

USDA “PIV-D” Pilot

Update for FIPS 201-2 Special
Publications Workshop



Adam Zeimet
Program Manager,
USDA ICAM Program



March 4th, 2015

USDA “PIV-D” Pilot Overview

- What Is Our Objective?
- What Have We Done?
- Our Next Steps
- Lessons Learned

What is Our Objective?



The Problem:

- Rapid mobile device growth at USDA
 - 15,000+ smart devices
 - “Hurdle” to PIV adoption at the workstation

The Goal of PIV-D:

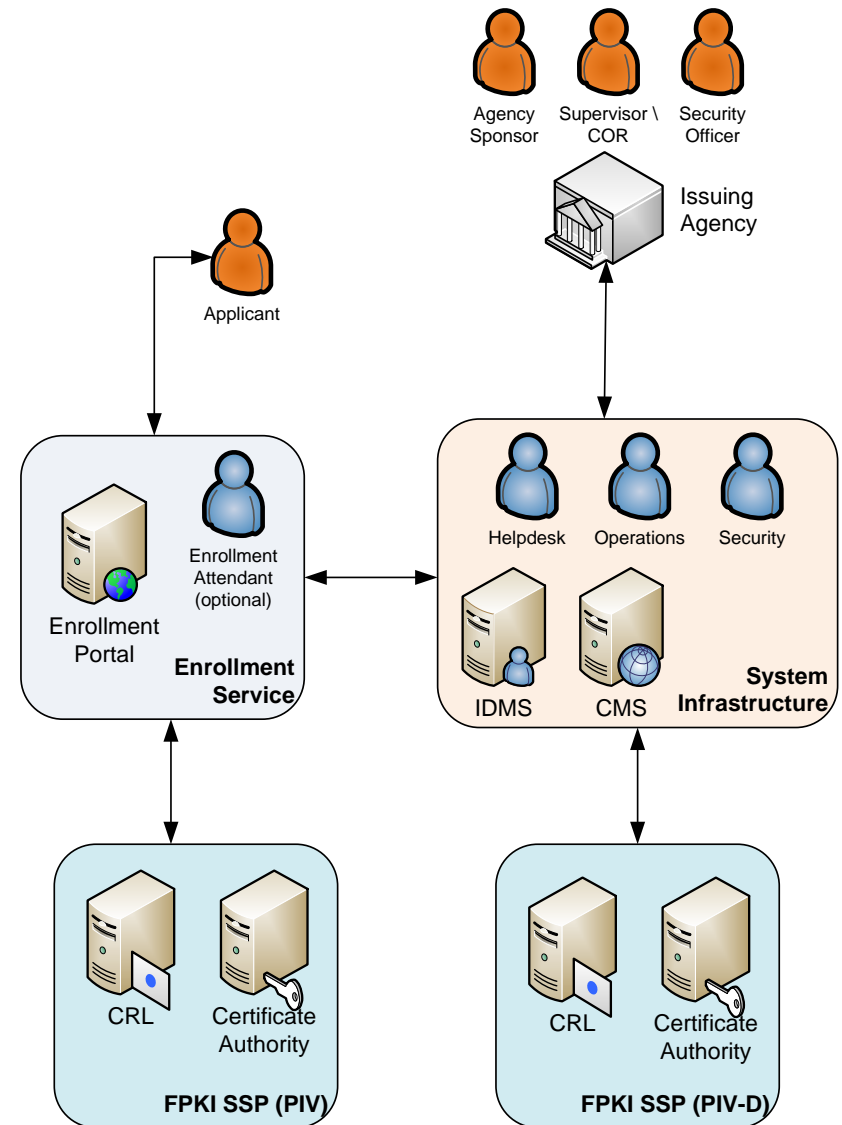
- Enable Secure Mobile Authentication
- Eliminate Hurdles to Full PIV Adoption
 - Assess viability of potential solutions
 - Can it “fit” with our technology?
 - Will it support our business needs?

What Have We Done?

- ✓ Define critical use cases
 - *Usage* is the #1 priority

- ✓ Build pilot infrastructure using leveraging a COTS solution

- ✓ Use case validation



1) Credential Lifecycle Management

- a) Enrollment \ Activation
- b) Issuance \ Revocation

2) Mobile Authentication

- a) **Email Client \ Exchange**
- b) Mobile Web Browser – Web SSO
- c) Native Mobile Applications

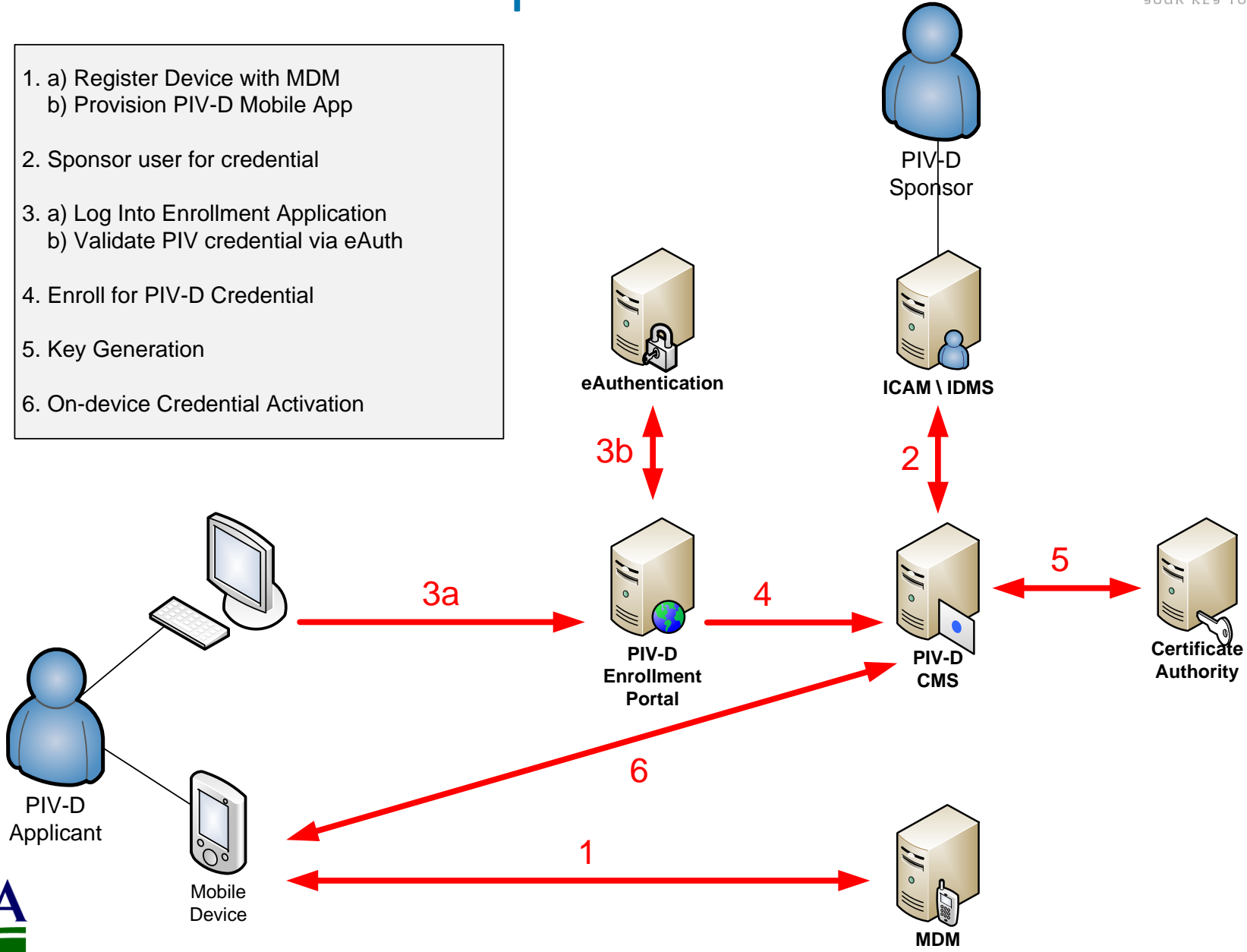
3) PIV “Backup”

- a) Domain workstation logon
- b) Web SSO (eAuthentication)
- Remote network access



PIV-D Issuance Concept

1. a) Register Device with MDM
b) Provision PIV-D Mobile App
2. Sponsor user for credential
3. a) Log Into Enrollment Application
b) Validate PIV credential via eAuth
4. Enroll for PIV-D Credential
5. Key Generation
6. On-device Credential Activation



➤ **Phase 1: Proof of Concept**

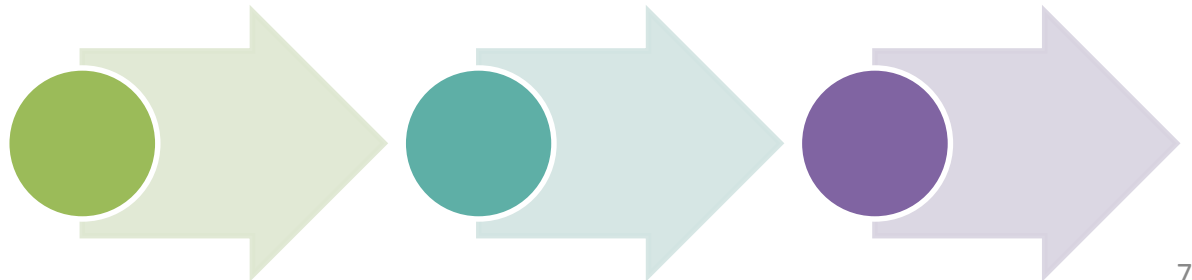
- ✓ Validate use cases and assess viability of available solutions

➤ **Phase 2: Agency Pilots**

- Expand to end-user testing of real-world scenarios and business validation

➤ **Phase 3: Enterprise Service**

- Implement enterprise-wide service for USDA



Challenges/Issues To Date

- INTEGRATION! Mobile Apps, not PKI or PIV ready
- SDK's, custom development, and tight app eco-systems

Success/Progress To Date

- COTS Solution mostly turn key
- Mobile authentication within app eco-systems
- Backup to PIV for workstation authentication promising

Questions?

