

*Representation of PIV Chain-of-Trust for  
Import and Export (NIST SP 800-156 Draft) –  
Status Update*

**Ramaswamy Chandramouli (Mouli)**

**Information Technology Lab (ITL), NIST**

March 4, 2015

FIPS 201-2 Associated Special Publication's Workshop

# *Representation of PIV Chain-of-Trust for Import and Export – Status Update*

- **Chain-of-Trust Data – Objectives**
- **Scope of the SP 800-156 Document**
- **Overview of Contents**
- **Publication Process Timeline**

# *PIV Chain of Trust Data - Objectives*

- To record data pertaining to the following PIV Lifecycle processes
  - (a) Sponsorship
  - (b) Identity Proofing
  - (c) Enrollment or Registration
- To facilitate renewal and reissuance of PIV card without repeating the Sponsorship, Identity Proofing and Enrollment processes
- To speed up the issuance of a PIV Card to an employee / Contractor who has moved from one Federal Agency to another by leveraging data used for enrollment previously.

# *Scope of SP 800-156 Document*

- Data pertaining to the lifecycle processes – Sponsorship, Identity Proofing & Enrollment will *include*:
  - (a) **(CR)** PIV Card holder Credential data (e.g., Name, DOB etc) & Enrollment Package Information
  - (b) **(LOG)** Data about the process event (e.g., Date of Sponsorship, Organization ID of the Sponsoring Official etc)
  - (c) **(PO)** Process Outcome (e.g., Adjudication Status)
- Brief Description of the fields (data items) used in the chain-of-trust data and actual encoding of data in XML syntax.
- It will *not include* the Messaging protocol for requesting and transporting the data

# *SP 800-156 – Overview of Contents*

- Chain of Trust Header Information – Creating Organization ID, Data Subject ID (FASC-N Identifier)
- (CR) Personal Information (O – Value is Optional)
  - Name, Alias (O), DOB, SSN, US Citizenship (Y/N), Address (O), Phone (O), Email (O)
- (LOG) Sponsorship Information (All fields are optional)
  - Sponsor ID/Phone/Email, Sponsor Date, Card Holder's Org Affiliation (Employee, Contractor etc), PIV Card Type
- (PO) Adjudication Information
  - NAC/NACI Adjudication Value (Pending, Approved etc)

# *SP 800-156 – Overview of Contents.. Contd (CR) – Enrollment Package Information*

- Enrollment Package (Sub) Header Information
  - Registrar ID/Phone/Email, Enrol Date
- Card Holder Biographic Information
  - Hair/Eye Color, Height/Weight, Gender, Ethnicity
- Card Holder Biometric
  - Facial Image, Fingerprint Image and Template Details,  
Iris Image Details
- Source Documents
  - Document Type Code, Document Image, Create Date

# *SP 800-156 – Overview of Contents.. Contd*

## *Open Issues*

- Historical Enrollment Data (Other than Current Enrollment data in Enrollment Package Information)
  - **FORMAT & GRANULARITY - TBD**
- What PIV Card Holder Identifier can the Importing Agency use to link an imported chain-of-trust record to its Internal Personnel Records ?

# *SP 800-156 – Publication Timeline*

<b>Milestone</b>	<b>Planned Date</b>
First Public Comment Draft	6/10/2015
Public Comment Period - Closing Date	7/8/2015
Publication of Final Document	11/10/2015

# Thank you

## Questions?

**Ramaswamy Chandramouli (Mouli)**  
**NIST ITL Computer Security Division**  
**[mouli@nist.gov](mailto:mouli@nist.gov)**