production

Communication architecture

TRMC

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On-site measurement

The TRMC is a datalogger. It stores measurement into its own on-board flash memory (non-volatile). The TRMC makes acquisition for example every hour, every 15 minutes,...

The measurement can come from various devices (sensors) like water meter, fluorometer, pressure sensor, rain collector,...

The TRMC has an integrated GSM/GPRS modem. It transmits data periodically, for example every day, every week or every 4 hours...

The TRMC can also send an alarm SMS when a measurement overflow a specified threshold

Server side

Small applications

The smallest infrastructure is a PC with a modem and the (free) Axiome Basic program. This is often used by small companies with 1 to 5 TRMC

The user calls the TRMC in GSM data mode using the Axiome Basic software. The data is stored locally, on the PC in an XML file and can be exported to Excel

Medium applications

In this application, the customer has 5 to 50 TRMC devices. A PC calls the devices in GSM data mode automatically, using the Axiome Server program. The data can be either stored locally in XML files or can be transmitted to a database server

Automatic export functions are available (FTP, CSV, Excel, WebService,...)

Large applications

In that kind of applications, the customers has 20 to 2'000 or more devices.

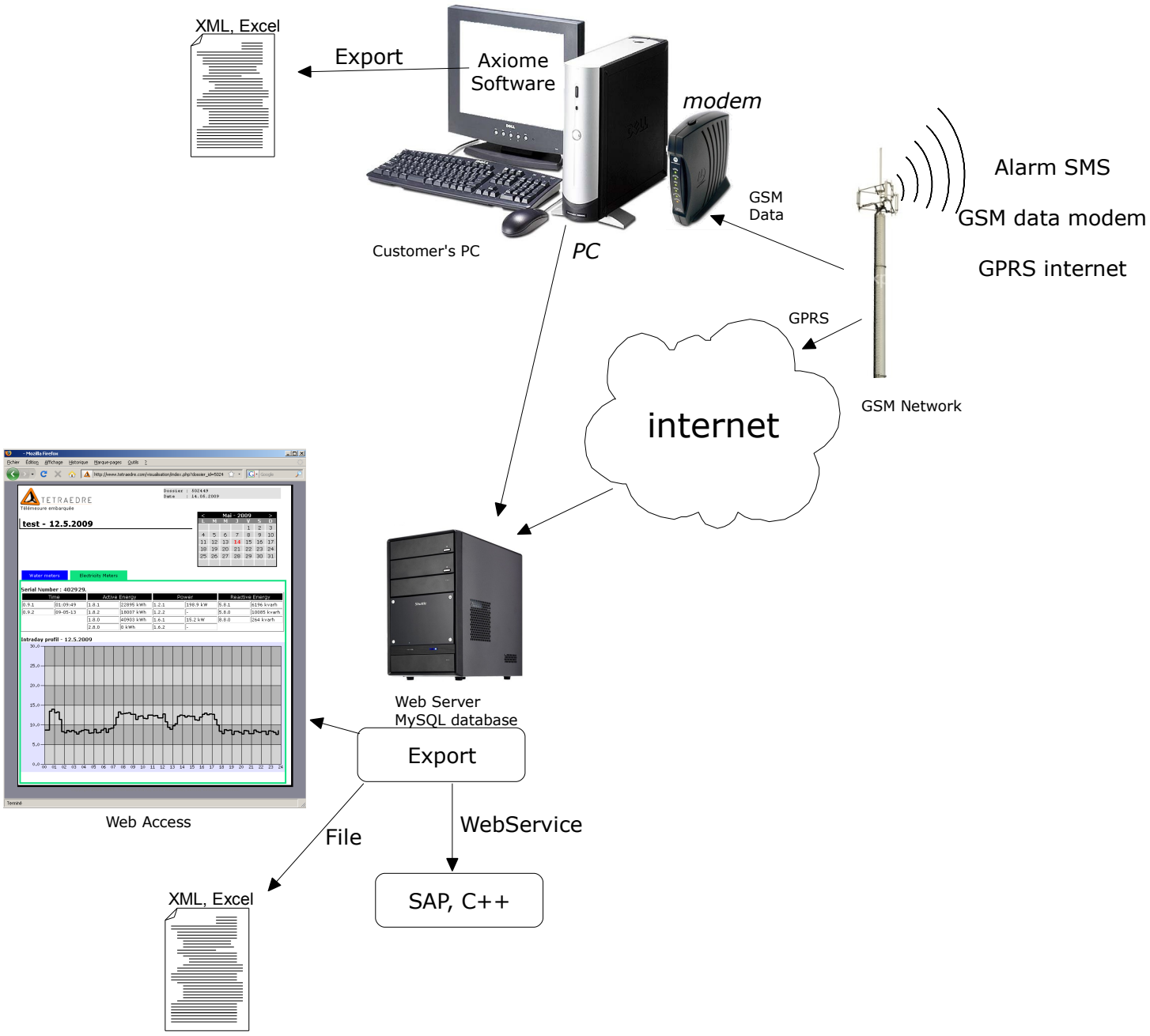
The data is transmitted from the TRMC to a Web server in GPRS mode (dynamic IP address). The server can handle several simultaneous connections.

The data are stored in a database.

note : This database can also store data coming from other devices

An internal and/or external web interface is provided to manage the infrastructure (TRMC) but also to see the measurement and to export data.

Automatic export functions are available (FTP, CSV, Excel, WebService,...)


XML, Excel
Export
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modem
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GSM data modem
GPRS internet
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XML, Excel
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