



Paragon® II with integrated CAC reader

Paragon II is a modular, Cat5 matrix KVM switch with integrated CAC card reader features, allowing IT staff to manage thousands of servers.

Comply with HSPD-12 in secure datacenters with Raritan's CAC-enabled KVM solution

Challenge

In August 2004, the Department of Homeland Security issued HSPD-12 (Homeland Security Presidential Directive 12), a strong policy specifying a common identification standard for Federal employees and contractors to gain access to facilities or information systems. By enforcing a stringent standard for “secure and reliable forms of identification,” the directive aims to “enhance security, increase Government efficiency, reduce identity fraud and protect personal privacy.”

Among Federal agencies, the Department of Defense (DoD) played a pioneering role in championing and mandating HSPD-12 compliance. Leading the drive to secure both physical premises and logical infrastructure, the DoD broadly implemented a new Common Access Card (CAC) – a “smart card” for active duty military personnel, reserve personnel, civilian employees, and certain contractors. In addition to being used as a visual identification card, this HSPD-12 compliant CAC contains an embedded chip which provides an additional, unique security token during authentication to DoD computers, networks, and certain DoD facilities. This CAC enables encrypting and cryptographically signing e-mail, facilitates the use of PKI authentication tools and establishes an authoritative process for broadly leveraging identity credentials.

Because the DoD requires users of IT equipment to employ CAC-based authentication for all computing assets as early as 2008, server administrators face a unique challenge because attaching individual Smart Card readers to each and every server in a data center is impractical. And since traditional KVM switches do not support Smart Card authentication, many administrators will be forced to resort to using “crash carts” – a big step backwards in efficiency and productivity in the pursuit of standardized security.

Solution

Raritan teamed up with its many Federal customers around the world – whether military or civilian — and understands the tremendous pressure that HSPD-12 compliance poses to server administrators in the DoD and its affiliates. Responding to this significant customer challenge, Raritan augmented its best-in-class Paragon II family of enterprise-class KVM switches – the most widely deployed KVM solution in federal installations – with CAC capabilities.

The result? A highly secure solution that combines the convenience of KVM with the security of CAC.

Presenting Raritan's Paragon II CAC Reader solution — the most trusted analog KVM switch, combined with the most trusted Common Access Card technology

Raritan's Paragon II Common Access Card (CAC) solution enables government users to enforce HSPD-12 security regulations, while maintaining convenient access to IT equipment. Partnering with SCM Microsystems – an industry leader in smart card technology – we've redesigned our Paragon II Enhanced User Station (EUST), integrating their standards-compliant reader. It now provides operators with a single, universal smart card interface to each connected server.

Together, Raritan and SCM Microsystems offer you:

- **Industry Leadership.** Raritan's Paragon II CAC Reader solution is the industry's first Smart Card-enabled KVM switch.
- **Highest Security.** Paragon II does not store or cache any card data whatsoever; and each server's own authentication requirements are strictly maintained.
- **Proven FIPS 201 Technology.** CAC card readers from SCM Microsystems are already widely deployed in government installations all over the world.
- **Turnkey Solution.** Paragon II EUST's 1U form-factor saves space and reduces complexity.
- **Easy Upgrade.** Our many existing Paragon II users can simply replace user stations and CIMs to upgrade to a CAC-enabled solution.

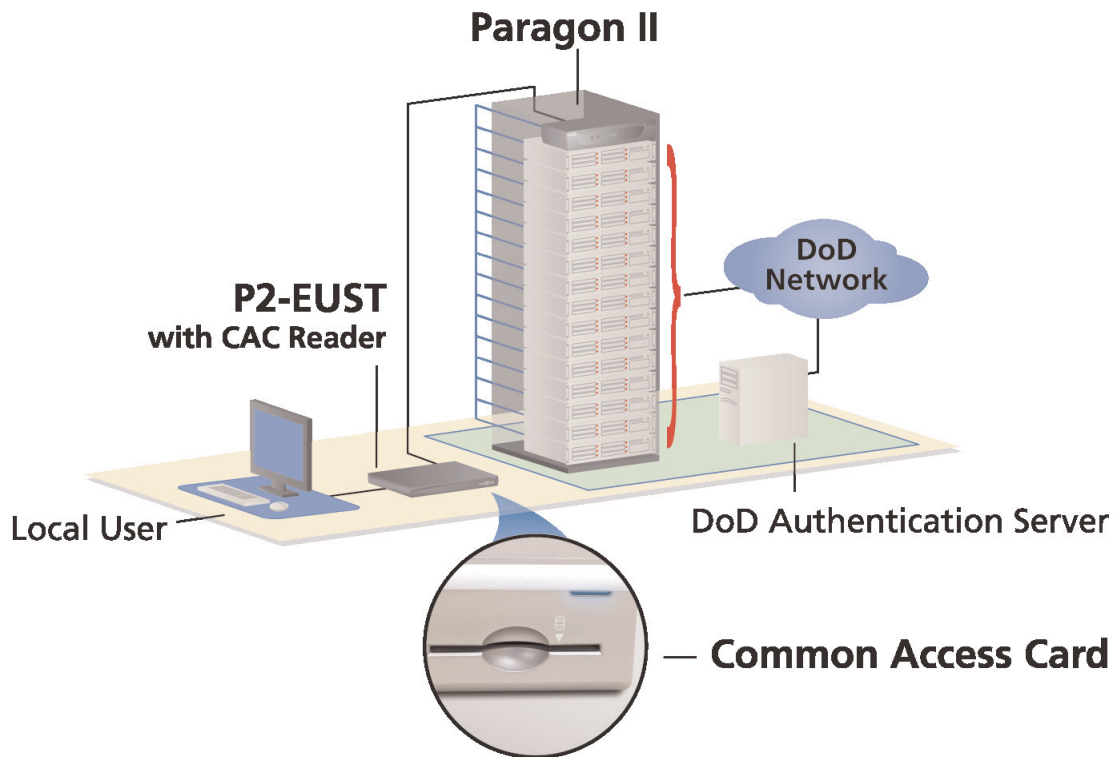
I N P A R T N E R S H I P W I T H



“Safeguarding government data centers is critical to U.S. national security. SCM Microsystems products fill the need for smart card interfaces and have been involved in many government IT security programs over the past several years as smart card-based systems have evolved and strengthened. Together, Raritan's Paragon II system and SCM's readers provide a secure and cost efficient solution to help U.S. federal agencies implement HSPD-12.”

— Louis Modell; General Manager, Americas
SCM Microsystems





How It Works

Once deployed, the Paragon II Common Access Card solution provides users with flexibility and convenience, while maintaining strict security. Here's how it works:

1. Paragon II User Stations provide up to 64 operators with access to the KVM matrix, only after first authenticating with Paragon II itself.
2. Each administrator selects from a convenient list of servers displayed by Paragon II, enumerating only the equipment to whose KVM consoles he or she has authorization to operate. After a server is selected, Paragon II becomes fully transparent.
3. Selected servers will themselves require an additional layer of authentication. Users simply insert their CAC Smart Cards directly into the Paragon II user station, and servers behave exactly as if a USB Smart Card reader were directly attached.
4. Regardless of what servers are selected, Paragon II does not store or cache any credential data in its system components – ensuring strict security in the entire infrastructure.

Learn how to become HSPD-12 compliant at Raritan.com/CAC-Reader

Raritan is a leading supplier of solutions for managing IT infrastructure equipment and the mission-critical applications and services that run on it. Raritan was founded in 1985, and since then has been making products that are used to manage IT infrastructures at more than 50,000 network data centers, computer test labs and multi workstation environments around the world. From the small business to the enterprise, Raritan's complete line of compatible and scalable IT management solutions offers IT professionals the most reliable, flexible and secure in-band and out-of-band solutions to simplify the management of data center equipment, applications and services, while improving operational productivity. More information on the company is available at Raritan.com.

Raritan's Paragon II is a proven leader in secure government computing environments

Paragon II is Raritan's battle-tested, enterprise-class, Cat5 analog KVM solution that gives government IT professionals the power to securely access and control servers and other network devices anytime, anywhere. Paragon II offers the broadest line of analog KVM switches, with models that provide non-blocked access for up to 64 simultaneous users controlling more than 10,000 servers. In addition to the latest CAC features, Paragon II also provides the industry's best video quality, manageability, response, and security. A rich suite of management features includes logging and audit trails, system-wide reset from a user station and a single, consolidated view of all Paragon-connected devices.

Raritan's solutions are already installed in a wide range of government agencies that span the federal, state and local levels. Among our long list of government customers, we count the Air Force, Army, CIA, NASA, Navy, NSA, Pentagon, State Department and many others.

Raritan supports the following government-wide acquisition contracts:

- Department of State BPA
- GSA Schedule
- ITES2H
- NASA SEWP IV
- NETCENTS
- NIH EDS III
- US Communities

Paragon II CAC Reader Solution Components



Enhanced User Station with Integrated Smart Card Reader

P2-EUST-P2

Provides front-end interface for operators to access the integrated KVM environment



Matrix KVM Switches

P2-UMT242 / P2-UMT442
P2-UMT832 / P2-UMT1664

Family of switching units, available in a variety of port densities, which seamlessly interoperate to provide a single logical KVM matrix.



Computer Interface Module (CIM) with Smart Card Reader Emulation

P2CIM-AUSB-C

Small form factor "dongles" attach to each server's KVM console and USB ports, integrating them into the matrix via standard Cat5 cabling.

When you're ready to get serious about security, do it with Raritan's Paragon II CAC solution.

Call 1.800.724.8090 or visit Raritan.com/CAC-Reader