SBC connectivity

Secure connections for Saia PCD®

SCADA PG5

VPN

SBC connectivity

VPN   VPN   VPN

EBW-E100   EBW-E100   EBW-H100
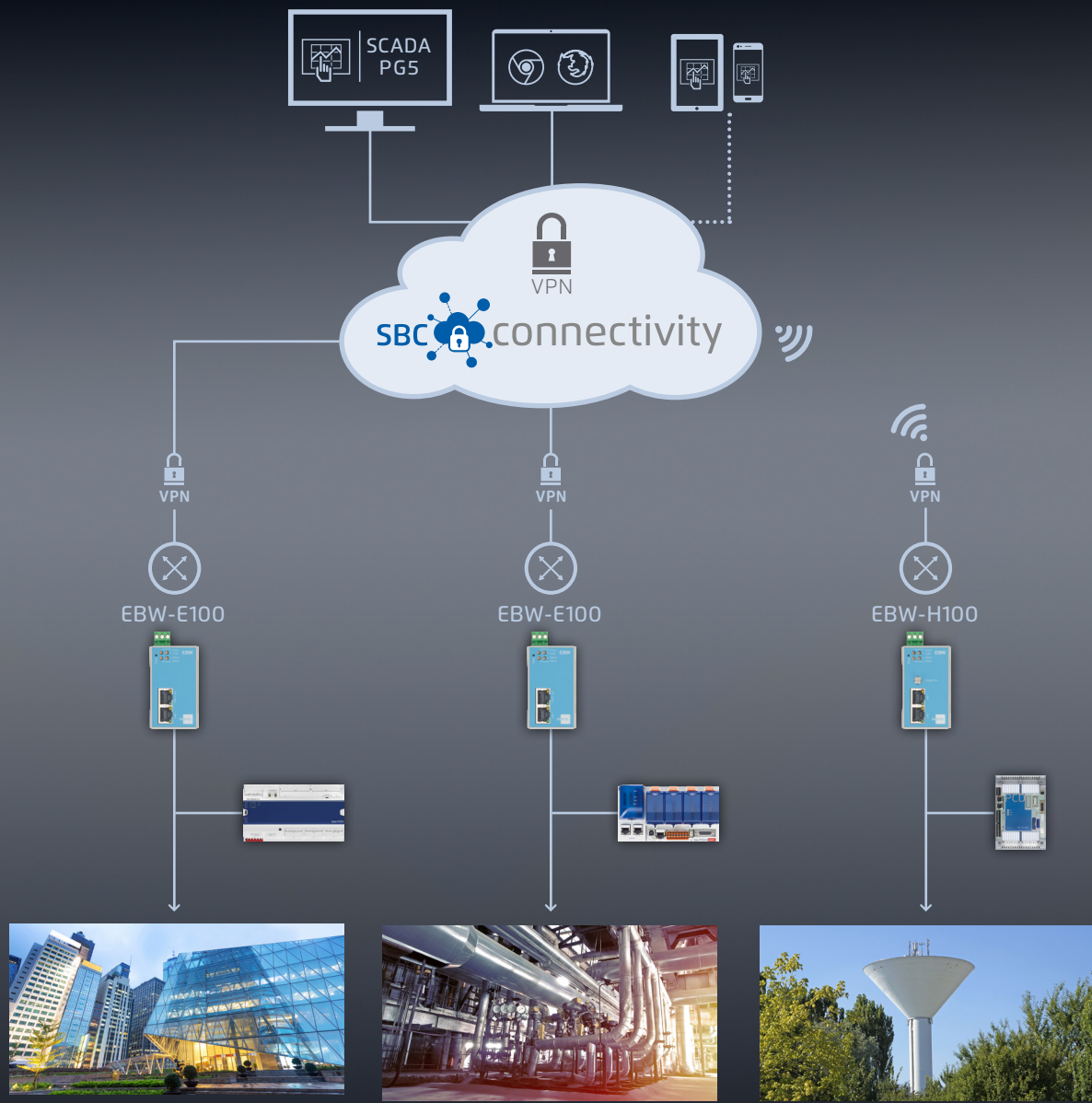
Remote monitor and manage properties: Saia PCD controllers are securely connected to your VPN network via a LAN-LAN router.

Remote maintain and manage industrial systems with SBC Connectivity: you have secure access to process and system data at all times.

Remote installations are connected to the Connectivity Portal via mobile telephony with the EBW-H100 (3G/HSPA, GPRS/EDGE) routers.

# Secure connection of distributed systems with SBC Connectivity

With the SBC Connectivity Portal, you remain in control when transferring data – with minimal investment. The Connectivity Portal allows you to connect geographically distributed systems so that they can communicate with each other or be remote monitored and remote managed. In just a few simple steps, you can set up your own encrypted VPN and integrate local Saia PCD controllers, web panels, computers, tablets and smartphones. A public IP address and in-depth network expertise are not required.

SBC Connectivity Portal
Everything secure and under control

Saia PCD controllers and LAN networks at distributed sites are connected to the Connectivity Portal via secure VPN connections. With the web browser (SSL) or the Saia PG5 (VPN) and the SCADA system (VPN), you have secure access to the connected Saia PCD controllers anywhere and at any time.
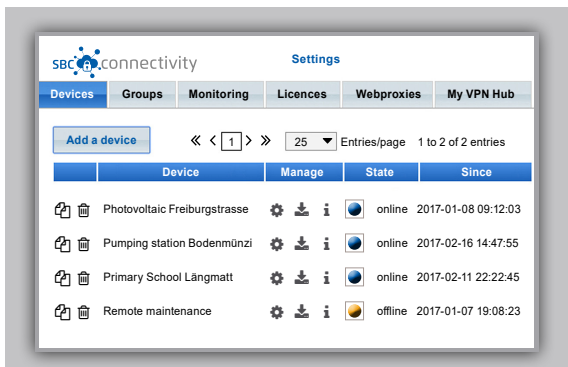
Straightforward configuration and management
Quick, easy and secure

You configure and manage the connections yourself online in the web browser. Simply register and log in, configure the router and connect – and you can then use the secure connection for remote access to the Saia PCD controller straight away. You can also configure groups. Test licences for 4 VPN connections are available free of charge for 30 days. You can then easily order a year's license.

Secure VPN connections
Protect your data

With «SBC Connectivity» you are given your own encrypted VPN which complies with the latest security standards (SSL, Open-VPN). The necessary certificates are generated by the portal itself and are automatically assigned to the routers. A public IP address and in-depth network expertise are not required.

VPN routers
Available directly from SBC

Saia PCD controllers and local private networks are securely connected to the Connectivity Portal via VPN routers.
The easiest way is to use the following router types:
Q.NET-EBW-E100: LAN router
Q.NET-EBW-H100: 3G/HSPA router

The routers and the portal are optimally tailored to each other. As a result, configuring and managing your VPN network and device is very easy. Naturally, the routers can also be used without the Connectivity Portal. Likewise, the Connectivity Portal is compatible with all OpenVPN-capable routers.

Useful information about the SBC Connectivity Portal

▸ Secure operation in computer centre in Germany
▸ Certificate-based authentication (X.509)
▸ Redundant Internet access increases availability
▸ Network monitoring for VPN clients and end devices

▸ Automatic production, management and exchanging of certificates
▸ Simple grouping and connection control

VPN routers

Function	IPv4/IPv6 router, connection management, DHCP server and client, full NAT (IP forwarding, port forwarding, net mapping), DNS relay, dynDNS support, PPPoE for ADSL modem via LAN (ext), dial-out, dial-in, callback
Security	OpenVPN (client and server), IPsec (ESP normal/aggressive mode), GRE, PPTP, stateful firewall and MAC filter, RADIUS authentication, 10 users for dial-in, authentication via PAP/CHAP/MS-CHAP/MS-CHAP 2, dialling filter for dial-out, link loss detection, failed login detection, No Backdoor
Power supply	10…48 VDC (±20%)
Fixing/protection class	Mounting on DIN top-hat rail / housing: IP40, terminals: IP20
Approvals	CE, EBW-E100 and EBW-H100, plus: IC and FCC part 15 class A
Applied norms	Radiation: EN 55022 Class B, EN 61000-6-3 / interference immunity: EN 55024, EN 61000-6-2 Security: EN 60950-1 (except EBW-E, not necessary)
Dimensions (W × H × D)	45 × 70 × 110 mm (2.6 HP)

EBW-E | Ethernet

Additional function	PPPoE for ADSL modem via LAN (ext) (from 01/2016 for all EBW variants)
Power consumption	Approx. 2 W
Operating temperature	−30…+70 °C

EBW-H | Mobile telephony (HSPA)

Networks	2G: 850, 900, 1800, 1900 MHz; GSM/GPRS/EDGE Class 12 / 3G: 800, 850, 900, 1900, 2100 MHz; UMTS/HSPA 3GPP Release 6, 7 DL 14.4 Mbps, UL 5.7 Mbps
Antenna connection	SMA female
SIM	1 slot for mini SIM card
Power consumption	Approx. 2 W (logged in), max. 5 W (data transmission)
Operating temperature	−30…+60 °C
Applied wireless norms	EN 301489-1, EN 301489-7, EN 301489-24, EN 301511

Order information

Q.NET-CON	Year's license for a VPN access point to the SBC Connectivity Portal
Q.NET-EBW-E100	Industrial LAN router for VPN connection
Q.NET-EBW-H100	Industrial 3G/HSPA Router for VPN connection
PCD7.K840	GSM/UMTS (850/900/1800/1900/2100 MHz) antenna with magnetic base and SMA plug