SINA® Workstation E Client IV

Compact Crypto Client for the Medium Performance Class

Benefits:

» **Approved for German national VS-VERTRAULICH, NATO CONFIDENTIAL and CONFIDENTIEL UE/ EU CONFIDENTIAL**

» **System design for German national GEHEIM and MISSION SECRET (project-specific approvals)**

» **Intel® Core™ i5-CPU, 16 GB RAM and 24" TFT**

» **LWL- and Cu-network interfaces**

» **Multi session-enabled**

» **Compact, ergonomic design**

» **Economically-priced overall system**

The Client IV-based SINA Workstation E 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 Client IV-based SINA Workstation E 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 VS-VERTRAULICH. In addition, the SINA Workstation E Client IV is approved for NATO CONFIDENTIAL and CONFIDENTIEL UE/EU CONFIDENTIAL. The focus is on national and international military and governmental high-security networks.

Complementary to the SINA Workstation H Client III
The operational experience with the SINA Workstation 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 a client that was specially developed for the middle performance segment for load-intensive multi-session scenarios, which are characteristic of this application environment, and for the associated high demands on the hardware platform. Compared to the SINA Workstation H Client III, it has a somewhat more moderate dimension with an Intel® Core™ i5-processor. The dual configuration with a switchable LWL and a Cu network interface enables a high flexibility in the integration in heterogeneous network infrastructures. In addition, the Cu interface, for example, allows the connection of an IP telephone as a „red" network interface. The software-based cryptography of the Client IV-

based SINA Workstation E proves to be considerably more efficient compared to the AMN clients of the first generation. This is evident in the establishment of new security associations and VPN encryption. With regard to applications of graphic information systems, the user requirements for the SINA Workstation E Client IV are also met with the high-resolution 24" TFT displays.

Ergonomic system design

Compared with the SINA Workstation H Client III, the device generation of the Client IV-based SINA Workstation E has been designed much more compactly by integrating the basic device into a 24" TFT display. The new 24" TFT displays can now be adjusted in terms of height, inclination and viewing angle and offer a modern digital interface. This enables fatigue-free working with high resolution and clear image.

Virtualisation

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

Multimedia support

There is powerful HD video playback. The sound output can be used in all (active) sessions. Because of the sound issues relating to approval, sound input (via microphone) is still allocated to just one specific session. Isochronous USB devices (e.g. webcams) in particular are supported by the virtual machine. New releases benefit from USB optimisations of future versions of the virtual machine.

In addition, the SINA Workstation Client IV 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. In tests by the German Federal Armed Forces, it has been proven that the SINA Workstation supports applications such as video conferencing even with double-hop satellite connections.

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 E Client IV
Approval	German national VS-VERTRAULICH, NATO CONFIDENTIAL, CONFIDENTIEL UE/EU CONFIDENTIAL German national GEHEIM and Mission SECRET (project-specific approvals)
Boot integrity protection	coreboot
Software version	2.8
Manipulation protection	Manipulation protection by security labels
Emission protection	Zone 1
Authentication token	SINA Smartcard

Technical data

General data		
Size (W x H x D)	580 x 400 - 510 x 240 mm	■
Weight	11.6 kg (single monitor configuration)	■
	21.2 kg (dual monitor configuration)	■
Performance data		
CPU	Intel® Core™ i5 (2 core processors)	■
Working memory	16 GB RAM	■
Graphics	Intel® HD Graphics 4000	■
Boot medium	1 TB HDD	■
Sound	Integrated speakers	■
Power supply	110-240 V	■
Power consumption	80 W (single monitor configuration)	■
	120 W (dual monitor configuration)	■
Monitor		
Display	24" TFT-LCD active matrix, 16:10 (W x H: 550 x 360 mm)	1x or 2x
Resolution	1920 x 1080 (HD)	1x or 2x
Front interfaces		
USB 2.0	Type A	2x
Smart Card reader	SINA, PKIBw (Class 1)	2x
Audio	Jack (for head set)	■
Rear interfaces		
USB 3.0	Type A	4x
USB 2.0	Type A (e.g. for keyboard and mouse)	2x
Monitor	Display port for a second Zone 1 monitor	■
Network	100/1000 Mbit Cu	1x
	100/1000 Mbit LWL (interchangeable)	1x
Temperature ranges		
Operation	+5 °C to +40 °C	■
Transport and storage	-20 °C to +60 °C	■

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