

SmartSights + Ignition

Integration Guide

WIN-911 | XLReporter | SmartSights Mobile

Why SmartSights with Ignition?

Ignition is an outstanding platform for connecting plant floor data, building HMI screens, and logging alarms and process history. But getting that data into the hands of the people who need it through alarm notifications on their phones, formatted reports in their inboxes, or trend charts they can pull up anywhere requires development effort. It requires Perspective screens to be built, scripts to be written, SQL queries to be designed, and notification pipelines to be configured.

SmartSights products are purpose-built to extend Ignition's functionality outside of the plant with minimal effort. WIN-911, XLReporter, and the SmartSights Mobile app integrate directly with Ignition through open standards with no Ignition modules to install, no scripting, and no SQL development required. Configuration is done through guided interfaces designed for engineers, not developers.

The SmartSights Advantage

- Integrates via open standards: OPC UA and standard SQL databases with no Ignition module installation required
- No scripting, no SQL development, no Perspective screen design needed
- Alarm acknowledgments are written back to Ignition so the alarm journal stays accurate regardless of notification channel
- Mobile access with no internet-facing infrastructure; the SmartSights Edge Gateway makes an outbound-initiated cloud connection

Alarm Data

Ignition captures and journals alarm events as they occur on the plant floor. SmartSights connects directly to the Ignition alarm journal database to unlock two powerful capabilities: real-time alarm notification delivery across every channel your team uses, and standards-based alarm performance analysis.

Alarm Push Notifications to Mobile Devices via WIN-911

WIN-911 polls the Ignition alarm journal to detect new and unacknowledged alarms, then delivers notifications through voice calls, SMS, email, or push notifications to the SmartSights Mobile app. Operators and engineers receive the right information at the right time, wherever they are.

- Voice call escalation walks the operator through active alarms and waits for acknowledgment

- SMS and emails are delivered to on-call personnel based on configurable schedules and escalation rules
- SmartSights Mobile push notifications: instant delivery to iOS and Android devices
- **Bidirectional: acknowledgments via any channel are written back to Ignition automatically**

Whether a technician responds to a voice call at 2 AM or taps Acknowledge in the mobile app from the parking lot, the Ignition alarm journal reflects that acknowledgment with no manual reconciliation required.

Setup Guide: [\[LINK: WIN-911 Ignition Alarm Notification Setup\]](#)

Setup Guide: [\[LINK: Push Alerts to SmartSights Mobile Setup\]](#)

Alarm Management Reporting — XLReporter

XLReporter's Alarm Management module reads the Ignition alarm journal database and produces ISA 18.2-compliant alarm performance reports automatically. Bad actors, alarm rates, flood detection, and response time analysis are delivered on schedule with no query writing, and no custom reporting development.

- ISA 18.2 KPIs: alarm rate, bad actor identification, response time, and shelved alarms
- Scheduled delivery to email inboxes, shared drives, or the SmartSights Mobile app
- Excel-based format that is familiar to engineers and ready for further analysis

Setup Guide: [\[LINK: XLReporter Ignition Alarm Management Setup\]](#)

SmartSights Mobile: No Perspective Deployment Required

A common question from Ignition users is: "Can't I just deploy a Perspective app for mobile access?" You can, but Perspective mobile access requires hosting an internet-facing server, managing SSL certificates, opening inbound firewall ports, and ongoing security maintenance. For many industrial sites, that's a significant IT and security burden.

The SmartSights Mobile app uses the SmartSights Edge Gateway; a lightweight on-premises component that makes an outbound-initiated connection to the SmartSights cloud. There are no inbound firewall ports to open, no VPN to configure, and no internet-facing servers to manage. Installation is guided through a simple setup wizard and takes minutes.

- Install the SmartSights Edge Gateway on any machine with internet access – this can be on a separate network layer from SCADA
- Download the SmartSights app on iOS or Android and log in with your user account

Historical Process Data

Ignition's Tag History module logs process values to a database over time, creating a rich record of plant performance. XLReporter connects directly to this historian database to turn raw time-series data into formatted reports and trend views that are delivered automatically, on-demand, or through the SmartSights Mobile app.

Automated Process Reports — XLReporter

XLReporter queries the Ignition historian database and populates pre-designed Excel workbook templates on an hourly, shift, daily, weekly, or monthly schedule. Reports land in inboxes or on SharePoint automatically, without any intervention from the operator.

- Scheduled reports: shift summaries, daily production logs, monthly performance reviews
- Excel-native format
- Distribution to email, Office 365 / SharePoint, shared network drives, or SmartSights Mobile
- Supports any database that is supported by Ignition

Setup Guide: [\[LINK: XLReporter Ignition Historian Connector Setup\]](#)

Trends and Diagnostics in SmartSights Mobile

The SmartSights Mobile app gives engineers and managers on-demand access to trend views and reports generated from the Ignition historian from anywhere in the world, on any iOS or Android device.

- View trend charts and reports generated from Ignition historian data
- Generate on-demand reports from the app without opening a PC
- Receive scheduled reports pushed directly to the app

Setup Guide: [\[LINK: XLR SmartSights Mobile Setup\]](#)

Live Process Data

In addition to alarm and historian data, SmartSights products can capture live tag values from Ignition via OPC UA, providing real-time process context alongside alarms, and as the basis for exception-based and on-condition reports.

Alarm Context Snapshots in WIN-911

When WIN-911 detects and dispatches an alarm, it can simultaneously read live tag values from Ignition via OPC UA and include them as context in the notification. The operator receiving the alarm doesn't just see which alarm fired — they see the relevant process conditions at the moment it fired.

- Live tag values read from Ignition via OPC UA at the moment the alarm fires
- Included inline in voice call, SMS, email, and mobile push notifications
- Helps operators make faster, better-informed decisions before reaching the plant floor

Setup Guide: [\[LINK: WIN-911 OPC UA Data Snapshot Setup\]](#)

On-Condition and Periodic Snapshots in XLReporter

XLReporter's Report as You Run technology captures live tag values from Ignition via OPC UA on a schedule or when a condition is met, such as when a batch starts, a setpoint is exceeded, or a production target is reached. These snapshots can be formatted into reports and distributed immediately.

- Trigger reports on time intervals, tag value changes, or process events
- Capture values from any OPC UA-accessible tag in Ignition
- Combine with historian data for before/during/after process context in the same report

Setup Guide: [\[LINK: XLReporter Ignition OPC UA Connector Setup\]](#)

Contact Information

For any questions or concerns, please reach out to the SmartSights Support Team at:

1-512-326-1011 or via the Support Portal <https://supportdesk.win911.com/s/contactsupport> to submit a ticket.