

How to use P8xxx Ethernet sensors with Gmail SMTP

Gmail SMTP server requires SSL/TLS encrypted communication. SSL/TLS communication is not supported by P8xxx Ethernet sensors. This memo describes how to transfer SMTP communication from P8xxx device into SSL/TLS using STUNNEL applications. STUNNEL is third-party application distributed by GPL license. Comet System s.r.o. company does not provide support for this application. We not guarantee function of this third-party software. Attached ZIP file contains modified version of STUNNEL application. Original installation is available on www.stunnel.org.

We tested devices: P8510, P8541 with firmware version 4-5-5.03. We expect functionality with all P8xxx devices with latest firmware. All Tx5xx/Hx5xx with latest firmware are probably compatible too.

Operating system: Windows XP, Windows 7/32bit

Tested STUNNEL version: 4.54 (configured to using TCP port 25 for incoming SMTP connections)

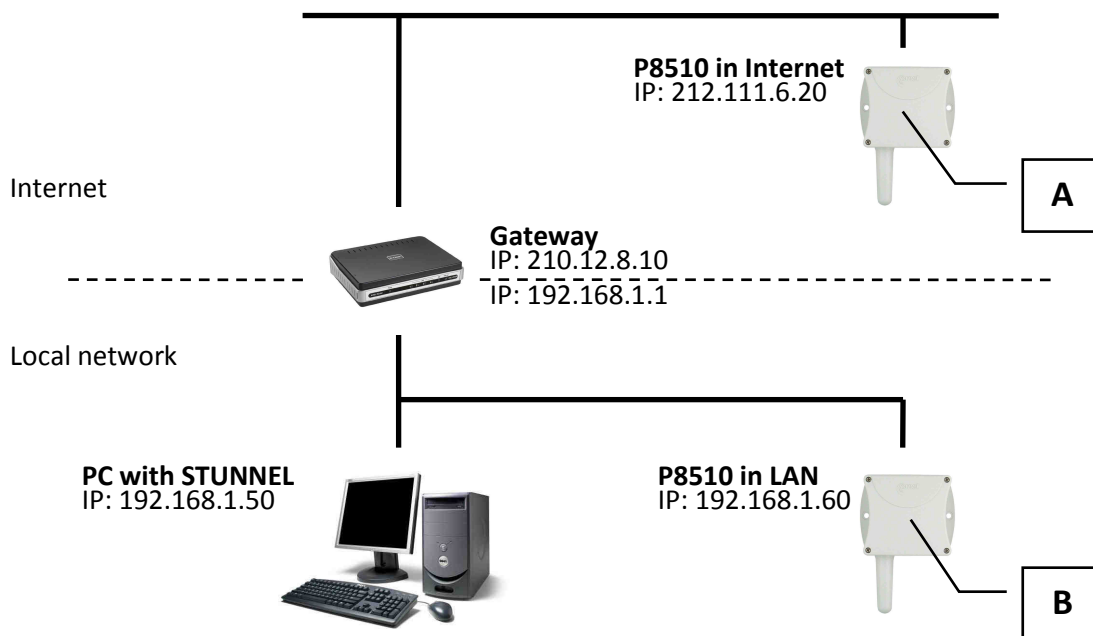
STUNNEL installation procedure:

1. Unpack all files and directories from attached ZIP file.
2. Make sure you are logged in with administrator rights. Make sure that TCP port 25 is not used for incoming connections. If port is occupied is possible change port number inside file `/bin/stunnel.conf`
3. Computer where is STUNNEL installed must have access to internet network. SMTP communication from P8xxx device will be transferred via computer with application STUNNEL into Gmail SMTP server.
4. Run file `start.bat`. These files install STUNNEL service and run this service. After service starting, or at first connection of the sensor, can be required to allow connections on firewall. STUNNEL runs as service, and due to is not required manually start software after computer reboot.
5. In the case when P8xxx device is located on different network segment, it may be necessary to set port forwarding on the gateway.
6. Check functionality of email sending from your P8xxx device via STUNNEL. Software can be uninstalled by file `stop.bat`.

Device settings for Gmail: As *SMTP server IP address* insert IP address of computer where is STUNNEL running. *Username* and *Password* are logins for you Gmail account. *Email sender address* must be same as *Username*.

COMET System, s.r.o.

Functional diagram (example - IP addresses are not valid):



Example of device settings (A) – Internet device:

SMTP server configuration

For proper email sending it is necessary to setup connection to your SMTP server. SMTP authentication can be used if needed. For information about SMTP server settings please contact your network administrator or ISP.

SMTP server IP address	<input type="text" value="210.12.8.10"/>
SMTP server port	<input type="text" value="25"/>
SMTP authentication	<input checked="" type="checkbox"/>
Username	<input type="text" value="test@gmail.com"/>
Password	<input type="password" value="....."/>

Email configuration

Setup up to three address for email recipients. Sender address is usually the same as the username of the SMTP authentication.

Email sender address	<input type="text" value="test@gmail.com"/>
Recipient 1	<input type="text" value="recipient1@example.org"/>
Recipient 2	<input type="text" value="recipient2@example.org"/>
Recipient 3	<input type="text"/>
Short email	<input type="checkbox"/>
Alarm email repeat sending interval	<input type="text" value="Off"/>
Info email sending interval	<input type="text" value="Off"/>
Alarm and Info emails attachment	<input type="text" value="Off"/>

Example of device settings (B) – LAN device:

SMTP server configuration

For proper email sending it is necessary to setup connection to your SMTP server. SMTP authentication can be used if needed. For information about SMTP server settings please contact your network administrator or ISP.

SMTP server IP address	<input type="text" value="192.168.1.50"/>
SMTP server port	<input type="text" value="25"/>
SMTP authentication	<input checked="" type="checkbox"/>
Username	<input type="text" value="test@gmail.com"/>
Password	<input type="password" value="....."/>

Email configuration

Setup up to three address for email recipients. Sender address is usually the same as the username of the SMTP authentication.

Email sender address	<input type="text" value="test@gmail.com"/>
Recipient 1	<input type="text" value="recipient1@example.org"/>
Recipient 2	<input type="text" value="recipient2@example.org"/>
Recipient 3	<input type="text"/>
Short email	<input type="checkbox"/>
Alarm email repeat sending interval	<input type="text" value="Off"/>
Info email sending interval	<input type="text" value="Off"/>
Alarm and Info emails attachment	<input type="text" value="Off"/>

COMET System, s.r.o.