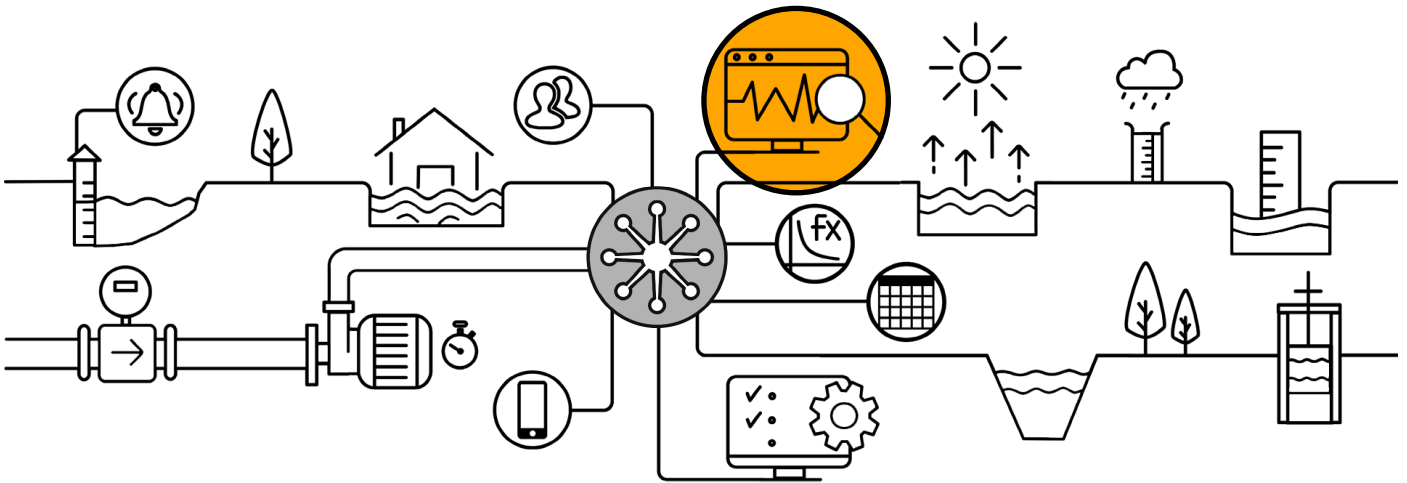


What gets measured, gets managed.

INNOVATIVE SOLUTIONS FOR COST EFFECTIVE
WATER RESOURCES MEASUREMENT, MONITORING & ALERTING

WaterQuery

Data Acquisition / Presentation Software



WaterQuery is a Data Acquisition / Presentation Software created in 2011 and was constantly updated through the years. **WaterQuery** is highly approved by Water Measurement companies and engineers and it has also honored by the knowledge-based sign for its unique technologies and features from Deputy of Science & Technology.

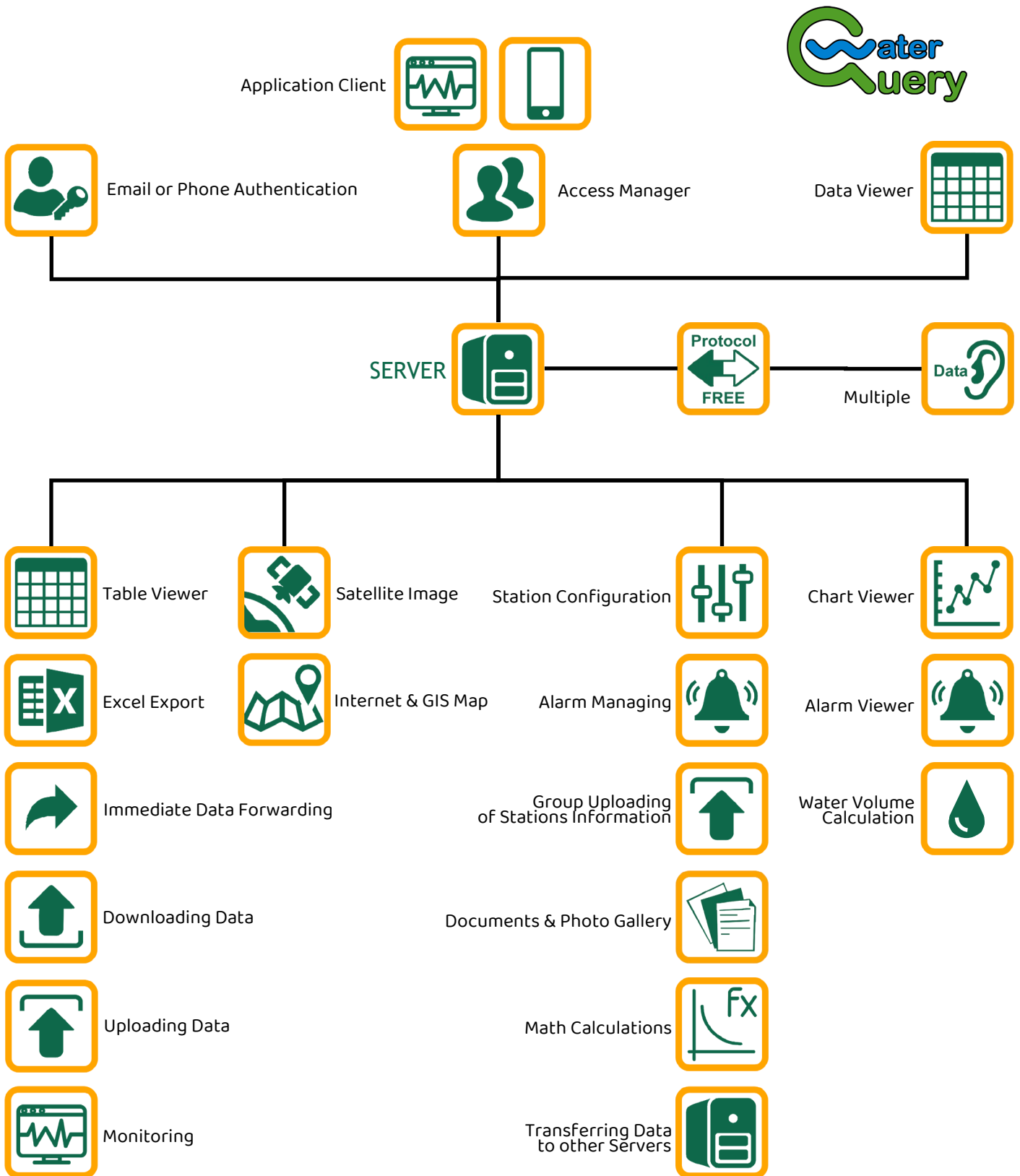
WaterQuery gathers data from almost any type of data-logger into a data warehouse through a totally legit and tamper-proof process. Almost any sort of mathematical calculations can be applied to raw data without need to further coding.

The application features Multi-Thread Processing and Database Access, Function-Level and Record-Level access management, GIS Queries, Monitoring Sub-System, Customizable Alarms and Notifications, Virtual Data-Loggers (which get inputs from other loggers) and Reports and Charts.



WaterQuery (Flow Chart)

Data Acquisition / Presentation Software





WaterQuery (Features Topic)

Data Acquisition / Presentation Software

Special Features

- Tamper Proof Data Saving & Retrieving
- Create your own cloud, or use as Enterprise Web Application
- BI Ready, Thanks to ready to use data-warehouse, works with most known BI Apps
- Creative methods for dynamically applying any calculation/calibration on data without further coding
- Virtually Gets Data From Any Data-Logger
- New Protocols & Data Listeners can be ordered
- Advanced Logger Monitoring Facilities, Use your own graphics for monitoring pages
- Function Level & Record Level User Access
- Can use any GIS Layer as Query Filter
- Connecting to any SMS operator can be ordered

Platform & Technologies

- Windows Server (Server Side)
- Windows Application
- Web Application
- Android & iOS Mobile Applications
- Server-Side Developed using .NET Core 3.1/SQL Server 2017/EF/Office Components

Project/Company Management

- Create new Companies Or Projects in separate sandbox
- Edit Project Profile
- Delete Project Profile
- Create Project Folders
- Edit Project Folders
- Delete Project Folders
- Manage Project License
- Manage Project's Measurement Parameters (Add/Remove)

Station/Logger Management

- Create New Station
- Edit Station Profile
- Add Location to Station
- Add any number of Images to Station Profile
- Add any number of Documents to Station Profile
- Remove Images
- Remove Documents
- Group Insert Stations using Excel File
- Group Edit Station Profiles using Excel File
- Delete Stations



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WaterQuery (Specification)

Data Acquisition / Presentation Software

Virtual Stations

(no real logger , gets data from calculations and other stations)

- Create New Virtual Station
- Edit Virtual Station Profile
- Add Location to Virtual Station
- Add any number of Images to Virtual Station Profile
- Add any number of Documents to Virtual Station Profile
- Remove Images
- Remove Documents
- Group Insert Virtual Stations using Excel File
- Group Edit Virtual Station Profiles using Excel File
- Delete Virtual Stations

Station/Virtual Station Tools

- Add Any Calculation to data that comes from logger and save results to desired channels
- Calibrate your Station/Virtual Station using any type of math functions
- Create Input Strings Masks (used for interpreting Received data)
- Update Input String Masks
- Add strings commands to send to stations with user defined period
- Server-Chaining Tools allow sending data to another Server/API immediately after saving

Data Channels/Units

- Dynamically Select Required Data Channels to be shown within Project
- Define each Data Channel's default Unit

Data Presentation

- Stations are queried through Web Services with following considerations:
 - User access to Projects
 - User access to Stations
 - Geographic Filters
 - Station Specs Filters
- Station are listed into Project Tree
- Stations are shown into a Google/Bing map section
- Zoom In/Out , Pan are available
- Define default region to show every time that App opens up
- Map Print is available
- Right-Click Menus are available for commands on any Station
- Presentation Data are fetched through Web Services from Server
- Date/Time range Filters are applied
- Station Id filter is applied
- Data Channel filters are applied
- Data are shown as Table or Graph
- Print data
- Export data to Excel
- Modify data (upon access)
- Group Modify data using Excel



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WaterQuery (Specification)

Data Acquisition / Presentation Software

Alarms & Data Forwarding

- Create unlimited number of Alarms for each station
- Alarms can be set as upper or lower limit or return to normal limits
- Edit Alarms for specific Station
- Delete Alarms
- Alarm History Page show all Alarms from All Stations
- Alarm History page for individual Stations
- SMS Alarms (through SMS operators)
- Email Alarms (through SMTP Email Servers)
- Telegram Messenger Alarms (through Windows Bot Application for Telegram)
- WhatsApp Alarms through third party WhatsApp Operators (Needs Subscription)
- Mobile Alarms through Mobile Applications
- Immediate data forwarding using SMS
- Immediate data forwarding using SOAP Web Services (POST)
- Immediate data forwarding using Web API (GET/POST) (Coming Soon)
- Immediate data forwarding using Email (SMTP Email Server required)

Data Readers

- GPRS Listener Windows Service (TCP) can read Text Data (Dynamic Data Format)
- SMS Listener Windows Service can read SMS (Dynamic Data Format) from GPRS Modems
- SMS Listener Windows Service can read SMS (Dynamic Data Format) from SMS Operators
- SMS Listeners can read data Periodically or Inbox-Driven
- Text File Reader can read any Text data from manual input source/uploads
- Text File Reader can look in a folder and read text files immediately after creation/copying
- Excel Reader can read Excel Sheets through manual input source/uploads
- Excel Reader can read Excel Sheets immediately after creation/copying in a specific folder
- WebAPI Reader reads JSON data (POST)
- WebAPI Reader reads string data (GET)
- SOAP Reader gets data from SOAP Web Service (POST)
- Modbus Reader is Windows Application to read data (Channel Specifications Required)
- Manual Data Input is available through Mobile/Windows/Web Forms
- Visual Station Data Reader operates as Windows Application
- Full data verification while receiving
- Can Read Time-Stamps from Server or Data itself
- Full Input Log is saved as Text File



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WaterQuery (Specification)

Data Acquisition / Presentation Software

User Registration

- Each Project/Company has its own users (Sandboxed)
- Once users are logged in, they can access all of Projects that they are registered into them
- Sign up Users by Emails
- Emails can be verified (SMTP Server Required)
- Sign up Users by Mobile Phones
- Mobile Phones can be verified (SMS Operator required)
- Sign up Users by Administrator
- Any User (same phone or same email) can be registered into multiple Project/Companies
- Create User's Alias/Full Name
- Update User's Alias/Full Name
- Create User's Avatar
- Update User's Avatar
- Force User to change his/her Password by Administrator
- Change Password via Email or SMS Token
- Disable/Remove User by Administrator

User Management

- There are two types of Admins, Cloud Administrator & Project Administrator
- Project Admin can only manage it's Project's Users
- Cloud Admin can manage All Users
- All Admins can Create, Users
- All Admins can Disable Users
- All Admins can Modify Users
- Cloud Admin can Insert Users into Projects
- Cloud Admin can Remove Users from Projects
- Users can temporary give their access rights to other users upon Admin agreement

Role Management

- Cloud Admin can Create & Manage Cloud Roles
- Project Admin can Create & Manage Project Roles
- Each Project has it's own Admins
- Each Project has it's own Roles
- Admins can define which Role has access to which Application's Function
- Admins define Role access to Stations
- Apply Roles to Users
- Remove Roles from Users

Monitoring App

- Windows Application For Monitoring
- Dynamically Create Monitoring Profiles
- Add Stations to Monitoring Profiles
- Dynamically Manage Monitoring Profiles
- Design Mode allows Creating a Graphical Page & Positioning Stations on it
- Save the design
- See measurements, graphs and alarms next to each Station



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