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WaterOutlook

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wateroutlook 

The "WaterOutlook" logo icon is a white, stylized circular shape with a curved, wave-like edge on the right side.

WaterOutlook

ABOUT:

WaterOutlook is a specialist SaaS/laaS company, providing a platform for managing data in the Internet of Things. They are the digital mesh tying together the entire ecosystem of data sources: field technicians, office staff, Online instruments, laboratories, contractors, consultants, regulators, software systems and the public. Key features include mobile data entry, cloud-based access and storage with automated compliance reporting and data exchange.

WaterOutlook is bringing data management into the 21st century, driving gains in efficiency, capability, and transparency for clients by providing a single repository for many data sources and a single source of truth to feed many data receivers.

This drastically reduces the lag time between gathering and reporting data leading to enhanced awareness, internally and externally, of what data is and what it means. WaterOutlook provide a unique audit-grade system and have no vested interest in the data stored. This means:

- No conflict of interest regarding the meaning of the data. This is vital for ensuring the validity and integrity of audit procedures.
- Many consultants and others who use the stored data adopt WaterOutlook as an official data portal.
- Mission critical data and reporting systems can be leveraged for other business which means tangible savings can be made when tendering large contracts for professional services and hardware.

THE INTERNET OF THINGS:

WaterOutlook is the digital mesh that allows a client can have access to any data that affects its business – both internally and externally. For a client, this means that data can be harvested from machines and people using a variety of methods, and can also be collected from third parties to give a holistic data picture. This means Environmental, Health and other information can be collected to give a meaningful base for both decision making and reporting.

With WaterOutlook's quick look dashboards, this data can be viewed in real time. Using new API technology, data can flow in and out of an organisation – to your own specifications – without you needing to be involved in the data transfer.

DATA FLOW - SCADA DATA:

WaterOutlook is SCADA agnostic so we can simultaneously harvest data from different historians with automatic health/integrity checking and 24/7/365 central watchdog monitoring.

When connected @historian, WaterOutlook provides a smooth contractor interface and doesn't interfere with the PLC coding. The historians don't need to be internal and data from external providers can be integrated into WaterOutlook. Data can be harvested from many SCADA historians simultaneously and can trace more than one PLC tag to single WaterOutlook parameters. It can also collect decommissioned historical data from historians to ensure legacy data is included and mapped.

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COMPATIBLE SYSTEMS INCLUDE:

The SCADA historians currently supported by the WaterOutlook Data Collection Client are:

- Citect Flat File/Historian
- ClearSCADA
- GE Proficy Historian
- Honeywell Experion (via ODBC provider)
- PI System (via PI OLEDB Provider only)
- QTech DATRAN
- Rockwell FactoryTalk SE
- Wonderware Historian

Data file uploads currently supported by WaterOutlook:

- ABB AquaMaster 3 XML via SMS
- Abbey Systems Powerlink
- Campbell Systems TOA5
- Cello PMAC CSV
- EDAC CSV
- iQuest Hydrotel
- Taggle JSON
- WaterML 2.0
- WaterOutlook JSON

MANUAL DATA AND WATEROUTLOOK MOBILE

Both internal and external agencies can enter and upload data directly via a web portal using a browser, or the WaterOutlook App. Data is automatically analysed on entry and is sanity checked with alerts generated if data entry is outside the acceptable parameters. All changes are audited and tracked and an email reminds users when key data is required and escalates if data is not received before deadline. By using GPS, the location of the data entry can also be recorded.

A SINGLE SOURCE OF TRUTH

The WaterOutlook system comprehensively captures all sources of operational and compliance data and integrates it into a single portal for monitoring and reporting – a single source of truth. It automates the majority of routine reports with process monitoring and scheduling alerts to ensure data is captured on time.

WaterOutlook is also a web-based portal for direct data exchange with outside bodies: Data can be continuously sent and received between a client and its regulators, consultants, contractors, power companies and others all in near real-time. Excel is used as the reporting interface for the entire system meaning any stored data can be incorporated into a spreadsheet report.

REGULATORY COMPLIANCE AND AUDIT

WaterOutlook allows a transparent and easy review of underlying raw data and calculations for full audit-grade traceability of data from source to sync. WaterOutlook is in a unique position to provide highly technical and capable tools for audit procedures on regulations for public health, environment, carbon accounting, service delivery and more.

WaterOutlook helps train the Ministry of Health and other industry bodies on data management practices and is involved at a high level in helping define the National Data Standards. They are the market-leader in digital meshing technology, providing a single source of truth that sits between consumers, industries and regulators.

DATA STORAGE/SECURITY:

WaterOutlook handles mission critical information for our clients and as it is designed around the highest standards for diversity and redundancy of storage systems. Being independent allows WaterOutlook to create a safe and fully auditable system for critical data.

WaterOutlook is simply the custodian of data – our clients own their data. This is why we provide unprecedented data security via four layers of redundancy and diversity:

- Every Australian client are hosted on the Microsoft Azure platform in Sydney.
- Each Australian client has a fully remote backup in Melbourne.
- Every 24 hours a full comprehensive and complete backup is sent to the client (including MSI of the software) to enable them to independently run their WaterOutlook system in times of emergency.
- Weekly 'unconnected' backups are stored in the WaterOutlook offices.

SOVEREIGN DATA:

WaterOutlook complies with Local Government Sovereign Data requirements:

- Data is stored on servers within Australian borders and on the WaterOutlook wholly owned hardware.
- A high level of diversity and redundancy is maintained across ALL WaterOutlook systems.
- There is a diverse upstream supplier base with each supplier having a high level of diversity and redundancy.
- High level of geographic diversity with data centres in Sydney and Melbourne.
- A continuous upgrade plan with all operating software patches updated at the first maintenance window opportunity and all the hardware continuously cycled and updated to contemporary standards.

RISK REDUCTION:

WaterOutlook reduces time and risks for operators and management and gives managers the tools and information required to successfully run their utilities and report to their regulatory agencies and communities.

