

AWQMS Maintenance Agreement for Deployed Implementations



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INNOVATION THROUGH TECHNOLOGY

The Ambient Water Quality Monitoring System (AWQMS) data management system represents approximately two million dollars-worth of software development.

The current community of over 70 tribal nations, 7 states, and 60+ local watershed groups and municipal agencies share in the benefits of AWQMS development for a relatively small annual maintenance or hosting fee.

Community Software

Why do I need a Maintenance Agreement?

The AWQMS application was developed using the **Community Software** Model. This development methodology is dependent on partners pooling their resources to develop a common application that exceeds the capabilities that the partners could have developed independently.

Maintenance for AWQMS is not funded by the EPA. As a result, the sustainability of AWQMS must come from the community. The maintenance costs are shared across the community resulting in a higher level of service at a lower cost for each of the partners. Maintenance agreements from each of the community partners enable Gold Systems to ensure the sustainability of the AWQMS application.

Inclusions and Exclusions

What is Included in the Maintenance Agreement?

- ◆ Installation of AWQMS on 1 production and 1 test server
 - ◆ virtually no limit to the number of users you may set up on your own server(s)
- ◆ Periodic software updates (including)
 - ◆ AWQMS enhancements funded by your organization or by other community members
 - ◆ Bug fixes as prioritized by gold systems
 - ◆ Periodic domain value updates to maintain compatibility with WQX
 - ◆ Software maintenance due to newly supported database, operating system, or browser software
- ◆ Access to the AWQMS cloud based demo and training environment (awqmsdemo.goldsystems.com)
- ◆ Costs of any AWQMS 3rd party software libraries
- ◆ AWQMS support portal (www.awqms.org)
 - ◆ Tutorials & documentation
 - ◆ News and other information.
 - ◆ Past conference presentations
 - ◆ Release notes
- ◆ Remote AWQMS technical support
 - ◆ Software installation & configuration
 - ◆ User setup/security questions
 - ◆ Assistance with EPA WQX registration

What is not Included in the Maintenance Agreement?

- ◆ User Support
 - ◆ Importing Data / Submitting Data to WQX
 - ◆ Training / Questions on how to use AWQMS
 - ◆ Data Migration / Data “Mapping”
- ◆ On-Demand Bug Fixes or Patches
- ◆ Custom Development and Enhancements
- ◆ Private Google Maps API License (if desired)
- ◆ Sharing of AWQMS with or providing AWQMS to other external organizations without written Gold Systems’ consent

Renewals

Maintenance Agreement Period and Renewals

The annual fixed-cost maintenance agreement is billed at the start of the performance period and is required for software updates. Although maintenance agreement renewals are not required, if a lapse occurs, the renewals back to the prior maintenance agreement’s end date must be made up in order to receive the latest version of AWQMS and continue receiving updates. Optional user support or custom development contracts can be set up on a time and materials basis. For questions please contact Gold Systems at awqms@goldsystems.com or by calling (801) 456-6145.



AWQMS

Ambient Water Quality Monitoring System

AWQMS is a water quality data management and analysis system in use by over 70 tribes, 7 states, and more than 65 volunteer, watershed, and municipal agencies. AWQMS provides the following tried-and-true features; with many more enhancements currently under development or slated for development in the near future:

Built-in Exchange Network Node Client - Sends your latest data changes to the EPA WQX in the proper XML format with the click of a button.

Internet Access – access your water quality information from virtually anywhere in the world.

Security – User Name and Password authentication. Each user has a separate account. You can even restrict what type of access each user has to different projects!

Highly configurable batch import capability – Configure the software to match the data files you get from your lab or from your sonde; not the other way around! Pull large amounts of data into the database from an electronic file (Excel spreadsheet or a text file). *Less time wasted re-typing data that has already been typed and reduced probability of introducing data entry errors.* This sophisticated feature also allows you to default metadata values that are missing from your data or that you know will be the same for every result value. Also, you can configure AWQMS to auto-translate meta-data in your batches of data to the equivalent WQX term.

Configurable rapid entry forms – You can enter your data directly into AWQMS from paper field sheets or paper results reports from a lab. You can configure as many types of rapid entry forms as you need. Use rapid entry forms to streamline the amount of work to get your data to WQX and reduce data entry errors. You default numerous meta-data values and even which parameters are shown in the form so that all you have to do is enter the result value for each parameter observed.

Concurrent access to your data by multiple users. No more wondering who has the master copy of which data files and where they are keeping them! All your water quality data is consolidated in one convenient database and is simultaneously accessible by an unlimited number of users within your tribal program.

Web browser user interface. No desktop software to install or upgrade! Imagine the difficulty if you had to install new software on every user's PC (for multiple tribes) every time there's a new patch or upgrade!

Sophisticated Analytical / Statistical reports and Graphs – too numerous to list. Find trends in your data or correlations between parameters. Look for exceedances to your water quality standards.

Built in Google Map interface. Plot all your locations on a map. Plot locations having certain data on a map. Plot locations having exceedances for a particular parameter on a map. Plot your locations next to state locations. Pull up your data for a location in AWQMS next to State data from a nearby location.

Built-in QA/QC data checking – warns you if result values are being imported or entered that are higher or lower than expected. Warns if someone attempts to import or enter data for unexpected variations of a parameter (e.g. the wrong unit of measure or the wrong sample fraction).

Built-in WQX Business Rule Validation - Validates imported and entered data against every business rule enforced by WQX. Provides data validation error resolution pages for most WQX and QA/QC validation errors.

Data Sharing – Tribes can share data in a “read-only” mode with each other, if they desire. Create your own data sharing network!

“Public water quality portal” (if desired) – You can provide a public user role so that every-day tribal members or council members can research the data themselves using AWQMS data analysis tools with no danger of their messing up losing any data.

Web services – RESTful, Virtual Node, and GIS centric web services provide Location, Project, and associated Activity and Result and Metric, and Index data to external GIS or other tools . (Included with AWQMS-annual maintenance fee).

AWQMS is maintained using a “community-based” funding approach which provides AWQMS subscribers all enhancements and fixes funded by other subscribing organizations. This approach guarantees a sustainable future for AWQMS and provides constant improvements to the system (numerous are currently under construction). All subscribing organizations receive the improvements at no additional cost and can make use of the tuto-



AWQMS

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