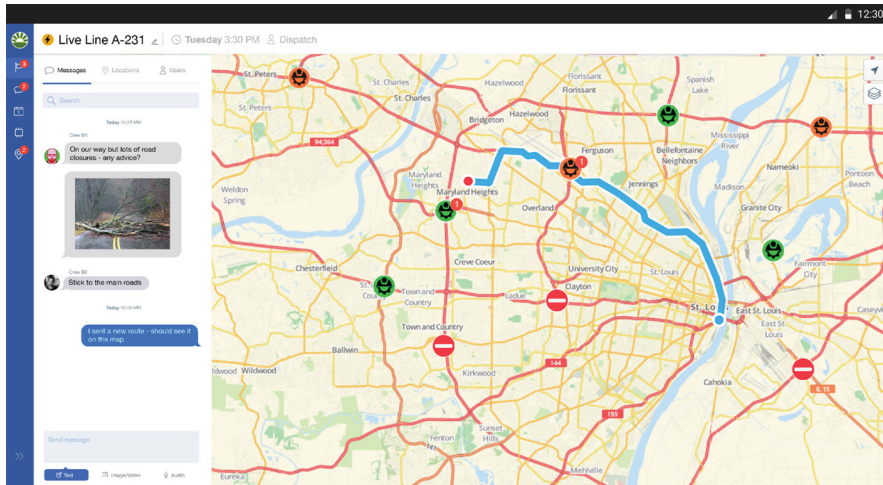


# EXPEDITING UTILITY SERVICE RESTORATION

Situational awareness removes challenges of emergency situations.



The Ronin Platform improves operational visibility and communications enabling utilities to realize improved operational efficiency, quicker response times, reduced restoration costs and considerably lower time to restoration.

## CHALLENGE

**Managing service outages during times of emergency can be daunting.**

Quickly and safely restoring service following major storms and outages is critical to the recovery of the affected service area. Managing the restoration efforts is daunting, even for well-prepared electric, gas and communications utilities. Challenges include marshaling emergency responders; managing external crews and contractors; and interfacing with desperate customers.

These challenges must be addressed in adverse environmental conditions, with the knowledge that each additional minute of outage increases the risk to life, limb, and property.

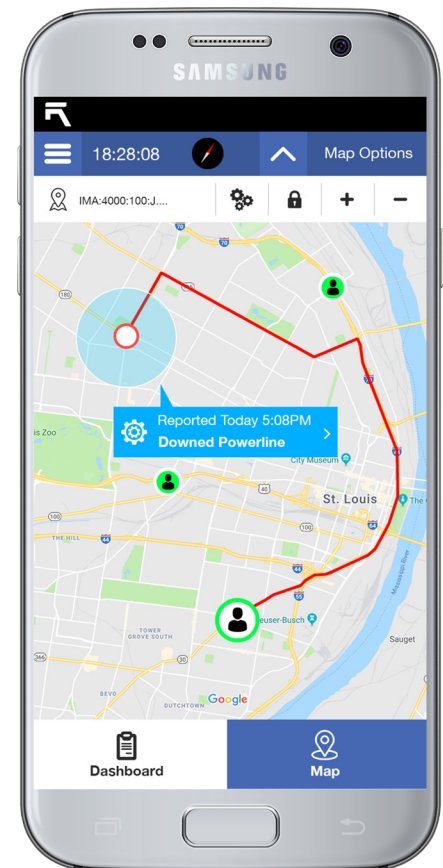
## SOLUTION

**Improved Situational Awareness empowers Utility Crews.**

Ronin provides operations centers real-time visibility of locations and dispositions of work crews, assets, and resources on a service area map. Managers task and communicate with crews directly through the map interface. They are enabled to efficiently and confidently deploy crews, provide accurate ETRs and help assure crew safety. Ronin integrates with all existing systems and infrastructure – such as OMS, WMS, cameras, and weather forecast feeds--to support workflows and automate the supply of pertinent information to the people who need it.

The Ronin Platform connects all parties through a common operational picture. Work crews, emergency personnel, and others in the field simply download the Ronin map-driven mobile app to share status, pictures, video and on-screen annotations. No specialized equipment is required.

## UTILITY WORKER APP



"Making the right decision  
at the right time unleashes  
the unrealized value of a  
business."

# THE RONIN PLATFORM

## IN YOUR ENVIRONMENT

### KEY FUNCTIONALITIES

- + VISUALLY TRACK CREW PROGRESS AND FTE; STATUS OF CREWS NEAR A REPORTED OUTAGE. INSTANTLY KNOW WHEN A CREW IS FREE TO BE REASSIGNED.
- + USE GEOFENCES TO DELINEATE OUTAGE AREAS, AREAS OF RESPONSIBILITY OR DANGER ZONES ON A MAP INTERFACE AVAILABLE TO CREWS AND MANAGERS.
- + BROADCAST NOTIFICATIONS TO ALL CREWS IN REAL-TIME AS CONDITIONS CHANGE. CHAT DIRECTLY WITH A SPECIFIC TEAM ABOUT THEIR STATUS. CREWS EFFICIENTLY RECEIVE THE INFORMATION RELEVANT TO THEM ON A SINGLE SCREEN.
- + INFORM AFFECTED SUBSCRIBERS WHEN A CREW ARRIVES AT A LOCATION, BEGINS WORK AND COMPLETES RESTORATION — IN REAL-TIME.
- + DATA ON CREW LOCATIONS, COMMUNICATIONS AND JOBS ARE STORED FOR REFERENCE AND REPORTING. USEFUL FOR CONTRACTOR INVOICE VERIFICATION, INVESTIGATING THE POSSIBLE CRIMINAL ACTIVITY AND CONTINUOUS QUALITY IMPROVEMENT.
- + IMPROVE WORK CREW SAFETY WITH LOCATION TRACKING, DIRECT COMMUNICATION LINKS, AND PANIC BUTTONS.
- + USE TELESTRATION TO DRAW DIRECTLY ON THE MAP TO COMMUNICATE QUICKLY AND VISUALLY.
- + MARK LOCATIONS OF DEPOTS, ASSETS, RESOURCES OR OTHER POINTS OF INTEREST IN THE FIELD. ASSOCIATE THESE WITH OUTAGE RESTORATION TASKS AND WORKFLOW. TAG WITH NOTES AND DIRECTIONS FOR WORK CREWS. ESPECIALLY USEFUL FOR HELPING EXTERNAL CREWS UNFAMILIAR WITH THE SERVICE AREA.
- + SHARE VIDEO FEEDS, DRONE IMAGES OR DATA FROM OTHER IoT DEVICES AND SYSTEMS TO FURTHER, IMPROVE SITUATIONAL AWARENESS AND CREW PREPARATION.
- + CREWS, CONTRACTORS, AND EMERGENCY RESPONDERS CAN QUICKLY DOWNLOAD THE RONIN MOBILE APP AND JOIN THE RESTORATION EFFORT, SHARING LOCATION, STATUS AND CRITICAL INFORMATION.

### SUMMARY

The Ronin Platform allows ops centers, managers and crews to instantly visualize critical information in the context of they are and what they're doing. This situational awareness leads to quicker, better-informed decisions and optimized application of restoration resources.

### ABOUT

The Ronin Platform was developed to maximize the value of existing technology by intelligently integrating data yielded from all sources to minimize the gaps in your operational picture.

At Coolfire Solutions, we create, design and innovate at the edge because we thirst for progress--the kind of progress that transforms life and business in a meaningful way. We embrace ingenuity to get the job done. We sprint for milestones to quickly show returns. With the right information in the right hands right now, action can be taken, and innovation can occur.

### LEARN MORE

For more information about The Ronin Platform visit [www.coolfiresolutions.com](http://www.coolfiresolutions.com) or email [info@coolfiresolutions.com](mailto:info@coolfiresolutions.com)



The **RIGHT DATA**

In The **RIGHT HANDS**

**RIGHT NOW**