



SEAMLESS INTEGRATION WITH AASHTOWARE SITEMANAGER

We partnered with the Louisiana Department of Transportation and Development (LADOTD) to set up a real-time connection between their AASHTOWare SiteManager implementation and the HeadLight platform using our Live Connect technology. Live Connect runs in a virtual environment and ensures all data captured in the Fieldbook App is bi-directionally synced with SiteManager to automatically populate each observation, line item, and daily work report in the appropriately mapped fields.

This connection allows LADOTD field inspectors to collect data, submit reports in pre-defined SiteManager workflows and make everything accessible across the organization, in real-time, all the time.

WHY LADOTD CHOSE TO INTEGRATE

ELIMINATE DOUBLE DATA CAPTURE

Data captured in the Fieldbook App automatically syncs to SiteManager in real time.

CREATE REAL-TIME TRANSPARENCY

Daily job site activity was unavailable in SiteManager, and most DWRs (Daily Work Reports) were completed days or even weeks after the fact. As a result, issues were often not captured accurately nor resolved quickly.

HEADLIGHT

Managed almost all technical development tasks to ensure a low impact integration.

WHAT LADOTD ACHIEVED

PRODUCTIVITY GAIN ESTIMATED AT \$10M

LADOTD estimates it saves 38 administrative hours per month across 550 inspectors in the field.

REDUCTION IN PROJECT DELAYS SAVES \$2.5M PER YEAR

Real-time decision-making allows LADOTD to gain an estimated 500 working days annually by faster resolution to job site issues.

NO HEADLIGHT DATA LOSS DURING LADOTD DOWNTIME

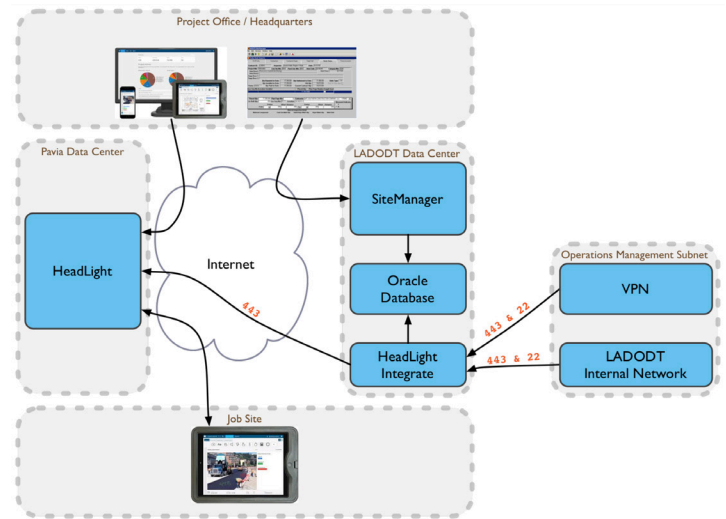
LADOTD suffered extensive network and SiteManager downtime from a malware attack and multiple outages due to hurricanes. Because HeadLight operates securely in the cloud, all field inspection data was stored and secured during the downtime and instantly synced back to SiteManager when the systems came back online.

“ The overall integration process was a light lift for LADOTD. ”

- Matt Jones, Systems Engineer, LADOTD

SYSTEM CONNECTIVITY AND INTEGRATION DATA FLOW

The following diagram depicts the connection points and access points for the SiteManager and HeadLight Integration. Arrows indicate the direction the connection is requested from. Connection ports are indicated when they interact with the HeadLight Live Connect service.



PROJECT OFFICE/HEADQUARTERS

Encompasses all access points to SiteManager or HeadLight that are performed away from the job site (or the field).



HEADLIGHT DATA CENTER

Information collected from the job site via HeadLight is securely stored and hosted on Amazon Web Services. All restful API requests occur across a 2048-bit digicert secured socket connection with TLS.



DOTD DATA CENTER

A secure server environment managed by LADOTD. The SiteManager application and HeadLight Live Connect Integrate application will reside within the LADOTD Data Center and firewall.



JOB SITE

Where all field work occurs and in cases with no connectivity, HeadLight will store the data locally and synchronize when connection occurs (either cellular or wifi).



OPERATIONS MANAGEMENT SUBNET

This zone defines which segments of the LADOTD network require back-end access to the HeadLight Live Connect service. These include access from both the VPN zone and the LADOTD internal network via port 22 and 443. Services exposed on both of these ports are encrypted and secured via authentication.



Learn how our solutions unify construction oversight and inspection teams with trustworthy, real-time project data to deliver quality infrastructure.