

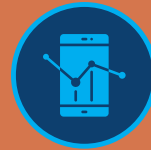
Safety and Productivity. Delivered.



**Proactive,  
real-time worker  
monitoring**



**Seamless  
communications with  
frontline workers**



**Data for actionable  
insights and  
innovation**

## Digital safety and productivity solutions for the connected worker

From Oil and Gas to manufacturing, construction to mining, digitalization has disrupted the way organizations operate. United Safety has been on the forefront of technology-led, human-focused solutions. Through TeQ Shield™, its portfolio of digital safety and productivity services, United Safety has been working to develop cutting-edge safety solutions that enhance worker safety and productivity while optimizing costs for the organization.

[www.unitedsafety.net](http://www.unitedsafety.net)

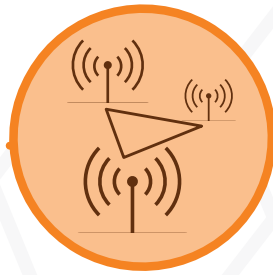
Powered By  
 **GUARDHAT**

# The Only End-To-End Connected Worker Solution



## APPS & SERVICES

- Safety control center
- Analytics engine
- Mobile app
- 3<sup>rd</sup> party



## INFRASTRUCTURE

- IIoT platform
- Hardware infrastructure
- Integrations



## DEVICES

- Connected hardhat
- Smart tags, glasses, phone & bio-tracking bands
- Intrinsically safe option available
- More in development

Our solutions are designed to connect workers with each other to provide real time solutions that make a difference.

In partnership with Guardhat, United Safety provides a cutting-edge IIoT platform that connects devices, apps and services with each other. The result? A comprehensive, integrated connected worker solution that enhances worker safety and efficiency.

<b>RESULTS</b>	<p><b>50%</b> reduction in lost time to OSHA reportable incidents</p>	<p><b>EMPOWERED WORKERS</b> via collaboration and knowledge share</p>
	<p>Up to <b>20%</b> increase in field operations efficiency</p>	<p>Up to <b>80%</b> savings in logistics and travel expenses</p>

### Comprehensive & impactful

Connected worker safety & productivity use cases, including real-time Situational Awareness, Lone Worker Safety, Evacuation & Emergency Response etc.

### Easy to use & customizable

Flexible deployment options with out-of-box and adaptable settings and reports.

### Interoperable & integration-ready

Growing set of APIs, SDKs and protocols connects across OT, legacy enterprise systems and emerging technology.

# Smart Hardhat – Communicator

**Smart, safe, versatile.**

**The industrial hardhat for the connected worker.**

Can you ensure that your workers are wearing their PPE properly? Can you monitor temperature, humidity, noise levels, proximity dangers and other hazards from your command center? Can you communicate effectively with your onsite workers? Can your workers contact the command center directly in an emergency?

Communicator is a smart hardhat that can do all this and more by providing sensor-based contextual awareness of the worker's surroundings. Equipped with multi-modal, high-precision, real-time positioning (RTLS) and comprehensive audio-visual telecommunications, this ergonomically designed hardhat essentially transforms a regular worker to a connected worker.

Making use of Industrial Internet of things (IIoT) related technologies, we have partnered with Guardhat to provide a safety platform that consists of wearable devices, infrastructure, and software. The system works together to detect and communicate dangerous conditions and monitor assets including the most valuable of all: workers.



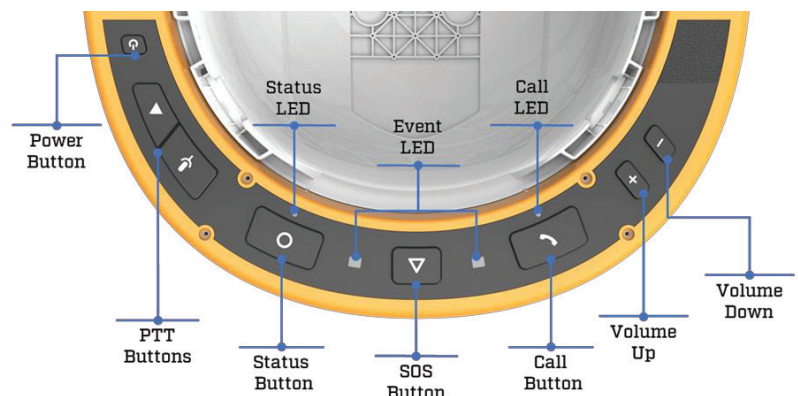
## Simple User Interface

Buttons and LEDs are located on the underside of the brim for ease of access and visibility. LEDs indicate events along with various audible alerts.

Buttons can be used to place / answer a call for direct communication.

Additional LEDs located on the outside of the hard hat can alert nearby personnel to possible hazardous conditions and a button on the brim can be used to capture an image. Buttons and LEDs can be customized for a number of events including:

- Evacuation
- SOS
- Geofence Breach
- Elevated Noise Level
- High / Low Ambient Temperature
- Fall / Acceleration
- Proximity Danger



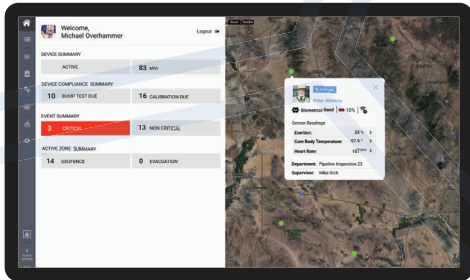
## Transform your workforce one smart hat at a time.

From lone worker monitoring to PPE compliance, vitals monitoring to time and attendance monitoring, the Communicator is designed with versatility and functionality in mind. The most capable general-purpose industrial wearable, the Communicator provides an unparalleled set of features for use across industries.

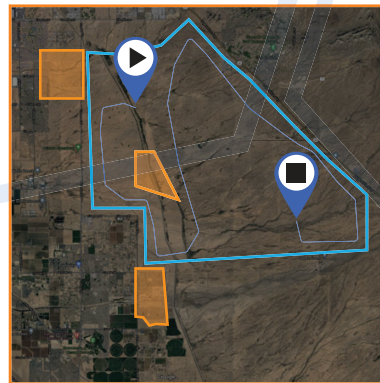
### Main features of the Communicator include:

- Certified ANSI.Z89.14 Type I Class-G industrial hardhat
- Intrinsically-safe option, IECEx and ATEX Zone 1 and C1D1 certificated
- Real-time and high precision indoor & outdoor location tracking (RTLS) using GPS/GNSS
- Presence detection using standard BLE beacons and UWB
- Proximity-detection to moving or static equipment, personnel and vehicles (example: forklifts)
- PPE compliance and audits using RFID
- Asset Identification using BLE and RFID
- Audio/video VOIP telephony with compatible devices and SCC operators

Get automated safety check-ins right from the Command Center, to help ensure worker safety without burdening workers on the job.



Powerful software for real-time monitoring and event-based alerts combined with a variety of wearable devices helps prevent injury or even death from exposure to extreme temperatures, gas, radiation, noise, over-exertion, or worker-specific health issues.



Leverage walk path reports to investigate incident root-cause, conduct safety audits, mine data for operational Improvements, and for customer service or regulatory compliance.

### Key Benefits of the Communicator include:

- Self-standing operation
- Ruggedized high tech
- Intrinsically safe
- Flexible and versatile range of applications

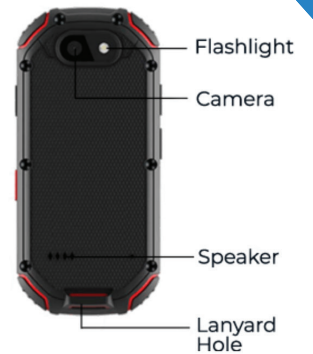
# Smart Tag - Scout

## Real-time tracking, real time accountability

You have hundreds of workers onsite, can you reach them immediately in an emergency? Can you ensure that only authorized personnel enter restricted zones on your work site? Can your workers send you a distress signal if they need help? Are you notified immediately if one of your workers has a fall or if there is a man-down situation on your site? Can you prevent collisions on your worksite?

## One tiny device, multiple mega benefits

The Scout is a ruggedized, small, wearable device with a touch display. It provides location tracking, workers' safety features such as SOS, proximity detection, and AV media collection features. The Scout is ideal for location-tracking, proximity-detection, audio-visual communication, and the core worker safety features.



## Key Features & Benefits

- Touch-screen user interface for easy visual input/output
- Tracking the real-time geo-location of the worker
- Detection and audio-visual notification of various pre-configured safety conditions:
  - Evacuation & mustering
  - Geofence / restricted-area breaches
  - Fall/high-acceleration
  - Man down (unresponsive person)
  - Worker initiated distress signal ("SOS")
- Feedback when in proximity to other tags that also send proximity information. This helps prevent onsite collisions.
- Audible alerts to self and other devices in proximity for fall detection, geofence violation or evacuation (initiated by the remote SCC operator)

# Onsite applications

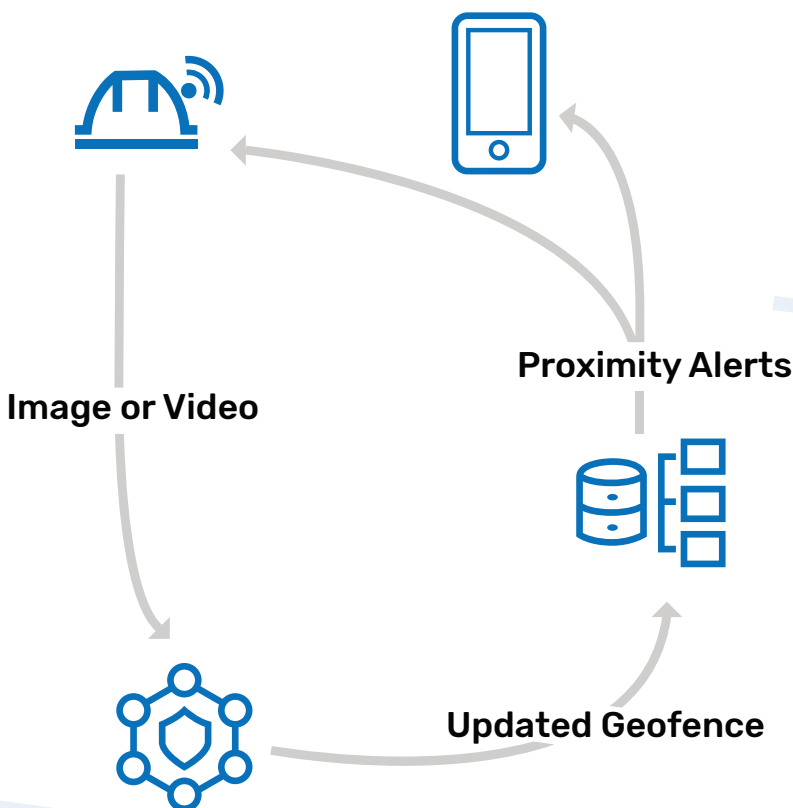
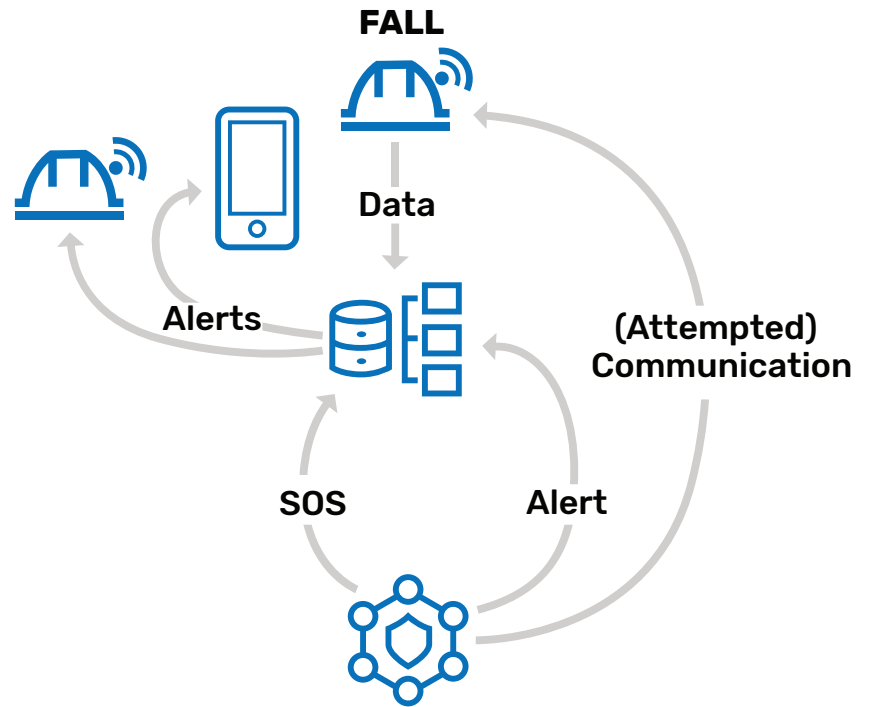
## Example: Toxic Spill

The combination of devices and software can be applied in an infinite number of customizable scenarios. These are only a small sample of the possibilities.

A worker sends an image or video of a spill to the SCC.

A safety officer uses this information to set a lockout boundary. Workers inside the boundary are alerted to evacuate.

Workers approaching the boundary are alerted to change course. This is done automatically once the lockout area is established via the easy to use user-interface.



## Example: Fallen Worker

The wearable device detects a rapid drop in altitude.

This is interpreted as a fall and alerts the SCC and nearby workers. A safety officer attempts to contact the affected worker and does not receive a response. He or she then remotely activates a video call from the worker's device to assess the situation.

When the worker continues to be nonresponsive, the safety officer sends a request for help.

Nearby workers are alerted to the request. The fallen worker is easily located.

**Safety and Productivity. Delivered.**



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