



TALOS

TACTICAL ASSAULT LIGHT OPERATOR SUIT

TALOS is a Vision for the Future SOF Operator: In FY14, SOCOM SOF AT&L established Joint Acquisition Task Force Tactical Assault Light Operator Suit (JATF-TALOS) in order to develop an advanced combat suit prototype through an innovative acquisition process. JATF-TALOS was chartered to explore and catalyze a revolutionary integration of advanced technologies to provide comprehensive ballistic protection, peerless tactical capabilities and ultimately enhance the strategic effectiveness for the SOF Operator of the future.

The current TALOS roadmap consists of incremental exoskeleton prototypes with increased levels of subsystem integration leading to the First Article Tactical Prototype delivery, currently scheduled for August 2018. Along this path, JATF-TALOS expects to discover, develop, and transition advanced technology to the warfighter.

JATF-TALOS FY16 Priorities:

Combat Suit Development

Research, Assessment, Test and Development of emerging/disruptive technologies;
Integrator of multiple sub-systems and tactical components

Accelerate Technology Development / Transitions

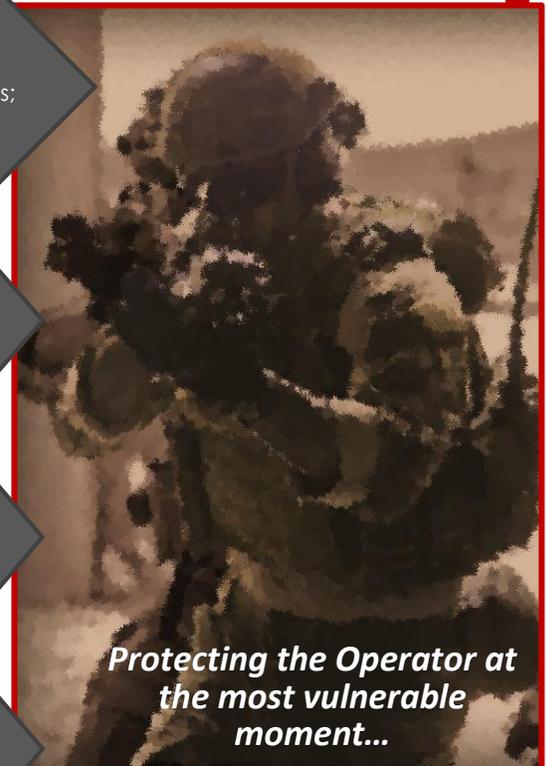
Over-the-horizon technology focus;
Equipping SOF to win in a complex, uncertain future

Pioneer Innovative Processes

Rapid Prototyping, Prize Challenges, Streamlined Acquisition;
Leveraging novel acquisition and development methods

Persistent Collaboration

Maintaining Extended Network, Continuous end-user Engagement;
Forging new relationships with Academia, Industry, Government



*Protecting the Operator at
the most vulnerable
moment...*

U.S. Army photo by
Spc. Ryan S. Debooy

Contact Us & Learn More:

- To submit an idea to our Technology & Industry Liaison Office, visit:
<http://go.usa.gov/JGhI>
- To view our Broad Area Announcement (BAA), visit:
<http://go.usa.gov/JGSF>
- For Media Queries, contact USSOCOM Public Affairs at:
Public.Affairs@socom.mil or 813-826-4600
- To contact the JATF-TALOS Team:
TALOS@socom.mil



TALOS Functional Areas:

The TALOS vision is divided into distinct functional areas, each charged with integrating state-of-the-art technologies into a single, purpose-built combat suit system.



Mobility & Agility:

This area focuses on the development of an exoskeleton system that provides full-body load transfer, while dramatically improving the physical performance of an operator.



Power & Energy:

The area focuses on the power supply, which must generate enough power to support the suit for a typical SOF mission profile. It must be self-contained, in a man-packable form factor, reliable, redundant and tactically realistic.



Human Factors:

This area focuses on integrating human-machine interfaces, incorporating technologies for real-time physiological, cognitive and medical monitoring, and maintaining optimal thermal state via biomechanical modeling and human factors experimentation.



Operator Interface/Visual Augmentation Systems:

This functional area is focused on the use of multi-spectral vision augmentation systems and intuitive cognitive interface systems to provide an exponential leap in situational awareness.



Targeting:

This area will provide the operator with improved target identification and increased lethality.



Survivability:

This area focuses on maximizing the operator's protection from common enemy combat threats, emphasizing a focus on historic vulnerabilities while minimizing impacts to agility.



Command, Control, Comms, Computing & Intelligence (C4I):

This area requires a modular solution that can provide an exponential increase in situational awareness via multiple modalities and provide a high bandwidth link between team members and other supporting assets.

JATF-TALOS continues to make progress towards the 2018 combat suit prototype to enhance the survivability and strategic effectiveness of the future SOF operator.