

pivCLASS® Registration Engine & pivCLASS® Certificate Manager

**CARDHOLDER VALIDATION SOLUTION FOR HSPD-12 COMPLIANCE WITH AUTOMATED PACS REGISTRATION AND CERTIFICATE MANAGEMENT**

- **Enables FIPS 201 compliance** - For validation of and registration with physical access control systems (PACS). Can update an existing cardholder record, or insert one if one does not already exist
- **Active or passive badge suspension** - Checks card certificate serial number is on Certificate Revocation List (CRL) or FASC-N is on TWIC CCL
- **Modular Solution** - Provides maximum deployment flexibility
- **Operates with compliant fingerprint capture devices** - COTS FIPS 201 PIV-II and ANSI INCITS 378
- **Supports multiple credentials** - PIV, PIV-I, TWIC, CAC, CIV, and FRAC
- **Integrated with several fixed biometric readers** - Sends certificate revocation status, TWIC Privacy Key (TPK), etc. to the fixed reader upon request

**pivCLASS® Registration Engine**

A PC-based solution that provides three-factor authentication, extracting and verifying cardholder data on a FIPS 201 smart card and performing a biometric match against the templates stored on the card. Digital certificates are verified against the issuer's validation authority, SCVP or OCSP responder. All cards are validated using FIPS 201 challenge-response (CAK or PAK) in order to identify forged or cloned cards. Works with all PIV, PIV-I, TWIC, CAC, and FRAC cards.

After validation, pivCLASS Registration Engine performs automated registration of FASC-N, photo and printed information into compatible PACS.

Updates a cardholder record if it already exists in the PACS, or inserts a new record if one does not exist.

**pivCLASS® Certificate Manager**

Certificate Manager is a server-based application that re-validates imported cardholder certificates on a user-defined periodic basis. Certificate Manager can be configured to suspend a PACS badge associated with an invalid or revoked certificate, to generate alarms in the PACS and can send an e-mail to a distribution list for notification when it discovers an invalid certificate.

### 3-FACTOR VALIDATION PROCESS

#### SOMETHING YOU HAVE

FIPS 201-compliant credential is inserted in reader. Information is retrieved from the card for CAK validation.

#### SOMETHING YOU KNOW

Stored PIN is compared to user entry for validation. PIN is entered via keypad.

#### SOMETHING YOU ARE

Stored biometric is compared to user entry for validation using NIST- and MINIX-certified template generator and matching algorithm.

#### NOT AUTHENTICATED

This is the result of one of the following conditions:

- Card read error
- Expired smart card
- Invalid (possible forged or cloned) card
- Invalid PIN
- Biometric mismatch
- One or more certificates are revoked
- FASC-N is on the TWIC CCL
- Operator cancels the verification

#### AUTHENTICATED

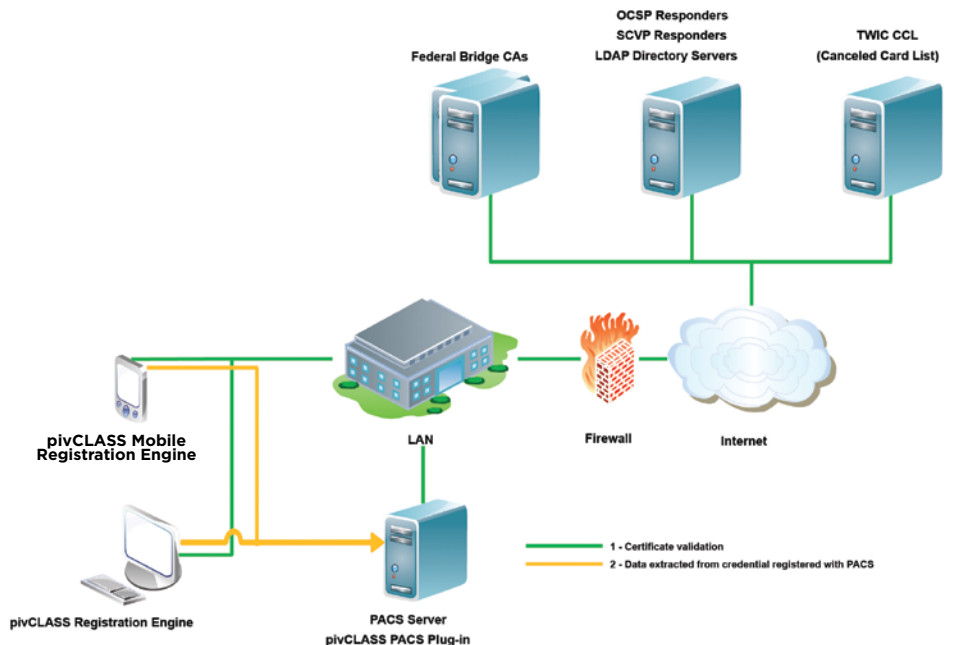
The card was determined to be valid using the methods supported for the given smart card.

The following is known:

- PIN Verification (Only for cards which are PIN protected, and the card is inserted in the contact interface)
- Smart card is not expired
- Smart card is not forged or cloned
- Cardholder is linked to the smart card
- Smart card has not been revoked
- Certificates are not revoked

## SPECIFICATIONS

<b>Models</b>	pivCLASS® Registration Engine pivCLASS Certificate Manager
<b>CPU</b>	Minimum of 1.8 GHz or greater.
<b>Random Access Memory</b>	Minimum of 1 Gb RAM or greater.
<b>Hard Disk Space</b>	Minimum of 1 Gb RAM or greater.
<b>Support OS</b>	Microsoft Windows 10, 8.1, 7 Microsoft Windows Server 2016, 2012, 2008



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