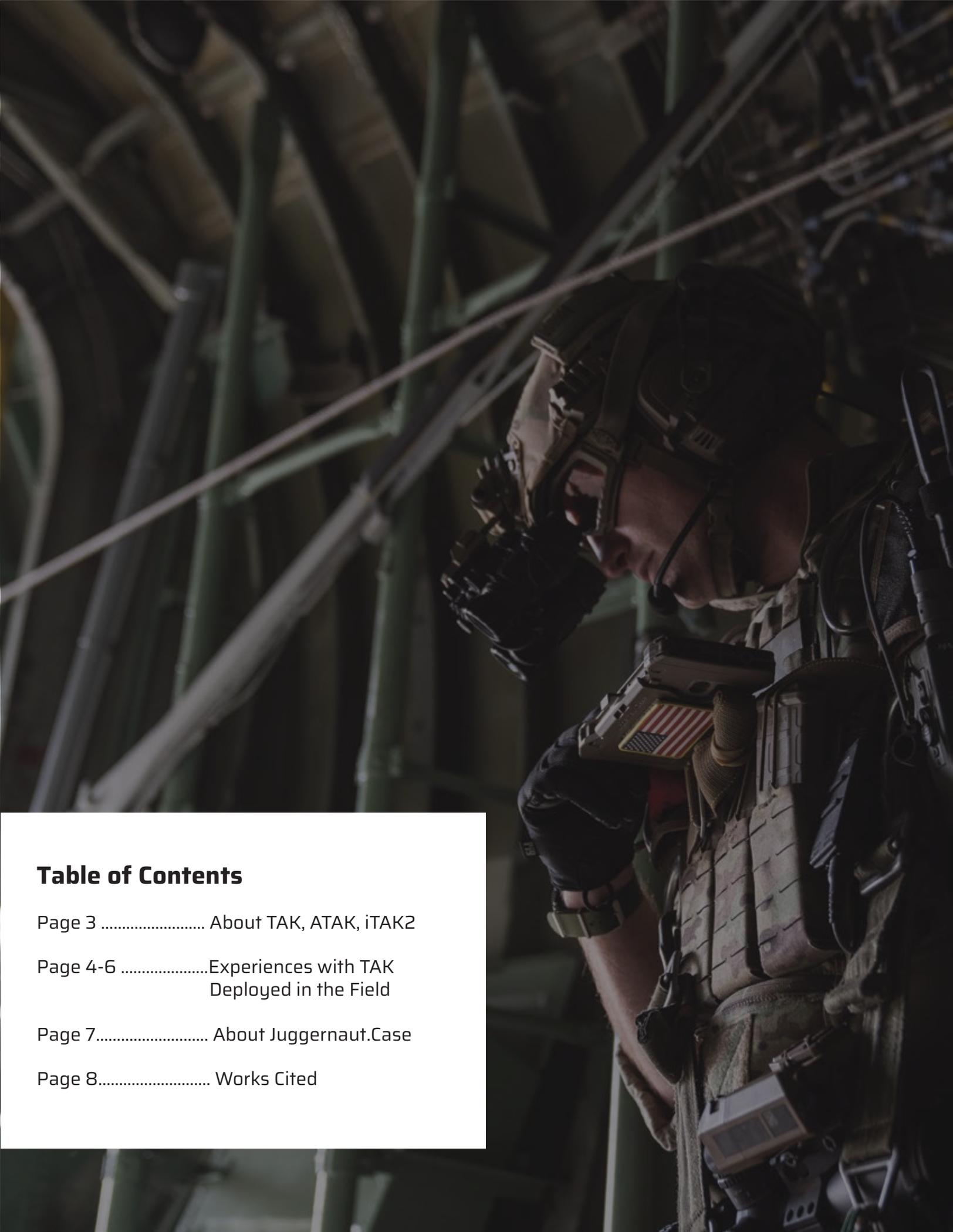




***Protect - Mount - Connect***  
Mobile TAK Devices





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# About **TAK**

## **TAK**

- The Team Awareness Kit (TAK) is a map-based software application that enables coordination among thousands of users with features such as position data, chat, mission planning and shared overlays.
- TAK was developed by the Department of Defense.
- Provides increased situational awareness for every day operations, special events, and disaster responses.
- TAK has been used by Department of Homeland Security personnel and state/local governments for disaster response planning and execution since the 2017 hurricane season.
- TAK is now being adapted and used to provide COVID-19 data to National Guard units and government agencies.

## **ATAK**

- The Android Tactical Assault Kit (ATAK) is a useful software collaboration and communication status awareness application that runs on an Android mobile operating system on a smartdevice.
- ATAK is an easy-to-use, secure, mobile, interactive spatiality tool that connects multiple squads on the go, giving them a common operational picture digitally in an instinctive way.
- ATAK was originally developed in 2010 by the Air Force Research Laboratory in Rome, N.Y. for use by U.S. Special Forces. It was tested through years of real-world use in combat situations, by more than 10,000 active war-fighters. After countless successful military operations, it has now been modified and adapted to fit the mission of other federal, state, and local agencies.
- Multiple agencies have used it to coordinate rescues, respond to criminal activity, identify infrastructure breeches, and establish perimeters in danger zones.

## **iTAK2**

- iTAK2 is a resourceful application built with an intuitive interface and leveraging modern iOS security framework.
- iTAK2 works with Apple smartphones and tablets.
- iTAK2 fills critical situational awareness gaps in operations such as Humanitarian and Disaster Response, National Security Special Events, counter terrorism and law enforcement activities.
- Can be deployed on any iOS platform giving users a modern, simple interface.
- iTAK2 is also fully interoperable with the Internet like TAK and ATAK.

# The *Mission*

You're guarding terrain in an unfamiliar mountainous landscape. You use ATAK to locate your unit and scout out locations where the enemy could be hiding. Or, you are in a flooded disaster area and you need to gauge where to find disaster victims and send that information to other first responders. Without protection for your TAK enabled smartphone, you're sunk, literally and figuratively. What could you have done differently? Protect, Mount and Connect your smart-device so you can continue working hands free in the most challenging terrain and situations.

Before ATAK and TAK, military, law enforcement, and first responders used radios, paper maps, and GPS. These materials were limited in what they could do in apprehending criminals, rescuing natural disaster victims or even planning an attack on enemy soil. Communications and planning between different federal and state agencies was complex and did not work smoothly. Now with ATAK and TAK, military units and first responders can successfully complete their missions safely and efficiently. For example, a pod in a helicopter can locate a stranded hiker in seconds with TAK and then relay that information to first responders and EMTs on the ground. There are three things that ATAK and TAK are used for navigation, situational awareness and communications.

TAK requires portable devices to be encased in protective gear that has been tested in rigorous environments and situations. Rugged phone cases and mounts can help provide support for you to complete your mission successfully, and cables can help you connect and communicate in a comms denied environment. A complete kit will give you the ability to run TAK in your vehicle or on your person.

A ruggedized case that can withstand harsh terrain will enhance your team's ability to use TAK or ATAK in the toughest scenarios. Whether you're dismounted or in your vehicle, a mount will secure your portable device and will provide you with the real time tactical data you need while on the move.



# Situational *Awareness*

## Experiences with without TAK Deployed

The Yarnell Hill Fire is one instance where TAK could have been used to control a blaze and to save the lives of firefighters themselves. The Yarnell Hill Fire was a tragic event where, on June 30, 2013, 19 members of the Granite Mountain Hotshots lost their lives fighting a fire started by lightning in an area that experienced a lot of dry overgrowth. According to the Yarnell Hill Fire, Serious Accident Investigation Report, “Personnel who communicated with the Granite Mountain IHC knew the crew was in the black at that time and assumed they would stay there. No one realized that the crew left the black and headed southeast, sometime after 1604. At 1630, thunderstorm outflows reach the southern perimeter of the fire. Winds increased substantially, the fire turned south and overran the Granite Mountain IHC at about 1642” (Dudley 1). Radio communications during the incident had been difficult. Some radios were not programmed with appropriate tone guards. The crews had to engage in troubleshooting and developed workarounds so they could use their radios, however, radio traffic was heavy during critical times on the fire. Communications did occur among the crews throughout the day. However, few of the crews understood Granite Mountain’s objectives, movements, and location, once they left the black. The report feels this is due to brief, informal, and vague radio transmissions that can occur during wildland fire communications. Granite Mountain IHC was thought to be in the black, near the ridge top where they had started that morning. This resulted in confusion about the crew’s whereabouts at the time of search and rescue. Had crews been working with TAK they may have been able to let the Granite Mountain IHC know they were in danger sooner from the fire, or would have been able to spot them using TAK maps to save them.

ATAK and TAK enables coordination with thousands of users that can be accessed such as position data, chat, mission planning and shared overlays. ATAK and TAK allows you to do your job, whether that’s in the jungles of a foreign country or protecting your own country’s borders. TAK allows you to respond to natural and man-made disasters with lightning quickness and the assuredness that you are saving lives, securing an arrest, or keeping enemy forces at bay. Rugged, thoughtfully designed protective gear for those smart devices is essential to those missions.

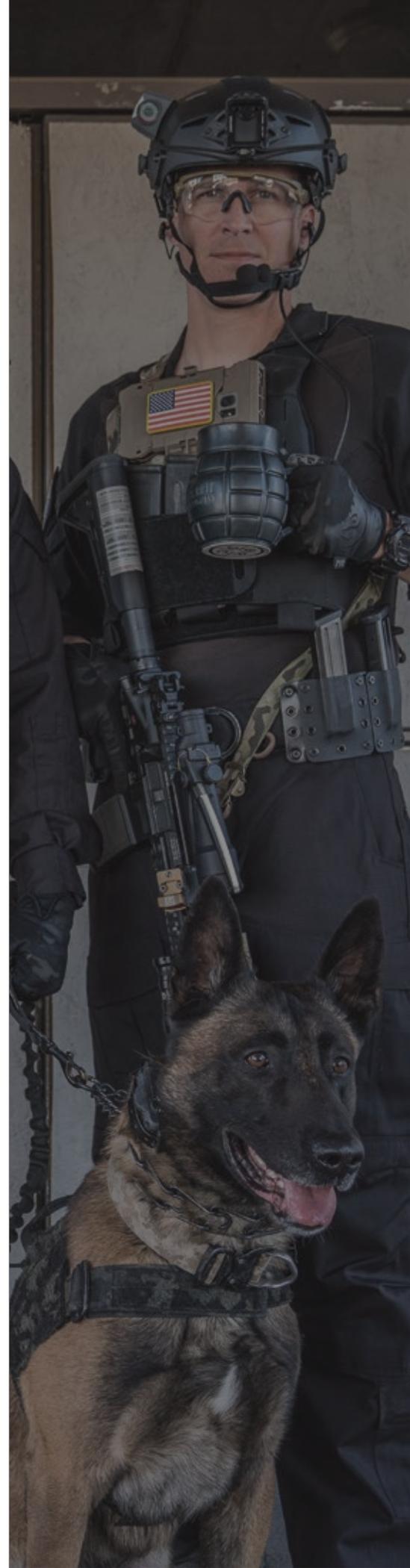
TAK and ATAK have been used in human trafficking cases, for hurricane response and wildland fire tactics. ATAK and TAK can only take you so far though since they're a software application. You need reliable hardware to transmit and receive data and you need a reliable rugged portable device kit to pull it all together. Dropping your phone on hard terrain can mean an inoperable device, putting you out of comms. But if you have a proven protective case and mounting platform, your portable device will survive the mission. If your team has made the financial investment in smart devices, and the time in TAK, ATAK and iTAK2 installation and training, you'll want to protect those investments with the rugged equipment already field tested by US Special Forces and thousands of other tactical and first responder teams.

Juggernaut.Case provides your unit with a complete, configurable kit of cases, mounts and cables to help protect your critical equipment so you can run your ATAK and TAK software to answer the mission. Whether that is locating a target or providing rescue from a devastating natural disaster. Juggernaut.Case offers ruggedized portable device protection for military, law enforcement and first responders. Juggernaut.Case can also help you design a custom solution for larger contract requirements .

### Experiences with TAK Deployed in the Field

Bernalillo County Fire Department Rescue heli-rappel, hoist, use tactical ropes, short-haul, bag and transport patients. The Juggernaut.Case IMPCT Sleeve and belt mount keep the phone secure and free of the first responder's harness. They use TAK on a smartphone to track and communicate with responders after they have been inserted and made contact with the patient. Without it first responders would be lost in the trees, and further delay the patient hand off to an ambulance, EMS helicopter, or directly to the hospital.

AJ Johansson, fire captain and paramedic with the Corona Fire Department has used the Juggernaut.Case IMPCT Dock for charging their smartphones when using TAK. They have also used the Forearm mount and HAHO mount, depending on the operation, to ensure they were mobile with the information that they receive through TAK.



# About **Juggernaut.Case™**



- Juggernaut Defense, LLC was started in April 2000, by a small team of engineers and designers who shared one vision - rugged, badass design of military grade products.
- Over 100,000 CASES fielded downrange by military and first responders, making Juggernaut.Case™ the defense industry's Commercially Available Off the Shelf (COTS) SOLUTION for protecting Samsung, Google, and Apple smartdevices running ATAK, iTAK2, APASS, and KILSWITCH APPLICATIONS.
- Juggernaut.Case™ provides a TAK ready ecosystem of products allowing users to Protect, Mount and Connect their devices in even the harshest of conditions.
- With a suite of cases, mounts and cables, users can operate in demanding environments, while maintaining peak situational awareness.



## Works Cited

Dudley, Mike, Scott Hunt, Jim Karels. "Yarnell Hill: Serious Accident Investigation Report." Wildfire Today. [wildfiretoday.com/documents/Yarnell\\_Hill\\_Fire\\_report.pdf](http://wildfiretoday.com/documents/Yarnell_Hill_Fire_report.pdf). 23 Sept. 2013.

