



## Call for Innovation (CFI)

**Objective:** The EDGE Network is requesting Member collaboration to provide a family of hardware tracking devices.

**Description:** General Dynamics C4 Systems (GDC4S) is currently seeking an EDGE partner(s) that can provide a family of hardware tracking devices. These devices are intended for a military customer, and it is recognized that no single device can satisfy all customer objectives but rather several devices are necessary.

The following table illustrates some rough device specifications.

Name	Volume <sup>1</sup>	Longevity	Communications	Audio	Video	Help Request
Micro	USB Memory Stick	72 hrs	802.11	No	No	No
Small	Small MP3 Player	144 hrs	Cellular, Iridium, or Military Networks	No	No	Yes
Medium	Coffee Mug	720 hrs	Cellular, Iridium, or Military Networks	No	No	No
Large	Shoebox	6480 hrs	Cellular, Iridium, or Military Networks	Yes	Yes	No

The Micro level tracking device is aimed at tracking the person that is carrying it without the person knowing that he/she is carrying the device. The specifications reflect the small form factor and the communications is limited to 802.11 so that a friendly agent can pass by the device and download information that represents the device's whereabouts since it began operating. Collection of the data would be performed via a "drive-by download."

After Micro level, the form factor scales upwards so that the device can support more capabilities. Audio and video collection capabilities are two examples of functionality that are required as the device becomes larger. The Help Request capability represents the ability to provide an interface on the device to the user so that the user can request help from the individual who is monitoring the device's location.

<sup>1</sup> The items in the Volume column are common household objects whose size is approximately what the tracking device's size should be.

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The devices should be structured in such a way such that different devices should be easily engineered that use different communications technology. In other words, if a Small tracking device exists that uses cellular communications technology, it must possible to create new Small devices that use Iridium satellite communications instead without an excessive amount of effort.

**Targeted Timelines:**

- Confirmation of Interest no later than 31 May 2010
- Quad chart on Technology Concept by 7 June 2010

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