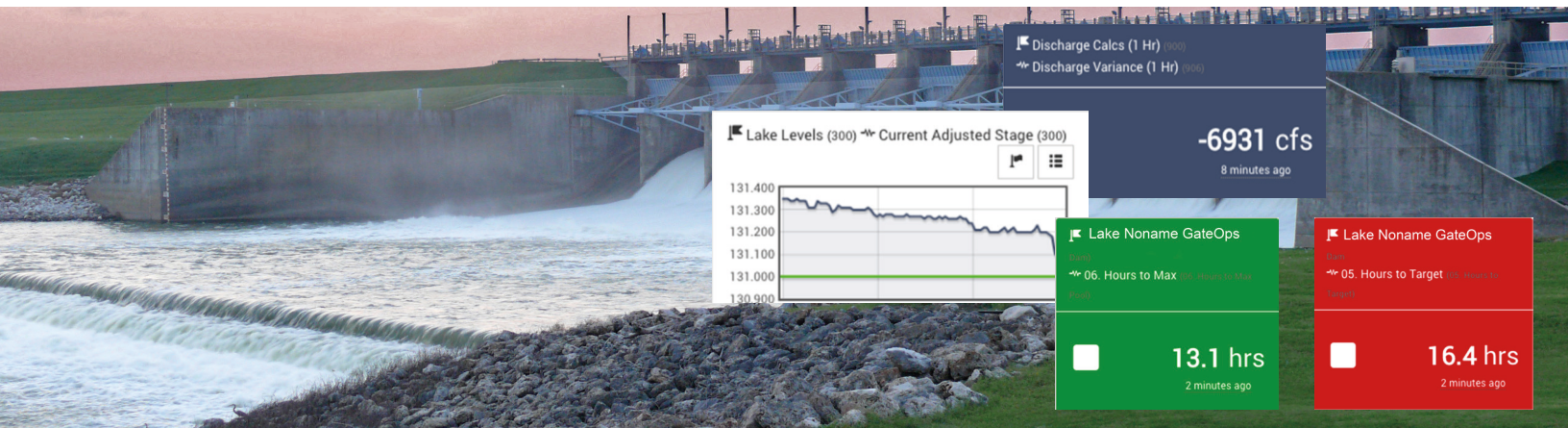


GateOps™ with AEM Elements® 360



Automated guidance for gate operating procedures

FEATURES

- **Automated Real-Time Analytics:** Performs continuous calculations using live data for accurate decision support
- **Intuitive Visualizations:** Easy-to-understand graphics and customizable dashboards simplify data exploration and decisions
- **Event-Based Alerts:** Enable operators to focus on the right information at the right time
- **Faster Decision-Making:** Accelerates planning and response
- **Advanced Insights:** Enables historical analysis, forecasting, predication, and operational optimization
- **Anywhere Access:** Secure 24/7 web-based access on both mobile and desktop devices for authorized users

Decision support for dam and reservoir operations

GateOps™, available as an add-on to the AEM Elements 360 software platform, delivers advanced decision support tools for hydrometeorologic applications. It provides real-time guidance for managing reservoirs during rainfall and inflow events, helping operators follow established operating procedures for dams and reservoirs with confidence and precision.

OVERVIEW

The primary objective during a rainfall or high-flow event is to safely manage the entire process—from onset through recovery—without compromising dam integrity or placing downstream communities at risk. An event is considered complete only when the reservoir has returned to its normal pool elevation.

GateOps automates complex calculations and analyses using real-time rainfall, streamflow, stage, and water-level data, combined with reservoir-specific calculations. The system recommends minimum and maximum outflow rates and prescribes discharge adjustments to guide operators in safely navigating the event and restoring the reservoir to nominal levels.

REAL-TIME GUIDANCE WITH GATEOPS

By integrating real-time processes, GateOps reduces the burden of manual calculations and minimizes the potential for error. Operators receive clear, actionable guidance aligned with established procedures, supported by intuitive dashboards and visualizations.

DATA MANAGEMENT AND DECISION SUPPORT

Custom dashboards deliver the most relevant and actionable data at the right time. This empowers operators to monitor critical conditions and make informed gate operation decisions quickly and accurately.

BENEFITS

→ Stay Ahead of Critical Events

Custom thresholds and real-time monitoring trigger instant alerts so operators can act before issues escalate.

→ Operate with Precision

Real-time discharge (cfs) tracking ensures safe, efficient gate operations.

→ Guided by Forecasts

Prescribed discharge values from inflow analysis support timely, confident adjustments.

→ See Reservoir Conditions Clearly

Lake Level displays provide accurate, up-to-the-minute monitoring at a glance.

→ Plan the Next Move

“Hours to Target” and “Hours to Max Pool” indicator keep operators informed of approaching thresholds.

→ Confidence, Simplified

Automated calculations and intuitive dashboards turn complex data into clear operational guidance.

