



# Validation Interoperability for CEIs

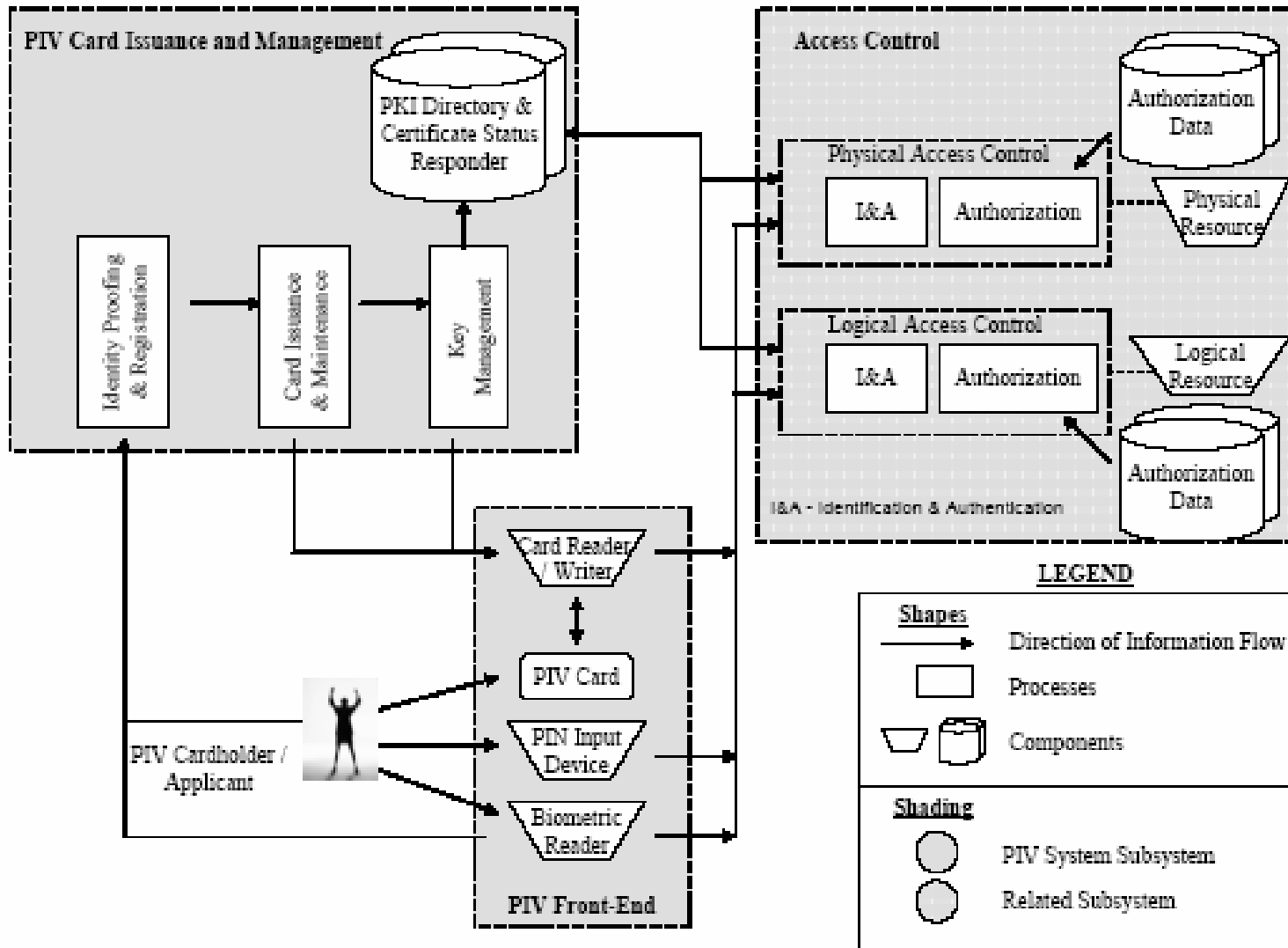
**Bob Dulude**  
**CSO**  
**CoreStreet, Ltd.**

**[bob@corestreet.com](mailto:bob@corestreet.com)**

**Cell: 781 710-0436**

**What characteristics of national e-authentication initiatives affect the interoperability of their infrastructures?**

# US PIV System Notional Model



- **Identity Token Issuance and Management**
  - Identity proofing & registration – trust
  - Issuance & Maintenance – versioning
  - Key Management – standards
  - Directory and certificate status - accessibility
- **Front-End for Token Use**
  - Token reader/writer – standards
  - Token – standards
  - Biometric reader – standards
- **Access Control**
  - Identification & Authentication – validation
  - Authorization – validation

# What is Credential Trust?

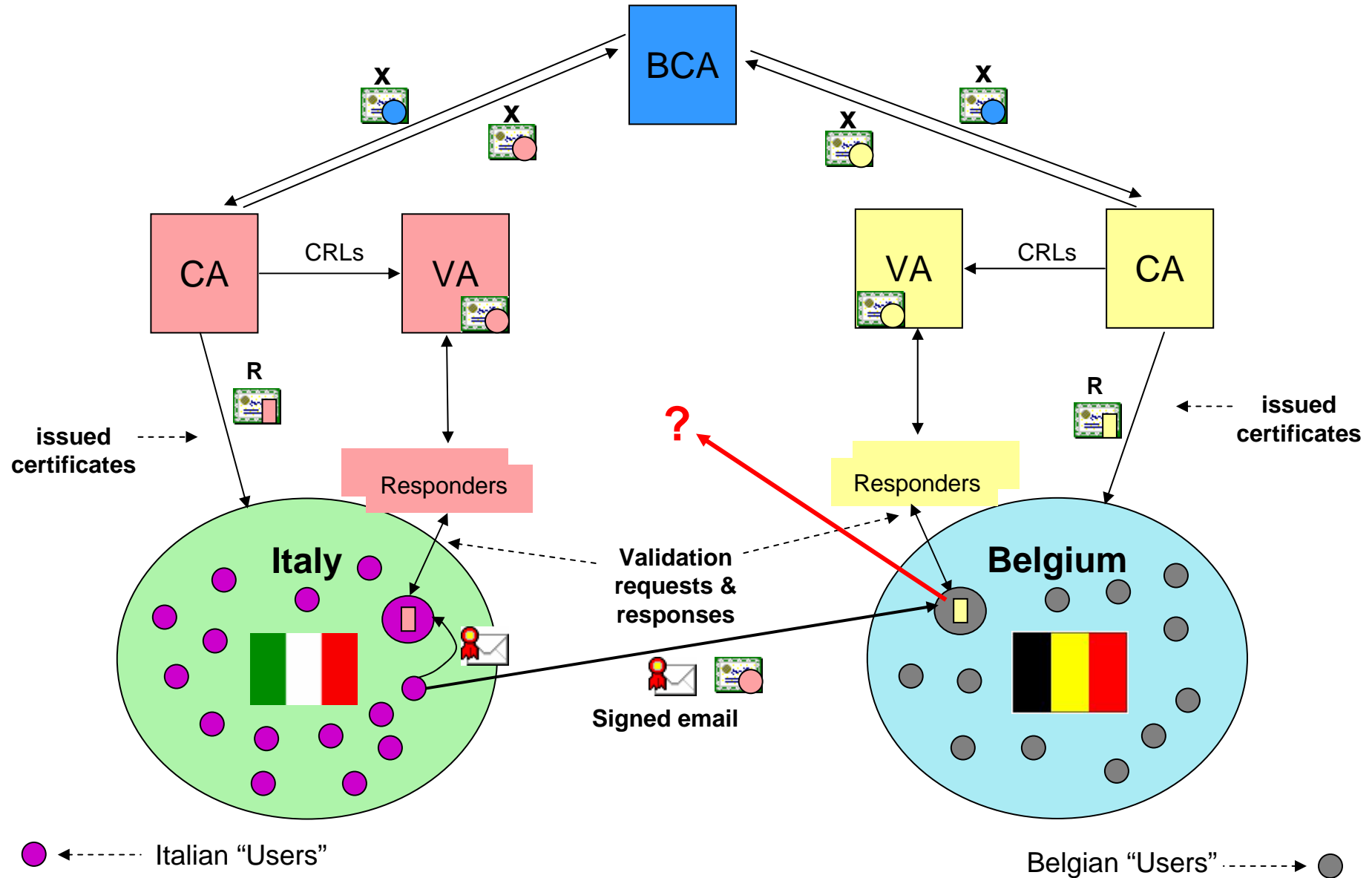
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## Trust = Authenticity + Validity

- **Authenticity** = quality of being genuine
  - Can't be forged or tampered with
  - E.g., Certificate, password, PIN, biometric
- **Validity** = still in force, binding
  - **Invalid** = revoked, void

**Establishing Trust is a 2 step process!**

# Federation "Use" Model



## Validation Interoperability Summary

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- **Validation of identity credentials available today**
- **Validation in a “federated” environment is feasible**
  - Protocol standard “virtually” complete (SCVP)
- **Crucial to plan ahead for validation**
- **Phased approach will probably work best for national ID programs**
  - OCSP first, more mature
  - SCVP to follow as it matures, will use same infrastructure
- **Validation of authorization credentials just now emerging**



**For additional information:**

**Bob Dulude**  
**Chief Security Officer**

**Mobile: (781) 710-0436**  
**Office: (617) 661-3554 x202**

**Email: [bob@corestreet.com](mailto:bob@corestreet.com)**

**Website**  
**[www.corestreet.com](http://www.corestreet.com)**

**Corporate Headquarters**  
**One Alewife Center**  
**Suite 200**  
**Cambridge, MA 02140**