



WARRIOR INNOVATIONS

CFI-TW0911 (ABSTRACT)

Call for Innovation (CFI) Opportunities for Member Consideration

Objective:

The EDGE Network is requesting Member collaboration to identify methods for a dismounted soldier to view UAV and UGV video, for an immediate need aligned to the Ground Soldier Equipment (GSE) competition sponsored by Project Manager – Soldier Warrior (PM SWAR). Other potential applications include: Land Warrior, Law enforcement, and Homeland security for example.

Requested Innovation:

This CFI is focused on a receiver and video decoder to enable the dismounted warfighter to view commonly used UAV, UGV, robotic, and ground sensor video.

Description:

Example approaches include a vehicle-based solution that receives the video from various sources and re-transmits it locally, or a soldier-worn receiver that provides direct video receipt from the video sources.

Vehicle Solution: Is installed in a vehicle (such as a Stryker, HMMWV, Bradley, etc.), accepts up to 4 analog video sources from various receivers, and re-broadcasts the streams over a single contiguous band. All 4 channels should be broadcast simultaneously on different “channels” to the dismounted soldier.

A soldier-worn receiver should receive the 4 channels, allow the soldier to select the one of interest, and then output the chosen channel in analog video format and/or digital video over USB. Note that it is desirable that any properly-equipped soldiers in range of the vehicle be able to view any of the available video streams at any time.

Man-worn solution: Is a small, low power, wearable receiver that is capable of receiving all of the video sources. The output of such a receiver would be analog RS-170 video and/or a compressed digital stream over USB. Up to 4 different assets may be viewed with a channel select switch.

Targeted Timelines:

*Confirmation of Interest in CFI no later than 17 October 2008

* Overview/Whitepaper on Technology Concept by 24 October (Prefer the delivery of white paper to be delivered with CFI intent on 17 October)

* One-on-One discussions on technology and capability demo with The EDGE Network Team – 30 October

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