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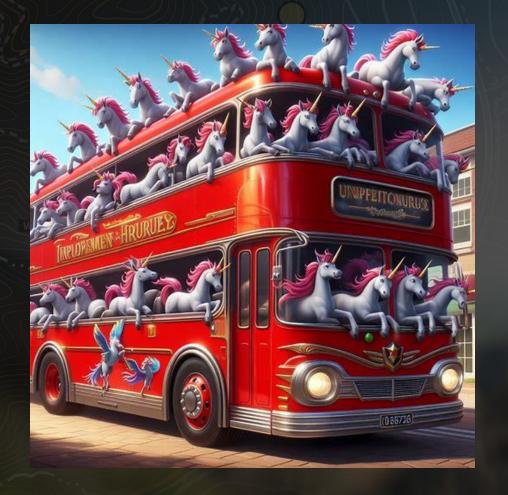
COLORADO

CENTER OF EXCELLENCE OF AERIAL FIRM

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COLORADO

CENTER OF EXCELLENCE

Recognized as a <u>technology resource</u> with the national public safety community and locally with the state of Colorado.

One of a handful of state government groups dedicated to advancing <u>operational technology</u> for first responders.



COLORADO DEPARTMENT OF PUBLIC SAFETY



CBI CSP DFPC DHSEM DCJ

CENTER OF EXCELLENCE FOR ADVANCED TECHNOLOGY AERIAL FIREFIGHTING



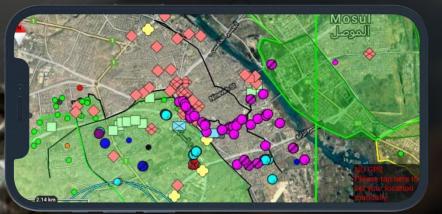
TAK Team Awareness Kit



TAKTeam Awareness Kit

Originally developed by the US Air Force Research Lab in 2010 to assist special operations with mapping, situational awareness, and close air support.

Currently over 250,000 military & federal law enforcement users.





THE COE & TAK

The CoE has conducted research & development into TAK since 2016, and identified the extreme value of TAK in providing real-time location services to first responders.

In 2022 CoE received funding from the General Assembly and by cost share agreement from the US Forest Service. This funding enables two projects to deploy TAK at scale for first responders and wildland firefighters, and to further develop TAK.









WHEN WHERE MATTERS





The CoE saw a role for the State to develop the back-end infrastructure for TAK, to ensure that real-time location services data securely flows to first responders with a need to know.

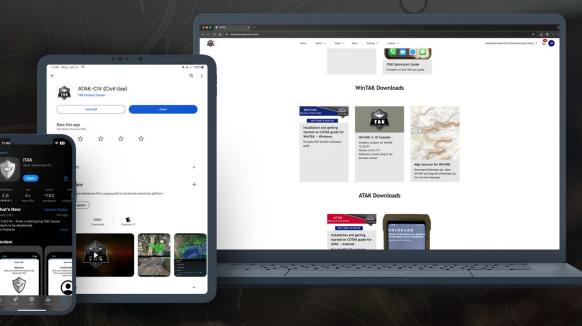
The capability must scale for both daily operations among individual agencies using COTAK, as well as the entire Colorado public safety community when large disasters occur.





COTAK is the server, other infrastructure, and training that enables CO first responders to use the TAK apps, which are provided free-of-charge by the Federal Government.

These apps include ATAK (Android), iTAK (iOS), WinTAK (Windows), and webTAK (website).







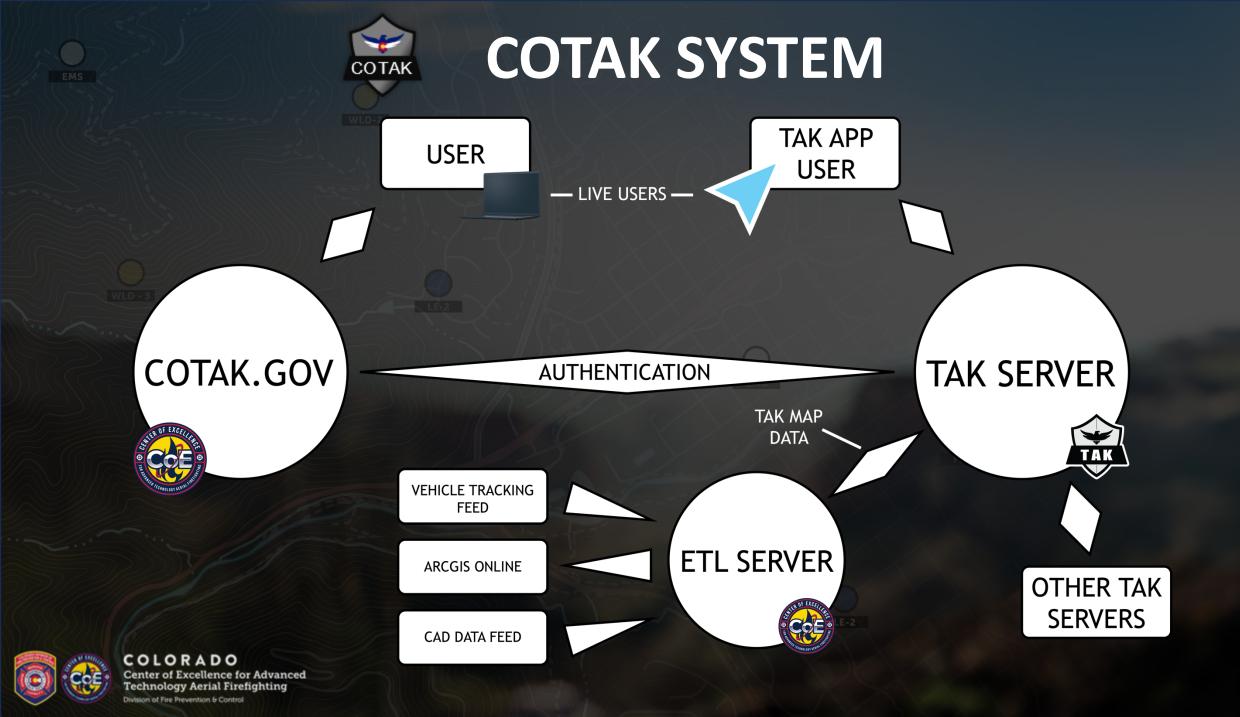
COTAK SERVER













LOCATION SERVICES

TAK simply uses the phone or tablet's GPS chip to locate you.

If you rely on COTAK operationally, then the TAK app and the phone it runs on should be considered part of your responder's PPE package.

Like out-of-date body armor, old phones will give you substandard performance. Modern devices offer the most advanced location chips and batteries.





KEY COTAK CAPABILITIES FOR THE FIRE SERVICE





CUSTOM / INCIDENT MAPS

Center of Excellence for Advanced Technology Aerial Firefighting

Department of Public Safety

Grizzly Creek Fire, east of Glenwood Springs, CO Night Operations August 14, 2020 from approximately 1945 to 2230







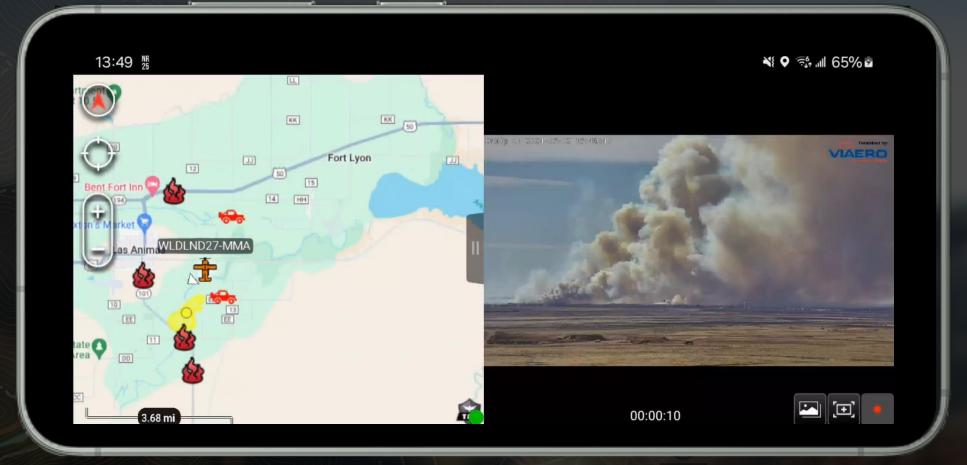
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MMA INTEGRATION





MMA INTEGRATION







MMA INTEGRATION







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Technology Aerial Firefighting Division of Fire Prevention & Control

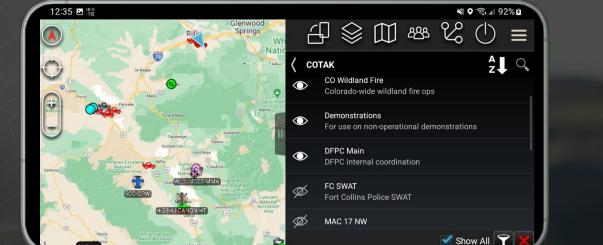


INTEROPERABILITY

Like a voice radio, the TAK apps have channels.

Joining a TAK channel automatically shares your location, and you receive the locations of all other responders on that channel.

This ultimately reduces radio chatter and promotes collaboration.



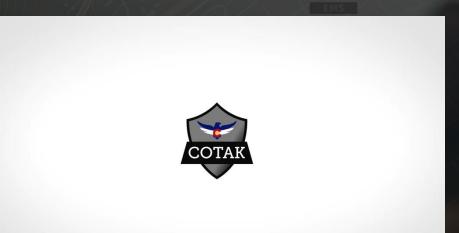




OUTREACH AND TRAINING

The CoE is dedicated to making a full suite of high-quality multimedia training materials available to all COTAK users.

This content enables responders to utilize a standardized basic feature set in the TAK apps without the need for intensive in person training.





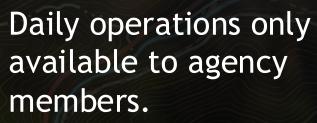


SWAT

DTF

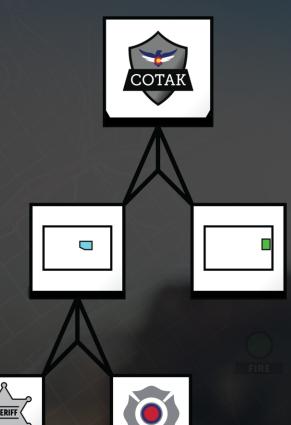
MAC channels are automatically available to all users.

County channels are automatically available in respective geographic areas.





COLORADO Center of Excellence for Advanced Technology Aerial Firefighting Division of Fire Prevention & Control



STATEWIDE OPERATIONS

Example channels inlcude: CO Wildland Fire MAC, CO SNOWMAC

COUNTY OPERATIONS

Example channels inlcude: MAC 1, County Fire MAC

AGENCY OPERATIONS

Example channels inlcude: Fire Ops, SO Dispatch

SUB AGENCY OPERATIONS

Example channels inlcude: SWAT, Drug Task Force



COTAK was founded on a philosophy of local control.

Each COTAK agency accesses a secure website to create as many password-protected users and channels as needed (similar to how agencies program voice radios).

Agencies also have access to state-created MAC channels (just like DTR radios), and can also manage and share channels among neighboring agencies for mutual aid.





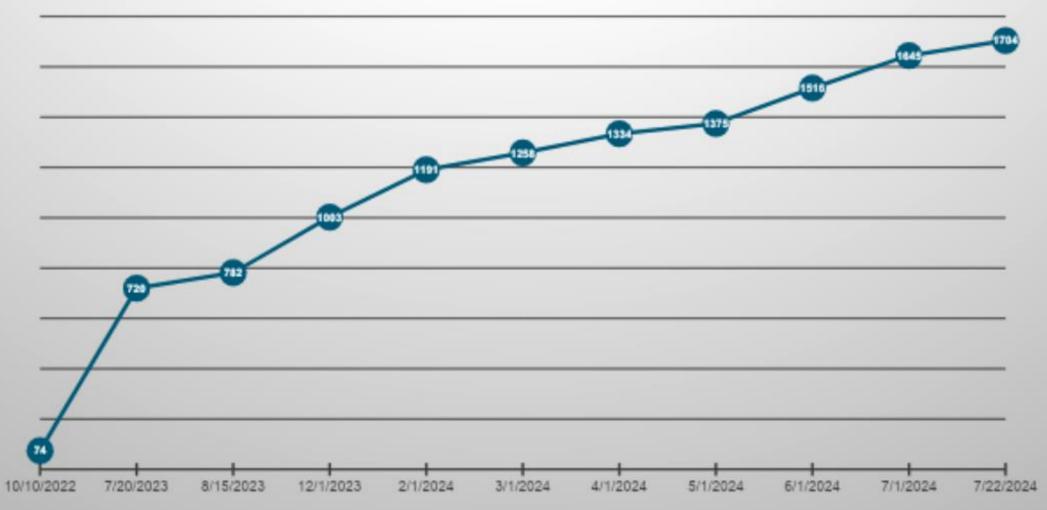
SECURITY

Location data is encrypted to industry standards "in transit" and "at rest."

Agency administrators have full control to revoke channel permissions and COTAK access for your agency's users.

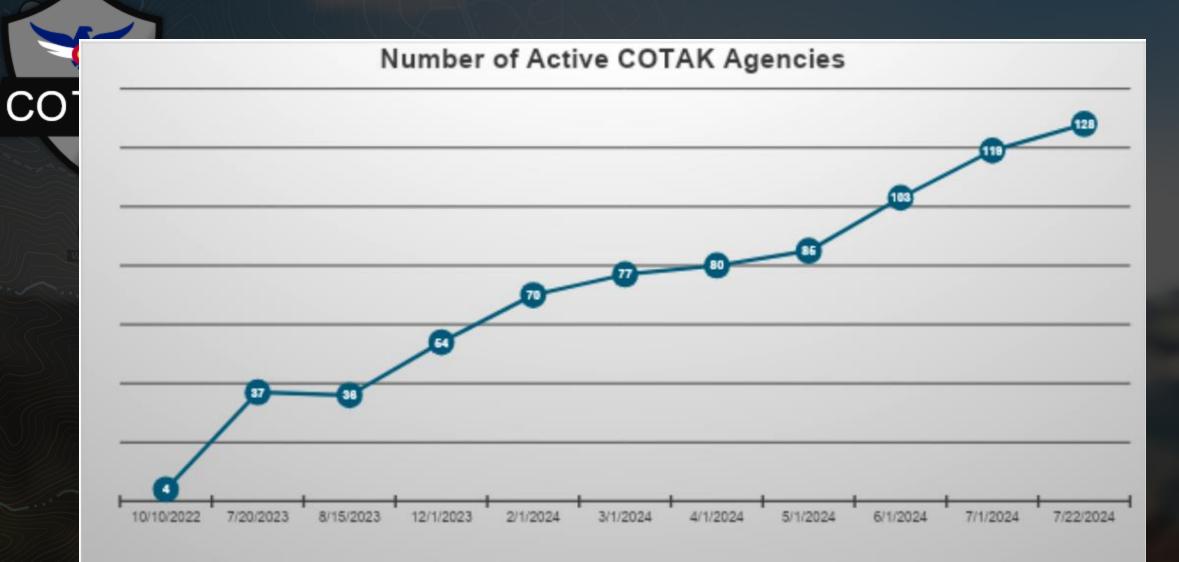


Number of Verified COTAK Users





CO



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Questions?







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