

# **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 minimize 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, analyzes, 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.



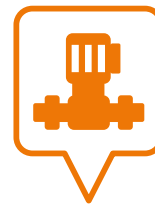
**Reduce  
Leakage**



**Improve  
Break Rates**



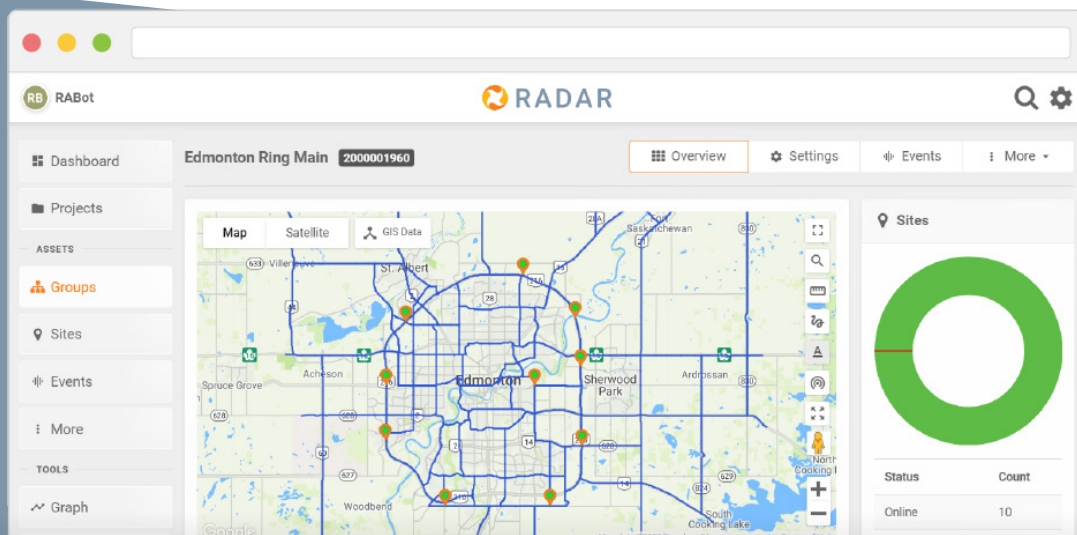
**Extend  
Asset Lifetimes**



**Optimize  
Performance**



**Increase  
Satisfaction**



# ACTIONABLE INSIGHTS. EASY TO USE.

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

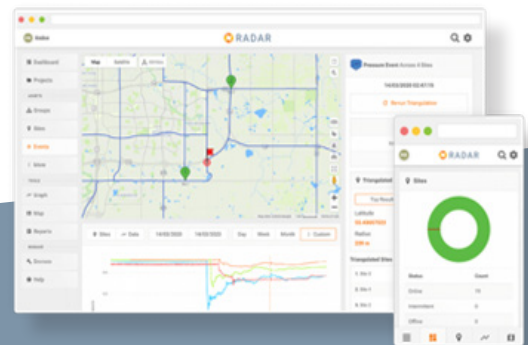
The PIPEMINDER devices were configured to monitor continuously at 128 samples per second and to summarize the minimum, mean and maximum pressure. The device takes a pressure reading, transmits the pressure data



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

Syrinx 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 Syrinx Intelligence analysis and consultancy services. Syrinx helps cost-conscious utilities move network management from reactive to proactive, detecting and mitigating network issues before they become failures.

[www.syrinx.com/radar](http://www.syrinx.com/radar)