

- PREDICTIVE MAINTENANCE AND DIAGNOSTIC
- REMOTE ASSISTANCE
- REMOTE SOFTWARE UPDATE
- DATA AND PLANTS ACCESS IN "SINGLE LAN" AND "POINT-TO-POINT" MODE

LET'S is the SENECA VPN - IoT platform that reduces maintenance costs for automation applications and machines and plants managament, offering an integrated connectivity on 3 levels: data remote access, programmable control, network monitoring. Based on the VPN BOX Server module, LET'S allows "Always ON" connections (Telecontrol / Single LAN mode) for plant supervision or "On Demand" connections

(Remote Assistance / Poin-to-Point mode) to third-party machines and devices and for services maintenance or data storage. Communication from a PC or mobile device is via desktop software or APP VPN Client Communicator. The industrial VPN IoT gateway of LET'S platform extend the serial networks over Ethernet, as well as support complex architectures and safety critical applications. The Z- PASS2 model, with built-in

3G + / 4G LTE modem, also works as a router, DynDNS Server and a redundant communication device. One of the main innovations of the platform is the integration of the remote access functions with those of programmable automation thanks to the SENECA controllers based on IEC 61131 standard.

HIGHLIGHTS



Buil-t-in programmable I/O



PLC and thirdy parts devices integration



PLC / SoftPLC IEC 61131 - Straton



R/W Simatic PLC S7 Protocol



Server in House (HW/SW/Virtual Machine)



VPN based on **OpenVPN standard**



Single LAN / P2P (Telecontrol / Remote Assistance)



Mobile App for VPN client



Datalogging



alarm management



Modbus support



(RS232, RS485, custom)









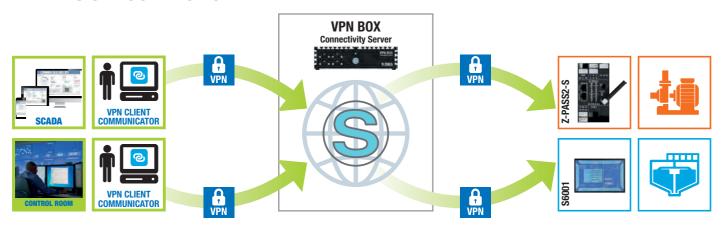
SINGLE LAN / TELECONTROL CONNECTION

In Telecontrol / Single LAN mode (Always ON connection) VPN BOX works like a network server which is assigned a static public IP. Communication is simultaneous and always active between all remote sites and the server, as well with the different subnets that are part of the overall system. This kind of connection is ideal for real-time monitoring and implementation of supervision systems.

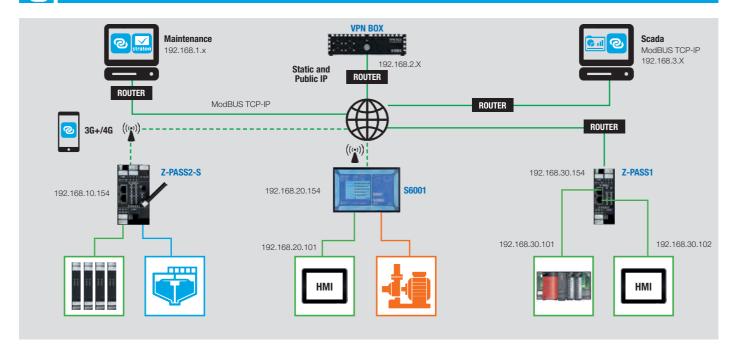
Typical application	Monitoring, maintenance, supervision, data acquisition, local automation, alarm management ALWAYS ON. Synchronous and active connection on all remote sites. Connection among different networks (i.e. 192.168.30.x, 192.168.40.x) by VPN		
Connection mode			
VPN subnet communications	Yes, visible/accessible plants by all VPN clients		
Subnets access	By local addres		
Multi-user management	No		
Network configuration	Different on different sites		
Supported SIM	All		
Benefits	 Remote and synchronous access on different plants. Field equipment remote query Heterogeneous network integration 		

LOGIC MODEL

«ALWAYS ON» CONNECTION



SINGLE LAN / TELECONTROL SCENARIO

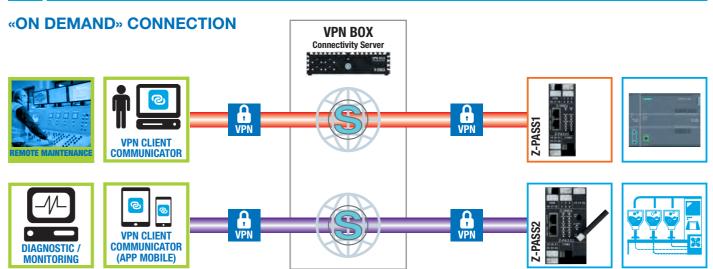


POINT-TO-POINT / REMOTE ASSISTANCE CONNECTION

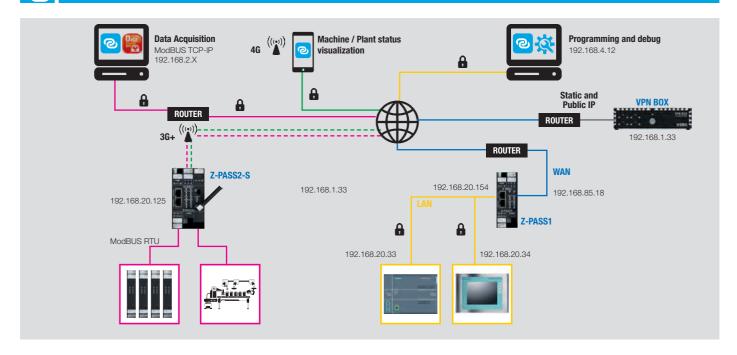
In Remote Assistance / Point-To-Point mode (ON Demand connection) VPN BOX works as a concentrator and it provides a point-to-point communication between PCs (or device mobile) and machine / plant. It also requires the assignment of a static and public IP or possibly a DynDNS address. Ideal for maintenance and remote diagnostics applications, this type of connection allows the simultaneity. of different users.

Typical application	Maintenance, diagnostic, start-up and commissioning plant, real-time customer assistance		
Connection mode	ON Demand. P2P connection between PC-User and device/ machine. On demand and asynchronous connection for different sites.		
VPN subnet communications	No		
Subnets access	By local address		
Multi-user management	YES		
Network configuration	Same on different sites (i.e. 192.168.20.x)		
Supported SIM	All		
Benefits	 Logistics maintenance and cost reduction Machines remote control User profiling 		

LOGIC MODEL



POINT-TO-POINT / REMOTE ASSISTANCE SCENARIO



LET'S - IOT CONNECTIVITY SOLUTIONS



VPN SERVER / CONNECTIVITY MODULE



Connection Management

- Server installed on customer's network with static public IP
 Remote Assistance / Point-to-Point and Telecontrol/ Single LAN remote connection modes
 Up to 496 supported devices in Single LAN mode, virtuallyunlimitedin Point-To-Point modent

System Configuration

- VPN BOX registrationclient throughcertificatesand password authentication
- Server Configuration with free specific software
- EnabilingSSL/TSL security for remote access connections
- Update via USB Flash drive

Versions

- Device / Appliance HWSoftware / Virtual Machine

VPN CLIENT GATEWAYS / ROUTERS



FUNCTIONS	Z-PASS1	Z-PASS2
ModBUS Gateway (from Modbus TCP to Modbus RTU)	X	Х
ModBUS Gateway Shared memory	X	Х
ModBUS calling optimization	X	X
Serial communication diagnostic	Χ*	Χ*
Reverse Modbus Gateway (from Modbus RTU to Modbus TCP)	Χ*	Χ*
Client Modbus TCP (Gateway Shared Memory)	Χ*	Χ*
Remote / Virtual COM Port	X	X
Serial Tunnel Point-To-Point (TCP-UDP) / Point-To-Multi-Point (UDP)	X	X
3G+ / 4G Router (DHCP Server, Firewall, DynDNS)		Χ
Network Redundancy		Χ
Client OpenVPN Standard	X	Χ
Client VPN BOX for Always ON connection	X	Χ
Client VPN BOX for ON Demand connection	X	Χ
Built-in Web Server	X	Χ
Neb pages security	Basic Authentication	Basic Authentication
Ethernet LAN/WAN	X	Χ
Ethernet SWITCH	X	Χ
Built-in I/O	4	6
Firmare/configuration update via USB	X	Χ
Remote connection block	X	X
Data Logging	X*	Χ*
Modbus IO/Tag management via SMS	Χ*	Χ*

X* *function available before Q2 2018

VPN CLIENT CONTROLLERS



FUNCTION	Z-TWS4	Z-PASS2-S	S6001-RTU	S6001-PC
Modem / Router	-	3G+ / 4G	3G+	3G+
Ethernet ports	2	2	1	1
Serial ports	3	3	3	3
USB ports	1	1	1	1
Industrial protocols	ModBUS RTU/TCP-IP, CAN	ModBUS RTU/TCP-IP	ModBUS RTU/TCP-IP	ModBUS RTU/TCP-IP (only slave)
IT protocols	http, ftp, smtp	http, ftp, smtp, ppp	http, ftp, smtp, ppp	http, ftp, smtp, ppp
Energy protocols	IEC 60870-101/104, IEC 61850 (opt.)	IEC 60870-101/104, IEC 61850 (opt.)	IEC 60870-101/104, IEC 61850 (opz.)	-
OpenVPN - VPN BOX support	X	Х	Χ	Х
VPN / Telecontrol - Single LAN	X	X	X	Х
VPN / Remote Assistance - Point-To-Point	X	Х	Х	Х
Built-in I/O	Nr.1DI/DO (VPN connection) Nr.1DI/DO (general use) Nr. 2DI/DO (programmable)	Nr.1 DI (VPN connection) Nr.1 DI (general use) Nr.1 DO (VPN connection) Nr.1 DO (general use) Nr.2 DV/DO (programmable)	Nr.15+2DI, Nr.8DO, Nr.4AI, Nr.2AO	Nr.15+2DI, Nr.8DO, Nr.4AI, Nr.2AO
Sfoftware	Straton, ZNET4	Straton, ZNET4	Straton, ZNET4	HMI
OEM Straton libraries	X	Х	Х	-

PROGRAMMING TOOLS





WEB SERVER

WEBSERVER

- Network, gateway, router configuration
- VPN Client configuration
- RTC configuration
- Firmware update



OPENVPN (App PC and Mobile)

- Client Open VPN flexible configuration
- Client authentication
- TUN, TAP interface support







VPN CLIENT COMMNICATOR (App PC and Mobile)

- P2P/SINGLE LAN connection mode
- Authentication credentials
- Certificates auto installation





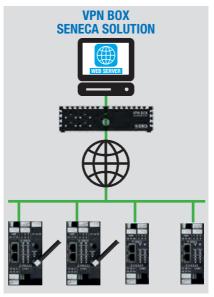


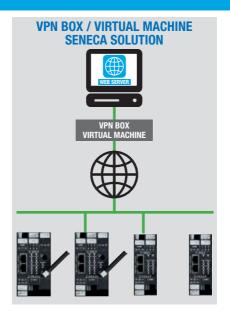
STRATON

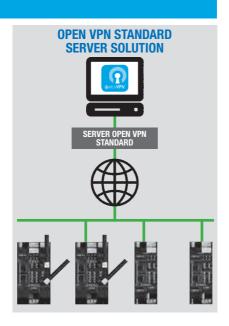
- Control SoftPLCaccording to IEC
- R/W functions by PlcSiemens with S7 Protocol

LET'S - IOT CONNECTIVITY SOLUTIONS

P VPN SOLUTIONS







APPLICATION AREAS





TRAFFIC & TRANSPORT







ENERGY







VIDEO SURVEILLANCE & SECURITY



ORDER CODES

INTEGRATION WITH IT SYSTEMS



OIL & GAS



ORDER CODES

Code	Description
GATEWAY / ROUTER	

VPN Industrial Gateway - Serial Device Server, 1DI, 2DO, 1DI/DO VPN Industrial Gateway - Serial Device Server, 2DI, 2DO, 2DI/DO, worldwide modern, 3G+/ Z-PASS1-IO

Z-PASS2-IO Ethernet Router, GPS VPN Industrial Gateway - Serial Device Server, 2DI, 2D0, 2DI/D0, 4G Ethernet Modem / Router, Z-PASS2-IO-4G-EU

SERVER VPN

VPN BOX VPN Server for Point-to-Point / Single LAN connections VPN BOX VM VPN Server Virtual Machine for Point-to-Point / Single LAN connections

VPN BOX-D VPN BOX Point-to-Point service, 30 day free trial up to 2 devices VPN BOX VM-D VPN Server Virtual Machine for Point-to-Point / Single LAN connections up to 2 devices

VPN CC VPN Client Communicator, remote access software

VPN CC APP VPN Client Communicator, mobile app

VPN MULTIFUNCTION CONTROLLERS

Z-TWS4-L-IO IEC 61131 multifunction controller, built-in I/O, Linux based, OEM version EC 6131 multifunction controller, built-in V0, workbench Straton, 0EM version
IEC 61131 multifunction controller, built-in I/0, workbench Straton, 0EM version
VPN Straton, 0EM version, energy
protocols (IEC 60870-5-101, IEC 60870-5-104, IEC 61850)
VPN Straton Remote Controller, 2DI, 2D0, 2DI/D0, worldwide modern, 3G+/Ethernet Router Z-TWS4-S-I0 7-TWS4-F-I0 Z-PASS2-S-IO

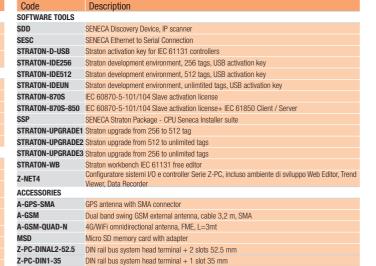
VPN Straton Remote Controller, 2DI, 2DO, 2DI/DO, worldwide modem, 3G+/Ethernet Router, Z-PASS2-S-IO-E GPS, energy protocols 7-PASS2-SI04GFII VPN Straton Controller, 2DI, 2DO, 2DI/DO, modem 4G/Ethernet Router, GPS Z-PASS2-SI0E4GEU VPN Straton Controller, 2DI, 2DO, 2DI/DO, 4G Modem/Ethernet Router, GPS, energy protocols

S6001-PC Advanced Pump Controller with 7" HMI S6001-RTU Remote Control Unit with built-in IO and 3G+ modem

S6001-RTU-E Remote Control Unit with built-in IO, 3G+ modem, Energy Management protocols Controllore pompe con I/O integrato, sistema di programmazione Straton e HMI 7" S6001-PC S6001-RTU All-in-one RTU con I/O integrato, modem 3G e sistema di programmazione Straton

All-in-one RTU con I/O integrato, modem 3G e sistema di programmazione Straton, protocolli Energia

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DIN rail bus system 4 slot 35 mm

Z-PC-DIN4-35