



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.



Raritan is a member of the Smart Card Alliance, a multi-industry association working to stimulate the understanding, adoption, use and application of Smart Card technology.

Comply with HSPD-12 in secure data centers with Raritan's CAC-enabled, FIPS 201 approved 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 is implementing a mandatory Common Access Card (CAC) and Personal Identity Verification Card (PIV) program. These "Smart Cards" are required for active duty military personnel, reserve personnel, civilian employees and certain contractors. In addition to being used as a visual identification card, these HSPD-12 compliant identity cards contain an embedded chip that 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 FIPS 201 approved 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 (P2-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.
- ▶ **Confidence.** Card readers from SCM Microsystems are GSA-approved and are 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.

IN PARTNERSHIP WITH



"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

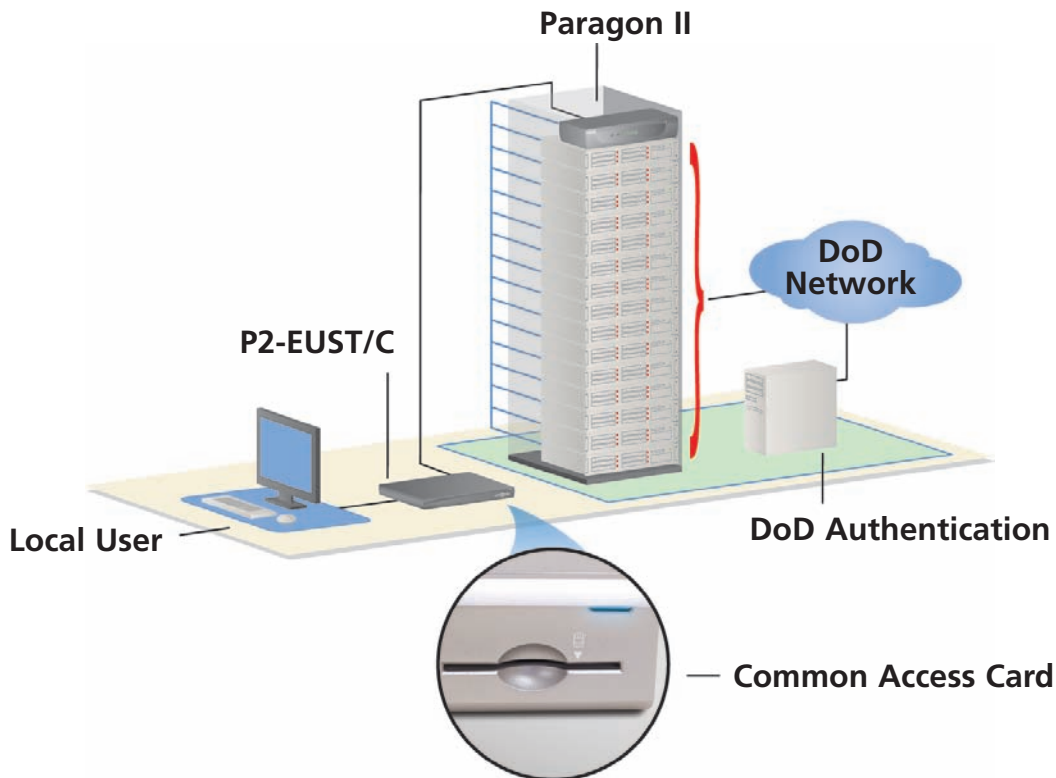
Learn how to support HSPD-12 compliance at Raritan.com/CAC-Reader

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. The CAC-enabled Paragon II User Station (P2-EUST/C) provides users with access to the KVM matrix, only after first authenticating with Paragon II itself.
2. Users select from a convenient list of servers displayed by Paragon II. After a server is selected, Paragon II becomes fully transparent.
3. When selecting servers that required CAC authentication, users simply insert their card directly into the Paragon II user station, and servers behave exactly as if a USB Smart Card reader were directly attached.

4. Paragon II does not store or cache any data in its system components or at any point in the KVM pathway – ensuring strict security in the entire infrastructure. Because of this, users are automatically required to re-authenticate when switching between servers. Conveniently, the card can remain in the reader during the user's session. The PKI middleware will "ask" for the card information again. Also, if the CAC is removed, access to the server is terminated.
5. When the special CAC-enabled CIM (P2CIM-AUSB-C) is connected to any server in the matrix, the Paragon II switch automatically enters private mode, allowing only one user at a time to access a given server.



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/C

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

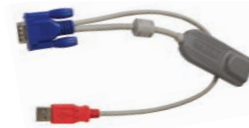


Matrix KVM Switches

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

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Raritan provides secure IT infrastructure management solutions that increase data center efficiency and productivity by delivering integrated in-band and out-of-band server access, control and power management. Raritan's KVM, serial console and intelligent PDU products are in use at over 50,000 locations worldwide. Raritan's OEM division provides embedded hardware and firmware for server and client management, including KVM over IP, IPMI, intelligent power management and other industry standards-based management applications.

Based in Somerset, N.J., Raritan has 38 offices worldwide, serving 76 countries. For more information, please visit Raritan.com