Rapid Innovation Fund
DISA’s Perspective

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VISION

INFORMATION SUPERIORITY IN DEFENSE OF OUR NATION

MISSION

DISA, a Combat Support Agency, provides, operates, and assures command and control, information sharing capabilities, and a globally accessible enterprise information infrastructure in direct support to joint Warfighters, National level leaders, and other mission and coalition partners across the full spectrum of operations.
Who We Serve

Executive Branch
- White House Communications Agency
- National Security Council (e.g., Situation Room)
- Office of the President

Federal Government
- Office of Personnel Management

Combatant Commands
- Southern Command
- Africa Command
- Pacific Command
- European Command
- Northern Command
- Transportation Command
- Strategic Command
- Central Command
- Special Operations Command

Military Services
- Army
- Navy
- Air Force
- USMC
- Coast Guard

Plus 14 other DOD Agencies & 9 Field Activities

UNCLASSIFIED / FOUO
DISA: The IT Combat Support Agency
Provides, Operates, and Assures

DoD’s Internet: Secure, Resilient, Agile

Voice
Data
Video
Enterprise Services

Command & Control and Information Sharing

Testing
Spectrum
Senior Leader Support
Engineering
Contracting
Enterprise Infrastructure and Services

Robust, diverse, resilient, and protected communications and computing environment enabling warfighting operations

- 2,500 User Applications
- 11 Computing Centers
- 16 STEP/Teleports
- 65 Petabytes DECC Storage
- 17,000 Circuits
- 10 Sites / 12 Circuits
- 135,000 Mobility Users
- Network Services - NIPR/SIPR - DRSN - IRIDIUM
- Cyber Security JRSS
The RIF programs provides DISA with the opportunity and funds to help mature innovative technologies from small business rapidly that answers an immediate need in the cyber security industry.

Provides the ability of purchasing a “tailor made” technology for a specific problem instead of purchasing a COTS product that will still need to be transformed to meet DISA requirements.

Helps establish a relationship with small business and other agencies that DISA would other wise not be involved.
DISA reviews current requirements and/or sends out a request for topics to appropriate divisions

Senior input and resource commitment sought for each topic

Topics are ranked by a knowledgeable team prior to OSD submission
Transition Process

**DISA provides the following for potential vendors**

<table>
<thead>
<tr>
<th>Capability Maturation/Build out</th>
<th>Lab using representative datasets</th>
<th>Simulated operational environment to demonstrate that lab results translate into an operational environment with live data.</th>
<th>Security/IA accreditation</th>
<th>A stakeholder to integrate the technology if the final product fulfills the scope of the requirement</th>
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<td><strong>12 – 18 months</strong></td>
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<td><strong>6 - 12 months</strong></td>
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**Primary focus is to rapidly deliver an operational capability.**
Former RIF Projects

• **FY13 - Insider Threat Identification**
  - PoP Sep 2014 through Jun 2016
  - Demonstrate the ability to analyze trends, patterns and other relevant data to identify insider threats on that exist on DoD networks.

• **FY14 - Network Mapping & Mission Dependency Discovery**
  - PoP Aug 2015 through July 2017
  - Evaluate a system that will provide a network map to include information on how the network is being used. This information can aid in optimizing the network for the actual network traffic vice the designed network traffic.
Active RIF Projects

• **FY15 - Self-Shielding Dynamic Network Architecture (SDNA)**
  - PoP June 2016 through June 2018
  - By shielding the network from adversaries, SDNA dynamically alters the network architecture and behavior to stop and contain cyber attacks while remaining transparent to the user.

• **FY15 - REACT-Resilient Ephemeral Architecture**
  - PoP June 2016 through June 2018
  - Test a rapid reconstitution capability of a protected system within seconds versus hours. REACT is a configurable architecture for using Disposable Virtual Machines (D-VMs) on servers and endpoints to provide fast system reconstitution and to improve system security and resilience.

• **FY16 - Credential Misuse Detection**
  - PoP August 2017 through Feb 2019
  - Use a lightweight collector platform on Government end points and implement machine learning and digital fingerprinting capabilities to feed meta data to Government collection devices, in which a behavioral analytic tool will analyze that data in order to identify key user indicators that identify malicious activity and unusual behavior.
Conclusion

• To identify DISA’s mission needs please visit https://disa.deps.mil/org/BDA/SitePages/Home.aspx

• Other methods of exposure to DISA and potential utilization of capabilities present your capability at our Technical Exchange Meetings. Please contact Joe Kovaciv joseph.kovacic.civ@mail.mil 301-225-9443

• For more information about RIF @ DISA, please contact Erin Maultsby erin.j.Maultsby.civ@mail.mil 301-225-9451
DEFENSE INFORMATION SYSTEMS AGENCY
The IT Combat Support Agency

UNITED IN SERVICE TO OUR NATION