



MINDA Industrieanlagen GmbH

Remote Support Solution

SIEMENS SINEMA Remote Connect

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1. Scope of this document

This document describes the secure setup at MINDA and the technical specifications and functions of the Siemens Cinema system.

2. SINEMA Remote Connect system

SINEMA Remote Connect is a management platform developed by Siemens that streamlines secure, centralised remote access to industrial assets worldwide. Developed by Siemens, it is a management platform that enables secure, global remote access to distributed machines and plants. It provides a centralised solution for remote maintenance and teleservices by establishing encrypted VPN connections, which allow authorised users to access control systems and devices, regardless of their network environment. The system uses a server-client architecture in which a central SINEMA RC server manages VPN tunnels to client devices, including SCALANCE routers and automation components. Technicians can connect to the server to access remote systems without the need for complex network configurations.

3. SINEMA Remote Connect Server

The SINEMA Remote Connect server is the heart of the entire system. It is self-hosted at our MINDA headquarters in Germany. No third parties are involved in managing the server, and there are no connections to a cloud system. The server is responsible for the following tasks:

- Managing all connections from SCALANCE S615 VPN routers and technicians.
- Ensuring the separation of every customer network, regardless of IP configuration.
- Roll out firmware updates for the VPN routers.
- Annually updating the VPN certificates.
- Managing users and rights.
- Encrypting all network traffic between clients

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4. SCALANCE S615 VPN router

The SCALANCE S615 VPN router forms the backbone of the MINDA remote support solution at our customers' sites. This device enables MINDA to connect to the on-site MINDA server and, if necessary, to the PLC, providing the full range of remote support possibilities. MINDA will configure and maintain the router. There is no need to open incoming connections on the customer's firewall; the router only establishes outgoing connections to the SINEMA Remote Connect Server.



5. Cryptography and the use of VPN tunnels

The VPN tunnel is based on OpenVPN. Encryption is performed using TLS 1.2 with an SHA256 certificate with RSA encryption. The certificate is switched annually.

6. Identity and MFA

Every technician has a personalised account which is limited to connecting to the systems they need access to. Multifactor authentication is carried out via multiple layers. The technical device must be part of the MINDA domain, where MFA is handled via 'Windows Hello' and the Authenticator app. On top of this, there is also a separate login for the SINEMA system.

7. Operational control of the VPN tunnel

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The SCALANCE S615 VPN router can be equipped with a key switch to enable the operator to activate the VPN tunnel for remote support. The active connection is also signalled. The key switch can also be used to cut the connection in an emergency.

8. Network segmentation and least privilege

There are endless ways to manage access to our customer networks, ranging from entire subnets to individual IP addresses and ports.

9. Logging and traceability

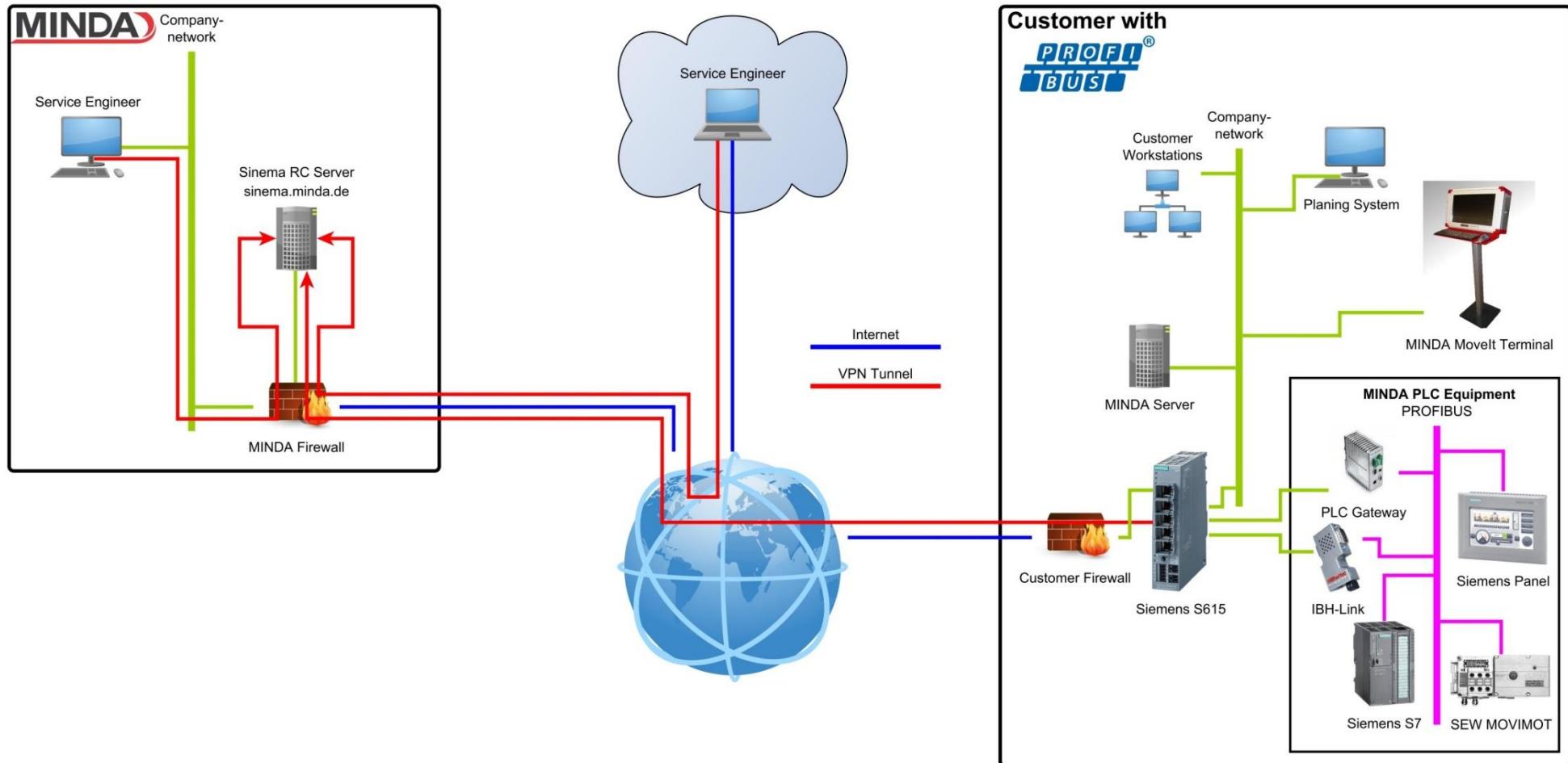
The SINEMA Remote Connect system logs all connections established from any device or technician.

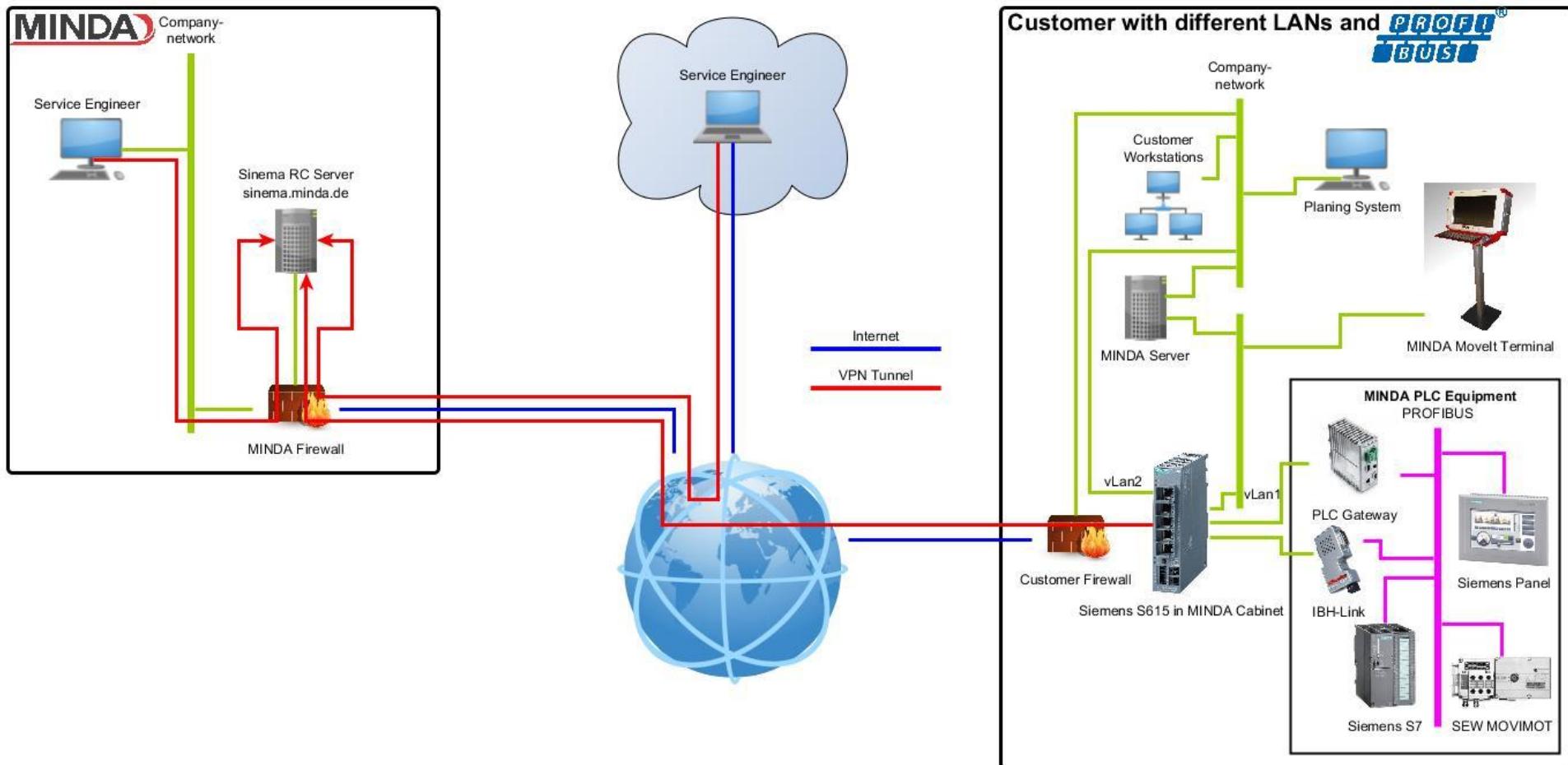
10. Network requirements

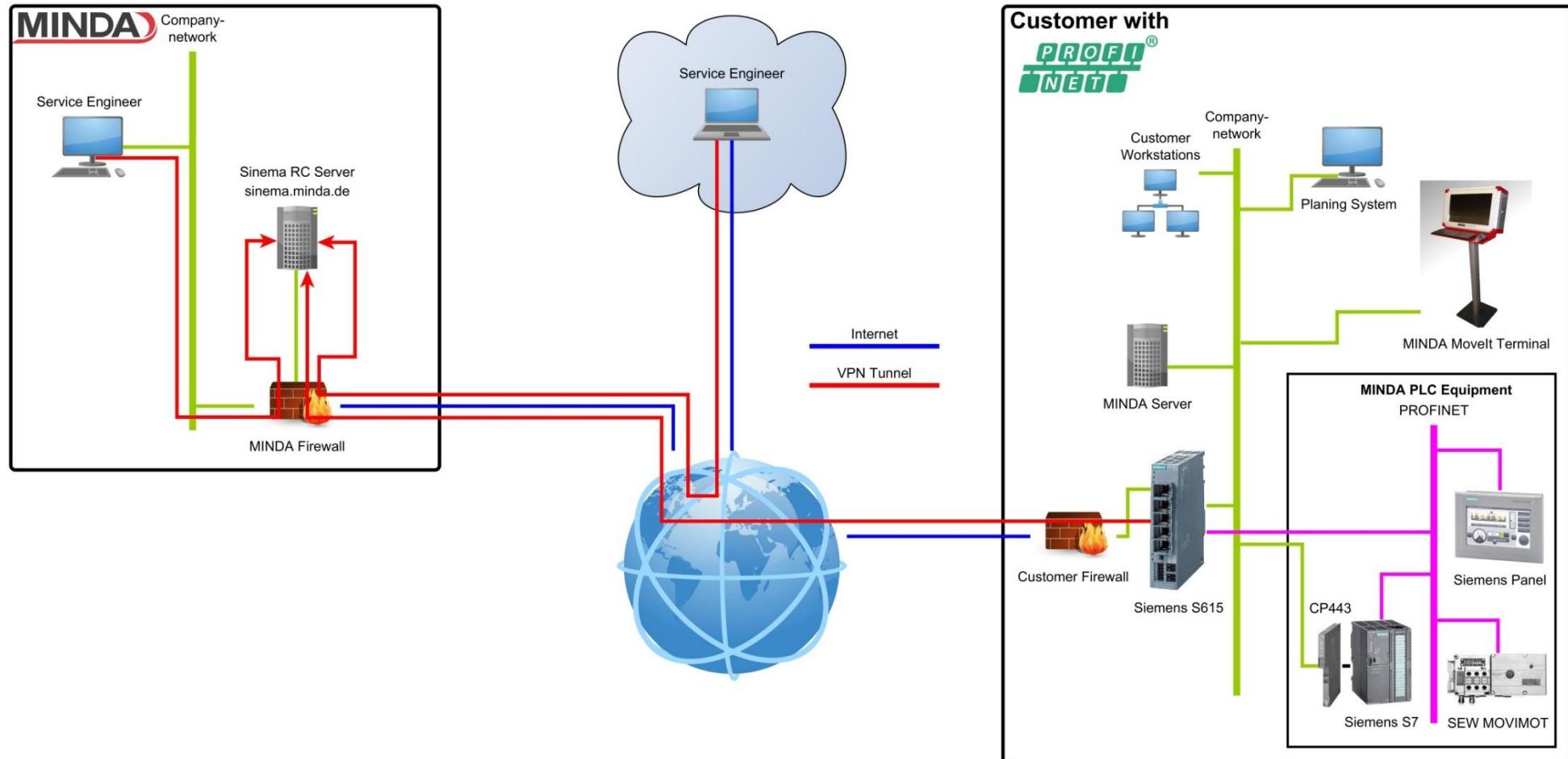
The SCALANCE S615 VPN router requires access to the following ports on the address <https://sinema.minda.de> (217.89.43.245):

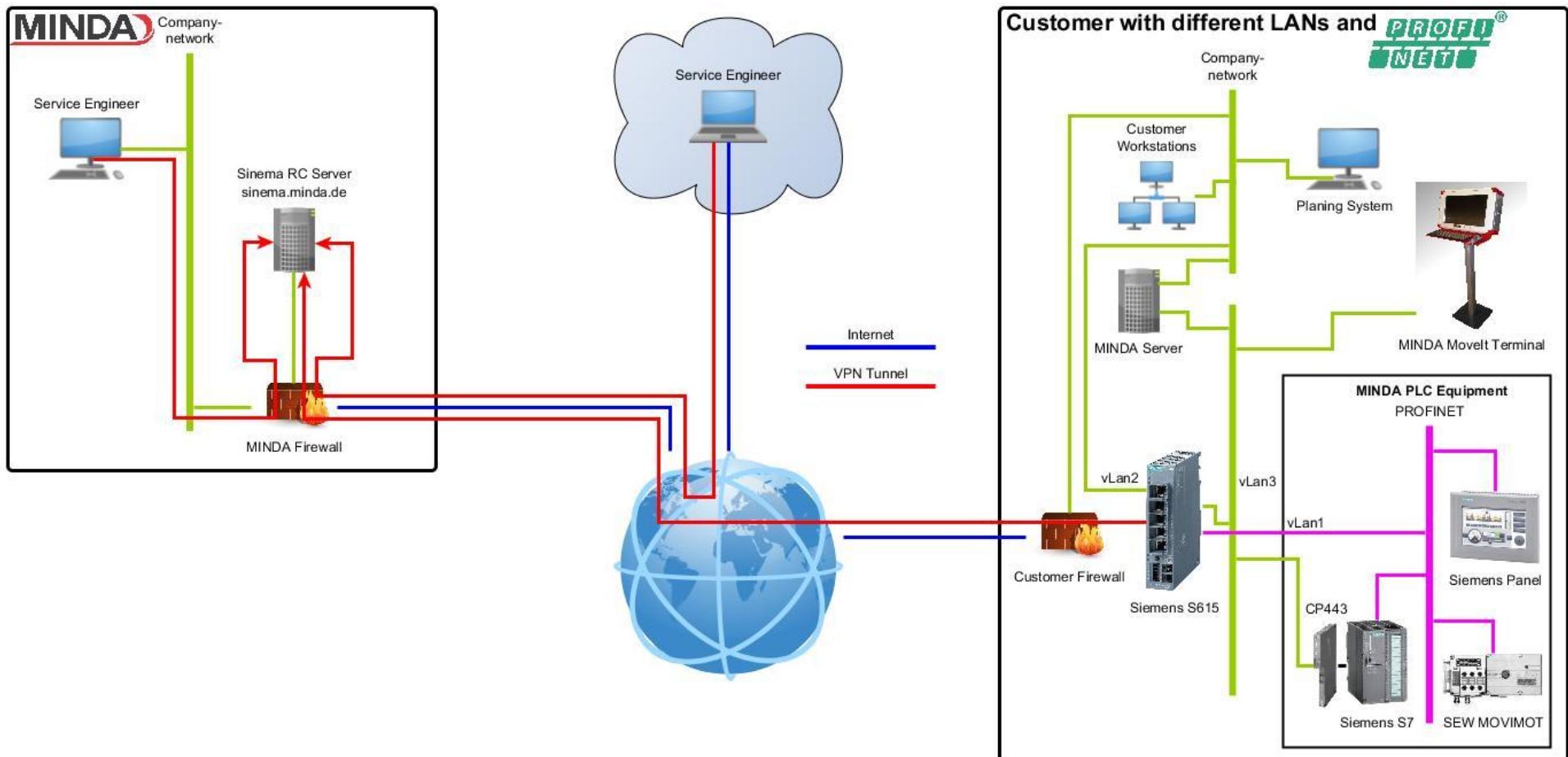
Protocol	Port	Description
TCP	443	
TCP	5443	OpenVPN
UDP	1194	OpenVPN
TCP	6220	Certificate exchange
UDP	123	NTP

11. Setup examples









12. Technical specifications for SCALANCE S615

transfer rate

transfer rate 10 Mbit/s, 100 Mbit/s

interfaces

number of electrical/optical connections / for network components or terminal equipment / maximum

number of electrical connections

- for power supply 1
- for redundant voltage supply 1

type of electrical connection

- 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
- for digital output signals 1

number of electrical connections

- for digital input signals 2-pole terminal block
- for digital output signals 2-pole terminal block

supply voltage, current consumption, power loss

type of voltage / 1 / of the supply voltage DC

supply voltage / 1 / rated value 24 V

power loss [W] / 1 / rated value 4 W

supply voltage / 1 / rated value 10.8 ... 28.8 V

consumed current

- at DC / at 24 V / typical 0.2 A

product component / 1 / fusing at power supply input Yes

fuse protection type / 1 / at input for supply voltage Non-replaceable melting fuse (F 2 A5 / 32 V)

ambient conditions

ambient temperature

- during operation -40 ... +70 °C
- during storage -40 ... +80 °C
- during transport -40 ... +80 °C

relative humidity / at 25 °C / without condensation / during operation / maximum

95%

protection class IP IP20

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design, dimensions and weights

design	compact
width	35 mm
height	147 mm
depth	127 mm
net weight	0.4 kg
fastening method	
• 35 mm top hat DIN rail mounting	Yes
• S7-300 rail mounting	Yes
• S7-1500 rail mounting	Yes

product functions / management, configuration, engineering

product function	
• CLI	Yes
• web-based management	Yes
• MIB support	Yes
protocol / is supported	
• HTTP	Yes
• SNMP v1	Yes
• SNMP v2	Yes
• SNMP v3	Yes
type of configuration	Web Based Management, CLI, SNMP, SCT (Configuration support for certificate generation)

product functions / diagnostics

product functions / diagnostics 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
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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	Preshared key (PSK), X.509v3 certificates

connection

type of hashing algorithms / with VPN MD5, SHA-1, SHA-256, SHA-384, SHA-512

connection

number of possible connections / with VPN 20

connection

product function

- password protection Yes
- bandwidth limitation 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 backup No

standards, specifications, approvals

standard

- for FM FM16US0205X
- for safety / from CSA and UL UL 60950 E115352
- for emitted interference EN 61000-6-4
- for interference immunity EN 61000-6-2

certificate of suitability ATEX, EMC, RoHS

- CE marking Yes

reference code

- according to IEC 81346-2:2019 KED

product function / is supported / Yes

identification link

standards, specifications, approvals / marine classification

Marine classification association

- American Bureau of Shipping Europe Ltd. (ABS) Yes
- French marine classification society (BV) Yes
- DNV GL
- Korean Register of Shipping (KRS) Yes
- Lloyds Register of Shipping (LRS) Yes
- Nippon Kaiji Kyokai (NK) Yes
- Polski Rejestr Statkow (PRS) Yes
- Royal Institution of Naval Architects (RINA) Yes

standards, specifications, approvals / hazardous environments

standard / for hazardous zone	EN 60079-15, EN 60079-0, II 3 G Ex nA IIC T4 Gc, KEMA 07ATEX0145 X
certificate of suitability / CCC / for hazardous zone according to GB standard	Yes; GB3836.1, GB3836.8
certificate of suitability / CCC / for hazardous zone according to GB standard / as marking	Ex nA IIC T4 Gc

standards, specifications, approvals / Environmental Product Declaration

Environmental Product Declaration	Yes
Global Warming Potential [CO2 eq]	
• total	141.25 kg
• during manufacturing	15.64 kg
• during operation	125.19 kg
• after end of life	0.42 kg

accessories

product extension / optional	
• C-PLUG	Yes
• KEY-PLUG	Yes
accessories	optional KEY-PLUG