

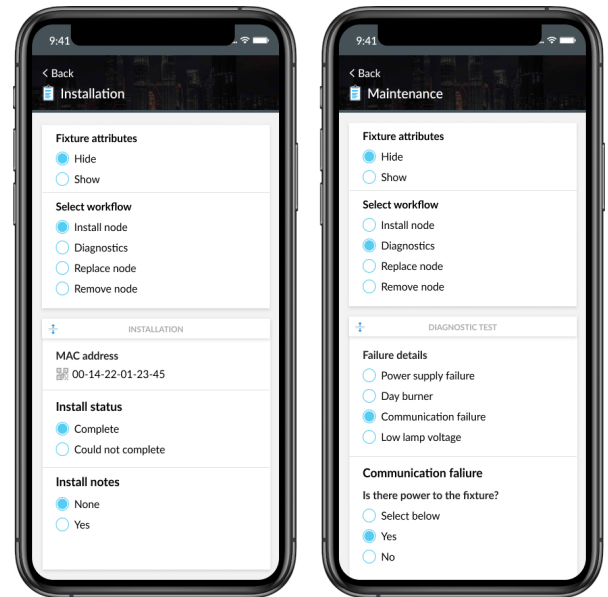
The Industry's Most Trusted Solution for Managing Smart Streetlight Operations

With over 10 million streetlights under management and trusted by industry leaders, including 9 of the 10 largest US utilities, Exelon, Dominion Energy, the City of Chicago, City of London, Glasgow, Jamaica Public Service and many more, TerraGo accelerates energy savings and lowers operations and maintenance costs with a clear, measurable ROI.

With TerraGo, you get a customizable application, integrated with all your back-office systems, with all the features of a smart streetlight solution that is already field-proven and operationally-verified for the successful implementation and management of smart streetlights. Your TerraGo solution will include customized planning, inventory, installation, maintenance and work order modules, not a generic asset management solution or rigid, off-the shelf product. You also get data analytics dashboards so you can see the metrics that drive performance and optimize your operations.

SMART FEATURES THAT TRANSFORM STREETLIGHTING OPERATIONS

Your lighting Central Management System (CMS) makes your lights work smarter. TerraGo makes your people work smarter. If you want to transform your operations, reduce truck rolls, improve service levels and lower costs, you need TerraGo. TerraGo seamlessly manages all the data you need to manage your project. From updating Networked Lighting Controller inventory and assigning streetlight outage work orders, to providing a bird's eye view of all streetlight assets, TerraGo helps you manage your smart streetlight project from start to finish and then optimizes ongoing maintenance. More than a plug-in to your lighting CMS, TerraGo integrates all your back-office systems so field crews can tap into ondemand features and data, accessing and updating all your systems on their phones and tablets including CMS, GIS, customer billing, asset management, work orders and more.

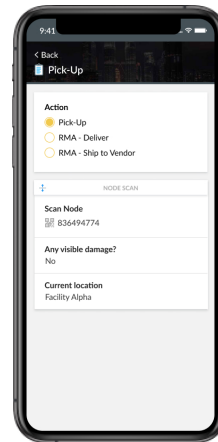
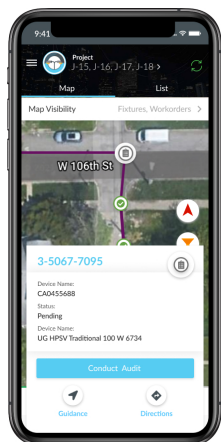


FEATURES

- Field-proven and operationally-tested smart device features
- Modules include planning, inventory, installation, maintenance and work orders
- Out-of-the-box integration with leading platforms and configurable integration Platform-as-a-Service (iPaaS) to connect back-office systems
- Customizable workflows and fully-branded iOS, Android and web apps



5 Integrated SaaS Modules Deliver Measurable Benefits and a Clear ROI

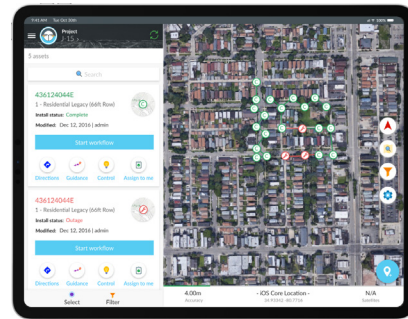
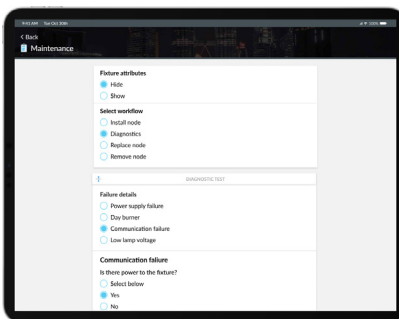
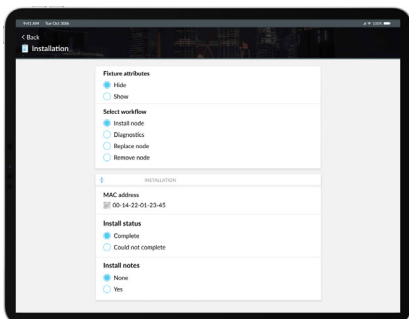


PLANNING

- Configurable planning workflows including field audits and lighting surveys
- Verify and update streetlight data & attributes (pole, feed, arm, fixture, etc.)
- Updates streetlight records in GIS and back-office systems, including location & attributes
- Create LED conversion plan with fixture types and wattage. Generate projected savings for investment and financial plan approval.
- Generate service tickets at time of audit where maintenance required, vegetation needs removed, etc.
- Corrects billing errors, identifies lost revenue and lowers expenses by enabling multiple site tasks with a single visit

INVENTORY

- Configurable inventory and logistics workflows including with receiving, loading, transferring, assigning, disposing, returning to stock, RMA and more
- Provides a full, chain-of-custody management solution for your critical assets
- Scan pallets, boxes or individual nodes for real-time tracking and data verification
- Full record revision history tracks every change with user, date and time stamps
- View location of nodes & workers in real-time, assign tasks based on proximity



INSTALLATION

- Configurable installation and commissioning workflows such as new controller or fixture installation and more
- Display streetlights on a map view or list view
- View and update light, fixture and controller attributes and conditions
- Eliminate errors with data validation, location and proximity detection
- Scan QR/Barcode to capture fixture attributes and serial numbers
- Updates CMS with pole and fixture data collected in the field
- Automatically provision the installed controllers through CMS
- Provides commissioning and communications status updates from CMS

MAINTENANCE

- Configurable maintenance and operations workflows including outages, replacements, removals, inspections and more
- Generate automated maintenance work order notifications based on workflows
- View failure reports (current and historical) and outage status directly on mobile devices as updated directly from CMS
- Control in real-time, one or more (based on configurable parameters) lights from a mobile device through CMS
- View meter readings from CMS for lights being controlled directly on mobile devices to help field crews troubleshoot issues
- Includes simple replace and remove controller workflows with automatic updates to CMS

WORK ORDERS

- Configurable work order workflows for creating, assigning and updating work orders
- Enables a customer to perform full work order management from within TerraGo or seamlessly integrate with an existing enterprise platform
- Consolidates work orders from CMS-generated alarms and citizen 311/manual requests from an enterprise platform
- Eliminates redundant work orders and combines related requests
- Automates crew notifications and reduces field dispatch dependencies enabling crews to work and close tickets independently
- Improves efficiency of work orders by enabling crew to work orders in proximity



Your Streetlight Operations Center

TerraGo provides the industry's first single pane of glass capability that provides a unified view of streetlighting operations and data, bringing together your infrastructure, customers, crews, work orders and back-office systems so you can truly work smarter than ever before.

Software-as-a-Service (SaaS) Modules

TerraGo provides SaaS product modules that tap into your back-office systems to bring real-time data, on-demand control and step-by-step diagnostics to your crew's smartphones and tablets. TerraGo SaaS product modules provide full-lifecycle, configurable workflows that help cities & utilities deploy faster, achieve rollout targets, keep projects on-time and on-budget, accelerate savings, and lower operations & maintenance costs. TerraGo replaces paper forms and manual processes with intelligent, connected systems that enable the most efficient operations possible.

Integration Platform-as-a-Service (iPaaS)

TerraGo's iPaaS greatly reduces the time, cost and complexity of systems integration and simplifies interfacing with back-office platforms. iPaaS provides an intelligent data synchronization and application interface module that configures and manages direct, secure, 2-way APIs between the TerraGo server and back-office platforms. iPaaS also manages the data interfaces and API requests to back-office systems with business rules configuration, monitoring, and change management.

Analytics-as-a-Service (AaaS)

TerraGo delivers custom dashboards, progress reports and actionable intelligence fused from multi-platform data sets and tailored specifically to your operations and objectives. From planning to deployment and maintenance, TerraGo delivers the insights you need to drive performance, accelerate savings and lower expenses at every stage of your streetlight operations.

PRODUCT OVERVIEW: TERRAGO PLATFORM



TerraGo StreetlightOps helps accelerate timelines and improve results at every stage.



BUILD A PLAN

for multiphase LED and Networked Lighting Controller (NLC) projects



DEPLOY FASTER

to achieve rollout targets, reduce O&M costs and accelerate energy savings



REDUCE TRUCK ROLLS

with apps that help install, maintain, diagnose and repair assets



BREAK DOWN SILOS

to sync data across CMS, GIS, asset management and back office systems



PUT CONTROL IN THE HANDS

that need it most so crews can turn on, cycle and control lights



SEE METRICS THAT DRIVE PERFORMANCE

with program status, work orders and crew dashboards



MANAGE FULL CHAIN OF CUSTODY

and track assets from manufacturers through full lifecycle



CUSTOMIZE MOBILE WORKFLOWS

to reduce task times, maximize productivity and eliminate errors



"TerraGo has been an invaluable asset to our smart street lighting initiative in Chicago. By integrating our systems, we can work smarter in ways that were never before possible."

- David Reyes from the City of Chicago, Smart Cities Connect industry conference seminar



"In large-scale installations involving thousands of smart devices, the TerraGo mobile application is especially useful in helping crews efficiently navigate to and from locations, automating the commissioning of lights and accelerating energy savings and other benefits to our communities. The system puts complete project workflows in the palm of your hand, streamlining the entire installation process."

- Shay Bahramirad, Vice President, Engineering and Smart Grid, ComEd