

Topics

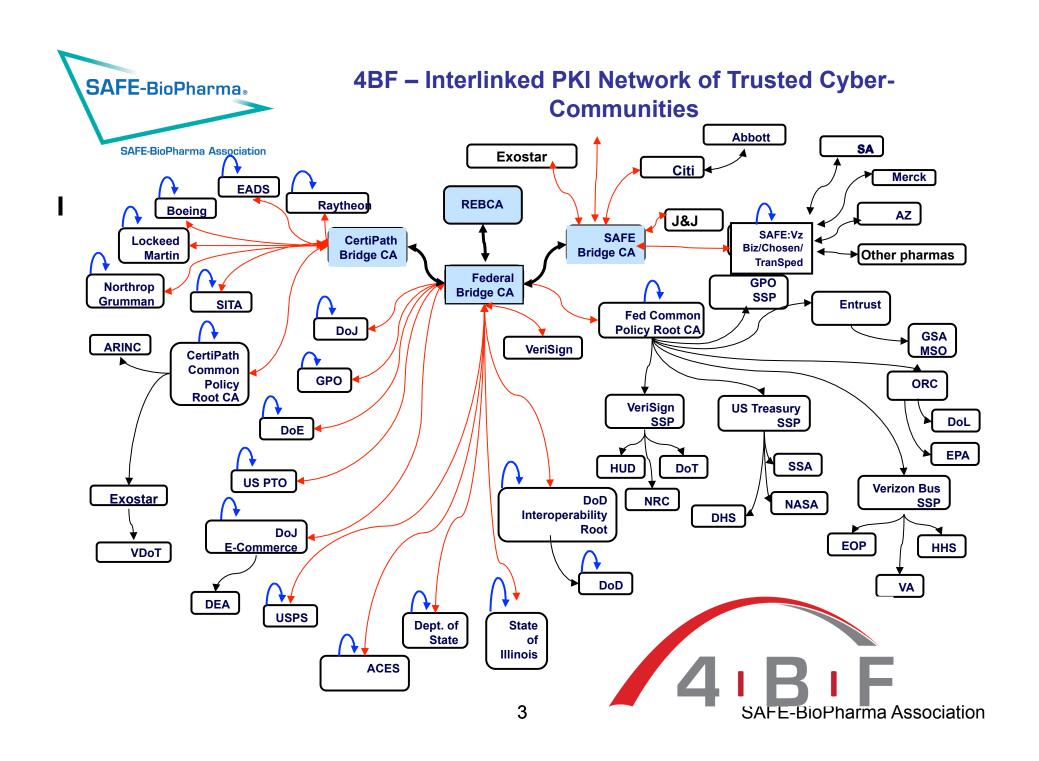
- Assurance levels, "frameworks", interparty liability
- Tokens: mobile; smartcards; browser, etc.
 - PKI, non-PKI



Assurance levels, "frameworks", interparty liability

PKI

- FBCA
 - Six increasing, qualitative levels of assurance: Rudimentary, Basic, Medium, PIV-I Card Authentication, Medium Hardware, and High.
- Also Medium Hardware Commercial Best Practices (CBP) Assurance Requirements
- Non-PKI
 - FICAM





Non-PKI TFPs

FICAM certified

- LOA 1 OIX
- LOA 1-2 InCommon
- LOA 1-3 Kantara
 - Certification program for IdP/CSP in place and operating
 - · At least one IdP in process
 - TFP Only

In process

- LOA 2-3 SAFE-BioPharma Assn
- In TFET review
- Certification program defined and will be operational upon FICAM certification
- Also issues both PKI and non-PKI level 2 and 3 credentials



Interparty Liability

SAFE-BioPharma

- Closed membership association
- Dispute resolution process governs adjudication
 - Agree not to sue but rather arbitrate
- Liability covered under Operating Policies and Member/Issuer Agreements
 - Specific caps related to credential management only
 - Does not cover use of credentials

Other TFPs

Part of why we are here



Authentication and credentials

PKI is covered by the FBCA CP and CPS

- Multiple certificate types
- Hardware, software and roaming
 - Roaming currently classed as software by the FBCA
 - Moving to cloud-based solutions SAFE-BioPharma/Verizon offering cloud-based HSM protected certificates

Non-PKI

- NIST SP 800-63
- Issue currently approved version dates to 2006 and is technically out of date and does not recognize non-PKI multi-factor tokens
- Much of industry working with the Dec 2008 (now Jun 2011 draft)
 - Includes much broader definitions of acceptable tokens at various LOAs



Token types

Who is doing what and how?

PKI

 Smartcards, USB hardware tokens, software tokens on machines/ mobile devices, cloud HSMs

Non-PKI

- LOA 1&2 memorized secrets, pre-registered knowledge tokens
- LOA 2 look up secret, out of band, SF one-time password device, SF crypto device
- LOA 3 multiple tokens (NIST SP 800-63 (June 2011 draft), Table 7)