

SunSM Secure Network Access Platform Solution



Information Assurance for Mission-critical Defense and Government Applications and Infrastructures

Highlights

Secure collaboration across separate networks from a single system:

- Thin-client, zero-administration desktops
- Single virtual switch to multiple networks
- Single desktop with connections to multiple security domains implemented as physically separated networks (without enabling intradomain routing)
- User-controlled access to domains based on security level and compartmentalization
- Secure interdomain data transfer
- Automated and manual auditing based on predefined policies and procedures
- Supports Windows, Linux, and the Solaris OS for flexible application access



Many government communities, including defense, intelligence, and homeland security, provide access to classified or sensitive information to authorized individuals within stovepiped networks. But network-centric operations use distributed systems that often mean scattered data, security risks, high costs for facilities and support, and complicated upgrades to legacy systems. In addition, training, poor data availability, and the expense of redundant telephony and data networks bring new challenges to today's defense and government agencies as they strive for full situational awareness. Often applications at differing classification or privacy levels residing on parallel networks have to be accessed through multiple desktops to prevent unauthorized access between secure networks. This can cause inefficiency, delays, security concerns, and problems seeing the "whole picture."

Protecting and preserving the integrity of classified and sensitive information while delivering verified information to authorized personnel in real-time operational environments is a high priority. In addition, preventing interception and distortion by hostile forces, intellectual property and computer systems theft, and collateral damage from virus attacks is also critical. And all these formidable challenges are met by the SunSM Secure Network Access Platform (SNAP) solution.

The Secure Network Access Platform architecture

- SNAP is a secure, role-based solution for government communities that have isolated, centralized, and distributed network configurations. It provides fast access to critical classified data residing on physically separate networks, while preserving integrity and security.
- This architecture makes secure collaboration across parallel networks possible from a single system, reducing cost and increasing efficiency. Benefits include:
 - Low-cost, rapid deployment of security solutions without having to replace or heavily modify existing applications and services

- A clamped-down system that preserves the integrity of protected data and provides virus and hacker resistance; IP theft protection is provided by a proven solution based on National Security Agency and Defense Intelligence Agency accredited implementations
- Centralized management that reduces administration costs and optimizes and reduces power and compute-resource consumption through virtualization and Energy Star compliance

The SNAP architecture utilizes a unique hardware and software solution to meet government requirements for a secure network user interface:

- It provides secure, role-based access to create a virtual collaboration space. Using the SolarisSM 10 Operating System with Trusted Extensions (Common Criteria Certified EAL4+) and the Sun RaySM 2FS Virtual Display Client, users can access authorized applications and associated classified information from multiple networks through a trusted networking facility that's transparent to the user.

“The important issue is ensuring that the right people have access to the right information and the right tools for the job.”

Richard Easton

Director, Global Defense Solutions, Sun Microsystems

- It can help government and intelligence organizations fully take advantage of Trusted Solaris military-grade security, allowing secure connections to multiple classified networks and Web services while preserving investments in legacy systems, applications, and services.
- With more server-side, browser-based applications in use, the Sun™ Secure Global Desktop Software and partner solutions from Citrix enable the SNAP solution to increase administrative efficiency and leverage existing infrastructure. (Citrix provides users with seamless, secure access to the mission-critical applications and information required without having to rip out and replace existing infrastructure and applications.)

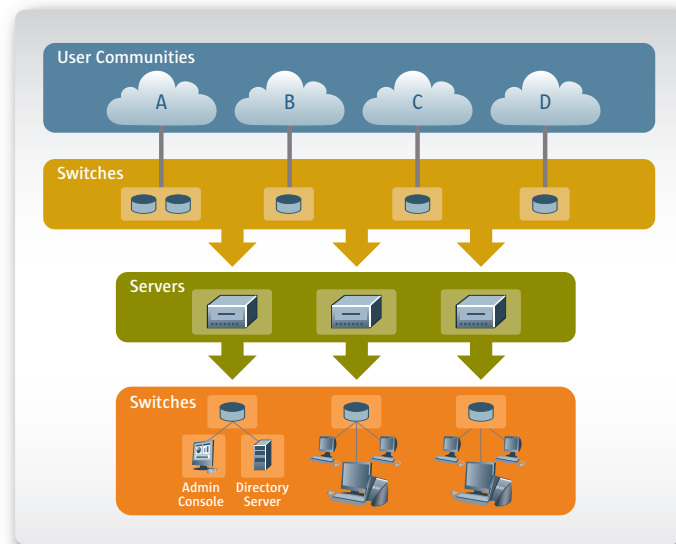
Proof of concept/sample equipment list

Hardware components

- Sun Fire™ T2000 server
- Sun Ray 2FS Virtual Display Client

Software components

- Solaris 10 OS, with Trusted Extensions
- Sun Ray Server Software 3.2
- JumpStart™
- Sun Java™ System Directory Server 5.2 (LDAP) with Identity Synch for Windows (ISW)
- Citrix ICA Client, Remote Desktop



Secure Network Access Platform

Partnerships

While Sun provides the core differentiating technology as the foundation of SNAP, we rely on our partners to add specific security features and functionality and to enable accreditation. With a history of information security and project success, Sun and our partners provide the right solutions for defense needs.

Ready-to-deploy infrastructure

Sun's Customer Ready Systems (CRS) program delivers added value for a wide variety of customers looking to leverage Sun Reference Architectures. The CRS program offers customers flexible Sun-factory integration capabilities and a wide range of services that deliver enhanced reliability and faster deployment times, further contributing to lower TCO.

Sun in defense

Sun is committed to delivering solutions for defense that reduce costs, streamline processes, and facilitate appropriate collaboration — from system design and conception to asset utilization. Sun's defense solutions are built on

standards-based technologies and provide a stable, secure, long-term foundation for exchanging sensitive information and making better business decisions.

Sun and our partners have the expertise, solution flexibility, and dependability that defense organizations need to help them run a more lean operation. Sun's defense team can provide rapid, adaptive deployment of services and secure sharing of data across disparate information systems. Sun's easy-to-integrate, open SNAP infrastructure can improve defense efficiency and drive down costs through universal, real-time access to need-to-know information with accreditation.

Learn more

To learn more about the Sun Network Access Platform (SNAP) solution, visit sun.com/government.

For more information about Sun Reference Architectures, go to sun.com/integration/refarch/.