Avocent

Secure KVM Solutions
For Your Multi-Classification Applications

Secure KVM Switching Solutions for Your Multi-Classification Applications

Common Criteria

Understanding the requirements of a multi-classification environment is essential in providing the right solution. Avocent KVM secure switching solutions are custom designed to support multi-classification secure applications. Your data will not be compromised.
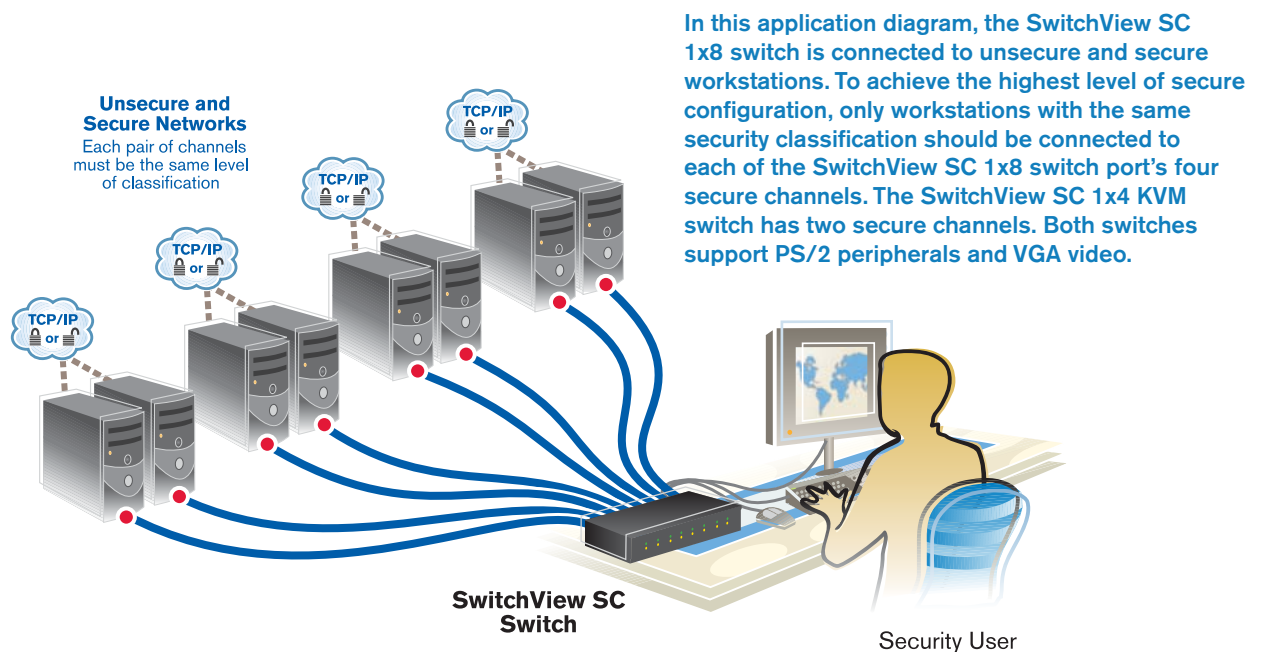
You can safely switch between as many as eight computers operating at different classification levels, all from one keyboard, monitor and mouse. The Avocent SwitchView® SC KVM switches have been approved under National Information Assurance Partnership (NIAP) Common Criteria to EAL 4+.

Secure Desktop Switching Applications

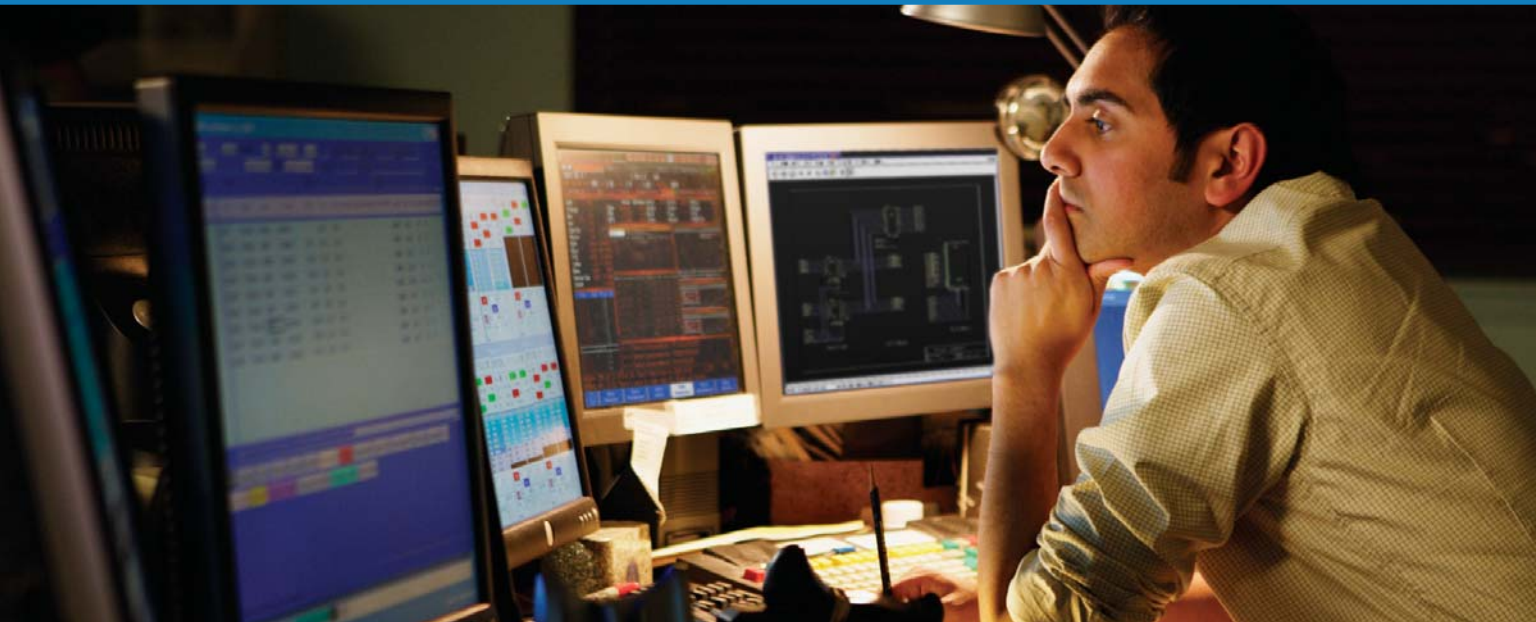*U.S. Navy Photo*
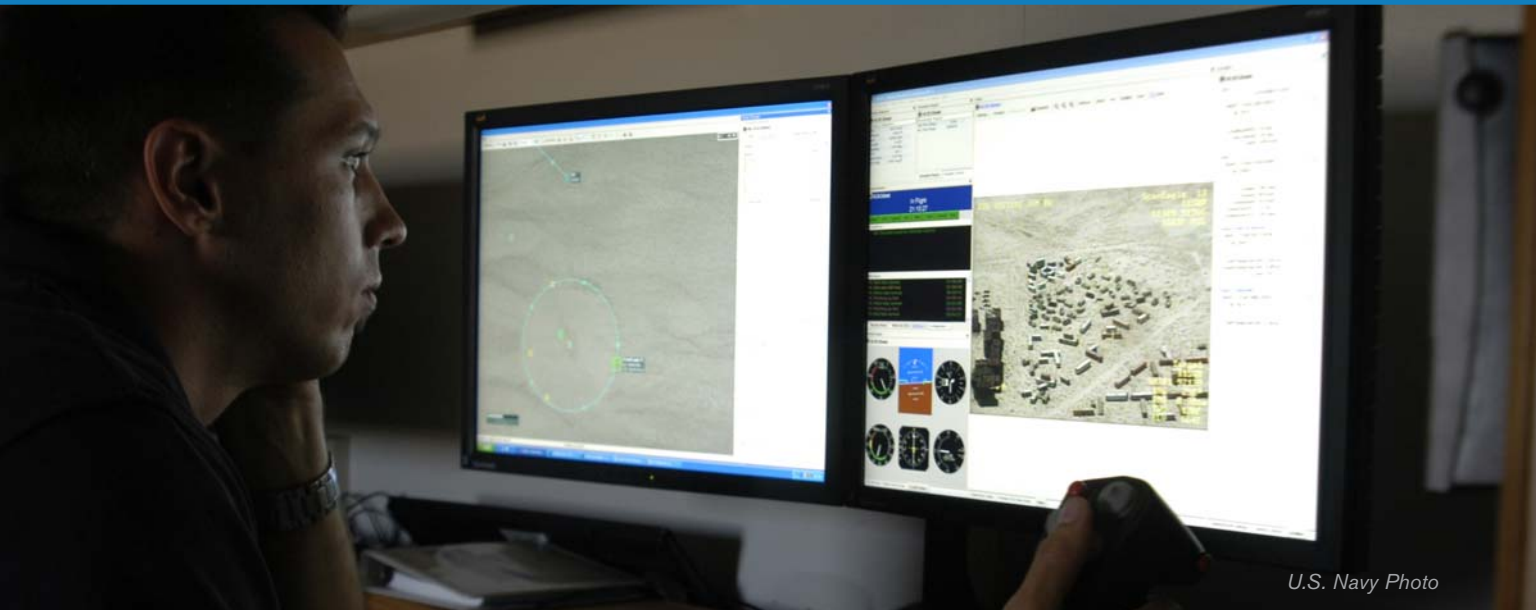
SwitchView SC switches

Requirement: A government analyst with multiple workstations needs to consolidate the workstations with a keyboard, mouse and up to two monitors. Each workstation has a different security classification and matching network connection (unclassified, secret, etc.).

Avocent Solution: The NIAP certified SwitchView SC switch technology makes it impossible to transfer data between the connected computers. Separate I/O processors control KVM switching and access to computers – an important factor for a user who may access secure and non-secure networks from one point of contact.

Unsecure and Secure Networks
Each pair of channels must be the same level of classification

TCP/IP 🔒 or 🔓

In this application diagram, the SwitchView SC 1x8 switch is connected to unsecure and secure workstations. To achieve the highest level of secure configuration, only workstations with the same security classification should be connected to each of the SwitchView SC 1x8 switch port's four secure channels. The SwitchView SC 1x4 KVM switch has two secure channels. Both switches support PS/2 peripherals and VGA video.

SwitchView SC Switch

Security User
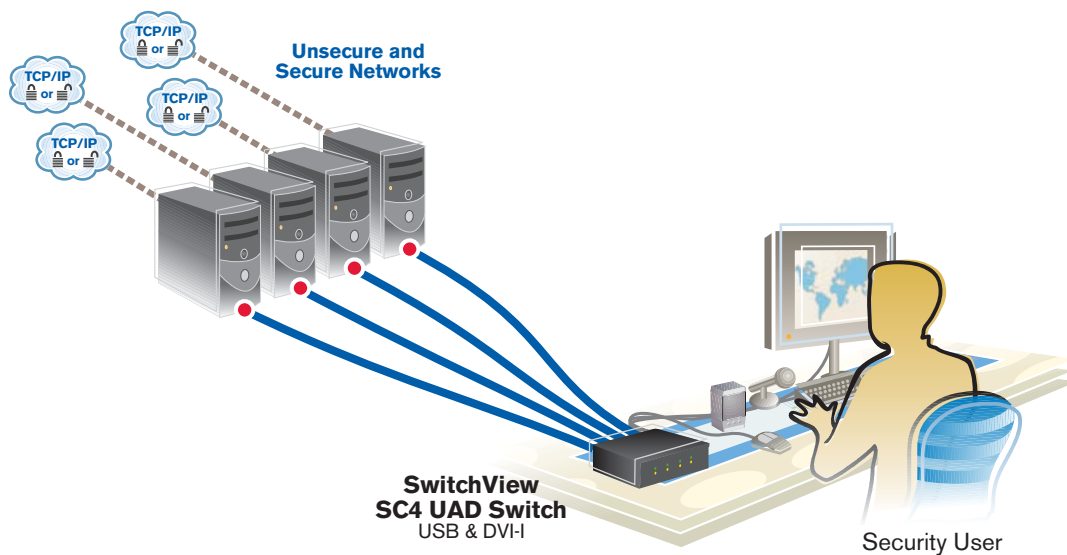
Secure Desktop Switching **for USB Applications**

The SwitchView SC4 UAD KVM switch

Requirement: A government analyst needs secure support for multiple workstations that support USB-only applications, DVI-I video, speakers and a microphone.

Avocent Solution: The SwitchView SC4 UAD KVM switch includes four fully secure channels isolated to 60dB. The switch supports USB peripherals (keyboard and mouse only), audio peripherals and DVI-I video for resolution up to 1920x1200 @ 60Hz.

The SwitchView SC4 UAD switch supports DVI-I video interfaces for analog or digital applications, USB keyboard and mouse peripherals, and audio peripherals as shown in this application diagram.

TCP/IP or

TCP/IP or

TCP/IP or

TCP/IP or

**Unsecure and
Secure Networks**

**SwitchView
SC4 UAD Switch**
USB & DVI-I

Security User

Secure Desktop Switching *for High Resolution Applications*

The SwitchView SC8 DVI KMV Switch

Requirement: A government analyst with multiple high resolution dual DVI video workstations needs to consolidate the workstations with a keyboard, mouse and two monitors.

Avocent Solution: The NIAP certified SwitchView SC8 DVI KVM switch includes eight fully secure channels isolated to 60dB. Each channel supports dual-head, dual-link DVI-I video connections and provides the highest video resolution available in a secure KVM switch: 2560x1600 @ 60Hz.
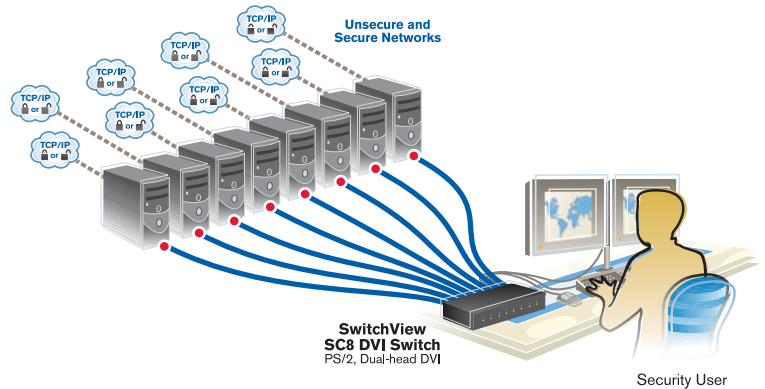

This diagram reflects how the SwitchView SC8 DVI switch supports dual-head digital and analog video applications. The DVI video lets you view multiple applications with crisp, clear resolution.

Secure Desktop Switching *for DoDIIS Trusted Workstation Applications*

The SwitchView SC4 UAD KVM Switch

Requirement: A government analyst needs to consolidate a DoDIIS Trusted Workstation (DTW) and a separate unsecure workstation with one keyboard, mouse and monitor. The DTW consists of a Sun® Microsystems Trusted Solaris™ Server running the Sun Ray™ Session Server software and delivers the user applications to the desktop through a Sun Ray Ultra-Thin Client. The DTW gives the analyst access to multiple secure networks (data, home directories, applications) of varying classifications from a single desktop and is a client/server-based architecture.

Avocent Solution: The SwitchView SC4 UAD KVM switch includes four fully secure channels isolated to 60dB. Each channel supports USB peripherals (keyboard and mouse only), DVI-I video for resolution up to 1920x1200 @ 60Hz and audio peripherals.
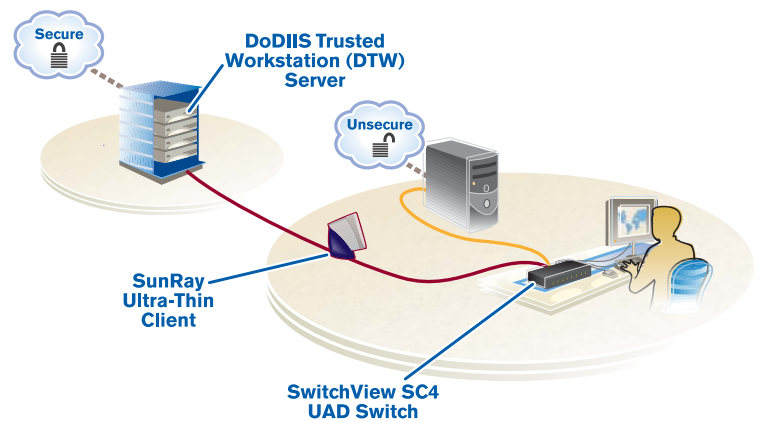

In this diagram, the SwitchView SC4 UAD switch supports the DoDIIS Trusted Workstation and the secondary unsecure workstation with a DVI-I interface, USB keyboard and mouse, and audio peripherals.

Secure Matrix Switching Applications

The SwitchView SC Switch and AMX Matrix Switch

Requirement: A government analyst requires access to multiple targets within the same classification network and access to multiple target devices that are connected to different classification networks. This application also allows target devices to be located in a secure data center or multiple data centers where the various classification networks can be kept separate.

Avocent Solution: The SwitchView SC switching system combined with the Avocent AMX® matrix switch provides you with secure access to three separate networks of varying classification levels. Each network user will have three AMX user stations at the desktop connected with a SwitchView SC switch to ensure data integrity between the networks.
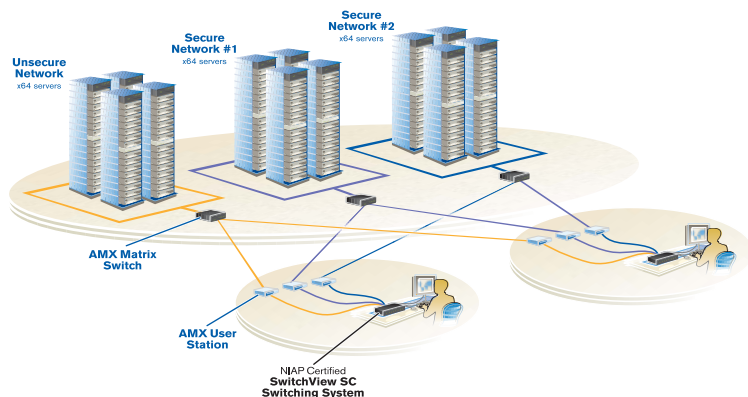

Secure Back-Racking Applications

The SwitchView SC Switch and LongView Extender

Requirement: A government agency requires an extra layer of security by removing the user's physical access to the workstations.

Avocent Solution: The SwitchView SC switches combined with Avocent LongView® Extenders allow a user to sit at their desktop and access back-racked computers.
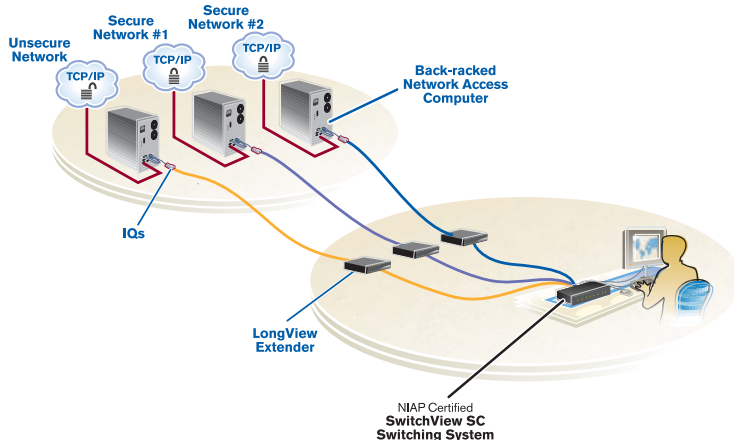
SwitchView SC 1x4 and 1x8 KVM Switches

1 user, 4 or 8-port KVM switch

- Supports PS/2 peripherals
- VGA video
- 2 secure channels
- Part Numbers 10040-SC, 10080SC-AM

SwitchView SC4 DVI and SC8 DVI KVM Switches

1 user, 4 or 8-port KVM switch

- Supports PS/2 peripherals
- SC4 DVI: Single link DVI-I video (DVI or VGA with resolution up to 1920x1200 @ 60Hz)
- SC8 DVI: Dual head, dual link DVI-I video (DVI or VGA with resolution up to 2560x1600 @ 60Hz)
- 4 or 8 secure channels, each isolated to 60 dB separation
- Part Numbers SC4PDV, SC8PDV

SwitchView SC4 UAD KVM Switch

1 user, 4-port KVM switch

- Supports USB peripherals
- DVI-I video (DVI or VGA with resolution up to 1920x1200 @ 60Hz)
- Audio support
- 4 secure channels, each isolated to 60 dB separation
- Part Numbers SC4UAD

SwitchView SC100 and SC200 Series KVM Switches

1 user, 2, 4 or 8-port KVM switch

- Supports USB and/or PS/2 peripherals
- VGA video (resolution up to 2048x1536 @ 85Hz)
- Advanced software and hardware security
- USB Common Access Card (CAC) reader support (SC200 series only)
- 2, 4 or 8 secure channels
- Part Numbers SC120, SC140, SC180

SwitchView SC400 and SC500 Series KVM Switches

1 user, 2 or 4-port KVM switch

- Supports USB peripherals
- SC400 series: Dual link DVI-I video (DVI or VGA with resolution up to 2560x1600 @ 60Hz)
- SC500 series: Dual head, dual link DVI-I video (DVI or VGA with resolution up to 2560x1600 @ 60 Hz)
- Audio support
- Advanced software and hardware security
- USB Common Access Card (CAC) reader support
- 2 or 4 secure channels
- Part Numbers SC420, SC440, SC540

Cables sold separately.

About Avocent

Avocent is a leading global provider of IT infrastructure management solutions for enterprise data centers, small/medium businesses and remote offices. Our unique integration of hardware, software and embedded technologies provides a single interface to quickly and efficiently manage your IT infrastructure. We help you solve system problems anytime, anywhere, no matter the location or health of your servers or network devices.

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