| Resolution | 4096 × 2048 (4k) | 1x or 2x |
| Front interfaces | | |
| USB 3.0 | Type C | 2x |
| USB 2.0 | Type A | 2x |
| Smartcard reader | | 3x |
| Audio | Yamaichi Push-Pull connector for headset | ✓ |
| Rear interfaces | | |
| USB 3.0 | Type A | 2x |
| USB 2.0 | Type A (e.g. for keyboard and mouse) | 4x |
| Monitor | Display port | 1x |
| Network | 100/1000 MBit fibre optic switchable, LC | 2x (1x "black" SINA CORE, 1x "red" for VoIP) |
| Temperature ranges | | |
| Operation | +5 °C to +40 °C | ✓ |
| Transport and storage | -20 °C to +60 °C | ✓ |

More information:
secunet.com/sina

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