APPLICATION NOTE:

SENDING EMAILS WITH SSL

VIA A 2G/3G+ CONNECTION

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APPLICATION NOTE

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ATTENTION!

Contact your telephone provider for information on GSM and GPRS service costs. It is best to quantify log and SMS costs before setting up and installing Z-GPRS3, Z-UMTS, Z-LOGGER3.

The use of Z-GPRS3 and Z-UMTS is in data roaming mode (for example, abroad with an Italian SIM card) may generate unexpected costs. Contact your telephone provider for further information.

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ATTENTION!

-Contact your telephone service provider for GSM and GPRS service costs especially when using Z-GPRS3 or Z-UMTS with a sim card issued by a country other than the one in which it is used (international roaming).

-It is best to estimate telephone costs before setting up Z-GPRS3 and Z-UMTS.

-The cost of each SMS is set by the telephone service provider.

-GPRS send/receive costs can be tied to Kbytes sent/received, a monthly ceiling included in a package or GPRS connection time. Contact your telephone service provider for further information.

-Check the data quantity sent via GPRS and SMS before using Z-GPRS3 and Z-UMTS.

Please remember that mobile phone service providers consider the entire communication that permits file transmission as data traffic (and therefore data transmission overhead, the number of connection attempts, etc. must also be included in the count) and not just the dimensions of each 2G/3G transaction.

1. PRELIMINARY INFORMATION ON SEAL

Further information about SEAL can be found in the SEAL Quick Guide and the SEAL online help; further information on Z-GPRS3, Z-UMTS and Z-LOGGER3 can be found in the user manual.

The sample setting refers to Z-GPRS3 but it is the same for the other RTUs.

2. PURPOSE OF THE GUIDE

The purpose of the guide is to configure SEAL so that emails are sent using a SSL protected connection.

This way it is possible to send emails using @gmail.com as a sending address.

## 3. SENDING EMAILS WITH THE "SMTP.GMAIL.COM" SERVER

Sending emails using the Gmail SMTP server is possible only if a safe connection is used (SSL on 465 port).

First of all, it is necessary to allow access from applications not using the OAuth 2 protocol otherwise the gmail server will not accept any emails sent by the RTUs.
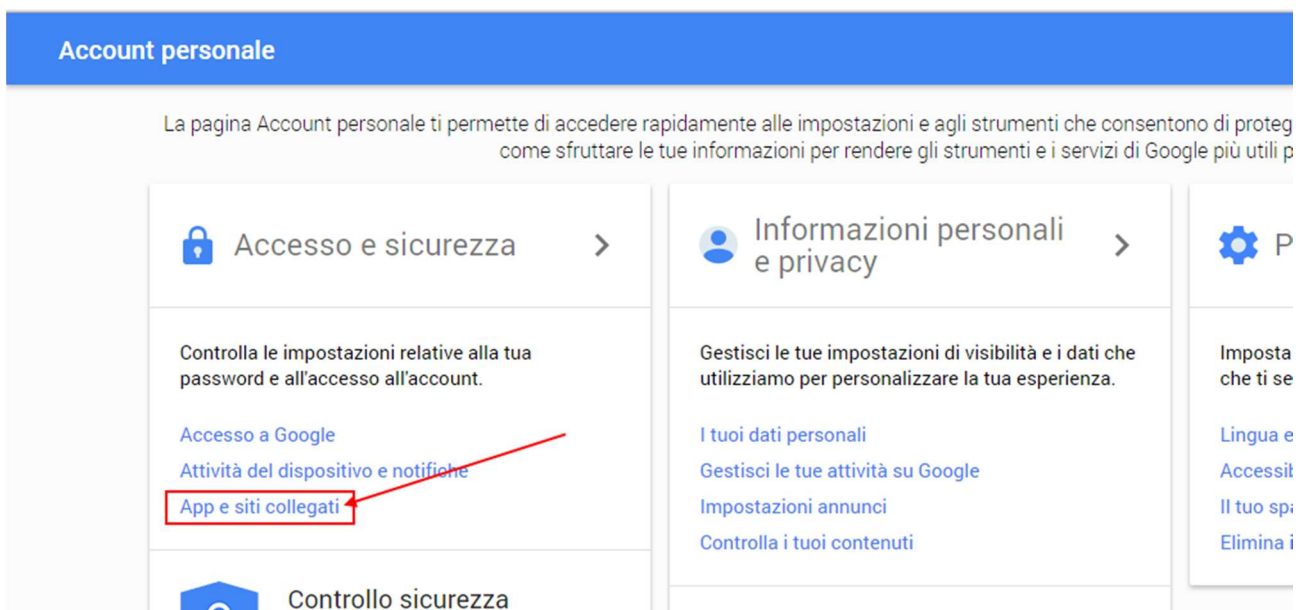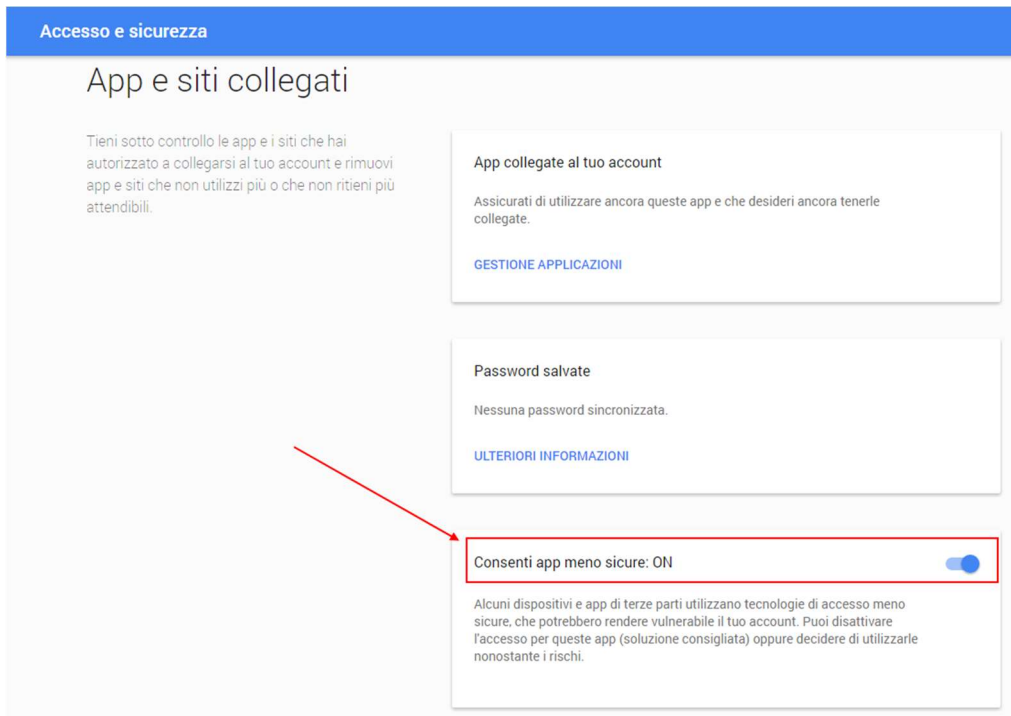
To do this, log into gmail:
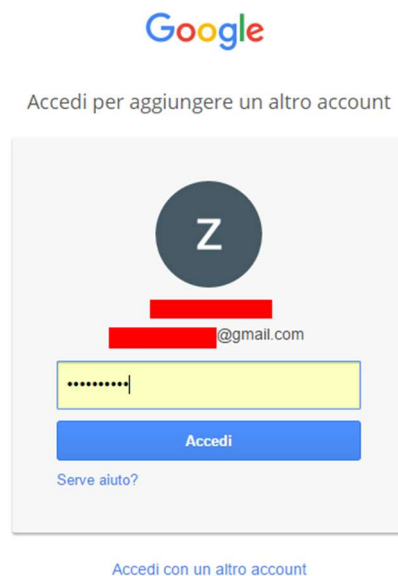
Click on "Personal Account":
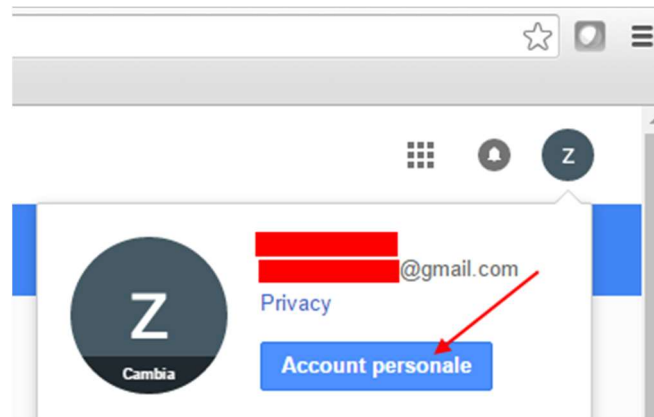
Click on App and connected sites:

And allow access to less secure apps:

4. SENDING EMAILS USING PUBLIC SMTP SERVERS THAT SUPPORT SSL (example GMAIL) (ONLY Z-GPRS3 and Z-UMTS)

Using Z-GPRS3 and Z-UMTS it is possible to send emails using public servers that support SSL.

For this to be possible, the following requirements must be met:

A) *Connection via GSM/GPRS modem and NOT via Ethernet*
B) *GMS/GPRS connection without PPP (therefore not always active)*

The steps necessary to set it up are the following (example for the gmail.com smtp server):

1) **Enable the GSM/GPRS modem and disable the PPP connection:**
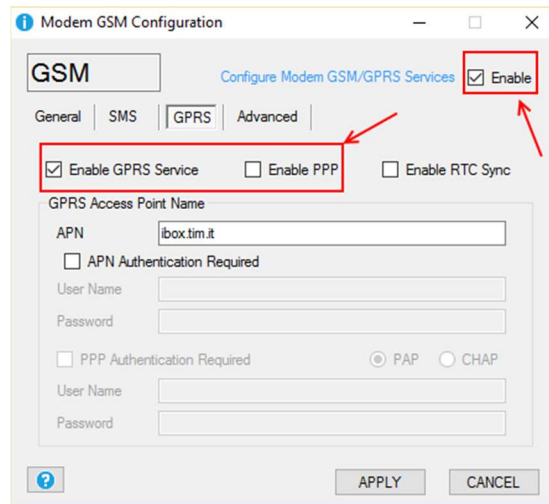
2) **Configure the parameters connecting to the gmail server by activating the SSL connection, port 465 and remembering to repeat the email address of the RTU in the Username:**
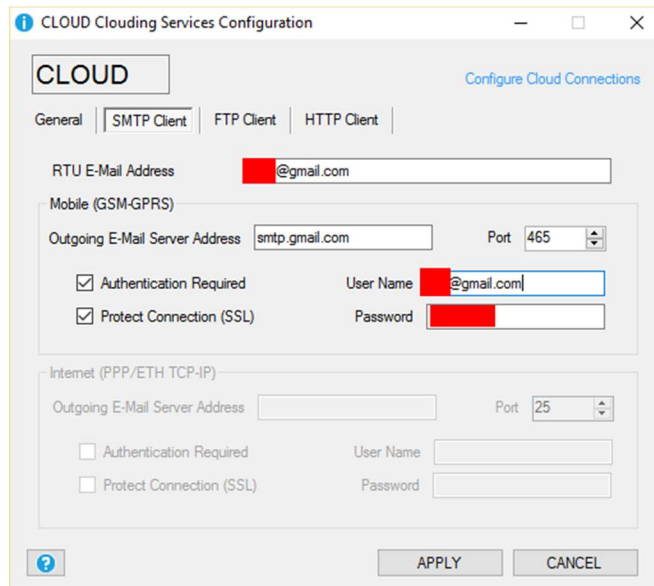
ATTENTION!

Since the use of SSL to send emails does not allow an always active connection, webserver and modbus TCP-IP server will work only via the ethernet port and NOT via the modem.