AVIRTEK
Autonomic Cyber Security

FOR IMMEDIATE RELEASE

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AVIRTEK, Inc. Awarded $150k Phase I SBIR Grant from the United States Air Force Research Laboratory

Tucson, AZ (July 27, 2015) – On July 27, 2015 **AVIRTEK** was awarded a contract with the U.S. Air Force Research laboratory ($149,841.00 over 9 months) for its Phase I proposal entitled "Autonomic Monitoring, Analysis, and Protection (AMAP) System". The objective of the project is to leverage AVIRTEK's AIM technologies being developed in our current projects and our knowledge in Security, Resilient computing systems, Cloud Computing, and Autonomic Computing to architect, design, and demonstrate important capabilities of the proposed Autonomic Monitoring, Analysis, and Protection (AMAP) system. AMAP will be based on the following innovative tools:

1) Monitoring and Logging Tool (MLT) that will be responsible for dynamically monitoring and logging a wide range of performance and behavior metrics for networks and hosts;
2) Cyber DNA Flow (C-DNA) data structure to store monitored information into an innovative data structure that allows us to achieve accurate characterization of current state of the system as well as the projection of the next state;
3) Anomaly Behavior Analysis (ABA) methodology to detect any anomalous events that might be triggered by attacks, faults or accidents (natural or malicious);
4) Self-Management Engine (SME) to provide the capability to deliver automated/semi-automated management capabilities to respond in a timely manner to stop and/or mitigate the impact of detected cyberattacks; and 5) Holistic Visualization tool to capture the results from all the other tools, the physical entities, network links, available services, and system processes and present them in a human friendly format. AVIRTEK envision significant opportunity to commercialize the AMAP technologies for government agencies, finance, industry, and cloud environments.

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 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.
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