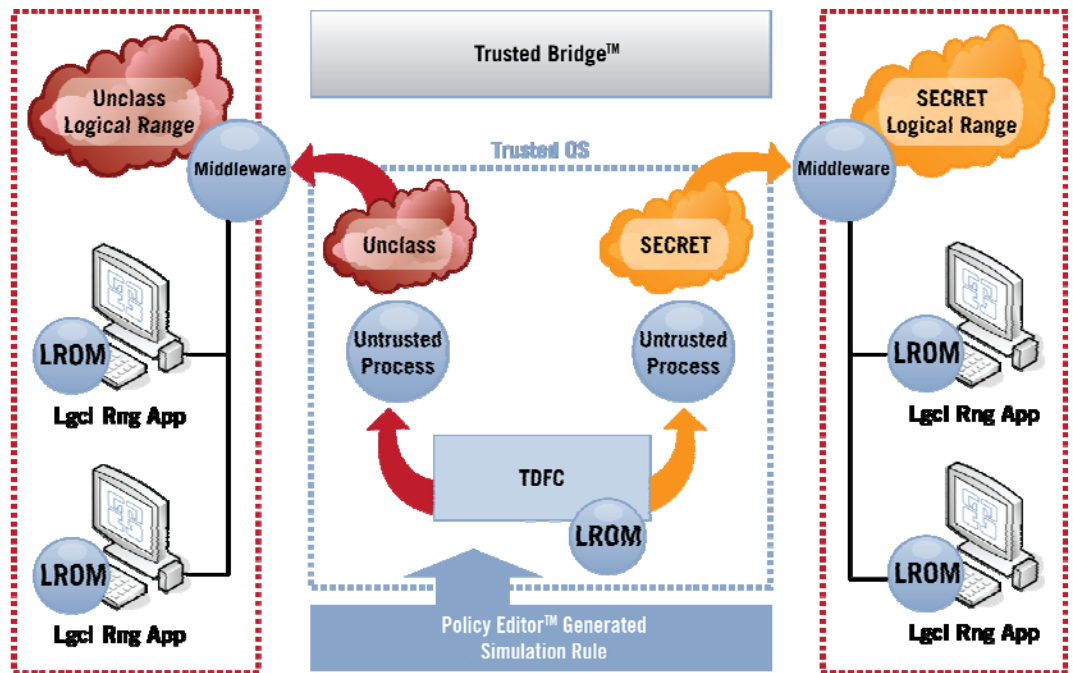


TENA Used Within the New Cross Domain Solution, SimShield, to Support Pacific Alaska Range Complex RED FLAG Exercise

In June 2009, Trusted Computer Solutions' (TCS) SimShield™ solution, using the Test and Training Enabling Architecture (TENA) protocol, achieved the Secret and Below Interoperability (SABI) Certification and Accreditation (C&A) Authority To Connect (ATC) for the Pacific Alaska Range Complex Air Combat Training System (PARC ACTS). To date, SimShield is the only TENA-compliant cross domain solution achieving this certification.



TENA Architecture within SimShield from Trusted Computer Solutions

The Pacific Air Force (PACAF) and the 353d Combat Training Squadron (353 CTS) have a need for multi-level software to support highly realistic and effective joint training for combat aircrew, ground crew, and command staff with the focal point on war fighting skills. Capabilities include real-time air-to-air, air-to-ground, and ground-to-air mission capture, monitoring and playback for aircrew visual feedback and performance self-evaluation. The RED FLAG - Alaska exercise consists of the PARC ACTS and is conducted in 66,000+ square miles of training airspace (Air Force managed) and 1.6 million acres of training land (Army managed); plus 60-90 aircraft with ~1,400-2,000 participating personnel per exercise.

"SimShield TENA, certified for SABI, has proven that our military training forces can effectively participate in live training exercises without compromising data security. SimShield TENA will reshape combat training efforts by providing the most realistic training experience available today," according to Billy Smith, HQ PACAF Ranges Program Manager¹.

PARC ACTS requires the use of a common architecture to meaningfully communicate across divergent systems and well-documented system interfaces that ensure commonality. PACAF has elected to use TENA to achieve these goals in RED FLAG - Alaska. PARC involves a TENA classified network/enclave and a TENA unclassified network/enclave for training exercises. Because the classified and unclassified training system enclaves must be integrated, a

The Foundation for DoD Range Systems Interoperability

Test and Training Enabling Architecture

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¹ Quote and SimShield information contained in this document provided with permission to print by TCS.

TENA-supported guard solution was needed to provide multi-level security for cross domain data sharing and separation.

SimShield provides the capability to label, segregate, protect, and exchange data between TENA systems executing at different sensitivity or classification levels. The SimShield software solution is made up of two components: the Policy Editor™ and the Trusted Bridge™. The Policy Editor is an easy-to-use graphical user interface that permits security classification and TENA domain experts to enter and review the reclassification rules that govern the intercommunication between single level logical ranges. Once approved, the administrator can install and implement the configured rule set on the Trusted Bridge in a matter of minutes, which then enforces the installed rule set. SimShield meets the data format and real-time performance requirements for distributed operations, exercises, and training.

SimShield TENA provides PARC ACTS with secure bi-directional integration and interaction of all equipment and subsystems. It also allows PARC ACTS to further support US joint training capabilities by connecting to other training networks. TENA has become a technical blueprint for achieving the vision of an interoperable, reusable, and composable set of geographically distributed range resources (live, virtual, and constructive), that can be rapidly combined to meet new testing and training missions in a realistic manner. It is the protocol advocated by Joint Forces Command (JFCOM) for range interoperability.

Certification and Accreditation (C&A)

As mandated by the Office of Director of National Intelligence (ODNI), all operational programs using a cross domain solution must be granted an ATC before implementation in the field. An ATC is obtained following successful completion of the SABI C&A process. SABI C&A is a defined sequence of review and testing tactics that facilitate risk analysis associated with a program in which a cross domain solution is being used, as in the case of PARC ACTS.

For More Information

For more information about SimShield, contact Rob Konosky, Consulting Sales Manager, Trusted Computer Solutions, email: rkonosky@trustedcs.com, or visit the SimShield website <http://www.trustedcs.com/products/SimShield.html>.

For more information about TENA, contact George Rumford, TENA Software Development Activity (SDA) Director, e-mail: feedback@tena-sda.org or go to the TENA Web Site: <http://www.tena-sda.org>.