

DTW - DODIIS Trusted Workstation



Intelligence Paradigm for the 21st Century

DTW SOLUTION BENEFITS

DODIIS TRUSTED WORKSTATION (DTW)

HIGHLIGHTS:

- Certification and Accreditation Bundled Services
- Ease-of-Use with common desktop applications
- Enhanced Security and Functionality
- Enables access to information across differing classification levels while enhancing security, speed, and productivity
- Community Standard Solution with proven top-level security approval, certification, and accreditation

Intelligence is the lifeblood of any military operation. The ability to know what the "other side" is thinking is paramount to success. From Hannibal and William the Conqueror, to modern leaders, every advantage must be exploited.

Today's war on terror has placed renewed emphasis on the military's need to obtain information in a secure and cost-effective manner. DTW is that edge.

DTW, or the DODIIS (Department of Defense Intelligence Information System) Trusted Workstation, is designed to provide a standard intelligence system coupled with applications interoperability that enables collaboration between intelligence sites in a secure and timely manner. DTW is an initiative that was jointly developed by Sun Microsystems and Trusted Computer Solutions (TCS).

ADVANTAGE - Trusted Solaris™

Sun Microsystems is a major element of the DTW. The heart of the system is the secure operating system, "Trusted Solaris™", that can maintain segregation of differing security classification and sensitivity levels on a single physical computer. By using a strict access control protocol, Trusted Solaris™ allows a cost saving by reducing the need for multiple desktop systems at differing security classification levels. When the Pacific Command's Joint Intelligence Center, (JICPAC) implemented DTW, Trusted Solaris™ was a key factor in helping them reduce the number of compute systems previously dedicated to running compartmented applications.

This Sun-developed version of the popular Solaris™ OS has been around since 1990 when Multi-level Secure software systems first appeared. Then, the NSA's "Orange Book" set the criteria for certification. Today, it is the "Common Criteria" - an international effort to provide consistent measures of the levels of trust. Sun's Trusted Solaris™ has the highest Operating System rating with an EAL-4 (Evaluation Assurance Level). In addition, Sun provides 3 Protection Profiles. And it is COTS (commercial off-the-shelf).

A major benefit of Trusted Solaris™ is the ability to access multiple security levels on a single computer. Using a strict access control protocol, Trusted Solaris™ allows a cost saving by reducing the need for separate hardware systems dedicated to running compartmented applications.

JICPAC uses the DTW concept with Trusted Solaris™ to reduce the number of compute systems previously dedicated to running compartmented applications. JICPAC had up to 12 workstations at each workspace with each workstation running at a different security classification level.

The DTW solution allows JICPAC to install one thin client appliance at the desktop which is connected to the DTW server. The DTW server has the physical connections to the networks running at different classification levels. The DTW server is essentially a secure webportal.

Trusted Solaris™ provides additional safeguards against internal and external threats, beyond the protections commonly available with standard UNIX systems. Trusted Solaris™ is binary compatible with Solaris™, and almost all applications that run on Solaris™ run on Trusted Solaris™ with little or no configuration changes.

ADVANTAGE - SUN RAY™

Another integral component of DTW is Sun's Sun Ray™ ultra-thin client appliance combined with TCS' Trusted Workstation™ desktop product. This thin client infrastructure provides cost-effective and secure access of varying levels to mission-critical applications across multiple domains.

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The Sun Ray™ is a compact "plug-and-work" device that processes only user input and screen output. It is a "headless" device that is compatible with standard VGA monitors, designed to allow leverage of existing IT investments. The Sun Ray™ has no CPU, no disk, no fan - just the circuitry to interface to the server and a smart card. One model has all this circuitry embedded in the monitor. Cost of ownership is extremely low. All software and hardware upgrades are done at the server. Power draw is minimal and the systems run cool.

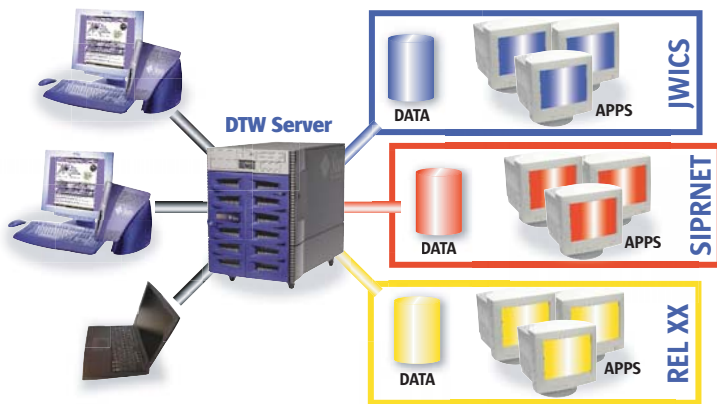
A featured enjoyed by DTW users is the "hot desking" capability. Each user is given a unique Java card for access to the Sun Ray™. The user simply inserts the card, enters a password and his last session is presented - no "boot up". If the user has a need to show data to others, he can remove the Java card and reinsert it into any other Sun Ray™ on the network and VOILA! his session appears. Great for preparing and giving presentations, peer review or mobility.

The Sun Ray™ is a security officer's dream. Since no data resides anywhere on the device (no disk, memory), nothing can be copied and removed.

SUMMARY

The DODIIS Trusted Workstation provides intelligence agencies with a collaborative tool to analyze classified data and disseminate actionable information securely to differing sensitivity levels all from a single desktop. Sun's Trusted Solaris™ and Sun Ray™ ultra-thin client are key elements in the solution. The DIA goal of installing DTW in 80% of all analyst workstations by 2007 will clearly provide a better, faster and more secure environment.

DTW PROGRAM DESCRIPTION



Trusted Solaris™ BENEFITS

- Implements label-based security with hierarchical and compartmented modes
- Implements Role-Based Access Control and the Principle of Least Privilege
- Provides a trusted multilevel desktop for workstations and ultra-thin clients
- Has the most complete set of trusted functionality of any certified OS
- Mandatory Access Control
 - Labels are applied to subjects and objects
 - Access control is based on label relationships
 - Both hierarchical and compartmented modes
- Trusted Administration
 - Trusted Path
 - Auditing

SUN RAY™ Ultra Thin Client BENEFITS

- Over 27,000 Sun Ray™ at Sun Microsystems
- THE Stateless Desktop: Minimal maintenance
- No moving parts
- No viruses (No OS, No HW upgrades)
 - Server Availability >150K MTBF
 - Power savings <20W
 - Complete deployments in a day
 - 2 admins for every 4000 desktops
 - Application updates: days vs. months
- Reduces Cost and Complexity
- Improves Security
- Promotes Mobility

Trusted Solaris™ and Sun Ray™ ultra-thin client appliances contribute to DTW the benefits of enhanced security, administration, functionality, and productivity with lower costs.

Driven by the challenge of securely sharing information in a timely manner across multiple organizations while lowering administration and maintenance costs, the JEDI PMO has selected DTW as their community standard solution. This new and innovative solution utilizes the Sun Microsystems Sun Ray™ ultra-thin client and Trusted Solaris™ Operating System in conjunction with TCS products and services to enable intelligence operations to ensure that high-risk processes and data exchanges are automated in a predictable, auditable, and accredited manner. The ultra-thin client infrastructure provides concurrent secure domains with access to Solaris™ and Windows - based mission-critical applications running at differing security classification/sensitivity levels from a single desktop and true session mobility. With no need for individual desktop maintenance or upgrades, the ultra-thin client delivers a higher level of information assurance and improved productivity for users with a significantly reduced total-cost-of-ownership (TCO).

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