

Using the watermanager solution  
you are able to manage and  
monitor your dataloggers easily,  
at any time and from everywhere.



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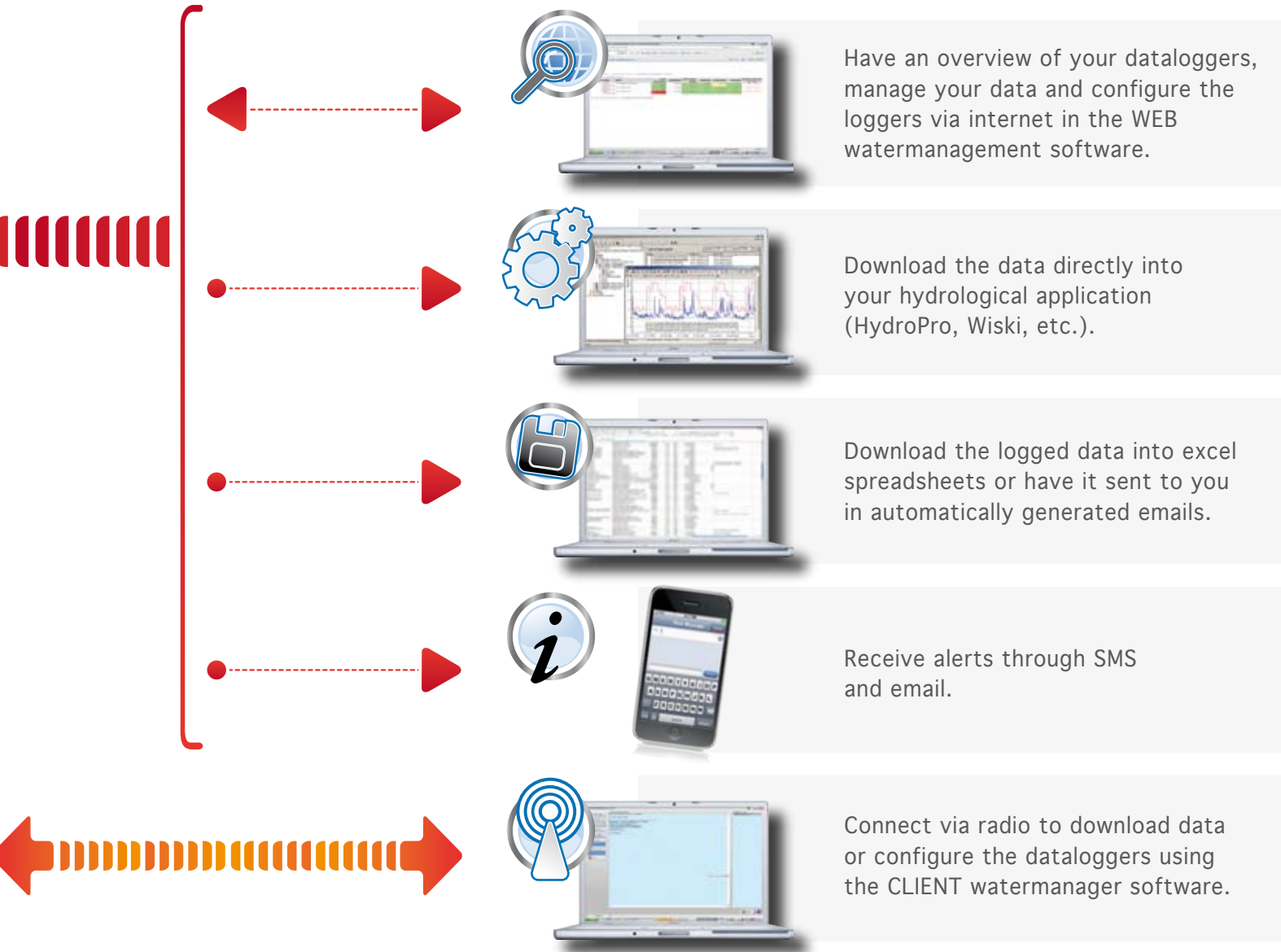
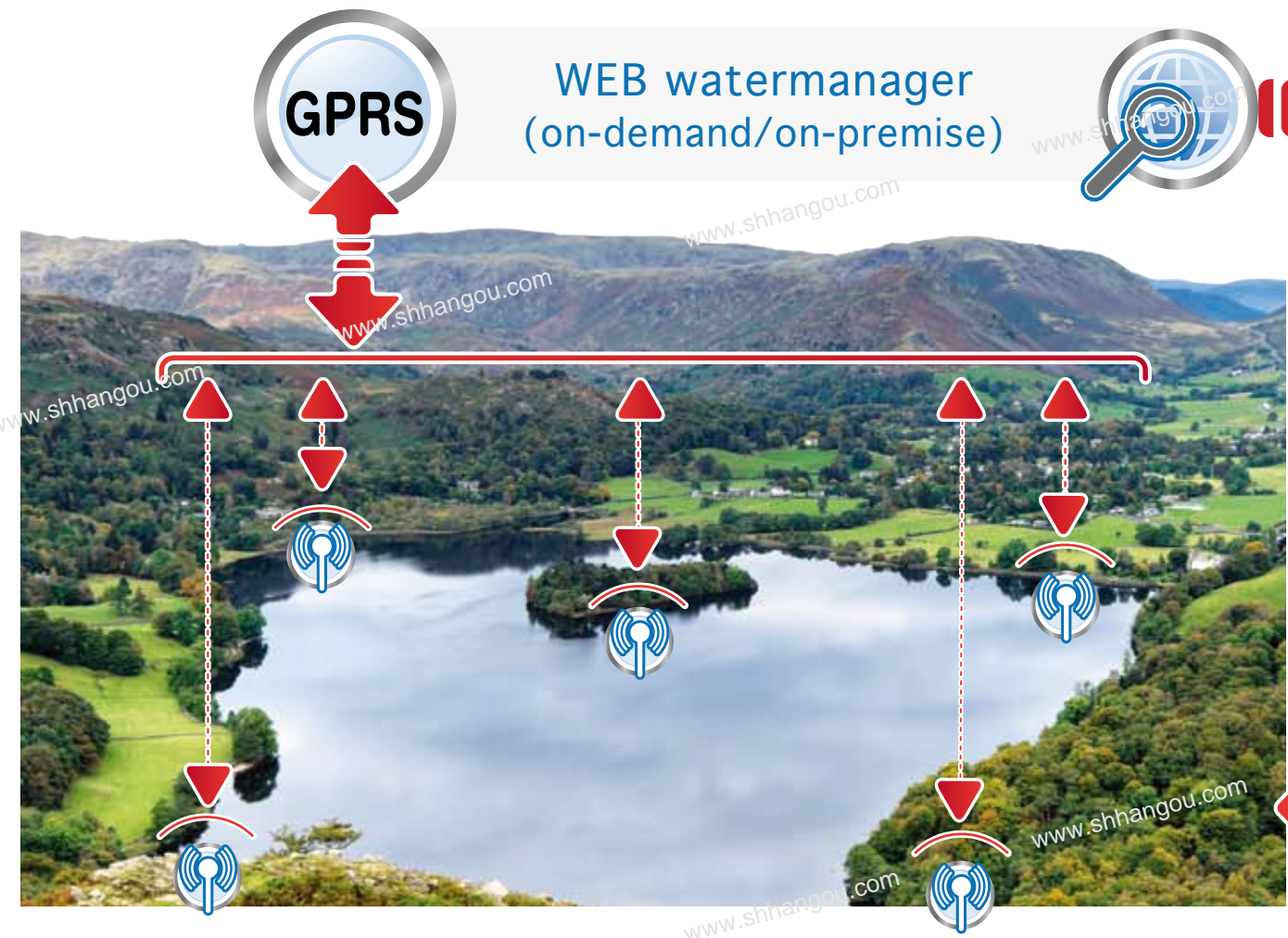
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## STS watermanager solution

Do you want to gain flexibility and cost  
effectiveness in water monitoring?



Here is the answer to your question.



**INTERFACE YOUR HYDROLOGICAL APPLICATION**

- > All the measured values can, after collection in the WEB watermanager, automatically be transferred into your hydrological application (hydropro, Wiski, etc.).
- > This means that you do not need to care about setting up connections to the dataloggers and exporting/importing data at all. You can perform your daily work in the application, which you regularly use.
- > STS is constantly expanding the range of standard interfaces to hydrology software.

**DOWNLOAD DATA**

- > In the WEB or CLIENT watermanager applications the measured values can be downloaded easily into Excel spreadsheets with one mouse-click.
- > Hereby you define the range of data you want to have downloaded.

**ALARM NOTIFICATION**

- > Alarm indication can be set on different parameters:
  - Water levels, which are not in the threshold values.
  - Exceeded water / medium temperature levels.
- > Alarm indications on the dataloggers "health-state": battery life-time, humidity in the datalogger and chip temperature.
- > Once a parameter, which you have defined, is exceeded you will immediately receive a text message/email, which informs you that action is needed.

**RADIO INTERFACE**

- > If for any reason the GPRS connection should not work, there is an alternative for data read-out and configuration: the radio interface.
- > It operates on 433 MHz and can communicate with the datalogger to up to 20m distance.
- > The radio connection between your laptop and a datalogger is set-up using a USB radio stick. With the STS software package CLIENT watermanager you can access/download measured data from the datalogger, configure it and set-up alarm functionalities.
- > Advantages of this functionality are:
  - The dataloggers do not need to be de-installed/removed from their position for read-out and configuration purposes.
  - This makes it easy and time saving to operate your dataloggers locally.

**DL.WMS/GPRS/R**

- > The measuring hardware consists of three elements:
  - A high-precise pressure and temperature sensor in stainless steel or titanium with an accuracy of  $\leq 0.1\%$  FS.
  - A data logging element, which can store up to 250'000 values reliably, monitors its condition (chip temperature/humidity in the dataloggers and battery lifetime), and which can be configured in detail by the user.
  - Communication modem for GSM/GPRS and radio (433 MHz), over which data read-out and system configuration takes place.
- > This hardware has been designed to be operated in remote locations: it is battery powered (lifetime > 3 years), can be remotely read-out and configured via GSM/GPRS or radio, can easily be installed (e.g. in 2"/4" tubes) and comes in solid and robust stainless steel housing.

**GPRS TRANSMISSION**

- > GPRS (general packet radio service) is a packet oriented mobile data service available to users on the GSM network (global system for mobile communications).
- > GPRS data transfer is typically charged per megabyte of traffic transferred, while a data transfer via GSM is billed per minute of connection time.
- > Advantages of GPRS transmission are:
  - No point-to-point dial-in to the datalogger needs to take place.
  - Lower connection time and costs.
  - Commercially available SIM cards which allow datatransfers (M2M - record) can be used.

**WEB watermanager 1.0**

- > An easy-to-use internet application with which you can manage your dataloggers:
  - Have an overview of all your dataloggers (incl. health check information).
  - See measured values in numbers or graphs.
  - Configure your dataloggers via the internet (e.g. measuring or data replication periods).
  - Download measured data to Excel spreadsheets.
  - Set alert parameters, which will trigger text messages (SMS) or emails.
- > All your dataloggers submit their measurement data via GSM/GPRS, in the period which is configured, directly to the WEB watermanager application. This ensures that you have all your data available whenever you need it.
- > There are two possibilities to run the WEB watermanager:

DEVELOPMENT OPTIONS	DESCRIPTION	CUSTOMER ADVANTAGE
<b>On-Demand</b>	<ul style="list-style-type: none"> <li>• STS runs your WEB watermanager solution for you and:                             <ul style="list-style-type: none"> <li>- Provides the hardware on which the WEB watermanager operates.</li> <li>- Secures a 7X24X365 availability of the WEB watermanager.</li> <li>- Performs data back-ups / archives up-to 10 years.</li> </ul> </li> <li>• Price bases on yearly service fees.</li> </ul>	<ul style="list-style-type: none"> <li>• You can access the WEB watermanager over the internet from everywhere and anytime.</li> <li>• You do not need to care about IT or data management matters.</li> </ul>
<b>On-Premise</b>	<ul style="list-style-type: none"> <li>• You run the WEB watermanager solution in your office and on your hardware.</li> <li>• Price bases on a licence fee.</li> </ul>	<ul style="list-style-type: none"> <li>• You have the full control (and responsibility) of software and data.</li> </ul>



**STS watermanager solution**  
A revolutionary way of water management