



WARRIOR INNOVATIONS

# Call for Innovation (CFI)

## Opportunities for Member Consideration

### Objective:

The EDGE Network is requesting Member collaboration to identify wireless personal area network (PAN) technologies 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, Homeland security, and other Military opportunities.

### Requested Innovation:

This CFI is a search for advanced technology supporting short range, wireless Personal Area Network (PAN) capable of meeting NSA requirements associated with connection to a classified computer system worn on the body.

### Description:

Technologies, approaches, and products are sought corresponding to the following needs and conditions:

1. Un-hackable interface that is difficult to jam
2. Low probability of intercept and detection
3. Bandwidth of at least 100kbps, 500 kbps desired
4. Range 1-2 meters. Additional range is a negative
5. Low power transceiver (less than 1 watt preferred)
6. Light signature (including Infrared) undetectable at 50 meters.
7. USB interface
8. Able to be powered externally from 10 to 18 volts DC.
9. Able to operate in the vicinity of others wireless PAN-equipped soldiers without noticeable degradation or loss of "pairing."
10. Simple, secure "pairing" and "unpairing" of devices.
11. Once a peripheral is paired with a system, it is uniquely connected only to that system and will ignore other controllers.
12. Wired backup for all devices (data and power)

Non-RF solutions, in addition to RF-based solutions, are sought.

### 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

EDGE CFI Focal: Terence Winn – [Terence.winn@gdc4s.com](mailto:Terence.winn@gdc4s.com)

Responses due to: [info@EDGEwarrior.com](mailto:info@EDGEwarrior.com)