

RADAR

Cloud-Based User Platform

Water and Wastewater Networks



Syrinix
A Badger Meter® Brand



Water and wastewater utilities face mounting pressure to reduce non-revenue water loss and minimise environmental damage from pollution events.

With its clean and wastewater variants, the Syrinix family of **PIPEMINDER-ONE** monitoring solutions, log, detect, records, and alert on abnormal network events including transient activity, leaks, and bursts.

RADAR, Syrinix's intuitive cloud platform, analyses, displays, and alerts on data, providing high resolution insights in a user-friendly way, telling the utility workforce what, when, and where a problem has occurred.



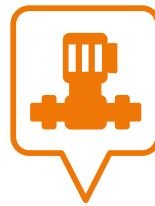
**Reduce
Leakage**



**Improve
Break Rates**



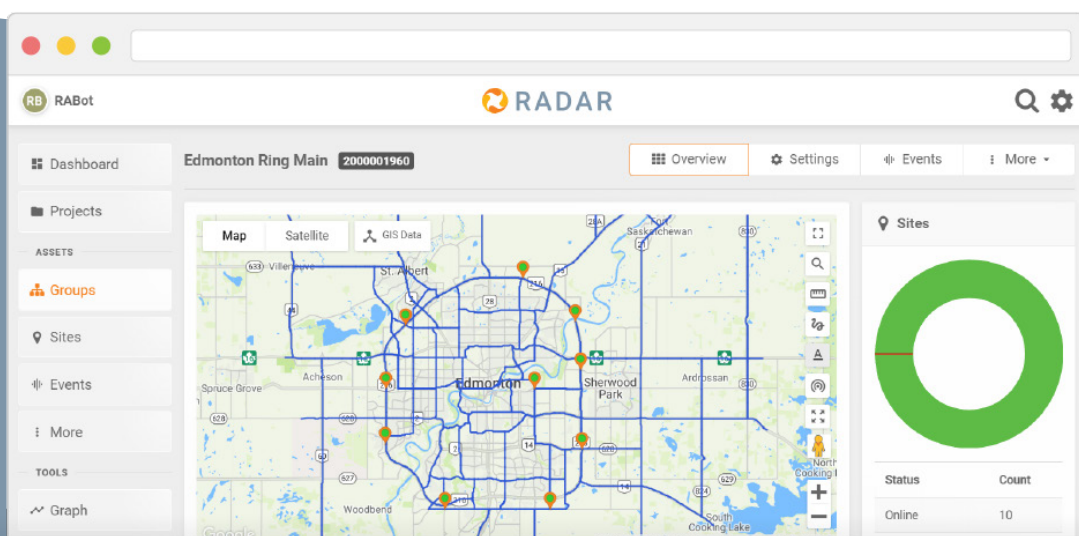
**Extend
Asset Lifetimes**



**Optimise
Performance**



**Increase
Satisfaction**



ACTIONABLE INSIGHTS. EASY TO USE.

Powerful highly intuitive user interface	See what you want and need in detail without lengthy training / roll-out programmes and with other data automatically filtered out.
Third-party data import and display	Easily import third-party data into RADAR for a "single screen view" including water quality, pressure, flow and SCADA pump / valve status changes.
Configurable automated filtering and alerts	Avoid data-overload and focus easily on what you need to with customisable filtering and alerts to highlight when important changes occur.
Safe, secure accessibility	Securely see what you need to see from wherever you need to see it, auto-scaled for your device.
Customer API data integration / export tools	Easily integrate your network data with simple to use tools and APIs for importing and exporting data sets and alarms.
Advanced GIS and Google Maps integration	Including street and satellite views and GIS overlay options to see your network as it actually is.

"The latest version of RADAR is a great evolution of the existing functionality provided by Syrinix... Navigation remains intuitive and the user experience of the app is the best I've seen. RADAR will enable our analysts to work more efficiently, improve insight generation, and reduce operational maintenance requirements of our fleet of devices."

Richard Fielding

Smart Water Systems Engineer

Anglian Water

CASE STUDY Las Vegas, Nevada

When the Las Vegas Valley Water District (LVVWD) experienced three pipeline breaks in close succession and proximity, they installed smart pressure monitoring devices to understand why.

The data provided by high-resolution monitoring with RADAR revealed that LVVWD was experiencing pressure transients with ranges exceeding 300 psi, twice that of the pipeline's maximum pressure rating.

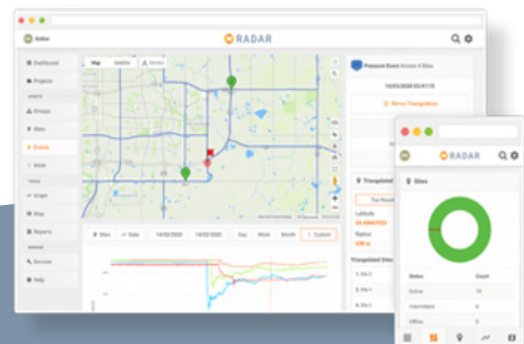
The PIPEMINDER devices were configured to monitor continuously at 128 samples per second and to summarise the minimum, mean and maximum pressure. The device takes a pressure reading, transmits the pressure data

through cellular signals to the RADAR cloud-based portal for data analysis. Available online and accessible on tablets and phones, RADAR provides rich data analysis and reporting on demand. Before deploying the PIPEMINDER units and RADAR, there was no way for LVVWD to accurately measure a transient; however, with technology like this, any changes in pressure could be monitored in hundredths of a second.



The large pressure spikes were occurring in less than 0.05 seconds, so high-resolution sampling at 128 samples per second was essential in detecting these events. Armed with the data, LVVWD was able to make operational changes that calmed the network, reducing the size of the pressure transients by more than 50% and keeping the operating pressures of the pipeline much closer to its maximum rating of 150 psi.

Read the full article in *WaterWorld* magazine.



About Syrinix

Syrinix is an award-winning global market leader in developing intelligent pipeline monitoring technologies, including the PIPEMINDER-ONE series for water and wastewater monitoring, the RADAR cloud-based network analysis platform, and Syrinix Intelligence analysis and consultancy services. Syrinix helps cost-conscious utilities move network management from reactive to proactive, detecting and mitigating network issues before they become failures.

www.syrinix.com/radar