

Enhancing Trimble® Environments with Real-Time GPS and AVL Intelligence

Delivering Live Field Visibility, Operational Awareness, and Event-Driven Workflows

Executive Summary

Utilities and public works organizations rely on Trimble® solutions such as Cityworks®, DMS, and Unity to manage critical infrastructure and field operations. However, these systems are not designed to deliver continuous real-time visibility into mobile assets and field personnel.

CompassCom provides a real-time GPS and AVL intelligence layer that integrates directly into Trimble environments—enhancing operational awareness, accelerating response, and maximizing the value of existing technology investments.

With proven GIS-based integrations into Cityworks and Trimble DMS, and alignment with evolving Trimble Unity environments, CompassCom enables organizations to extend real-time visibility today while supporting future system-of-record strategies.

The Challenge and Solution

Trimble platforms serve as systems of record but are not designed to provide continuous real-time field visibility. This results in limited awareness of vehicle and crew locations, delays in dispatching and response coordination, and reduced efficiency during outages and critical events.

CompassCom addresses this gap by integrating real-time AVL data directly into Trimble environments—enhancing operational awareness while aligning with Trimble’s evolving platform direction.

With proven deployments in Cityworks and DMS, CompassCom enables organizations to introduce real-time AVL today while maintaining alignment with Trimble’s evolving Unity environment—without disrupting existing systems or workflows.

How It Works and Key Capabilities

CompassCom ingests GPS data from vehicles, field personnel, LMR radios, and mobile devices, processes it in real time, and delivers it into Trimble environments through secure,

open APIs. This approach enables seamless integration without requiring changes to existing workflows or systems.

Core capabilities include real-time vehicle and crew location with continuous updates, improved coordination during outage and restoration events, and a secure API architecture built on industry-standard formats. CompassCom also aligns with existing Esri-based GIS environments, allowing organizations to leverage current map and data investments.

CompassCom serves as the operational bridge between live field data and enterprise systems such as Trimble and Esri®.

Operational Use Case

CompassCom is actively deployed to stream real-time AVL data into Trimble environments, including DMS and Cityworks, providing enhanced situational awareness during outage and restoration events.

Operational Impact:

- Faster response times
- Improved crew coordination
- Better decision-making under pressure
- Enhanced visibility for lone worker safety

Why CompassCom

CompassCom delivers a purpose-built real-time operational intelligence layer for Trimble environments—combining GPS, AVL, and LMR-based location data into a unified, live view of field operations. With decades of experience in Esri-based GIS integration and mission-critical deployments, CompassCom provides a secure, non-disruptive approach to enhancing existing systems. Organizations gain real-time visibility without replacing their system of record—reducing risk while improving operational performance.

Advanced Integration Capabilities

For organizations with more complex requirements, CompassCom works with qualified Trimble integrators and implementation partners to support advanced integration and customization needs.

This collaborative approach enables alignment with agency-specific workflows, including work order processes, asset management systems, and operational reporting requirements. It also brings in deep GIS and enterprise system expertise to support large-scale or highly specialized environments.

CompassCom delivers the core real-time GPS and AVL platform, while integration partners extend the solution through configuration, system integration, and workflow alignment—ensuring a flexible deployment model that adapts to each organization’s operational needs.

Next Steps

Organizations looking to enhance real-time visibility within Trimble environments can review how CompassCom integrates directly into existing Cityworks, DMS, and Unity workflows.

CompassCom provides a focused system overview demonstrating how GPS, AVL, and field data are delivered into Trimble environments—enabling live visibility within existing maps, dashboards, and operational processes.

To move forward, schedule a session with CompassCom to review your environment, discuss integration options, and see real-time location data in action.

Request a System Overview or Demo

<https://compasscom.com/request-demo/>

