

The Total Incident Management Solution

In the Moments That Matter Most,
WES ICS Helps Emergency Response Teams
Bring Order to Chaos Using Standard ICS Command Structure



WES ICS is a Geospatial Incident Management System Built for Command, Coordination, and Control

Overview

Disasters don't wait. When emergencies unfold—whether natural, technological, or human-made—response teams need more than courage. They need tools. Tools built for clarity, speed, and teamwork. That's where WES ICS comes in.

WES ICS (Web Enterprise Suite's Incident Command System) is a purpose-built geospatial platform designed to support emergency managers and field personnel throughout the full lifecycle of an incident or event. From when an event is first detected to final incident reports, WES ICS empowers teams to act decisively and in sync—no matter what the scale of the event might be.

Standardized and Synchronized.

WES ICS builds on the standardized Incident Command System structure, trusted across North America. This system allows teams to have seamless coordination across agencies, jurisdictions, and personnel. At its core, WES ICS exists in a centralized, web-based environment where every action, form, asset, and map aligns under a common operational picture.



Features and Visual Integration

Connected Systems for Disconnected Situations

Emergencies don't wait for a good internet connection. With GO Mobile, WES ICS enables field teams to collect and submit data both online or offline, so nothing gets lost in the field. Whether filling out ICS forms, capturing GPS-tagged images, or updating your unit status, first responders can stay focused on the mission, and not worry about their connection.

Pre-Populated ICS Forms Allow for Web-Based Precision

WES ICS includes a full suite of ICS forms that mirror the Microsoft Word and PDF versions used across agencies. Fully web-based and printable, the forms auto-populate using live database content, reducing manual duplication and keeping teams working from the same sources. The forms can be available in multiple languages.

A Common Picture with WES Portfolio

WES ICS is deeply integrated with WES Portfolio, enabling full access to GIS data, live maps, resource locations, and situational overlays. Together, they deliver a Common Operational Picture (COP)—the gold standard for coordinated incident response.

WES ICS is powered by the best components

- **PostgreSQL Relational Database:** Secure, scalable data storage across forms and modules.
- **Apache Superset:** Real-time dashboards and custom reporting.
- **WES Sync:** Share content across installations and networks, ideal for regional coordination and security domains.
- **SensorHub:** Integrate IoT devices like drones, body cams, and weather sensors for enhanced situational awareness.
- **GO Mobile:** Mobile app enabling field users to collect, share, and sync geospatial data.
- **FasseTrack:** Tracks assets and inventory with RFID/barcodes; supports mobile, web, and reporting.
- **Meta Manager:** Manages structured and unstructured metadata for search, discovery, and standardization.

WES ICS Capabilities



Real-Time Situational Awareness with a Common Operational Picture

- **What it does:** Provides emergency personnel a shared visual and data-driven view of the entire incident.
- **Why it matters:** Ensures all teams—on the ground and in command—are aligned on locations, events, and resource status.
- **Scenario:** During a wildfire, fire crews, air support, and emergency shelters all access the same live map and data feeds, reducing confusion and redundant effort.
- **Enabler:** Integration with WES Portfolio and live GIS data layers.



Auto-Populated, Web-Based ICS Forms

- **What it does:** Speeds up paperwork and ensures consistency by automatically filling ICS forms with known data.
- **Why it matters:** Reduces admin burden and manual errors, especially under pressure.
- **Scenario:** During a storm event, the Planning Section Chief must quickly complete an ICS-215 form that has been partially filled with resource and personnel data.
- **Enabler:** PostgreSQL relational database behind the scenes.



Mobile Field Data Collection (Both Online & Offline)

- **What it does:** Allows responders to input data from the field via mobile forms, with or without network access.
- **Why it matters:** Ensures no data is lost even in disconnected or remote environments.
- **Scenario:** A search and rescue team updates victim status and team location in real time, even in an offshore blackout.
- **Enabler:** Integration with GO Mobile.



Dynamic Dashboards and Custom Reporting

- **What it does:** Enables incident commanders to monitor the status of an event through live dashboards or generate reports for decision-making and compliance.
- **Why it matters:** Provides a fast, high-level overview to support real-time decisions or post-event reviews.
- **Scenario:** A mayor or emergency official is briefed with a live dashboard showing shelters open, crews deployed, and infrastructure impacts.
- **Enabler:** Apache Superset integration.



Cross-Agency and Cross-System Integration

- **What it does:** Connects different departments, jurisdictions, and organizations using separate systems.
- **Why it matters:** Promotes collaboration across silos and ensures seamless information flow. Custom workflows can be easily implemented for various other work structures.
- **Scenario:** Federal, provincial, state, and municipal emergency operations centers all contribute to and access the same operational data.
- **Enabler:** WES Sync for replication and QGIS interoperability.



Sensor and IoT Device Integration

- **What it does:** Brings live sensor feeds (e.g., weather stations, cameras, ECG devices) into the incident management system.
- **Why it matters:** Increases the fidelity of the Common Operational Picture with real-world, real-time data.
- **Scenario:** A drone captures flood imagery that updates in the command center map view instantly.
- **Enabler:** SensorHub platform.



COMPUSULT

With humble beginnings in 1985, Compusult began its technology story by providing consulting services, scientific data management, and Internet access. Through a culture of technological invention, it has cultivated a position as one of the world's leaders in geospatial interoperability and metadata management. Its flagship product is Web Enterprise Suite, which has revolutionized the science of geospatial data discovery, access, and delivery. Compusult has also invented a series of companion products and add-ons that make WES an integrated, end-to-end, standards-based data solution.

In addition to being leaders in the world of geospace, Compusult has corporate divisions in Assistive Technologies, Robotics, and Asset Tracking.

Compusult has had multiple distinctions of note. It has both client and partner organizations around the world in dozens of countries. It has had its software integrate with some of the world's most sophisticated applications – some of the software used in the geospatial industry has Compusult's ideas and technologies behind them. It has provided enterprise-wide core geospatial services for many large security and defence organizations and agencies in North America and Europe. Its software has even been in space.

Today, Compusult is a team of nearly 50, and is headquartered in Canada, with an office in the Netherlands and a US subsidiary in Virginia.

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