



*Concurrent
Technologies
Corporation*

IARPA Virtuous User Environment Proposers Day Presentation

- Concurrent Technologies Corporation
 - Independent 501(c)(3) applied R&D organization
 - Johnstown, PA; Annapolis Junction, MD; Arlington, VA
 - 550 employees; 35% with advanced science, engineering, or technology degrees
- Lead Investigators
 - Scott Zimmerman & Mike Fetsko
- Current Team Members
 - Open to teaming
 - In discussion with industry and academic partners



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- Research areas of interest
 - Insider threat
 - Evolution of Bayesian reasoning (or similar methods) to identify malicious insiders
 - Application of cognitive technologies to identify malicious behavior
 - Virtualization of hardware appliance for segmentation and access control of insider threats
 - Novel software approaches to enterprise level server management and virtualized cross-domain capability
 - New methods of secure client virtualization that are OS-agnostic and compatible with mobile and wearable devices
 - Methods for undetectable introspection/viewing of VM machine state
 - Novel secure methods of dynamic user profile virtualization in IoT



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- Qualifications and Capabilities
 - Demonstrated expertise with Cloud Computing and Virtual Desktop Infrastructure (VDI) implementations.
 - CTC architected and implemented the Unclassified Remote Hosted Desktop (URHD), a software-as-a-service (SaaS) delivery model in a public cloud, the URHD system provides a cloud based virtual desktop infrastructure and application delivery.
 - URHD was the first SaaS cloud system to earn FedRAMP authorization, the first to deliver a virtual desktop environment, and the first to have an agency sponsor.
 - Experience in supporting the Intelligence Community (IC) with cyber security, data delivery, data analytics and visualization.
 - Cross Domain solutions – Assured File Transfer (AFT) guard and Advanced Guard for Information Security (AGIS)



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- Seeking:
 - Partners seeking to transition relevant basic and/or applied research to application
 - Cognitive computing / Artificial Intelligence (AI) technologies for identification of malicious insiders
 - Cyber Security automation methods
 - Security operations at machine speed, removing the human interaction
 - Isolation technologies for virtual machines



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