



# The PIVMAN™ System

Secure ID and privilege checking  
for site control in emergencies



The PIVMAN™ System is designed for secure ID checking without network connectivity, making it ideally suited for difficult and unpredictable environments.

In emergencies, those on the frontlines use PIVMAN Handhelds to check the IDs of arriving responders in order to know whether the individuals are who they say they are, have valid cards, and have the specific training, authority, or other privileges required.

All activity is logged, which gives managers and administrators unparalleled insight for after-incident reporting and planning.

And because the PIVMAN System performs even when all networks are down, it provides the reliability critical for emergencies of all sizes.

## **Responding to a crisis**

The chaos and confusion that follow emergencies and natural disasters have made it clear that communication and site management must be improved, and that the systems used today may not be reliable in an emergency.

Initiatives are underway to address this problem.

In response to Homeland Security Presidential Directive 12 (HSPD 12), the US Federal government is issuing a single, trusted government-wide credential to all Federal employees and contractors. These IDs are designed to meet a common standard specified in the Federal Information Processing Standard 201 (FIPS 201). Each card has information about the individual's privileges and identity stored on it in a way that is secure and tamper-proof. (For access to the complete texts, see the back page.)

In the event of an emergency, those individuals classified as "first responders," including doctors, police officers, and firefighters could use their cards to gain access to the emergency site.

However, no solution has existed for quickly checking that the credentials and privileges stored on the cards are valid, especially in scenarios without reliable network connectivity.

## **Meeting a critical need**

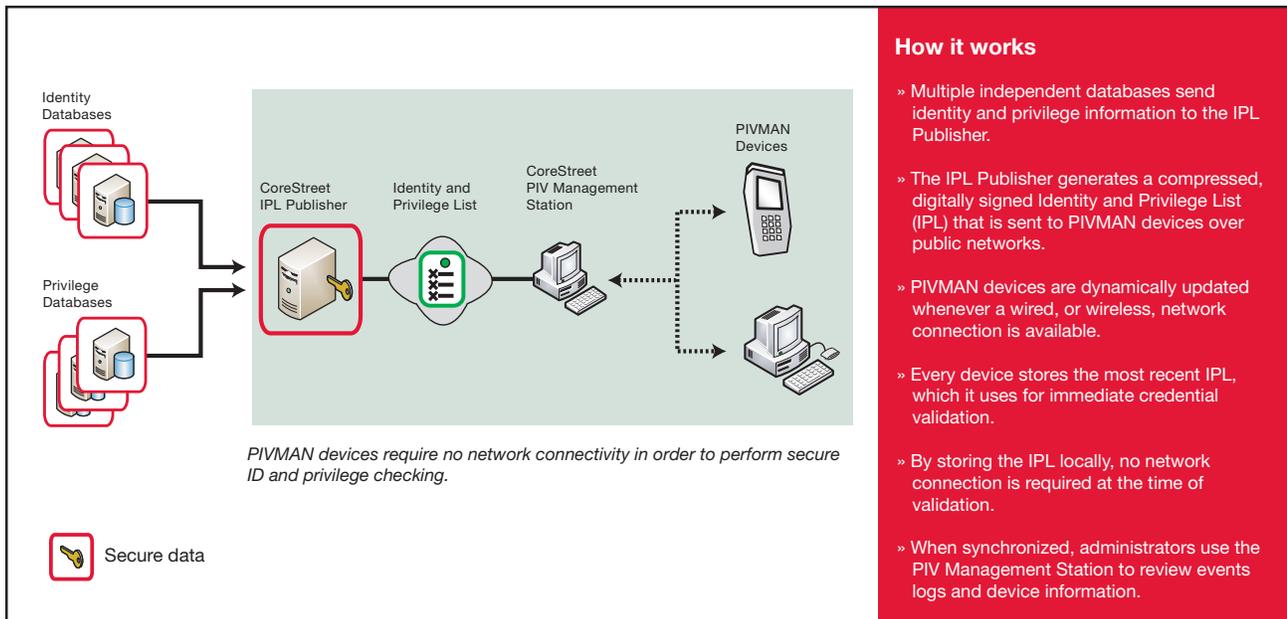
To meet the needs of Federal agencies, such as the US Department of Homeland Security, CoreStreet developed the PIVMAN System. Building on the company's core technologies in the areas of credential validation, this system provides a highly portable, "always-on" solution for handling privileges, identities and attributes from the many Federal, state and local agencies that use FIPS 201-compliant credentials, Common Access Cards (CACs), smart cards, and cards with 2D barcodes.

## **Managing privileges, maintaining independence**

The PIVMAN System gathers the privilege and identity information it requires from independently controlled databases, thereby maintaining organizational control over privilege management.

Once received, this data is compiled into an Identity and Privilege List (IPL) that may contain privilege and identity status about all individuals with compliant credentials, including those that may be called upon to respond in the event of an emergency.

The compressed list is then secured with a digital signature and transmitted to PIVMAN Handhelds over public channels such as the internet or cellular networks. By digitally signing the IPL, all information is secure both during transmission and while on devices. In addition, high compression allows the privilege information to be quickly transmitted and immediately accessed.



## Use case: Emergency site control

- An area is cordoned off, and specific entry points established. Each entry point is assigned an officer equipped with a PIVMAN Handheld.
- Over the next several hours hundreds, even thousands, of individuals arrive seeking immediate access to the area. They represent Federal, state, and local government agencies, as well as private sector firms.
- Individuals approach the entry officer and present their smart cards.
- The officer inserts the card into the PIVMAN Handheld. The device immediately validates the status of the credential and displays the result —valid or invalid— along with the individual’s role —e.g., firefighter. If stored on the card, a photo of the individual will appear on-screen.
- Depending on the situation, a second authentication factor may be required, such as a PIN or biometric.
- Every PIVMAN transaction is logged. These logs can be viewed and exported by an administrator using the PIV Management Station.

## In use every day

The PIVMAN System is designed to check many types of IDs and provide comprehensive logging of all transactions. As a result, the system can be used in numerous non-emergency applications such as, facilities access, border control, mustering, and other scenarios that require immediate ID verification without persistent network connectivity. Additionally, the logging capabilities allow for detailed auditing and after action reporting.

## Rugged and reliable

The PIVMAN Handheld, made by DAP Technologies, is rugged and reliable.

- Meets military specification: MIL-STD-810F
- Smart card reader: Contact/contactless
- Barcode scanner: 2D imager
- Connectivity: Ethernet, GPRS, Wi-Fi
- Biometric: Fingerprint sensor

## For more information

To discuss this or other applications of the PIVMAN System, please contact CoreStreet or a CoreStreet partner.

Contact information and detailed technical information are available at [www.corestreet.com](http://www.corestreet.com).



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**For more information:**

Homeland Security Presidential Directive 12 (HSPD 12), Policy for a Common Identification Standard for Federal Employees and Contractors (issued August 27, 2004) is comprehensive in its scope:

*[T]he heads of executive departments and agencies shall, to the maximum extent practicable, require the use of identification by Federal employees and contractors that meets the Standard in gaining physical access to Federally-controlled facilities and logical access to Federally-controlled information systems . . .*

The complete text can be found at: <http://www.whitehouse.gov/news/releases/2004/08/20040827-8.html>

The Federal Information Systems Processing Standard (FIPS 201), Personal Identity Verification for Federal Employees and Contractors (released in February 2005), describes the architecture and other technical requirements mandated in HSPD 12.

Information on the FIPS 201 standard is available at: <http://csrc.nist.gov/publications/fips/fips201/FIPS-201-022505.pdf>

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## About CoreStreet

**CoreStreet's track record of designing innovative solutions for large-scale, high availability identity systems has put it at the forefront of the development of Identity Services Infrastructure. Today, the company's products and technologies, provided directly and licensed to others, are designed into advanced physical and logical security systems built on the principles of ISI.**

**For more information, including detailed product and solution information and technical briefs, see [www.corestreet.com](http://www.corestreet.com)**