

STAY CONNECTED. STAY ALIVE.

The U.S. Army is the most capable fighting force in the world, but only when we can communicate.

Information is power. Nowhere is this more apparent than on the battlefield. Access to timely information and reliable, secure communication is not just critical to mission success — it's a matter of survival.

THE ARMY HAS A COMMUNICATIONS PROBLEM

Our current generation of "on-the-move" satellite communications (SATCOM) antennas is severely limited. They can only connect to one satellite at a time and only via geostationary constellations. The result is spotty communications, leaving highly mobile units disconnected and unable to receive critical information or communicate urgent operational needs.

Soldiers need wireless communications systems that can use multiple frequencies and connect to multiple satellite constellations. This combination will provide them with secure, reliable wideband connectivity even when units are on the move and operating in austere conditions.

That's where we need your help.

A NEW OPPORTUNITY

The Army is looking for cutting-edge technologies that can contribute to the development of mobile ground terminals capable of providing this type of satellite communication on the move.

From antennas and signal tracking devices to modems and encryption software, we want to better understand current state-of-the-art commercial technologies and the companies that produce them, so we can bring those capabilities to the Army.



Solve a Complex Problem

Help advance the next generation of secure on-the-move communications for extreme use cases. It's not just a compelling technical problem; it's important work that saves lives and changes outcomes on the ground.



Connect with DoD Innovators

Connect with the Army's Science & Technology experts and other relevant stakeholders to gain insight into our technology priorities and a deeper understanding of our SATCOM problems and opportunities.



Validate Product/Market Fit

Get your technology in front of Army experts who understand the need in practice and can provide feedback on how your product might work in current and future Army use cases.

Get in on the ground floor of an Army development program that could **change the way Soldiers communicate** for good.

WELCOME TO PROJECT MOSS

To get the job done and save lives, the Army is looking for technology that can improve communications for our tactical units. The private sector has made incredible advancements in satellite communications, so AAL is turning to the commercial communications industry for help. This effort is called Multi-band On-the-Move Satellite Solutions — Project MOSS.

About the Project

Project MOSS is a joint effort between the Army Applications Laboratory (AAL); the Network Cross-Functional Team (CFT); and the Command, Control, Communication, Computers, Cyber, Intelligence, Surveillance and Reconnaissance (C5ISR) Center. Its purpose is to discover secure, reliable next-gen SATCOM solutions to address our on-the-move communications gap.

The project invites qualified companies to demonstrate their technologies and help inform and de-risk future Army capabilities and requirements. Ultimately, we plan to demonstrate and test the most relevant dual-use technology that can drive the future of Army communications.

As part of this effort, the Project MOSS team will work with select capability providers to develop technology enhancement and integration plans that align with and inform the Army's SATCOM capabilities roadmap. In addition, as we learn more about these solutions, participating companies may be invited to join in Cooperative Research Agreements (CRADA) to help develop the next generation of on-the-move communications technology.

HOW IT WORKS:

- Our team will gather information about relevant commercial solvers and their existing products.
- We'll narrow the field to a short list of technologies with the greatest potential to inform future Army capabilities.
- Select companies will be invited to demonstrate their current capabilities for an Army audience.
- Based on the results of the demonstrations, finalists will be selected for further exploration at Army expense.

HOW CAN YOU HELP?

Resilient communications are essential for Army units to operate safely and effectively on the front line. That's why these capabilities are central to our Command & Control priorities.

If you're working on or know about a product that's a good fit, email demos@aal.army to let us know. And feel free to spread the word within your network or introduce us to others working in this space.

Together, we can solve this problem and arm U.S. Soldiers with tools to operate securely at the speed of relevance.



ABOUT THE ARMY APPLICATIONS LABORATORY

We're not a laboratory in the traditional sense of the word. As the U.S. Army's innovation unit, we don't make things — we make things possible. The Army Applications Laboratory (AAL) is fundamentally reshaping how the Army works with industry to reunite American innovation and national security. Together, we question *why* and deliver *what if*. Learn how we do it at aal.army.



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