

Siemens SCALANCE S615 LAN-Router for: MINDA Systems



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SINEMA Remote Connect – Management platform for Remote Networks

The management platform for remote networks, SINEMA Remote Connect, is a server application. With SINEMA Remote Connect, users can conveniently and securely maintain widely distributed systems or machines via remote access. Even if the machines are connected to external networks. For example, in the systems of end customers of machine builders. SINEMA Remote Connect ensures the secure management of tunnel connections (VPN) between the central office, the service technicians and the installed machines or systems. Communication between the participants is protocol-independent and IP-based. Direct access to the company network in which the system or machine is integrated is avoided. The service technician and the machine to be serviced establish a separate connection to SINEMA Remote Connect. There, the identity of the participants is determined via certificate exchange. Only then is remote access to the machine possible.

The connection to SINEMA Remote Connect can be established via various media such as mobile radio, DSL or existing private network infrastructures. For connection to remote networks, Siemens offers a broad portfolio of industrial routers of the SCALANCE family. With the installation of the SINEMA Remote Connect Client, an address book function is available. All machines and systems can be uniquely identified and selected for management via SINEMA Remote Connect. This is a decisive advantage in series machine construction - with the same machines and IP addresses.

Remote maintenance via Siemens SCALANCE S615

The S615 requires access to the Internet in order to connect to the SINEMA Remote Control Server at MINDA.

Destination: https://sinema.minda.de (217.89.43.245) with outgoing ports:

TCP 443

TCP 5443 for OpenVPN

UDP 1194 for OpenVPN

TCP 6220 for certificate exchange

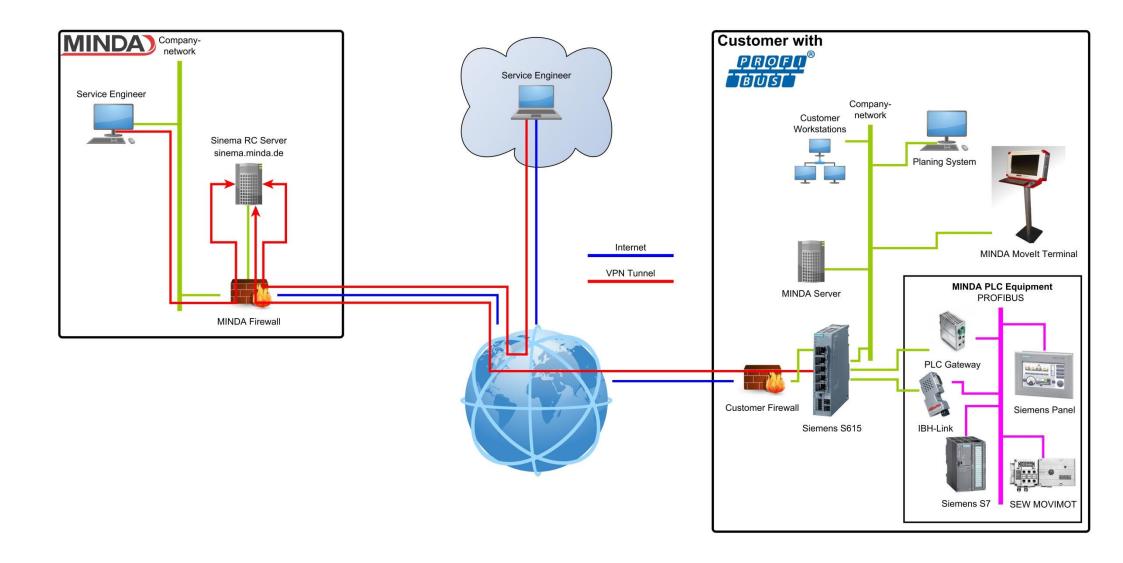
UDP 123 for NTP

Via the 2-pole signal in- and outputs, remote maintenance can optionally be activated / deactivated via key switch and an active connection is signaled.

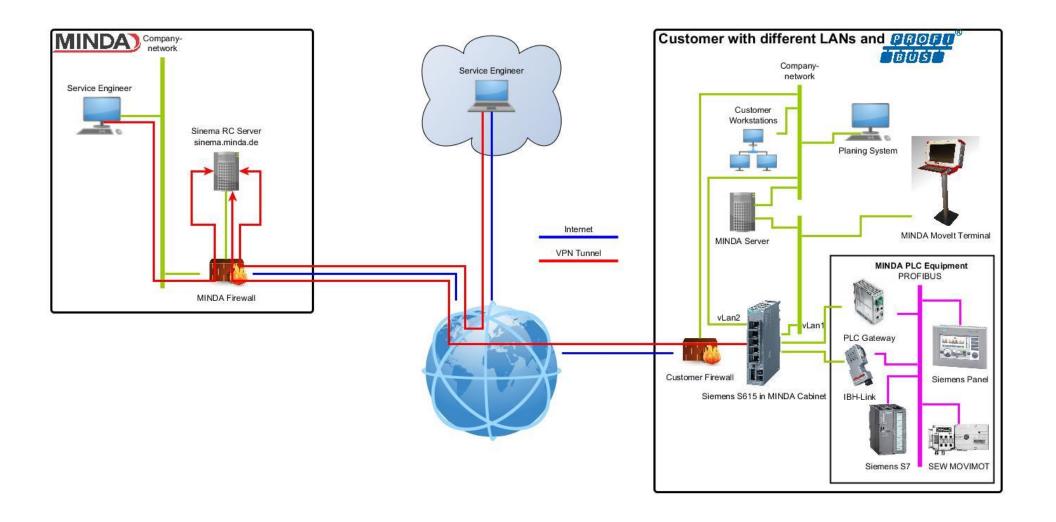
- No leakages in the firewall required (incoming rules)
- Only one type of connection for MCS and PLC remote maintenance
- Server is at MINDA, thus no dependence on third parties
- No system maintenance customer-supplied
- Sharing of individual IP addresses or entire network segments possible

Following you will find a few configuration examples.

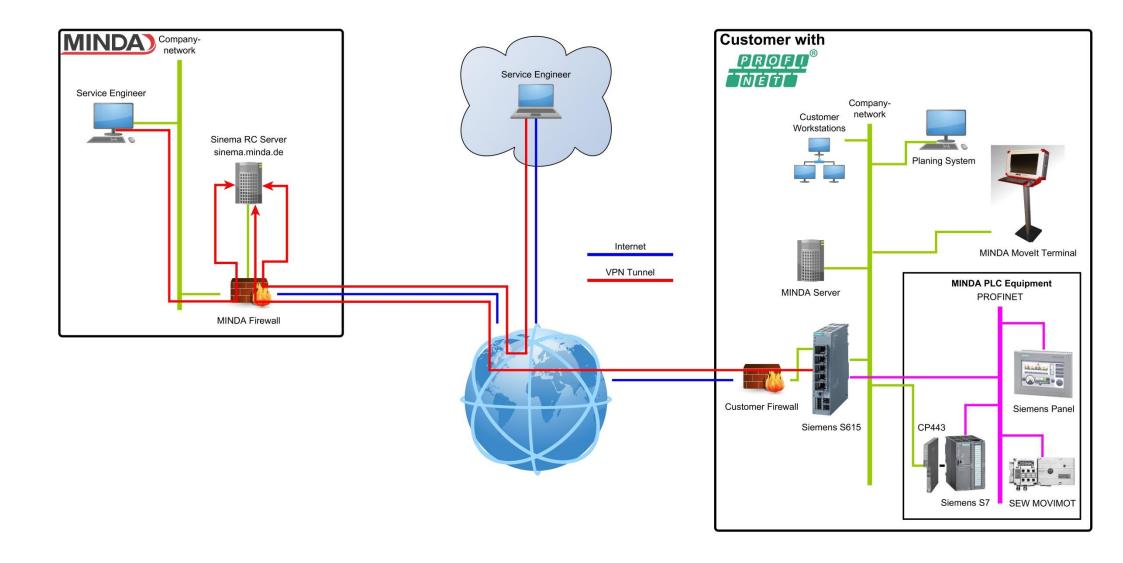
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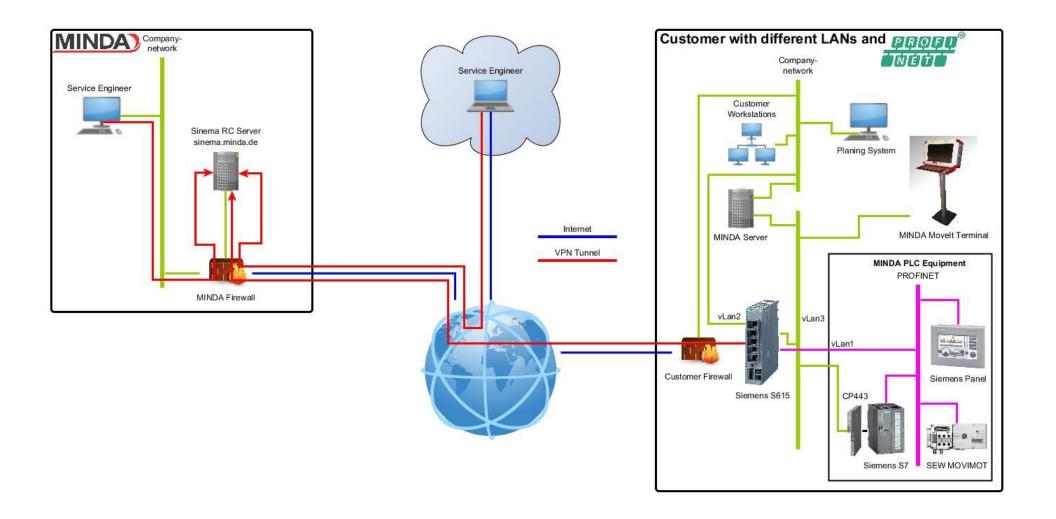
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Technical specifications:

Transmission rate	
Transfer rate	10 Mbit/s, 100 Mbit/s
Interfaces	
Number of electrical/optical connections / for network	5
components or terminal equipment / maximum	
Number of electrical connections	
for power supply	1
 for redundant voltage supply 	1
Type of electrical connection	
for internal network	RJ45 port
 for external network 	RJ45 port
for power supply	5-pole terminal block
design of the removable storage / C-PLUG	Yes
Signal-Inputs/outputs	
Number of electrical connections	
 for digital input signals 	1
	1
Type of electrical connection	
for digital input signals	2-pole terminal block
	2-pole terminal block
Supply voltage, current consumption, po	-
Supply voltage / external	24 V
Supply voltage / external	10.8 28.2 V
Type of voltage / of the supply voltage	DC
Consumed current / maximum	0.2 A
Product component / fusing at power supply input	Yes
Fuse protection type / at input for supply voltage	Non-replaceable melting fuse (F 2 A5 / 32 V)
Power loss [W]	
• at DC / at 24 V / typical	4 W
Permitted ambient conditions	
Ambient temperature	
during operation	-40 +70 °C
during storage	-40 +80 °C
during storage during transport	-40 +80 °C
Relative humidity / at 25 °C / without condensation / duri	
operation / maximum	119 00 70
Protection class IP	IP20
Design, dimensions and weight	
Design Design	compact
Width	35 mm
Height	147 mm

Design	compact
Width	35 mm
Height	147 mm
Depth	127 mm
Net weight	0.4 kg
Mounting type	
 35 mm DIN rail mounting 	Yes
 S7-300 rail mounting 	Yes
 S7-1500 rail mounting 	Yes

Product functions / management, configuration

Product function

• CLI	Yes
 web-based management 	Yes

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MINDA remote support MIB support Yes Protocol / is supported • HTTP Yes • SNMP v1 Yes • SNMP v2 Yes SNMP v3 Yes Web Based Management, CLI, SNMP, SCT (Configuration support Type of configuration for certificate generation) **Product functions / Diagnosis** Product function SysLog Yes Packet Filter Log Yes Audit Log Yes • System log Yes **Product functions / DHCP** Product function DHCP client Yes • DHCP server - internal network Yes **Product functions / Routing** Product function / Static IP routing Yes **Product functions / Security** Firewall version stateful inspection Product function / with VPN connection IPSec, OpenVPN (as Client for SINEMA RC) Type of encryption algorithms / with VPN connection AES-256, AES-192, AES-128, 3DES-168, DES-56 Type of authentication procedure / with VPN connection Preshared key (PSK), X.509v3 certificates Type of hashing algorithms / with VPN connection MD5, SHA-1 Number of possible connections / with VPN connection 20 Product function • Password protection Yes Bandwidth limiting No NAT/NAPT Yes **Product functions / Time** Protocol / is supported / NTP Yes Product component / Hardware real-time clock Yes Product feature / Hardware real-time clock w. battery No backup Standards, specifications, approvals Standard • for FM FM-CoC 3021712 • for hazardous zone EN 60079-15, EN 60079-0, II 3 G Ex nA IIC T4 Gc, KEMA 07ATEX0145 X • for safety / from CSA and UL UL E115352 (NWGQ, NGWQ7) • for emitted interference EN 61000-6-4 for interference immunity EN 61000-6-2 Certificate of suitability ATEX, EMV, RoHS, Marine classification in preparation Certificate of suitability CE marking Yes Marine classification association • American Bureau of Shipping Europe Ltd. (ABS) No • Bureau Veritas (BV) Nο • Det Norske Veritas (DNV) Nο • Germanische Lloyd (GL) No • Lloyds Register of Shipping (LRS) Yes

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Nο

Nippon Kaiji Kyokai (NK)



Polski Rejestr Statkow (PRS)
 Royal Institution of Naval Architects (RINA)
 MTBF / at 40 °C
 55 y

Accessories

Product extension / optional / C-PLUG Yes
Product extension / optional / KEY-PLUG Yes

accessories KEY-PLUG

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