



Water Network Monitoring

“TaKaDu is a major contributor to our future water loss reduction plans. With TaKaDu we have been able to quickly and easily find large leaks that otherwise would have taken much longer to identify. The geolocation feature significantly improved our teams’ ability to quickly locate leaks in the field.”

David Snadden, General Manager
Infrastructure Services, Yarra Valley Water 



A Smart Water Network Starts With Smart Alerts.

Network efficiency, asset performance and water loss reduction are critical for water utilities. By providing clear and actionable alerts on faults, leaks, bursts, pressure anomalies and many more, TaKaDu enables utilities to resolve network issues faster, at a lower cost. Water Network Monitoring improves efficiency and reduces water loss. A pure Software-as-a-Service solution, TaKaDu requires no network changes or equipment installation. Use of the system is just as simple: clear-cut alerts about network events that matter, with all the information needed to take immediate action.



Turning Raw Data into Knowledge. In Real-time.

Water networks can be more efficient by using data that already exists within the network, such as readings from flow meters and pressure sensors, GIS data and more. Water Network Monitoring is based on real-time statistical and mathematical analysis of multiple data types to provide accurate, instant alerts on various types of events, such as water loss, operational malfunctions and faulty meters.



There is no need to maintain complex hydraulic models or elaborate network formulas. TaKaDu’s technology can identify a fault’s location, start time and magnitude. It even assigns the event to the relevant person and provides reports and real-time views to utility personnel, allowing quick and accurate repair verification.



Solution Highlights

The TaKaDu system is a remote real-time Software-as-a-Service solution that delivers alerts, reports and real-time views to utility personnel.

Continuous raw network data is securely sent to the TaKaDu server, which pre-processes the data, cleans “noise” and faulty readings, determines the normal behavior taking into account past events, seasonality and even holidays, and finds anomalous events with no false alarms. Results are delivered to utility personnel in an easy-to-use graphical interface and over email.



Benefits:

- Multiple alert types for multiple users, delivered by a single system
- No network changes required – deployment is quick and easy
- No false alarms – saves utility employees’ time and resources
- Managerial dashboards provide executives with unparalleled visibility
- Clear, easy-to-configure reports for different utility users and needs



TaKaDu Saves Time, Money and Effort:

- Improves operational efficiency
- Reduces event handling times
- Improves detection crew efficiency
- Cuts leak duration and saves water
- Reduces burst rates and related damage
- Alerts delivered only to the relevant employee, in real-time
- Improves planning and execution of meter maintenance and replacement
- Managers have full control and visibility into all metrics and operational activities



Data Sources:

- Online sensor data: flow, pressure, quality etc
- Network structure (GIS / schematics)
- Reservoir levels
- Repair records
- External data (weather, holidays, special events)
- More data if available: valve status etc.

Alerts types

- Leaks
- Bursts and main breaks
- Evolving Problems and Trends
- Unexpected flow and pressure variations
- Zonal breaches
- Service affecting pressure drops and increases
- Meter faults (transmission, reading errors, flips)
- Reservoir level anomalies
- Water quality anomalies

Takadu is the global leader in Water Infrastructure Monitoring, providing a Software-as-a-Service (SaaS) solution for water utilities. TaKaDu’s solution detects, alerts and provides real-time insight on leaks, bursts, network breaches and other network inefficiencies. The solution is based on complex algorithms which analyze existing online data from meters within the network



(flow, pressure, etc) and external data. TaKaDu’s patented technology is easy to deploy, requiring no network changes, no additional devices and no capital expenditure. The service is in use by leading water utilities worldwide. The company has won several industry awards, including the prestigious Technology Pioneer 2011 award from the World Economic Forum.

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