

# Four Bridges Forum: How Federated Identity Trust Hubs Improve Identity Management

## The Federal PKI

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# What is the 4BF?



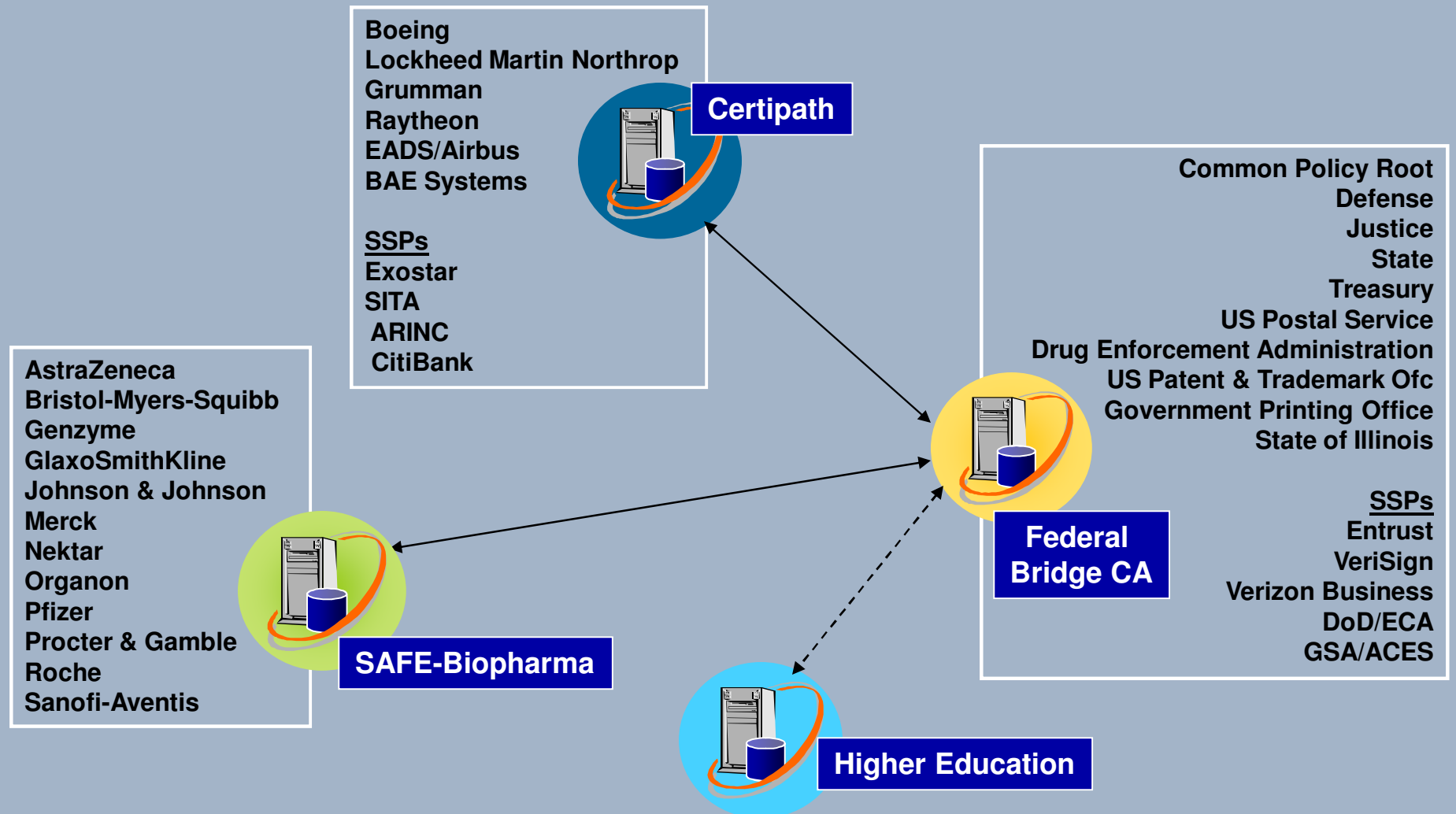
- A consortium of public key infrastructure (PKI) bridges each serving a major community of interest;
- Leveraging government and non-government federated identities;
- Based on a common foundation of trust;
- Laying the groundwork for a global trust network.

# Who is the 4BF?



- **The Federal PKI Architecture** (formerly the Federal Bridge Certificate Authority or FBCA), established to enable trusted transactions within the government and between government and its industry partners.
- **SAFE- BioPharma Association**, founded by global pharmaceutical organizations to develop and manage digital identity and signature standards for the pharmaceutical and healthcare industries.
- **CertiPath**, establishing interoperable trusted identities for collaboration within the Aerospace and Defense industry via a standards based PKI bridge.
- **The Higher Education Bridge Certificate Authority (HEBCA)**, developed to facilitate trusted electronic communications within and between institutions of higher education as well as with federal and state governments.

# The Four Bridges



# The Federal Bridge



- The FBCA is the identity trust hub that enables peer-to-peer transactions between its member organizations, both Federal and non-Federal;
- Source of interoperability for ALL Federal Agency HSPD-12 credentials (5.09 million and counting as of 12/2009);
- Enables Agencies to validate each other's PIV cards for physical access;
- Validate desktop and network logins;
- Support high assurance authentication to Agency Level 3 & 4 applications using government and private sector credentials

# 4BF Timeline



- 2003 – NIH and Higher Ed demonstrate Bridge-to-Bridge interoperability.
- 2004 – Aerospace Industry starts Certipath Bridge.
- 2004 – Pharmaceutical Industry announces SAFE Bridge.
- 2006 - CertiPath cross-certifies with the FPKI.
- 2008 - BioPharma cross-certifies with the FPKI.
- 2008 – Inaugural meeting of representatives of the four bridges.
- 2008 - 4BF Audit Working Group is formed to define a standard baseline for PKI audit comprehensiveness and quality that incorporates international standards.
- 2008 – 4BF Agreement to Cooperate is signed.
- 2009 – 4BF launches formal outreach campaign.

# Why was the 4BF Formed?



- To address and resolve common issues affecting PKI-based identity federations;
- To stimulate greater use of high assurance electronic identity credentials by raising awareness of the benefits to relying party applications;
- To target outreach to government program managers, application owners, and industry partners who can reap immediate benefits from use of PKI bridges; and
- To stimulate global interoperability via the 4BF trust infrastructure.

# Benefits of the 4BF?



- Leverage PIV certificates beyond internal agency systems to **improve the ROI of PIV system infrastructure.**
- **Source of interoperability** with a business partners in the aerospace, defense and bio-pharmaceutical communities
- Trust of 4BF identity credentials provides **“real time” scalability;**
- Facilitating **identity portability**

# For Further Information



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## ■ Websites:

- <http://www.safe-biopharma.org/index.htm>
- <http://www.certipath.com>
- <http://www.idmanagement.gov>