

## High Assurance Security Solution



### Features That Make a Difference:

- Strong identity authentication using smart card, PIN and biometrics
- Cost-effective, powerful PIV/PIV-I/CAC/CIV/TWIC credential validation, enrollment and authentication solution reduces total installation costs with pre-installed appliance
- Immediate verification of biometric data for secure authentication
- Authentication services embedded in iSTAR Ultra eliminates the need for third party add-on boards
- Efficient design reduces IT management costs with less time required for updating software
- Intuitive C•CURE 9000 PIV/CAC card enrollment client software
- Compatible with a wide range of FICAM-approved readers that use security industry standards for OSDP-secure communications
- Flexible reader communication support for OSDP via RS-485 Serial or TCP/IP protocol
- Supports PIV credential data management via multiple authoritative data bases for federal agencies and Department of Defense (DoD) customers

Powered by Innometriks High Assurance Security Solution technology, C•CURE 9000 security and event management system PIV/CAC credential validation, registration and authentication suite elevates traditional physical access control systems to meet or exceed the credential authentication requirements set forth by the U.S. Government identity programs.

### High Assurance

Innometriks hardware (Cheetah and Rhino High Assurance Smart Card Readers) and software products provide high assurance for mission critical environments. Strong authentication verifies an individual's identity using technologies including biometrics, smartcards, Public Key Infrastructure (PKI) and digital signatures to provide a level of assurance above and beyond that available through non-smart card ID card mechanisms.

### Strong Identity Authentication

Innometriks FICAM enrollment client provides enrollment functions for strong identity authentication that verifies and allows for the capture of the credential and verifies an individual using technologies including biometrics, smart cards, Public Key Infrastructure (PKI) and digital signatures. Strong identity authentication provides greater protection of critical assets and sensitive information.

### Real-Time Continuous Credential Vetting

Innometriks FICAM enrollment software consists of the Enrollment Server software, the Panel Server software and the Panel

Log Viewer software, located within the C•CURE 9000 system and the Enrollment Client, located on any workstation. These components bring you high assurance smart card-based biometric and PIN authentication. With the Innometriks ID Server, all components work together to bring you full FICAM-compliance from a C•CURE 9000 system. See the Innometriks ID Server data sheet for more information.

### C•CURE 9000 with embedded iSTAR Ultra PIV Authentication

C•CURE 9000 security solution integrated with the Innometriks High Assurance Solution provides a powerful open architecture that features an end-to-end FICAM-compliant PACS system for PIV/CAC credential validation, PACS enrollment and fast processing speeds for certificate validation at the reader in under two seconds. With the authentication module built into the iSTAR Ultra the Solution supports ongoing, periodic certificate status updates. All data is stored in the iSTAR Ultra for PKI authentication and continuous PACS access processing, even if the network is down and the controller is offline.

### Customizable PIV Card Validation Solution

The Innometriks High Assurance Solution with C•CURE 9000 offers pre-configured layouts or an empty palette for each administrator to customize for ease of use. Using the Innometriks ID Server, with appropriate permissions, you can configure data fields, navigate and perform quick searches and queries—all in real time, all from one interface.

## PIV/CAC/TWIC Validation and Registration

With the Innometriks High Assurance Solution you can perform automated imports of PIV credential data from multiple authoritative databases, such as Card Management or Identity Management systems. You can also perform local PIV validation and enrollment via PIV enrollment workstations or PIV enrollment kiosk. An alternate fingerprint feature overcomes poor template issues. This solution meets FIPS-201 processing functionality and TWIC requirements.

## Extended Card Format Support

The Innometriks High Assurance Solution within C•CURE 9000 and iSTAR Ultra supports extended card formats of up to 256 bits, providing the utmost in flexibility when configuring custom card formats. iSTAR Ultra supports the full 200-bit FASC-N format for compliance with the U.S. Government's FIPS 201 initiative, as well as the 128-bit GUID format for PIV-I credentials. These extended cardholder formats are stored locally in iSTAR Ultra allowing the controller to make the access decision even when it is offline from C•CURE 9000. Each format supports multiple data fields such as card number, site code, issue code, parity, agency code, system code, plus up to four custom card integer fields. Longer card numbers and formats offer greater protection against card duplication, and are especially valuable to customers who require card numbers that exceed 10 digits.

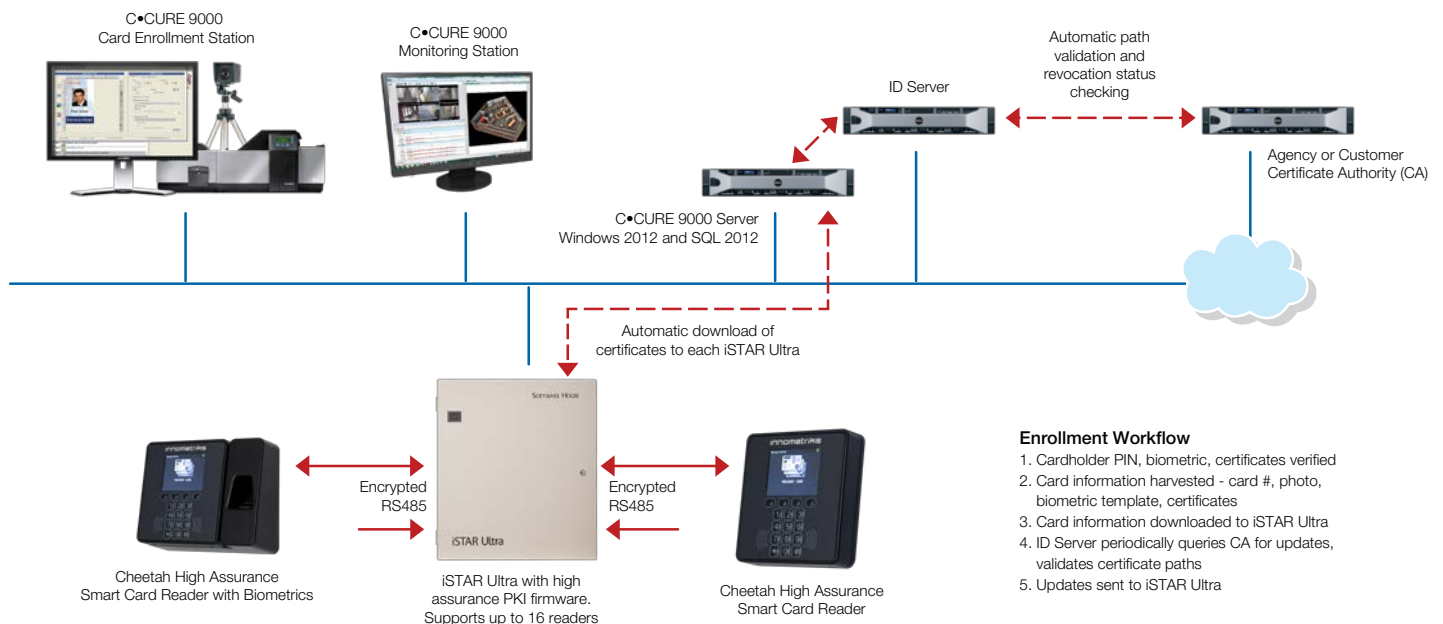
## Supports Software House RM Reader Functionality

Innometriks High Assurance Solution, via the Innometriks Cheetah Smart Card Reader, supports Software House RM Reader functionality for new and existing installations. When using RM Readers, grouping inputs and doors into intrusion zones allows you to easily arm and disarm alarm monitoring points in a defined area which may include an entire facility or a portion of the facility. You can lock and unlock groups of doors while displaying their current mode and status. With simple RM Reader keypad commands, you can remotely activate cameras, doors, and other events as well as trigger a duress call right from a reader keypad connected to an iSTAR Ultra door controller. Keypad commands can be configured to require card presentation and/or a PIN to validate the command.

## Exceptionally Reliable Security

C•CURE 9000 provides FIPS 197-approved encrypted communication between both C•CURE 9000, appliance devices, clients, Innometriks PIV readers and between iSTAR Ultra controllers, while Microsoft® Windows Single Sign-On (SSO), field-level audit, and authentication of historical log content feature a digital signature on each event. This allows administrators to detect additions, modifications, or deletions of data which is critical in order to maintain compliance with regulations, such as U.S. Government FIPS-201 processing standards, Sarbanes-Oxley, HIPAA, and 21-CFR Part 11.

## System Architecture



### Enrollment Workflow

1. Cardholder PIN, biometric, certificates verified
2. Card information harvested - card #, photo, biometric template, certificates
3. Card information downloaded to iSTAR Ultra
4. ID Server periodically queries CA for updates, validates certificate paths
5. Updates sent to iSTAR Ultra

## Ordering Information

Model Numbers	Description
INN-INFIN-ID-SRVR-APPL	ID Server for validation
INN-ENROLL-SQL	C•CURE 9000 enrollment client software
SECG-EA4-0089A	Fingerprint enrollment scanner
IDTV-SPR331	USB smart card reader
INN-RDR485-8	OSDP RS-485 board
INN-CHTA-RF	Cheetah High Assurance Smart Card Reader, core module, contactless
INN-CHTA-CT	Cheetah High Assurance Smart Card Reader, core with contact module
INN-CHTA-BIO	Cheetah High Assurance Smart Card Reader, core with biometric module
INN-CHTA-BIO-CT	Cheetah High Assurance Smart Card Reader, core with contact and biometric module (full modal)
INN-RHNO	Rhino High Assurance Smart Card Reader, with keypad and LCD, no read head, indoor, with Lumidigm sensor
INN-RHNO-OD	Rhino High Assurance Smart Card Reader, with keypad and LCD, no read head, outdoor, with Lumidigm sensor
INN-RHNO-XT	Rhino High Assurance Smart Card Reader, with keypad and LCD, no read head, outdoor, with Lumidigm sensor and outdoor heater kit
INN-RHNO-XS	Rhino High Assurance Smart Card Reader, contactless, indoor, with Lumidigm sensor
INN-RHNO-XS-OD	Rhino High Assurance Smart Card Reader, contactless, outdoor, with Lumidigm sensor
INN-RHNO-XSODW	Rhino High Assurance Smart Card Reader, contactless, indoor, with Lumidigm sensor, white
INN-RHNO-XS-XT	Rhino High Assurance Smart Card Reader, contactless, indoor, with Lumidigm sensor and outdoor heater kit

## Related Products



C•CURE 9000



iSTAR Ultra



Cheetah Smart Card Reader



Rhino Smart Card Reader



ID Server

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