# ASTM Standard Healthcare Certificate Policy

Ann Geyer, Tunitas Group
Chair, ASTM E31.20 PKI Task Group
209.754.9130
ageyer@tunitas.com
www.tunitas.com

# **ASTM PKI Policy Objectives**

- Establish healthcare baseline requirements
- Remove policy barriers to interoperability
- Permit/encourage certificate usage across multiple organizations, especially for independent practitioners
- Assist healthcare organizations evaluate commercial certificate offerings
- Educate technology providers, CA service providers and healthcare organizations

#### **ASTM Healthcare CP**

- Distinguishing factors of Healthcare PKI
  - Purpose to facilitate administrative control over the access and disclosure of patient information
  - Scope extends to external business partners and in particular physicians and independent practitioners
  - Content builds on the legal and regulatory structure under which healthcare must operate

#### **ASTM Healthcare CP**

- Healthcare Certificate Classes
  - Entity
  - Basic
  - Clinical Use
- Healthcare Certificate Profile
  - Implements subjectDirectoryAttributes fields
    - defines a syntax to represent healthcare license info and organizational healthcare role
    - syntax may also be use in attribute certificate or in trusted directory
  - SubjectAltName
    - for patient or member identifiers

#### **ASTM--More Restrictive I&A**

- Personal appearance before trusted agent of CA
  - Personal appearance need not be coincident with registration
  - Broad view of who may be a trusted agent of CA
    - Note CP precludes unconditional reliance on notary
- Trusted Agent must independently confirm membership in subscriber category, e.g.
  - Independent practitioner qualified by license or certification
  - Workforce member of healthcare organization
- CP set rules for
  - Qualifications and oversight of trusted agent
  - Communications between CA, agents and applicant

## **FedPKI--More Restrictive Ops Control**

- ASTM CP allows for suspension
  - Permitted under temporary suspension of physician license
  - Required under CA investigation of Subscriber private key compromise
- ASTM allows longer CRL Refresh period to support offline CA
  - Within 1 working day
- ASTM has more relaxed specification of CA system development controls & software acquisition process
  - Fed Requirement is not feasible for most healthcare entities
  - Seeking support for more of a middle ground approach

## **PKI Interoperability**

- The ASTM policy intends to set certificate specifications
   Basic & Clinical -- that satisfy medium assurance under FedPKI policy
- However, the federal certificates do not meet the ASTM class requirements as ASTM CP defines subscriber categories in terms of subscriber's healthcare role
- Concern that federal agencies are adopting PKI practices without regard for costs placed upon private sector
- Raises number of challenges for interoperability

## **DEA Example**

- DEA proposed creation of a root for the PKI used to support digital signature on electronic prescription of scheduled drugs
  - Therefore CA must subordinate to DEA root
    - Requires healthcare CA to give over control of its hierarchy to DEA, or
    - Absorb the cost of a separate, parallel CA position suggested by DEA
  - Prescribing physicians must obtain a certificate issued under DEA hierarchy
    - Builds resistance between enterprises and physicians for other types of certificates
- New cost, liability & business impedance for healthcare CA
- Resolution lies in common framework for healthcare PKI requirements

# **Concept of Operations**

- Proposal to jointly develop a Concept of Operations document guiding interoperability between federal and private sector Healthcare PKI
  - Address private sector concern that each federal agency will establish conflicting implementation requirements
  - Address concerns that federal interoperability leads to a loss of control over enterprise PKI hierarchy
  - Ensure both private and federal cost parameters are recognized
  - Rally efforts to implement common approach to PKI based electronic signature

## **ConOps Document Creation**

#### Suggested Participation

- Federal healthcare agencies
- Healthcare SDO & ANSI HISB
- Healthcare enterprise CA (eg Kaiser, HealthLogic)
- Healthcare PKI providers (eg MEDePass, lomedix)

#### Specifically address Interoperability Goals

- Facilitate appropriate reliance
- Minimize costs to all participants
- Recognize enterprise liability concerns and need to control the scope of reliance
- Respect commercial CA's intellectual property rights and provide work product protection