

## **Position paper for Obama 60 Day review on Cyber Security**

### **Utilization of Small Businesses (SBs) for Innovative Cyber Security Research and Development**

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**Desired Outcome:** Greater utilization of (SBs with) technological innovation (R&D) to achieve U.S. Cyber superiority

#### **Problem Understanding:**

- The U.S. Government has a need for significant cyber security innovation (through R&D) in order to achieve cyber warfare superiority.
- Traditionally much of the innovation in cyber security, and other areas, resides in SBs.
- Existing technologies and innovation capabilities are scattered and undocumented.
- Significant cyber security capabilities have been developed through SBIRs<sup>1</sup> programs, but much good technologies languish “on the shelf” for lack of effective integration
- Larger (Aerospace) businesses are lacking in innovation hence provide diminishing returns in this area, but large businesses are effective in subcontract management and integration
- Currently cyber security R&D is greatly fragmented and spread across both small and large businesses.

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<sup>1</sup> Small Business Innovative Research

- Classifications and compartmentalization make the aggregation of cyber security R&D very difficult.
- There are the issues of intellectual property rights between large and small businesses.
- To get effective cyber capabilities for U.S. superiority, there is a need for integration/aggregation of the innovative R&D.

**Recommendations:**

- Utilize large services-oriented companies to find and document both existing cyber security innovations, as well as corporate capabilities for such.
- Utilize a large service-oriented company to develop road maps for contracting with Small Businesses.
- Utilize large service-oriented business, with SB support, to develop requirements for National Cyber Security needs.
- Utilize large Aerospace primes to aggregate SBs and their innovative R&D capabilities to address integrated cyber security needs.<sup>2</sup> Large businesses may effect their own “SBIR-like” programs that serve to integrate, aggregate and utilize small-business developed cyber capabilities.

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<sup>2</sup> This needs to be done with full protection of Small Business intellectual property rights (e.g., could give SBs SBIR rights and they license the technologies to the large businesses). Also need to incentivize the large businesses properly so they utilize the funds to employ the SBs with innovative capabilities versus squandering it to try to develop their own competing versions. This could be done by forcing a large (e.g., 60-70%) SB utilization requirement and having an award fee component to ensure it is adhered to.