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Contact: Salim Hariri, CEO, salim.hariri@avirtek.com, (520)977-7954

AVIRTEK, Inc. Awarded $150k Phase I STTR from the United States OSD Small Business Innovation Research (SBIR) Program

Tucson, AZ (May 5, 2016) – On May 5, 2016 AVIRTEK was selected for an SBIR Phase I award with the Department of the Army, Research, Development and Engineering Command ($150,000 over 9 months) for its OSD SBIR Phase I proposal entitled "Resilient Middleware Services for Cyber Physical Systems".

"In Phase I of this project, we will leverage AVIRTEK's AIM technologies and our knowledge in Security, Moving Target Defense (MTD), Resilient computing systems, Cloud Computing, and Autonomic Computing to architect, design, and demonstrate important capabilities of the proposed Resilient Middleware Services (RMS) for Cyber-Physical Systems and their applications. ", said Dr. Salim Hariri, CEO and Founder of AVIRTEK.

The RMS to be developed in Phase I will be based on the following innovative capabilities: 1) **Resilient Communication System (RCS):** We apply MTD approach to provide redundant and diversified communications in order to make it extremely difficult for an attacker to stop the communications between cyber physical system components and their command and control center; **2) Resilient Command and Control System (RCCS)**: To increase the resiliency of the command and control applications in critical cyber physical systems, we apply AVIRTEK Software Behavior Encryption (SBE) technology to hide the RCCS execution environment so attackers cannot exploit existing vulnerabilities and succeed in their attacks; and 4) **Self-Management**: By leveraging AVIRTEK autonomic management capabilities, we can dynamically and randomly change the computing and network configurations such that attackers will have no time to probe, construct and launch successful attacks.

Partners: The University of Arizona

About AVIRTEK, Inc.

AVIRTEK is a professional services and product development firm located in Tucson, Arizona, and founded in 2006. AVIRTEK, a startup company from the Center for Cloud and Autonomic Computing at The University of Arizona, which is a center funded by the Industry/University Cooperative Research Center of the National Science Foundation, is pioneering innovative autonomic cybersecurity and management solutions that are based on strategies used by biological systems to deal with complexity, heterogeneity and uncertainty. AVIRTEK's cyber protection products and services can protect computer systems, networks and data from any type of cyberattacks. AVIRTEK developed sophisticated cyber and human behavior analysis algorithms to detect any anomalous behaviors and to proactively respond in a timely manner to mitigate or stop the attack. To learn more about AVIRTEK products and services, go to www.avirtek.com