# TECHNICAL BRIEF

# UtiliSphere™ Mobile

*Collect, analyze and take action on the most accurate and real-time data from the field*

*July 2012*

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# Introduction

Numerous energy and utility companies already have initiatives to evaluate deploying mobile tablets to their workforce. Meantime, many front-line locators are using their own mobile devices to perform daily maintenance and operation (M&O) work in the field, such as preventing excavation damage.

Analysts estimate that today, about 30% of mobile devices connected to the corporate network are owned by the employees. Going forward, it is expected that this trend will continue to increase and result in a client computing world where individuals use technology on a more continual, fluid, natural, dynamic and often-invisible basis.

At **irth** Solutions®, we see how mobile is revolutionizing the energy and utility industries, resulting in a natural part of an individual's daily activity, rather than a unique and separate activity. Mobile (tablets, phones and laptops) is a great productivity enhancer that enable front-line, remote workforce to access and update real-time information while on-site that will change the way they conduct one job and move to the next one. In addition, mobile is enabling remote workforces to collect on-the-spot, accurate data. By instantly integrating that data into a system like UtiliSphere, it provides real-time data for everyone in the organization – from corporate management, to field management, to field technicians – to make better decisions to take the right actions that impact the three most important areas of the business: protecting system delivery, meeting regulatory compliance and ensuring public safety.

Tablets and smartphones are key technologies today to get access to real-time data, and we're excited to introduce you to UtiliSphere™ Mobile in this technology brief. As leaders in the industry, we at **irth** Solutions continue to constantly look at new ways to collect the most accurate and real-time data.

## Mobile App

UtiliSphere Mobile leverages real-time data sources to quickly capture and process data as it arrives. The mobile applications of UtiliSphere – including the field-focused features of **irth**net, uMonitor and uCalibrate – include solutions for managing the excavation request processes and logging activities for system excavation observation to ensure real-time system protection, safety and compliance with or without an Internet connection.

Only a genuine mobile application, available on both the iOS and Android tablets, is able to deliver on the true promise of mobility. Built using the latest technology, including the Android and iOS platform, UtiliSphere Mobile gathers accurate real-time data faster to enhance decision-making abilities.

*UtiliSphere Mobile is a genuine mobile application, enabling the field workforce to complete their critical work, even without an Internet connection.*

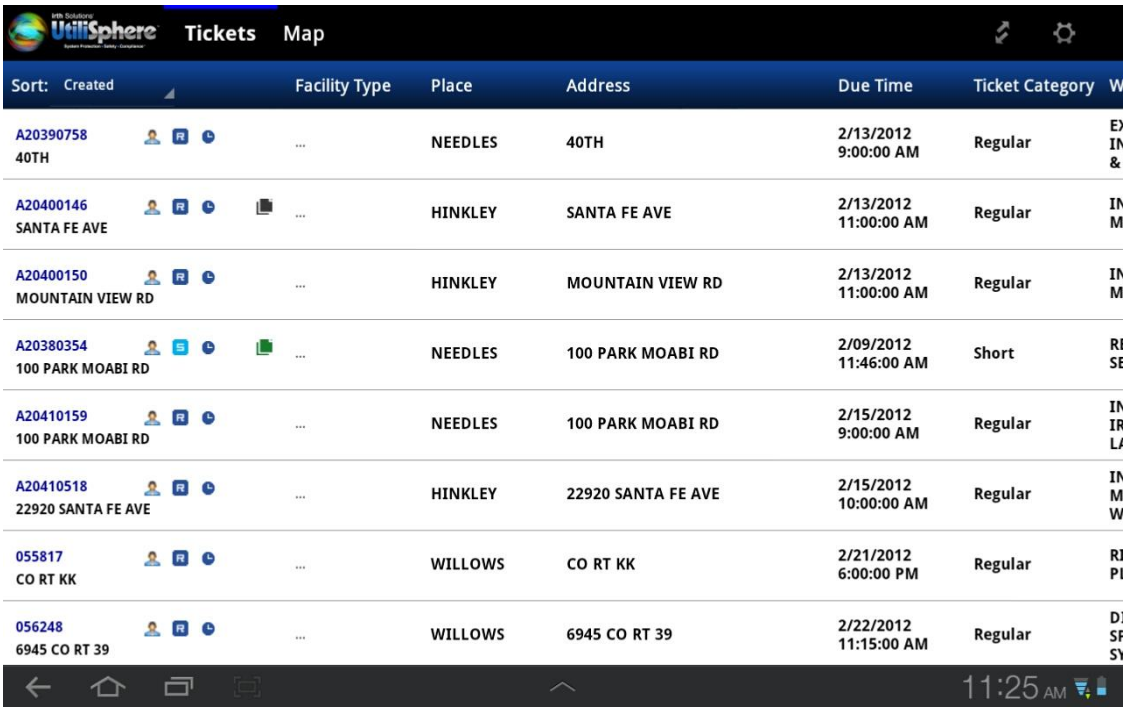
# Ticket Management

Constantly evolving, UtiliSphere **irth**net® has set the industry standard for ticket management for more than 15 years. Selected by numerous enterprise energy and utility companies, **irth**net provides the most accurate, efficient and trusted solutions for the damage prevention industry. UtiliSphere Mobile makes key features of **irth**net available to the field workforce to improve productivity, with our without an Internet connection.

## Ticket Summary

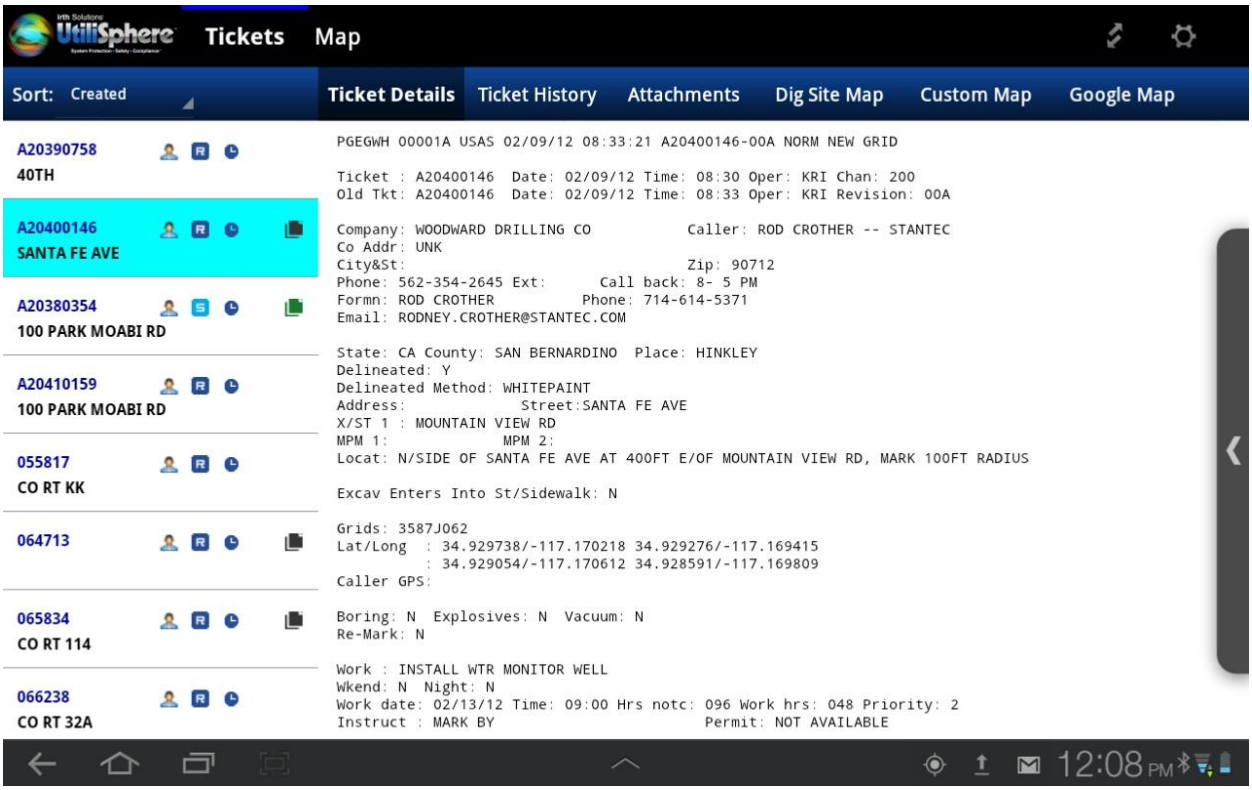
The Ticket Summary provides a snapshot of excavation request tickets. These views of excavation request information provide for more personalized and productive way to review, manage and process tickets.

Simple navigation enables quicker, better, and improved communication of critical information to protect your system. By applying best practice techniques from popular web-based applications, the user experience, usability, and navigation have been enhanced. Rest assured that current users will be immediately familiar with our latest enhancements, improving productivity for locators, operators and administrators.



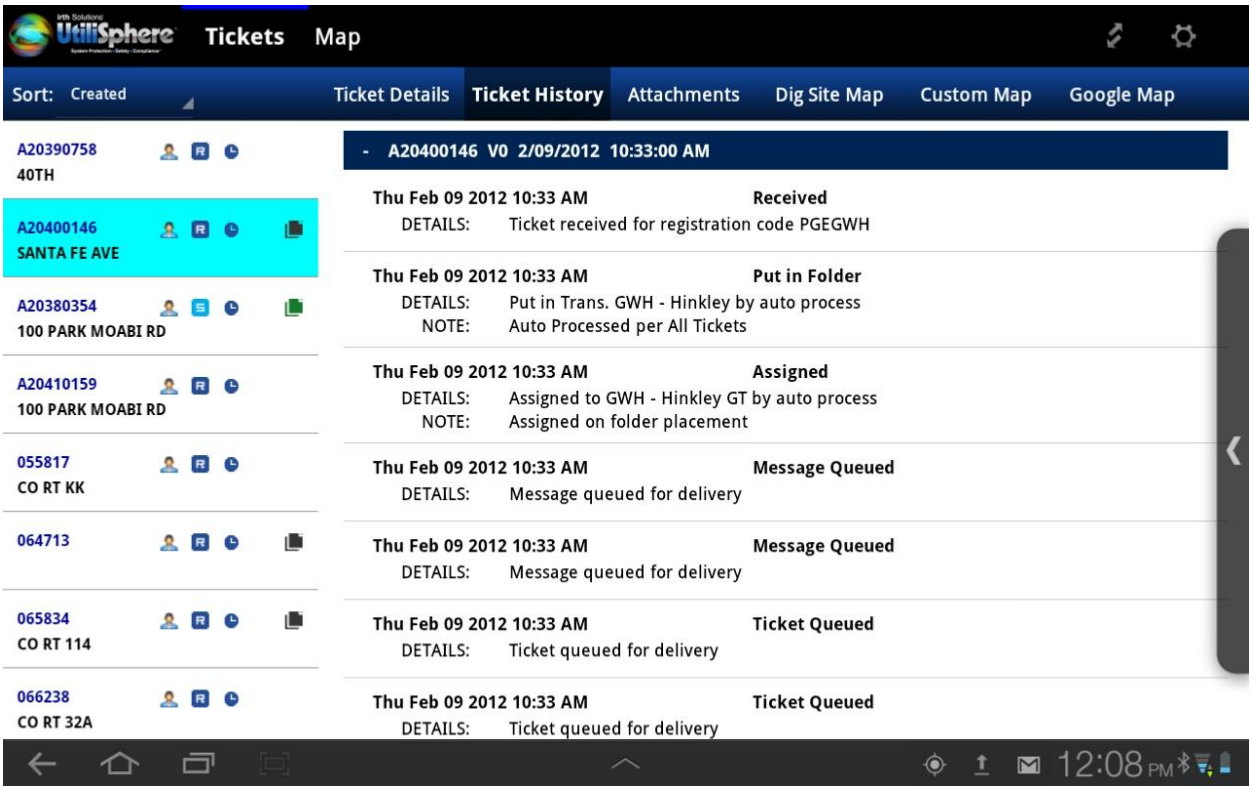
## Ticket Detail Screen

The Ticket Detail Screen enables the Locator in the field to easily access and quickly prioritize or complete the job as it offers the text of the ticket, ticket history, attachments, map and other key details.



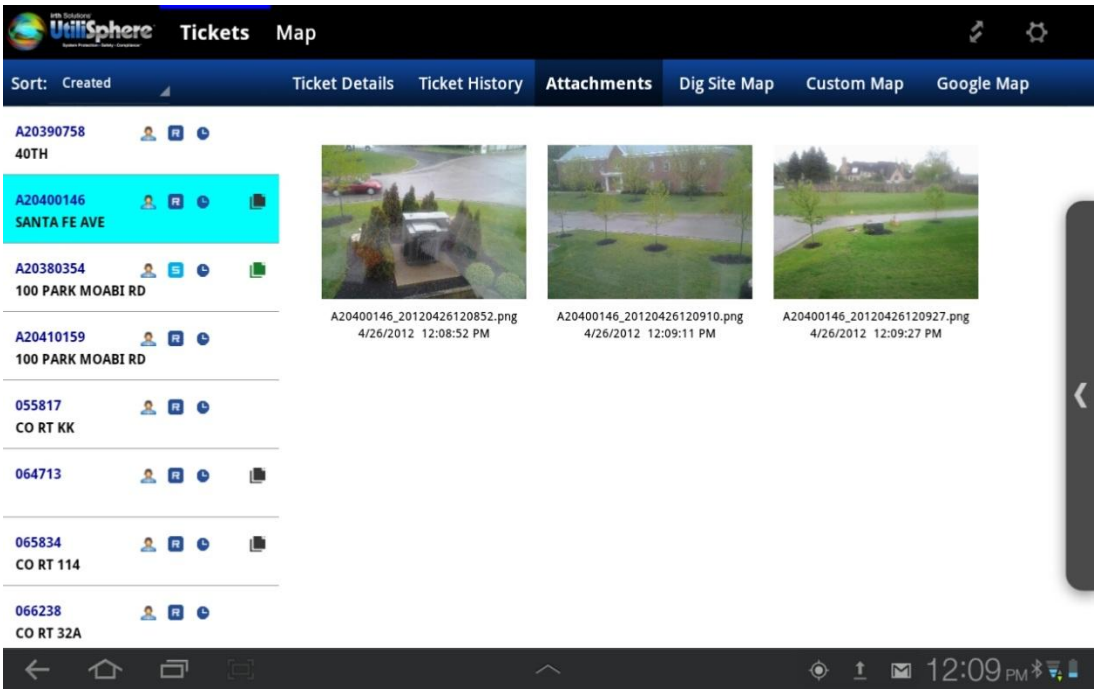
## Ticket History

UtiliSphere keeps a history of tickets, and UtiliSphere Mobile helps improve productivity with complete knowledge of previous actions, notes and attachments to the ticket.



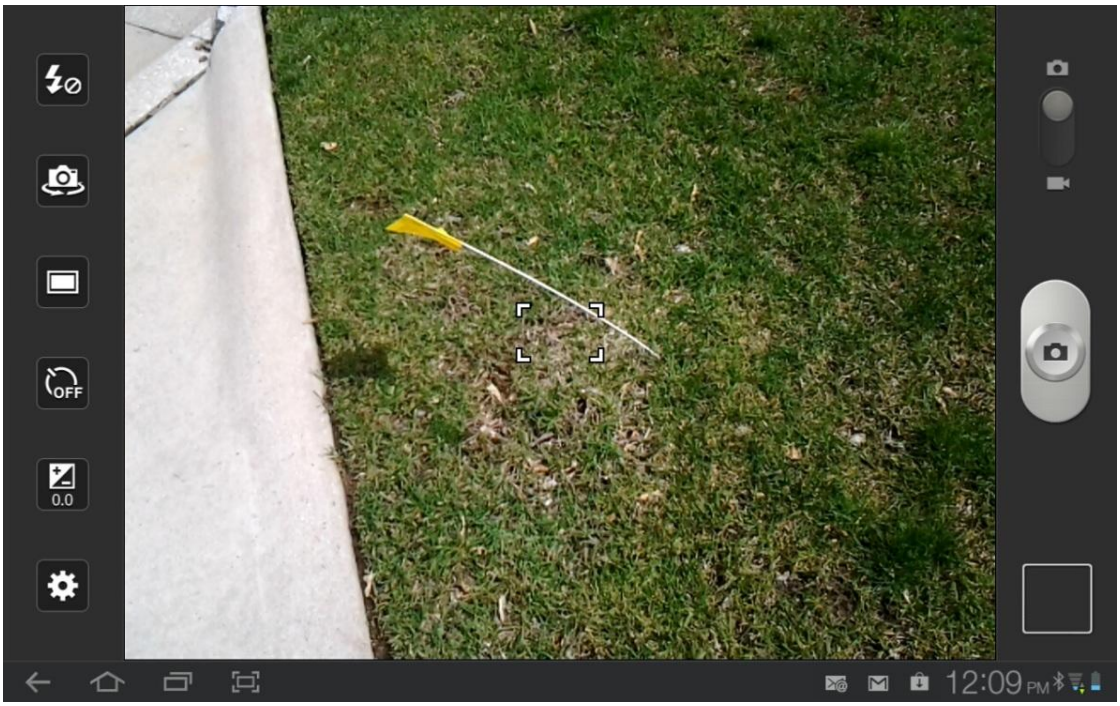
## Ticket Attachments

UtiliSphere Mobile allows users to upload and attach photos, videos, signed files, and other evidence of monitoring and excavation activity to help ensure system protection and public safety.



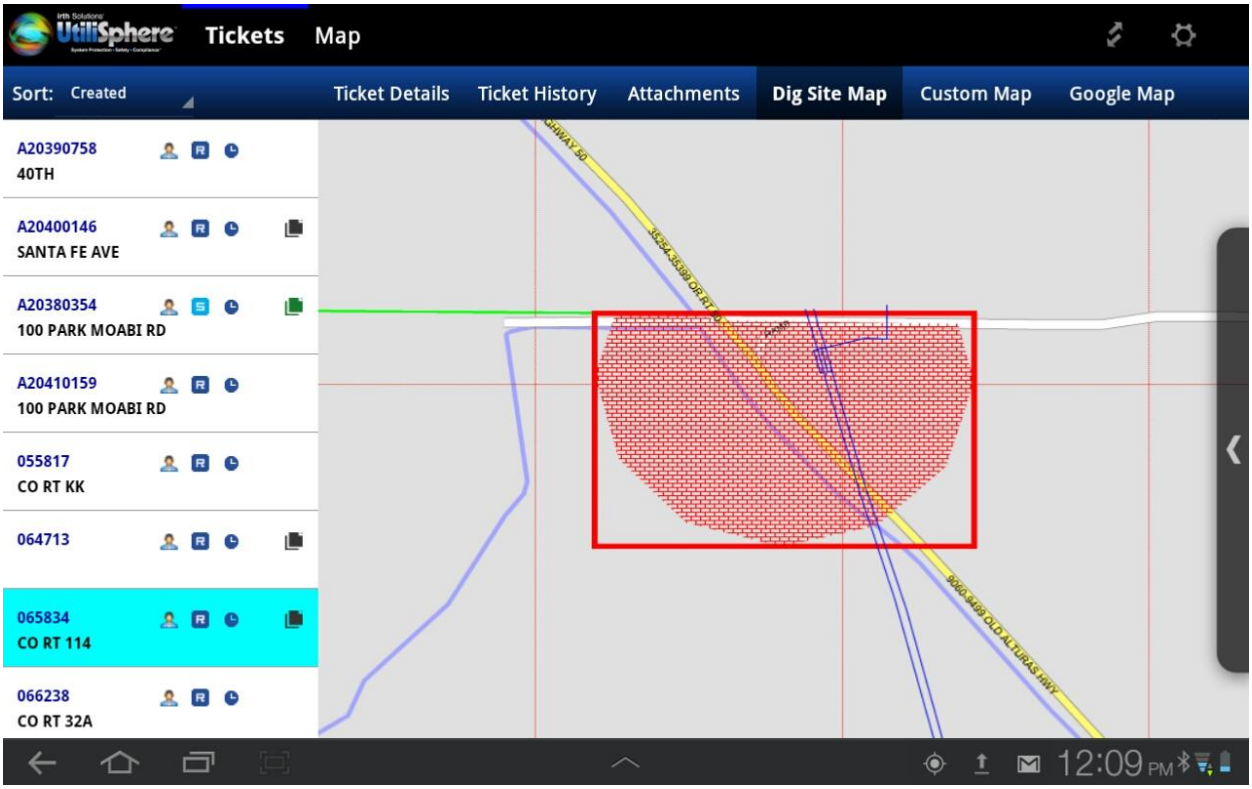

### ADD PICTURE

UtiliSphere Mobile leverages the tablet's native camera to add a picture, eliminating the time-consuming logistics of carrying and connecting to another device to submit electronically with the response.



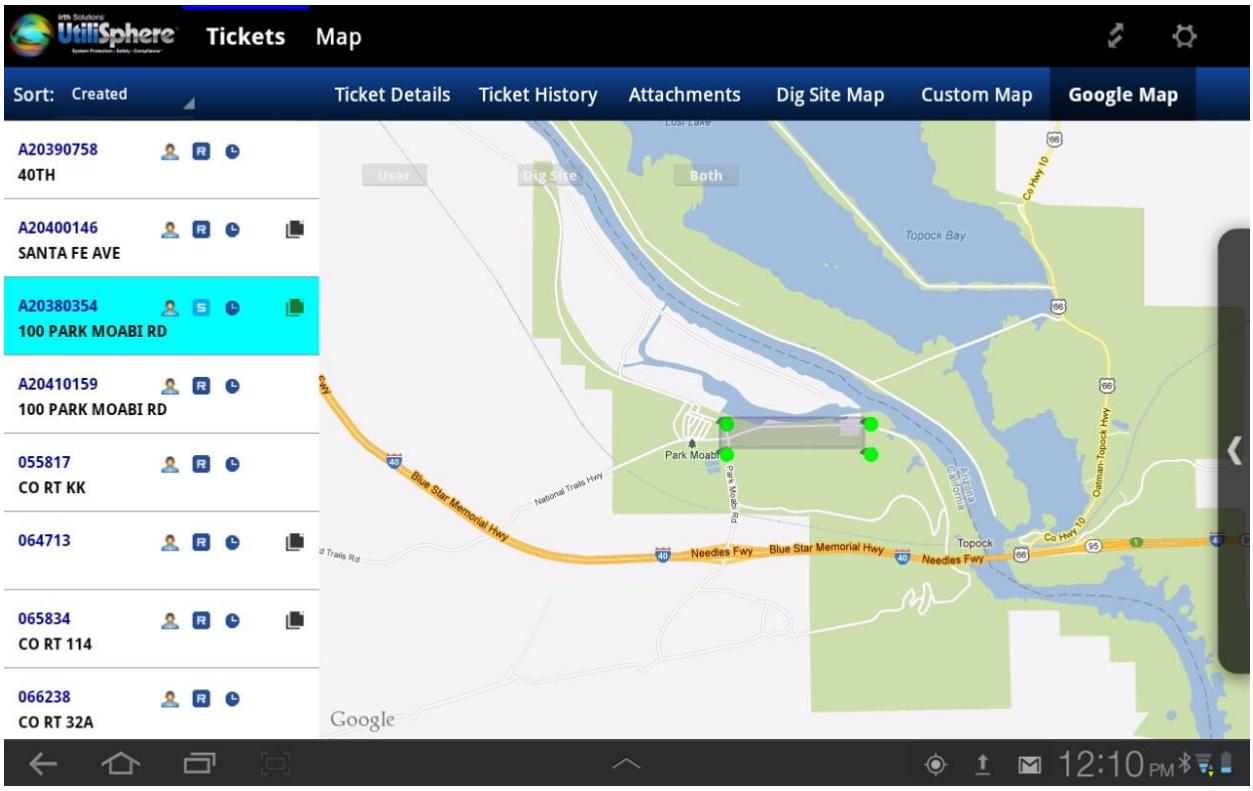
## Dig Site Map

Facility Mapping helps improve operational efficiency and reduces risk to public safety. Facility shapes pinpoint system locations and buffers to quickly identify if the excavation activity is a threat to the system or to public safety.



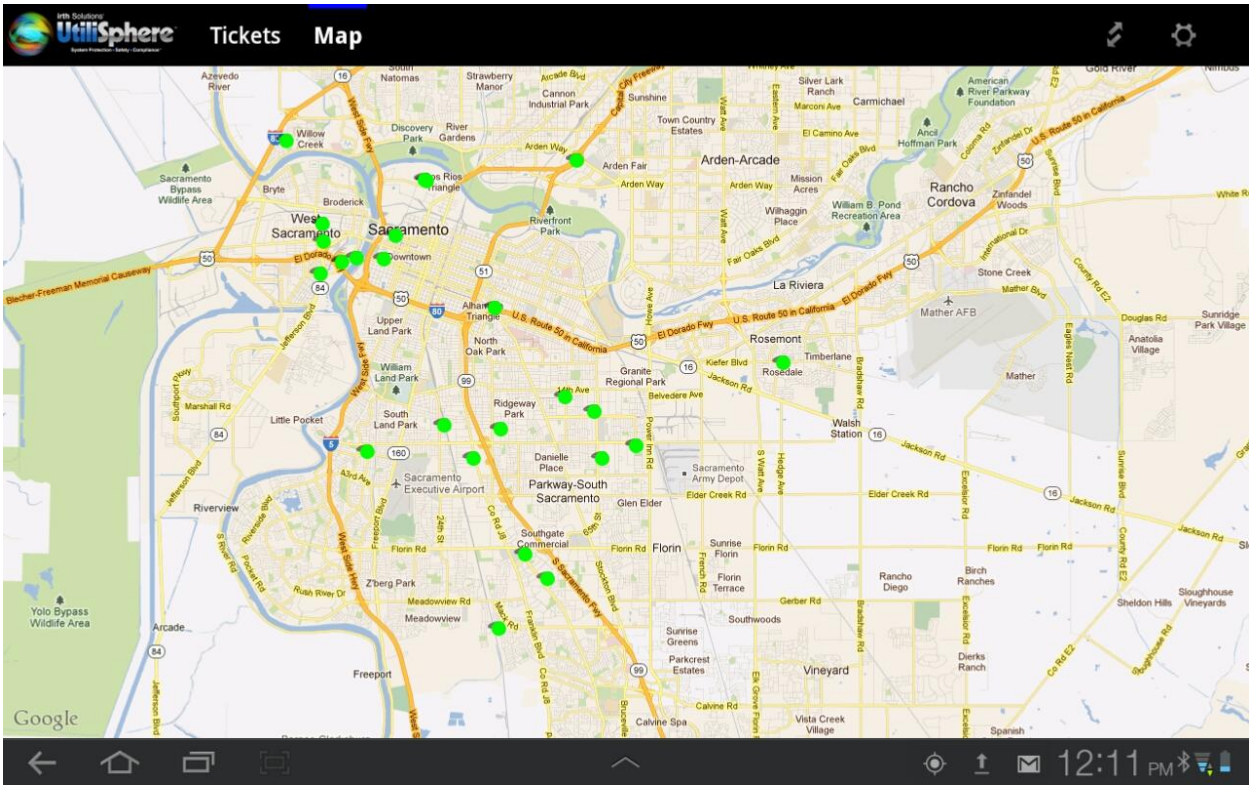
## Maps

Geographical system locations and excavation sites are displayed in UtiliSphere via a GIS land-based system (Tom-Tom) which identifies the most updated street information to improve the accuracy of the marking as well as increase safety of the public. UtiliSphere Mobile also incorporates public street map systems from Google, which provides another reference point as well as enables the Locator to map out work activity and plan the most efficient route to each excavation site.



## Map Navigation

Map Navigation provides a visual representation of assigned tickets to help ensure the Locator in the field can plan the most safe and efficient route. The interactive map enables zoom for more or less detail and the ability to view the ticket number for that dig site with a single tap a green circle icon.

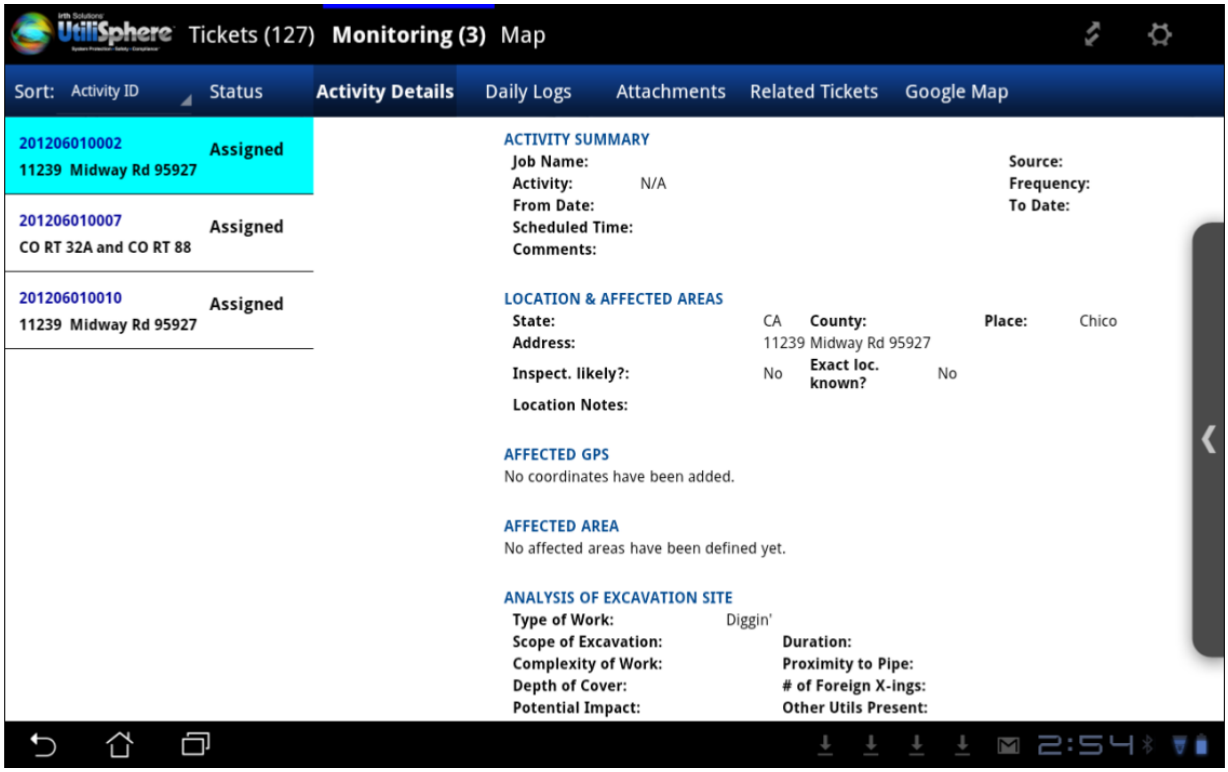


# Monitoring

UtiliSphere Mobile makes key features of UtiliSphere uMonitor available to the field. uMonitor provides a complete and accurate overview of excavation activity, minimizing risks and potential hazards. Additionally, uMonitor provides the ability to monitor and record excavation activities from the point of discovery through excavation completion.

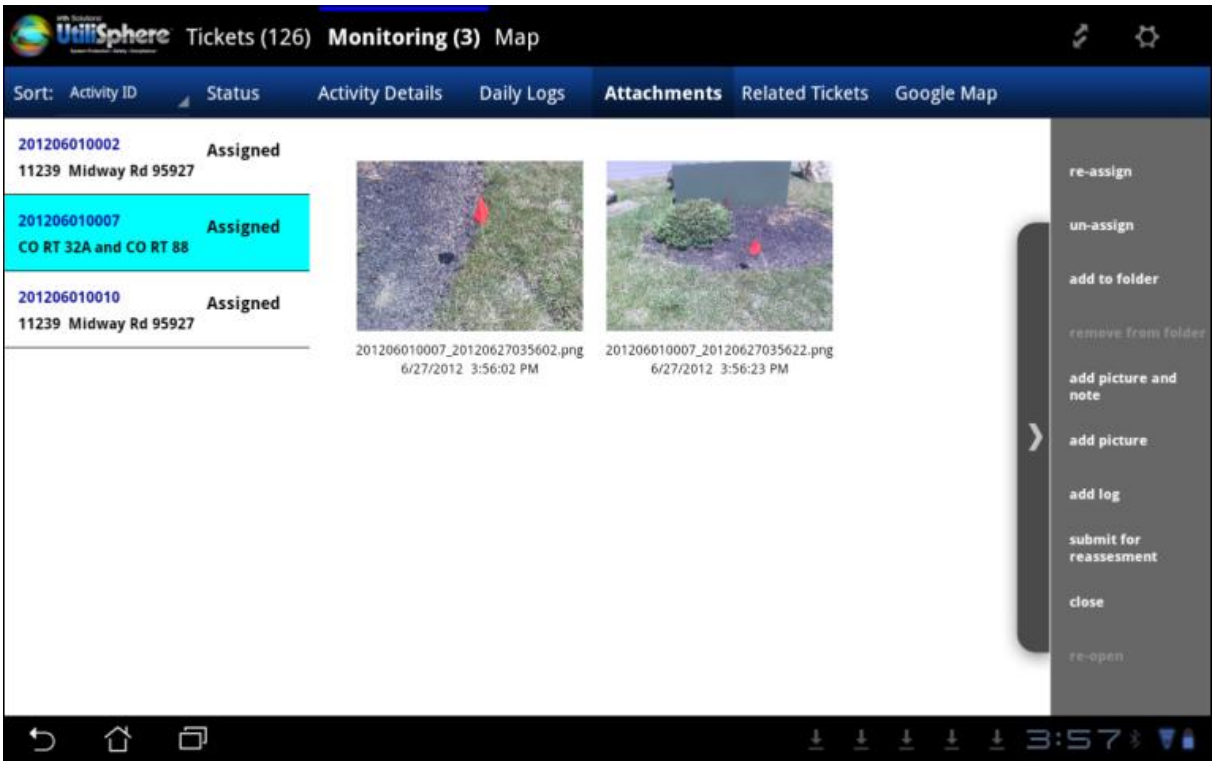
## Activity Logging and Tracking

Record end-to-end system management activity to create a complete view of all the excavation activities surrounding critical systems, coordinate the efforts of internal resources to improve efficiencies for related system management activities, and proactively manage and rate excavators to identify high risk to critical systems.



## Photo & Forms Attachment

Attach photos and forms observations to provide evidence of monitoring activity for proof of threat to the system and public safety.

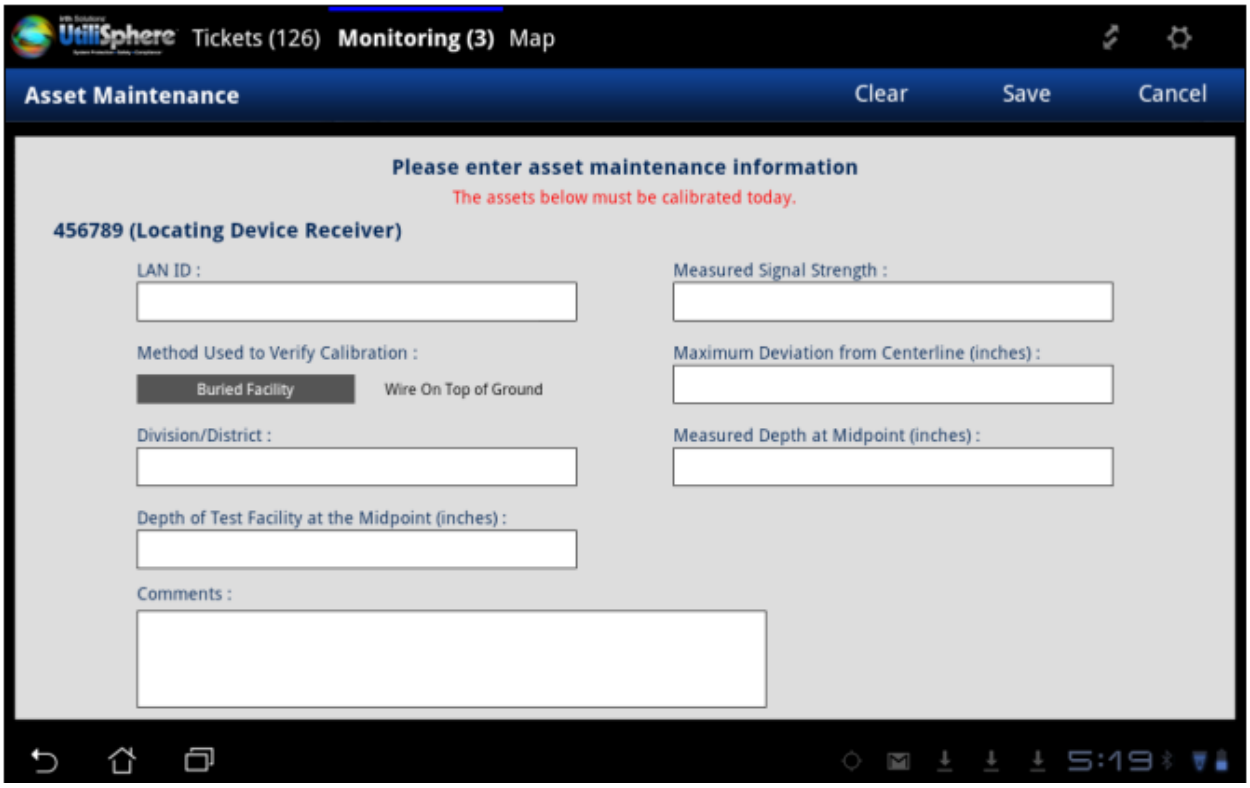


## Asset Tracking

UtiliSphere Mobile leverages the features of uCalibrate to help ensure safety by preventing devices from being used during mark and locates while out-of-calibration. UtiliSphere links the device to the dig requests, logs the marker's device information and incorporates its calibration history. Plus, it alerts you when marking devices need to be recalibrated or if an unsafe device is about to be used.

## Calibration Warning System

UtiliSphere Mobile helps prevent non-calibrated marking devices from mismarking system locations, schedules time increments for devices to be re-calibrated and warns the user if an un-calibrated device is about to be used. In addition, it prevents the user from entering activity into a ticket.




## Conclusion

Tablets, laptops and smartphones in the field can enhance the communication of critical information to the people that need it most. In addition, mobile technology can empower the field workforce to update the information on-site and get the most accurate information possible in real time. This dynamic information is fed into models that identify and prioritize where the next focus should be in the field to protect critical assets while ensuring safety and compliance.

As leaders in the industry, we at **irth** Solutions continue to constantly look at new ways to collect the most accurate and real-time data. To learn more about UtiliSphere Mobile visit www.irthsolutions.com or contact sales@irthsolutions.com

## About UtiliSphere

UtiliSphere™ is a business intelligence solution for the utility and energy industries. Leveraging our Software-as-a-Service (SaaS) platform, it transforms raw data into actionable insight for delivery system protection, safety and compliance. As an integrated platform, UtiliSphere collects, analyzes and reports on utility delivery system activities, such as ticket management, safety monitoring, public awareness tracking and much more. By using UtiliSphere, organizations improve system uptime, increase workforce efficiencies, ensure regulatory compliance and enhance public safety.

## About irth Solutions

**irth** Solutions®, Technologies For Earth™, provides the leading business intelligence solutions to gas, oil, electric, telecommunications and other utility companies across the country to increase operational efficiency, improve workforce productivity, comply with regulatory requirements and ensure public safety. For nearly two decades, **irth** Solutions has processed thousands of billions of bits of data and has met the unique needs of each customer with unmatched service and ground-breaking system protection, safety, and compliance.