SAIC Supports the U.S. Air Force Surgeon General Telehealth (AF/SG6) Avatar Virtual Support Contract with OLIVE

SAIC providing platform for virtual family support and use of avatars in mental healthcare for deployed personnel to help ameliorate the familial, societal, and emotional effects of war

Science Applications International Corporation (SAIC) supports the Office of the U.S. Air Force (USAF) Surgeon General Telehealth (AF/SG6), Air Force Medical Support Agency (AFMSA) Avatar Virtual Support contract as the prime contractor delivering turn key virtual systems. SAIC and its subcontractor InWorld Solutions are supporting the delivery of operational assessments (OA) and two virtual systems for virtual family support and the use of avatars in mental health for airmen and women on the front line of AF combat action.

Under the contract, SAIC is providing its enterprise-grade, secure On-Line-Interactive Virtual Environment (OLIVE) software platform, hosting services, hardware, technology training, and customized services. Subcontractor InWorld is delivering a course of instruction for using the virtual world (VW) technology and supporting interaction with mental health providers using the OLIVE-based environment that incorporates a wide range of avatars, content, and features specifically designed to facilitate clinical and educational applications. SAIC and InWorld Solutions are configuring and supporting both virtual systems.

Using OLIVE, SAIC and InWorld Solutions will demonstrate a technological approach to improve warrior transition from war-zone deployment. SAIC and InWorld Solutions will provide security forces members the ability to interact with their families in a highly immersive fashion to enhance service member and family pre- and post-deployment communication, interaction, support, and re-integration.

Virtual Family Support System

Under the virtual family support component, SAIC is developing customized, three-dimensional (3-D) homes and a military base in the OLIVE-based virtual environment where deployed airmen will be able to participate in everyday family life. Family members can walk around, talk, interact, and actively help each other (doing homework, teaching skills etc.), and access other online resources such as a casual game area. Interaction with family members in 3-D virtual worlds can lower isolation from families, enhance societal support, reduce the sense of alienation, and facilitate re-integration, particularly in the case of those suffering from post traumatic stress disorder (PTSD).

Mental Health System

Under the mental health component, SAIC and InWorld Solutions are developing customized scenarios and environments based on mental health clinical areas of interest. This will include a virtual reality system for education on potential uses such as family therapy, psychotherapy, PTSD assessment, medical triage, mass disaster, domestic abuse, and sexual abuse capabilities in distinct sections within the private and secure OLIVE virtual world. SAIC and InWorld Solutions will also deliver a course of instruction to mental health providers at Wright Patterson AFB (WPAFB) and train them on the use of OLIVE system.

SAIC®
From Science to Solutions

OLIVE Enables Immersive VWs for Real-time, Interpersonal Interaction

SAIC's OLIVE is a powerful, dynamic, complete software platform that enables organizations to deploy their own persistent and secure VWs. OLIVE can securely support hundreds of simultaneous users represented as realistic, human avatars from sites with Internet access located anywhere in the world, from day one. Users collaborate over computer networks using a video game-like, 3-D user interface that provides access to a variety of functionality and media. OLIVE-based VWs bring together physical presence, action, voice, data, and media in realistic, context-specific, simulated environments with hypothetical or geospecific terrain that can run in an organization's information technology (IT) environment.

InWorld Pioneers Online Behavioral Healthcare Applications in the Virtual World

InWorld Solutions, based in Palo Alto, Calif., is an innovative leader in the application of virtual environments to behavioral medicine, organizational development, and related fields. CEO of InWorld Solutions, Dr. Walter Greenleaf, recognized as one of the founders of virtual reality technology, has been using the OLIVE platform to provide computer-based approaches to treating behavioral health disorders for over four years. He was the first to develop an online behavioral healthcare application in virtual environments.

In 2010, the InWorld system was selected by National Intrepid Center of Excellence (NICoE) in Bethesda, Md. to provide clinical behavioral therapies in the virtual world to military personnel and veterans with mild Traumatic Brain Injury (mTBI), PTSD, and complex psychological health (PH) issues. InWorld's use of OLIVE delivers improved, integrated behavioral healthcare to personnel at a lower, affordable cost.

OLIVE Supports A Turn Key Solution for the Implementation of Virtual Worlds

OLIVE computer-generated, 3-D synthetic environments support a variety of collaboration, training, analysis, operations, experimentation, and socialization applications across industries. With over ten years of development behind it, OLIVE is one of the most advanced VW environments available today, and the winner of numerous awards including the 2008 Virtual Worlds Innovation Award for the Enterprise. The OLIVE software platform provides:

- A vast library of art assets including samples of most types of objects, room interiors, avatar clothing, and animations for use in any VW effort
- A set of integrated software modules and tools that work together to instantiate highly realistic virtual environments where users interact with one another just as in the real world
- Multimedia sharing, scalable computing, and network-enabled connectivity that allows a complete IT-ready system for developing and supporting multiplayer, interactive VWs
- Architecture and capabilities that are secure and proven–a critical consideration in making long term investment decisions

OLIVE is part of SAIC's portfolio of end-to-end modeling and simulation and training solutions, and the SimInsight™ platform of simulation services. SAIC's OLIVE platform and the company's 20 years of experience in modeling, simulation, and training support the development of innovative virtual world solutions for the Department of Defense, U.S. Department of Agriculture, the branches of service, and cross-agency operations for the U.S. government.

SimInsight™

For More Information

SAIC

Lisa Henderson, Director, OLIVE Solutions

office: 407.243.2924 | mobile: 321.507.8422

email: lisa.m.henderson@saic.com

www.saic.com/olive | **oliveinfo@saic.com**

SAIC®
From Science to Solutions

© Science Applications International Corporation. All rights reserved. SAIC, the SAIC logo, and SimInsight are trademarks or registered trademarks of Science Applications International Corporation in the United States and/or other countries. FORTUNE 500 is a registered trademark of Time Inc. in the United States and/or other countries. The InWorld Solutions logo is a trademarkof InWorld Solutions LLC in the U.S. and/or other countries.