

Tivoli Talk
2010-10-19



Security Services Platform

- **Versatile Authentication**
- **Transaction Signing & Validation**

SecurIT Overview



- Created in 1999 and privately held
- Offices in Gent (Belgium) and Amsterdam (Netherlands)
- Focus on Identity & Access Management solutions
 - +50 consultants on IAM
 - +50 successful Projects at Large Enterprise Customers
- Software products: TrustBuilder®, D-Man™, RoleManager™

Tbuilder
TRUST

Dman
e-business & security monitoring

ROLE
manager

- Worldwide Partner Network (Europe, North & South America, Australia)

encode

UNISYS



aTheos
L'esprit d'Architecture

MORSE

AZERTIA

first@ttribute

Indra

SENETAS
trusted to secure critical information

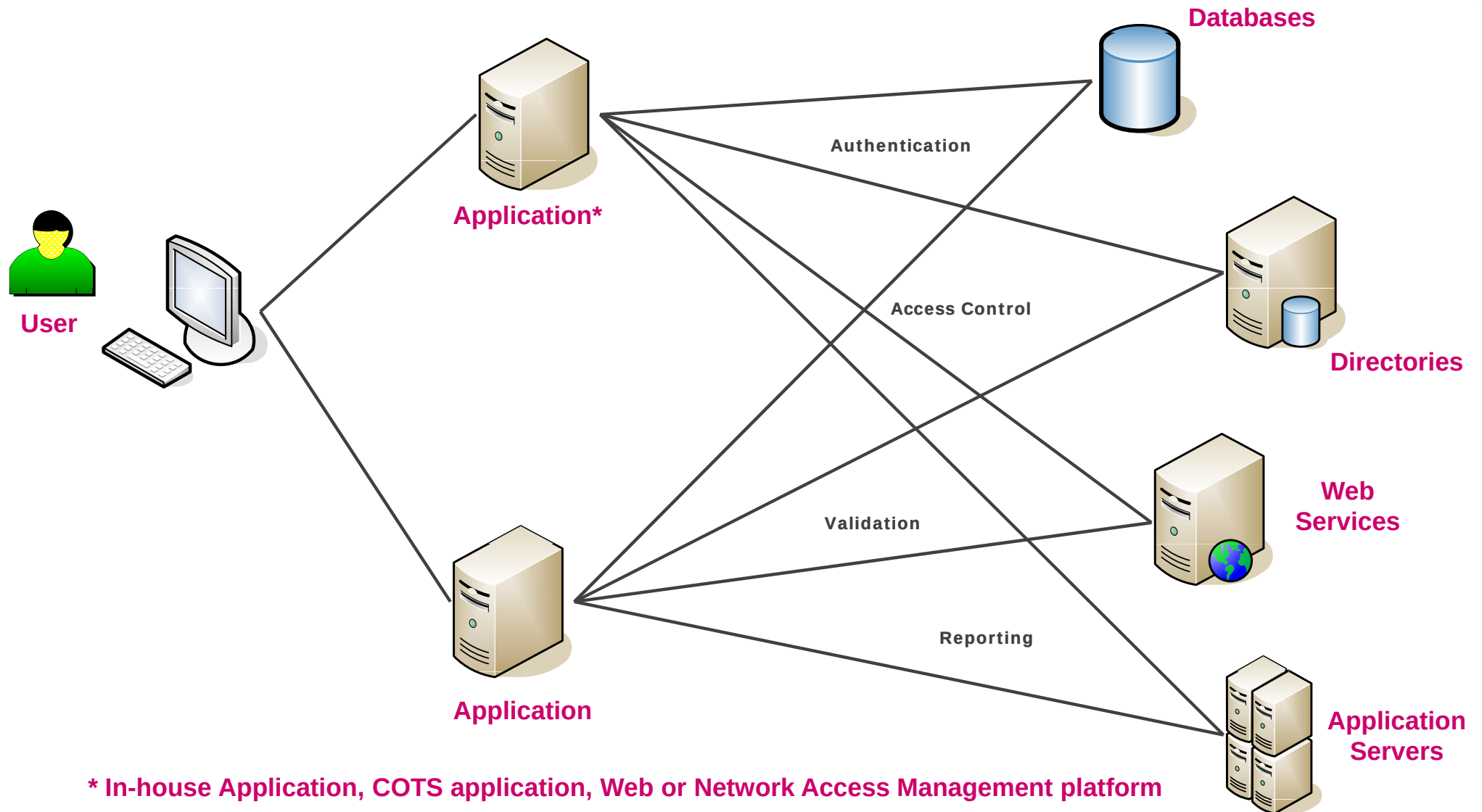
Some SecurIT Customers





INFRASTRUCTURE SECURITY CHALLENGE

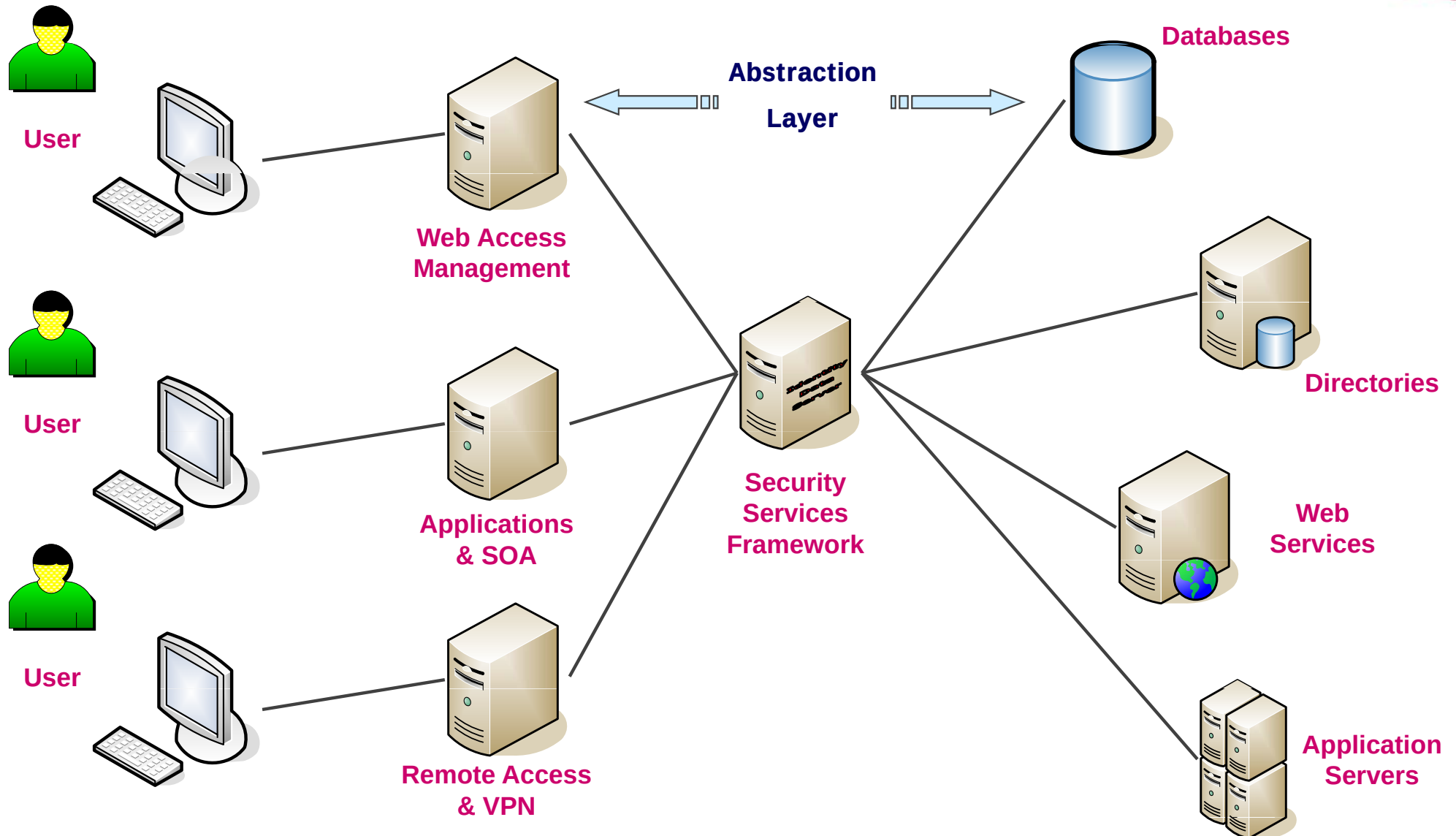
Infrastructure Security: Challenge



- **Repeat for each application**
 - Integrate API
 - Secure communication
 - Setup auditing and logging
- **Integration of low-level, complex APIs**
 - Expert knowledge
 - Maintenance
 - Error-prone
 - Security issues
- **Structure and schema dependencies**
 - Adapt to database structures
 - Adapt to directory schemas
 - Structure & schema conflicts



Infrastructure Security: Solution



- **Re-usable services**
 - Modular backend resources
 - Embedded security services
 - Centralized auditing and logging
- **Higher Level of Abstraction**
 - Hide complexity of APIs
 - Standardized interface
 - Single component to maintain
- **Structure and schema independent**
 - Hides database structure
 - Hides directory schema
 - Combine resources
 - Apply application independent policy



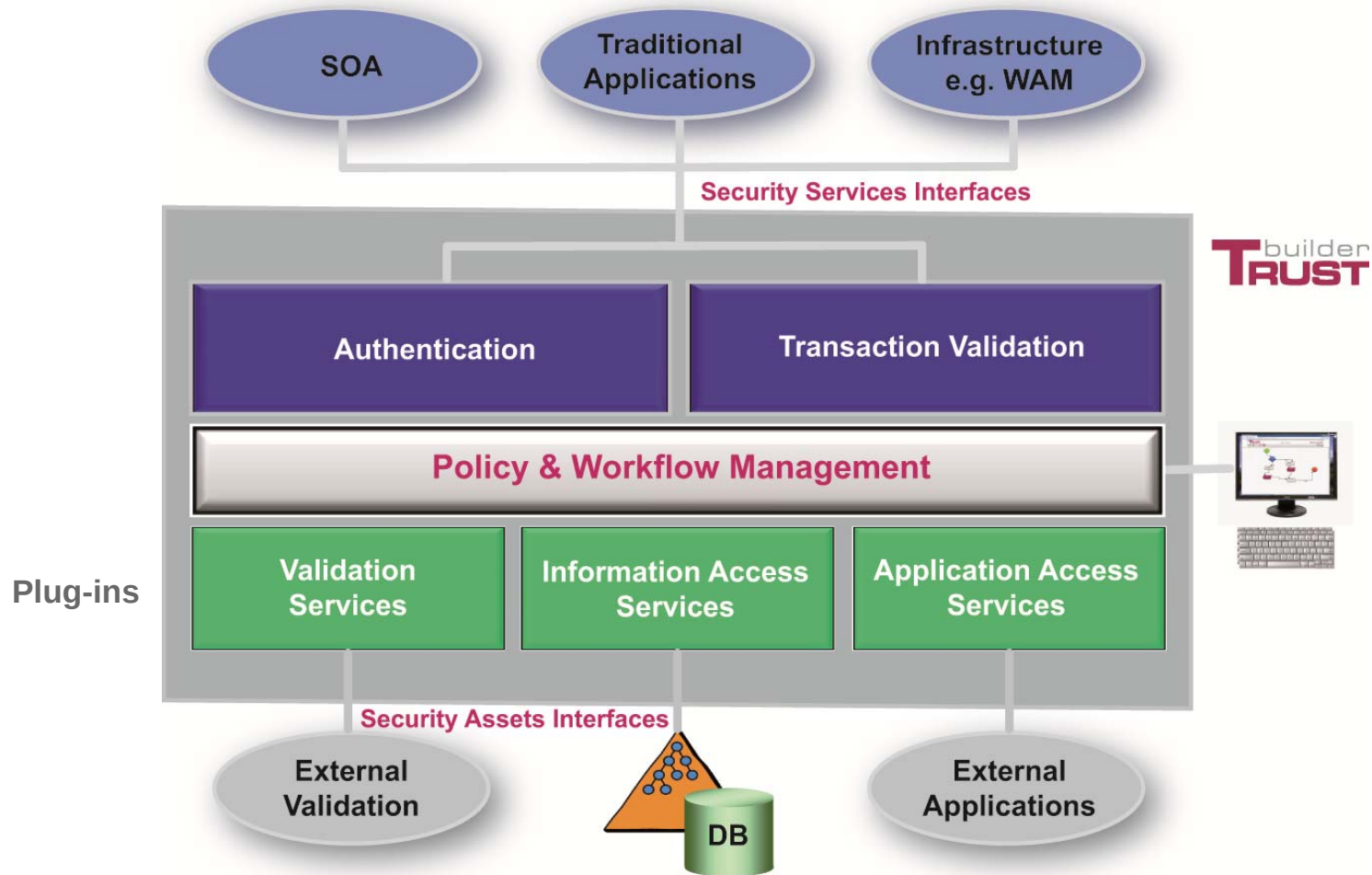


SecurIT TrustBuilder®

SECURITY SERVICES PLATFORM



TrustBuilder Security Services Platform



Available as WebSphere Application and Software Appliance

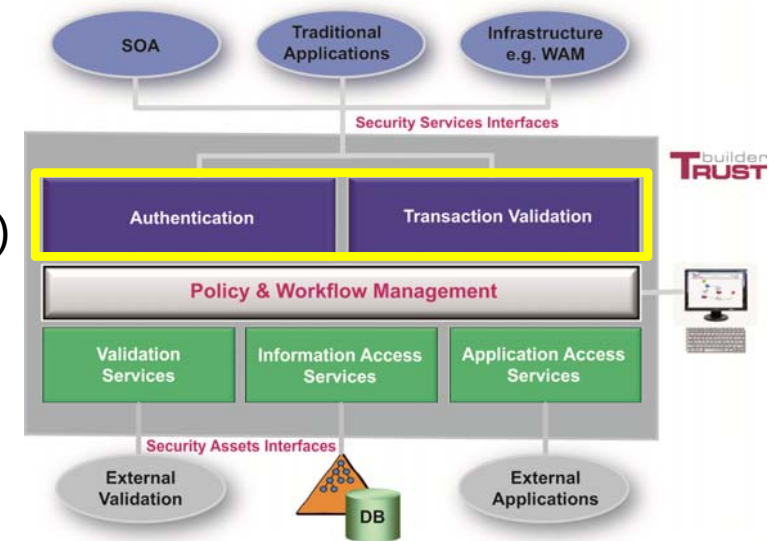
Security Services provided

- **Authentication**

- Re-usable high level Service
- Multiple mechanisms (selected using workflow)
- User mapping (Rule, Look-up)
- Adaptive Access Control
 - Handle User capacity
 - Session Entitlements (Role, Attribute)
 - Context-aware (E.g. Certificate status)
- AKA Versatile Authentication Server **Gartner**

- **Transaction Validation**

- Transaction integrity and non-repudiation services
- Transaction Challenge generation, Signing and Validation
- With or without application awareness



Security Services Fulfillment

- **Validation Services**

- Internal Validation Services
- Interfaces to External Validation Services
 - Token Validation
 - Geolocation data
 - Fraud Detection Service
- Transaction Validation
 - Challenge generation
 - Signature validation

- **Information Access Services**

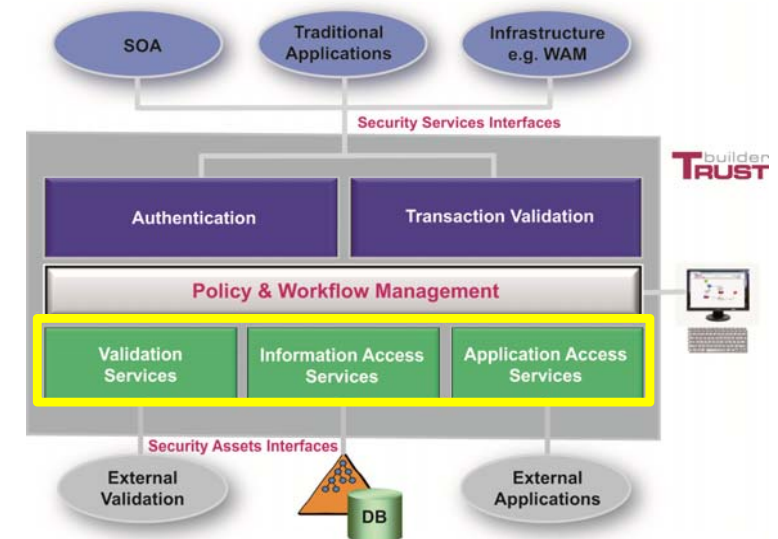
- Access to Directories
- Access to Databases

- **Application Access Services**

- Externally provided Services
- Authentication, Access Control, Policy

- **Reporting**

- Audit & Logging
- Non-repudiation



Plug-in Architecture



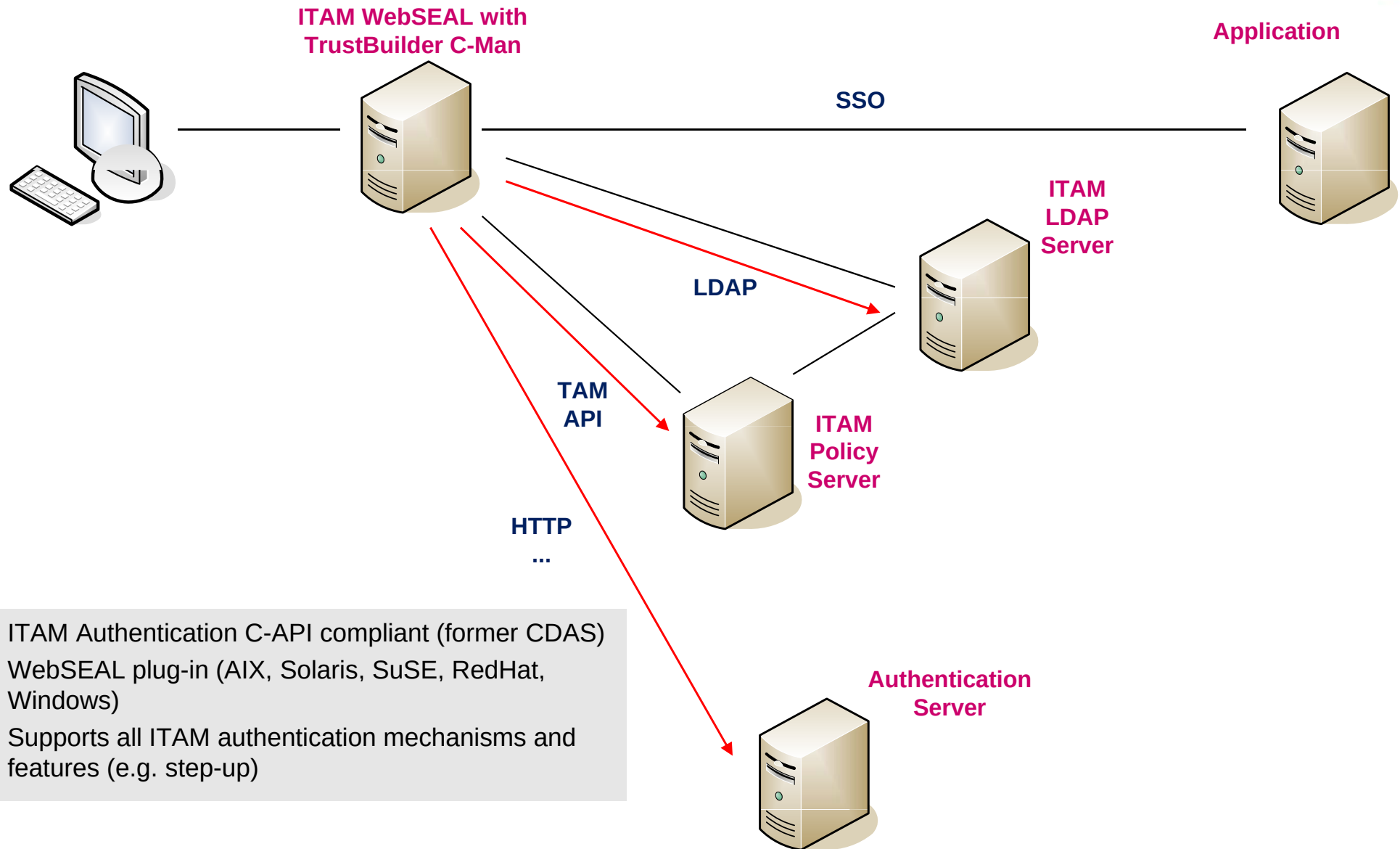
SecurIT TrustBuilder

ITAM INTEGRATION

&

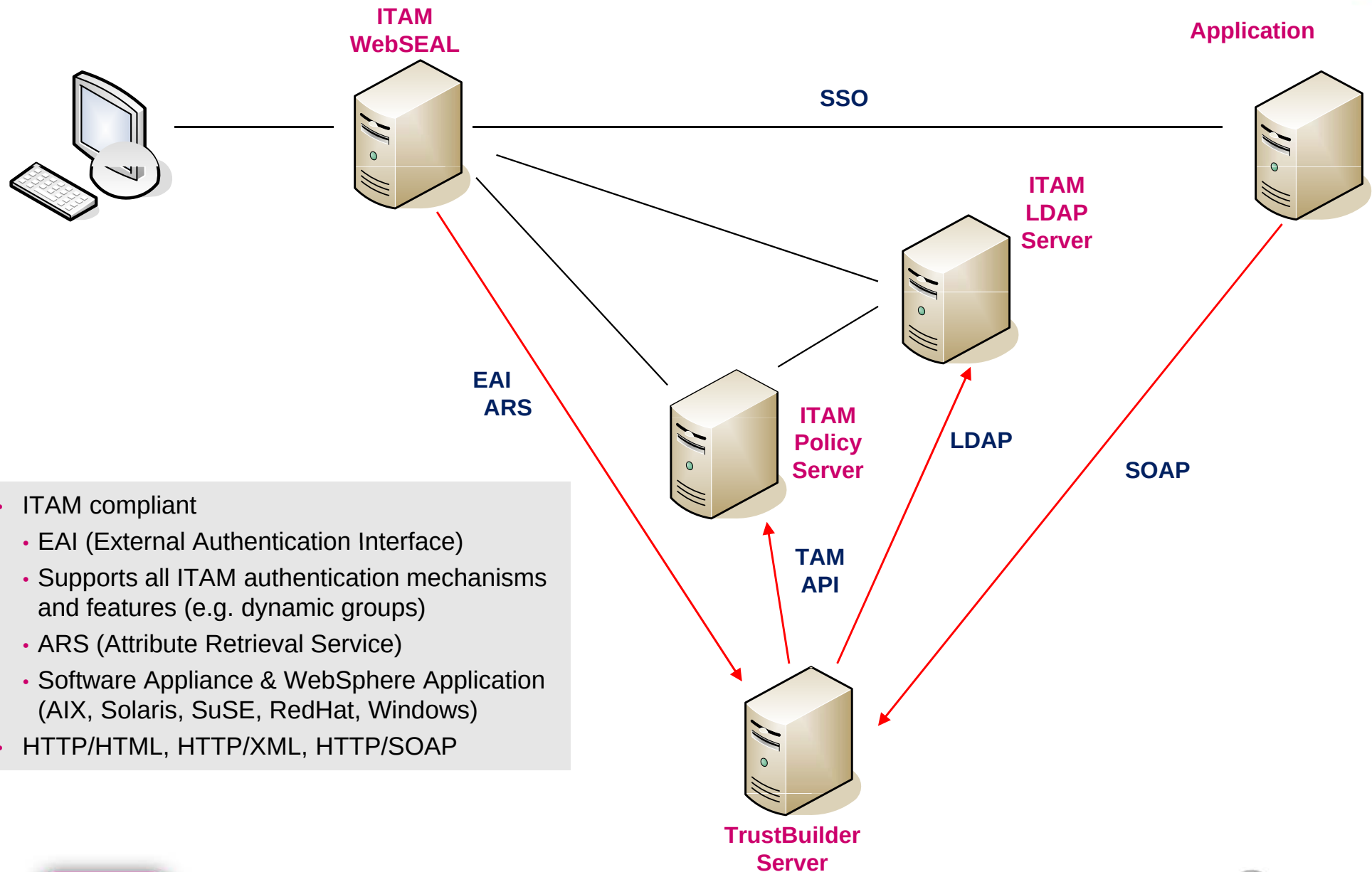
PRODUCT FAMILY

ITAM & TrustBuilder C-Man



- ITAM Authentication C-API compliant (former CDAS)
- WebSEAL plug-in (AIX, Solaris, SuSE, RedHat, Windows)
- Supports all ITAM authentication mechanisms and features (e.g. step-up)

ITAM & TrustBuilder Server (EAI/ARS)



- ITAM compliant
- EAI (External Authentication Interface)
- Supports all ITAM authentication mechanisms and features (e.g. dynamic groups)
- ARS (Attribute Retrieval Service)
- Software Appliance & WebSphere Application (AIX, Solaris, SuSE, RedHat, Windows)
- HTTP/HTML, HTTP/XML, HTTP/SOAP

- **Out-of-the-Box**
 - Username/Password
 - Native ITAM (same as used by WebSEAL)
 - LDAP
 - RADIUS
 - One Time Password (v5.0)
 - Soft Token
 - Mobile Token
 - Digital Certificates
 - X.509 Certificate validation
 - Revocation checking (CRL, Delta-CRL, OCSP, SCVP)
 - CR-check Policy
- **Multiple methods simultaneously**
 - Managed by Workflow
 - Simplified GUI configuration (v5.0)



- **Authentication**

- Username/password (any Repository: AD, Database, etc.)
- OTP (VASCO, Gemalto, SecurID, RADIUS)
- Biometrics (SentryCom,...)
- X.509 Certificates

- **Multiple User Repositories**

- Directory chaining
- Account linking & registration
- Profile lookup

- **Extended Identification**

- Identity mapping
- Identity enrichment
- Attribute retrieval
- Role selection (session/context-based)

- **Strong SSO**

- SAML Service Provider
- Long-term tokens
- Multiple clients (e.g. SharePoint + Office)
- Multi-tier tokens & validation

- **Transaction Validation**

- OTP (VASCO, Gemalto, SecurID)
- Compliant with CAP/EMV (VISA/MC)
- X.509 Signatures

SecurIT TrustBuilder

ING  **USE CASE**

TRANSACTION SIGNING & VALIDATION



- **Introduce New Authentication method**
 - Replaces old mechanism (proxy on User's PC + Password)
 - Not-connected card reader and bank card
 - Based on CAP-EMV standard
- **New Channel Security Infrastructure (NCS)**
 - Externalise Authentication from application
 - Carve-out functions for Transaction Signing and Validation
 - Re-use infrastructure-based Security Services for New applications

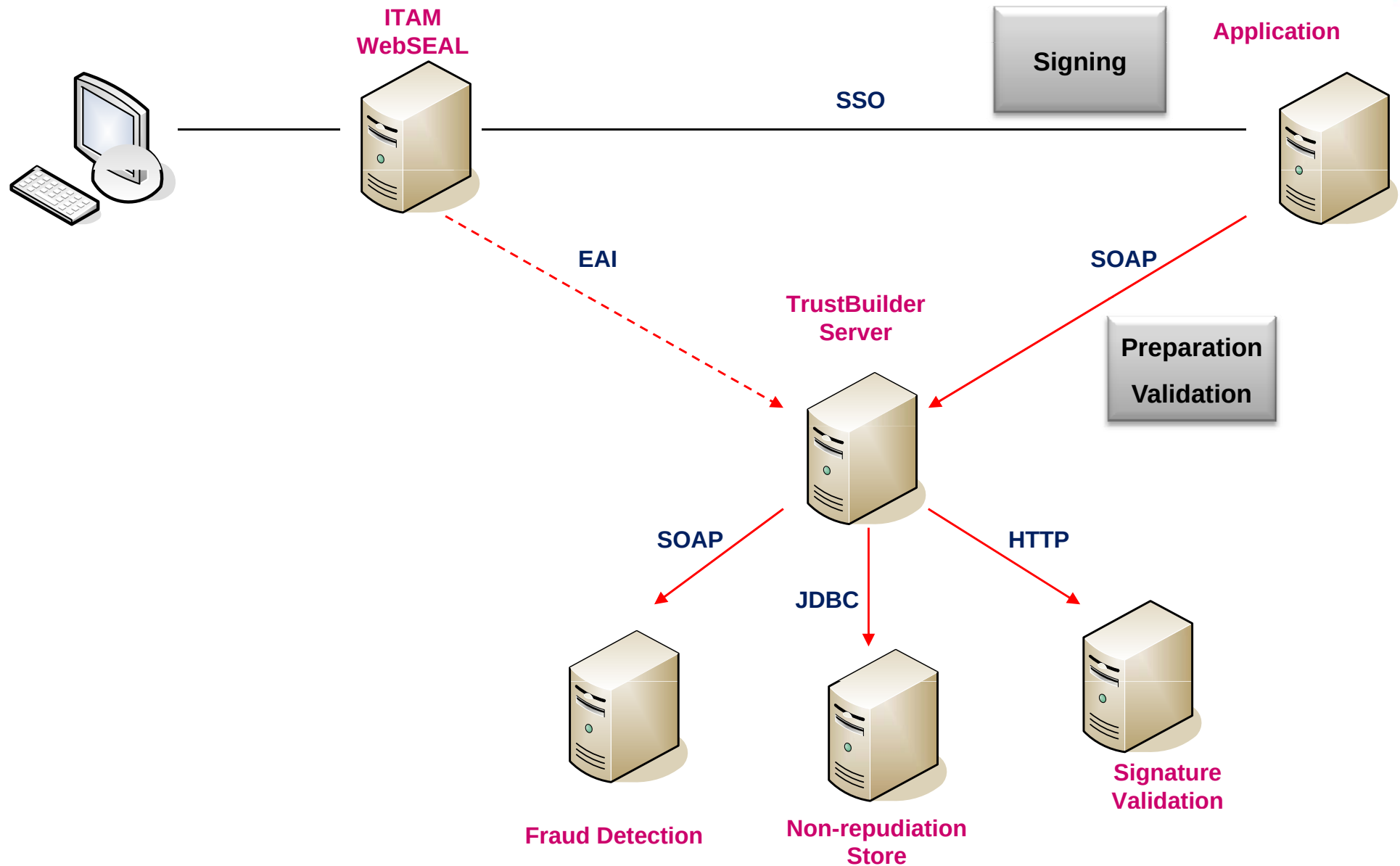
MIGRATION !



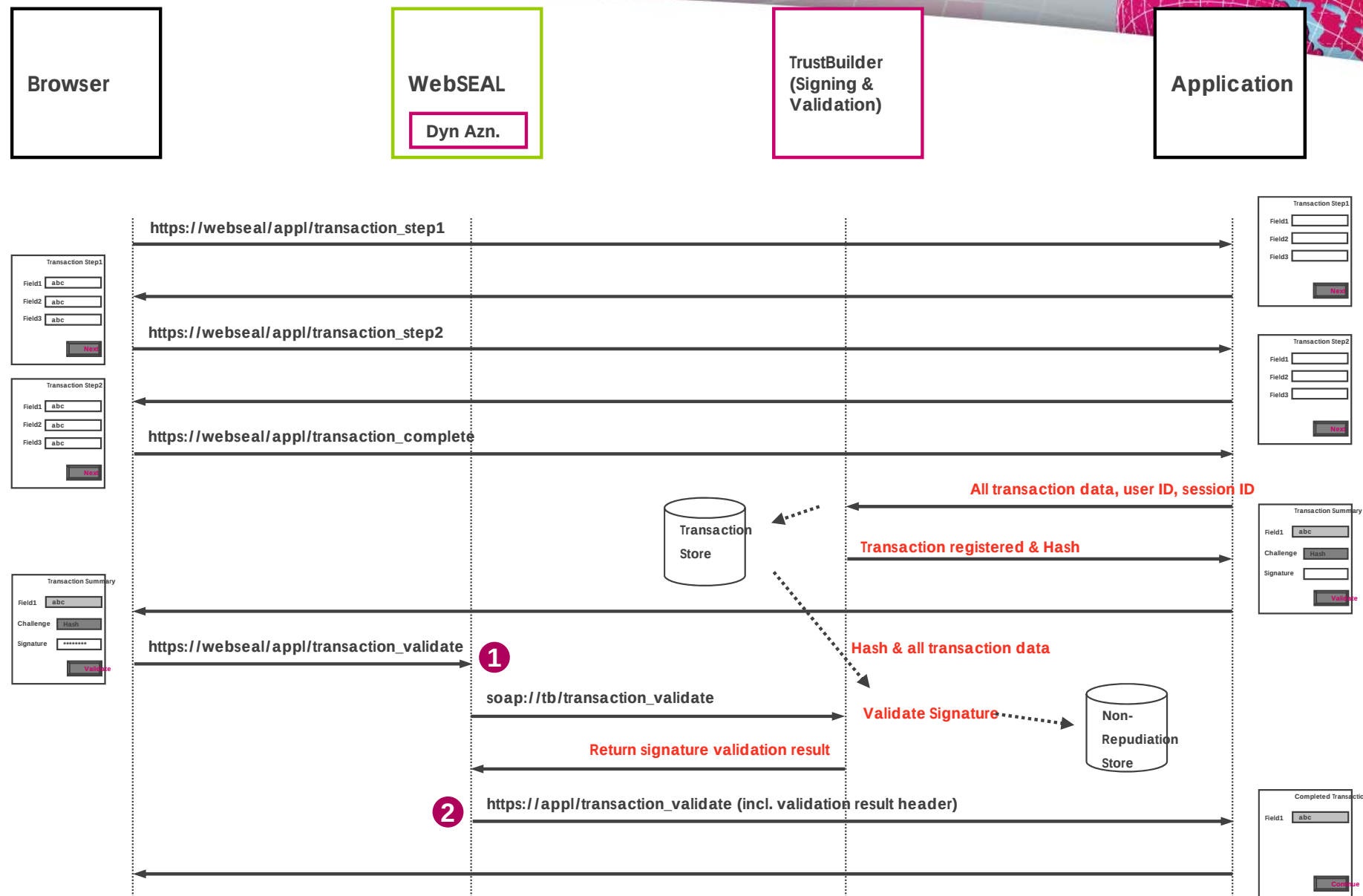
- **Transaction Preparation**
 - Collect sensitive information from transactions
 - Generate Challenge
- **Transaction Signing**
 - Present signature form
 - Embed Challenge
 - Embed signing logic
- **Transaction Validation**
 - Capture Signature
 - Validate Signature
 - Store validation result

Preparation
Signing
Validation

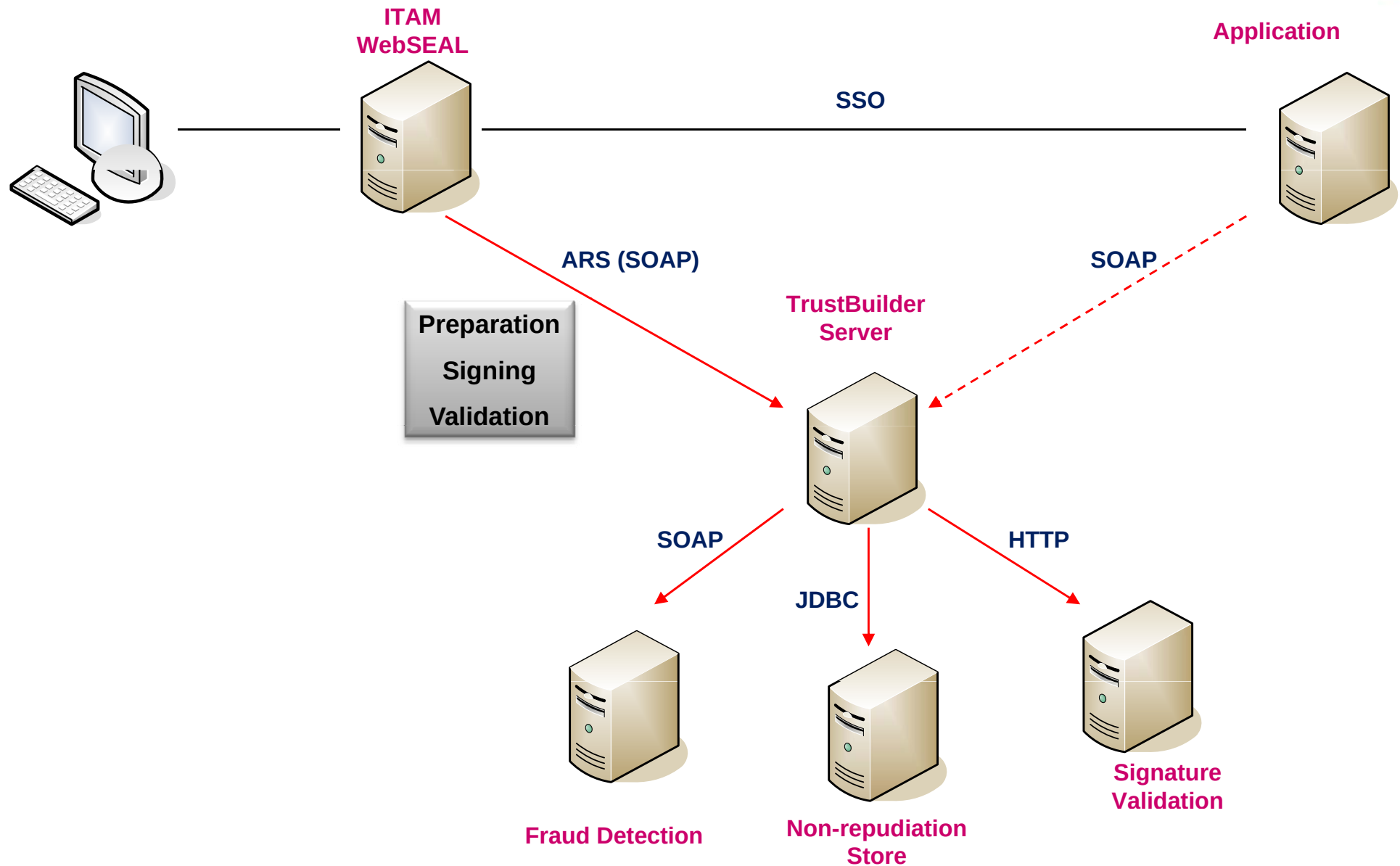
ITAM & TrustBuilder Server (application-centric)



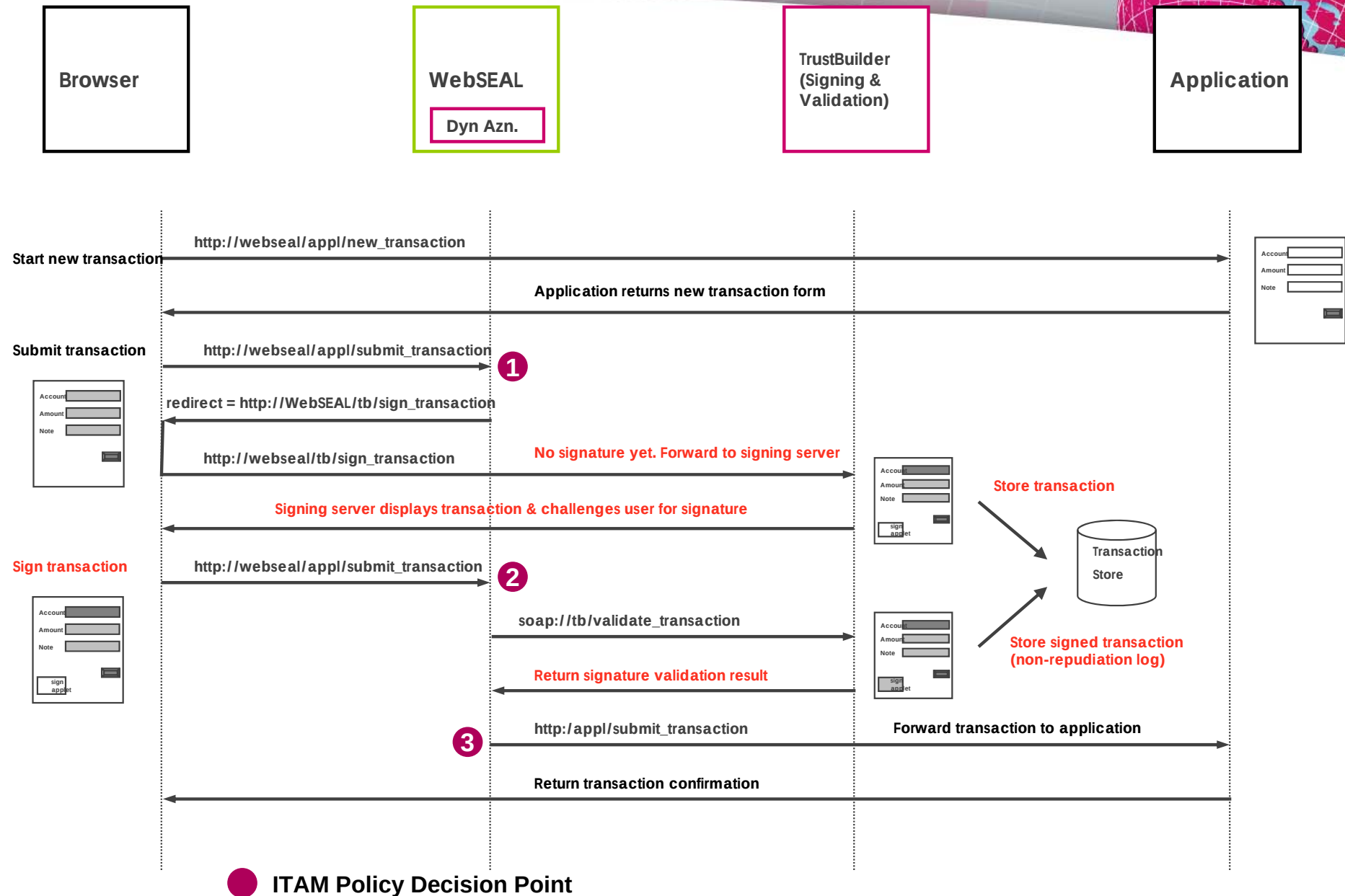
Signing logic in application / Validation logic in TrustBuilder



ITAM & TrustBuilder Server (application-independent)



Transparent Signing & Validation





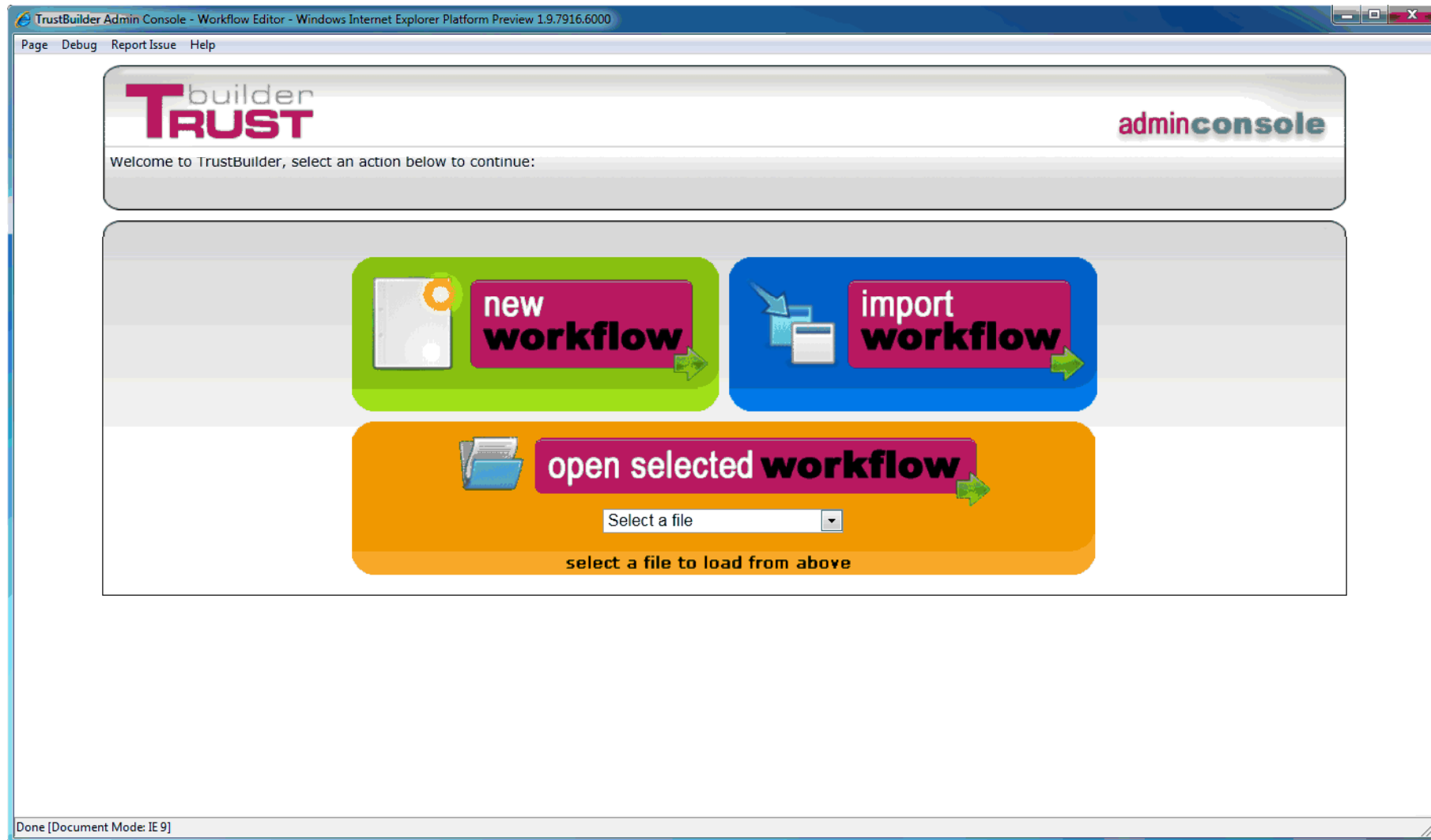
SecurIT TrustBuilder

VERSIONS & ROADMAP

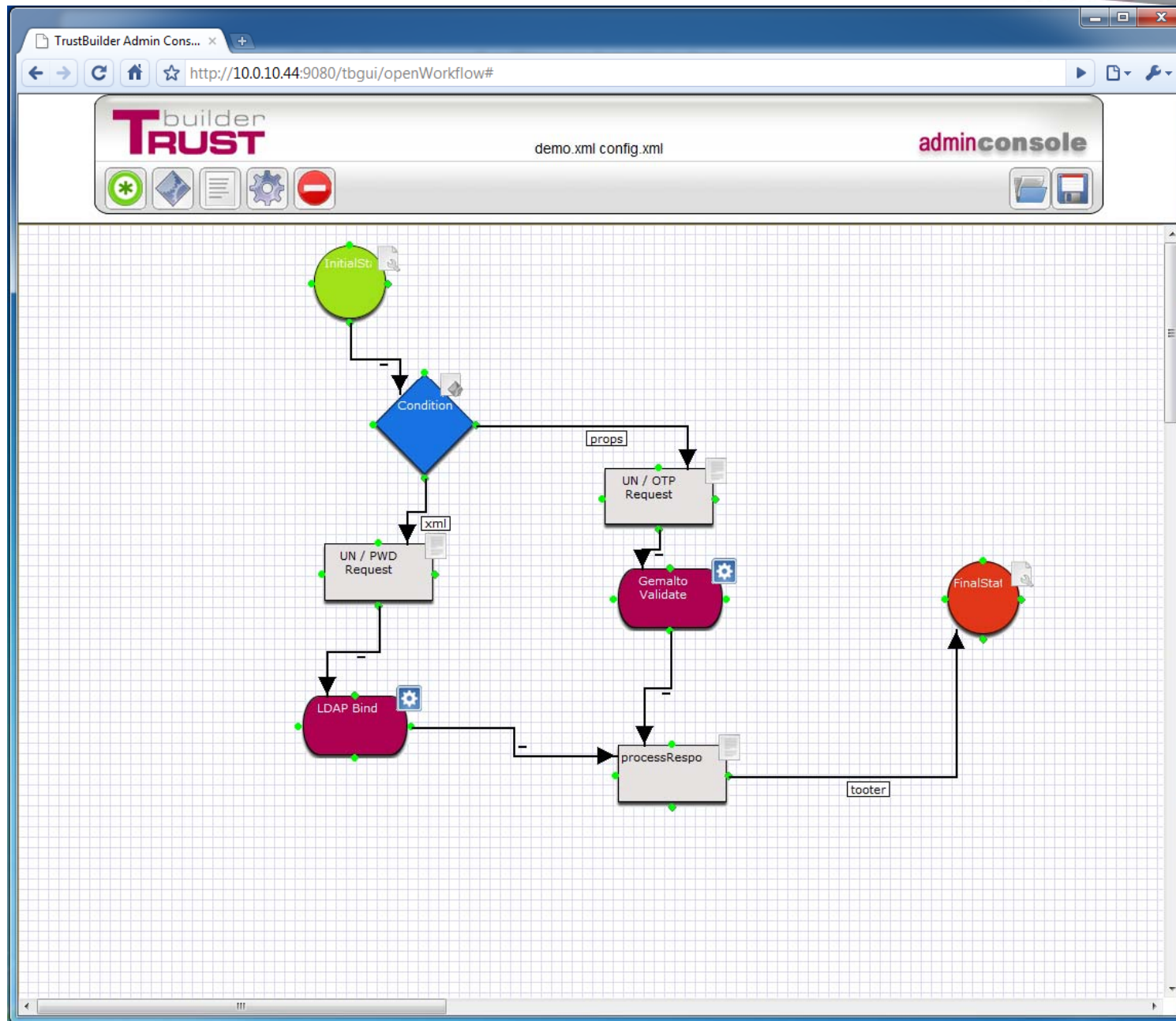


- **IBM Tivoli Access Manager**
 - ITAM 5.1, 6.0, 6.1, 6.1.1
 - C Authentication API (CDAS)
 - External Authentication Interface (EAI)
 - Attribute Retrieval Service (ARS)
- **TrustBuilder C-Man**
 - Runs on WebSEAL server
 - AIX, Solaris, SuSE, RHE, Windows
- **TrustBuilder Server**
 - WebSphere J2EE application: AIX, RHE, Solaris, SuSE, Windows
 - Stand-alone Software Appliance on Intel box
- **Roadmap**
 - Current version
 - TrustBuilder C-Man 2.2
 - TrustBuilder Server 3.0 & 4.0
 - Next versions (Q1 2011)
 - TrustBuilder C-Man 5.0
 - New architecture (4.0 & Java)
 - TrustBuilder Server 5.0
 - GUI, Scripting Engine, Dashboard, Soft & Mobile OTP

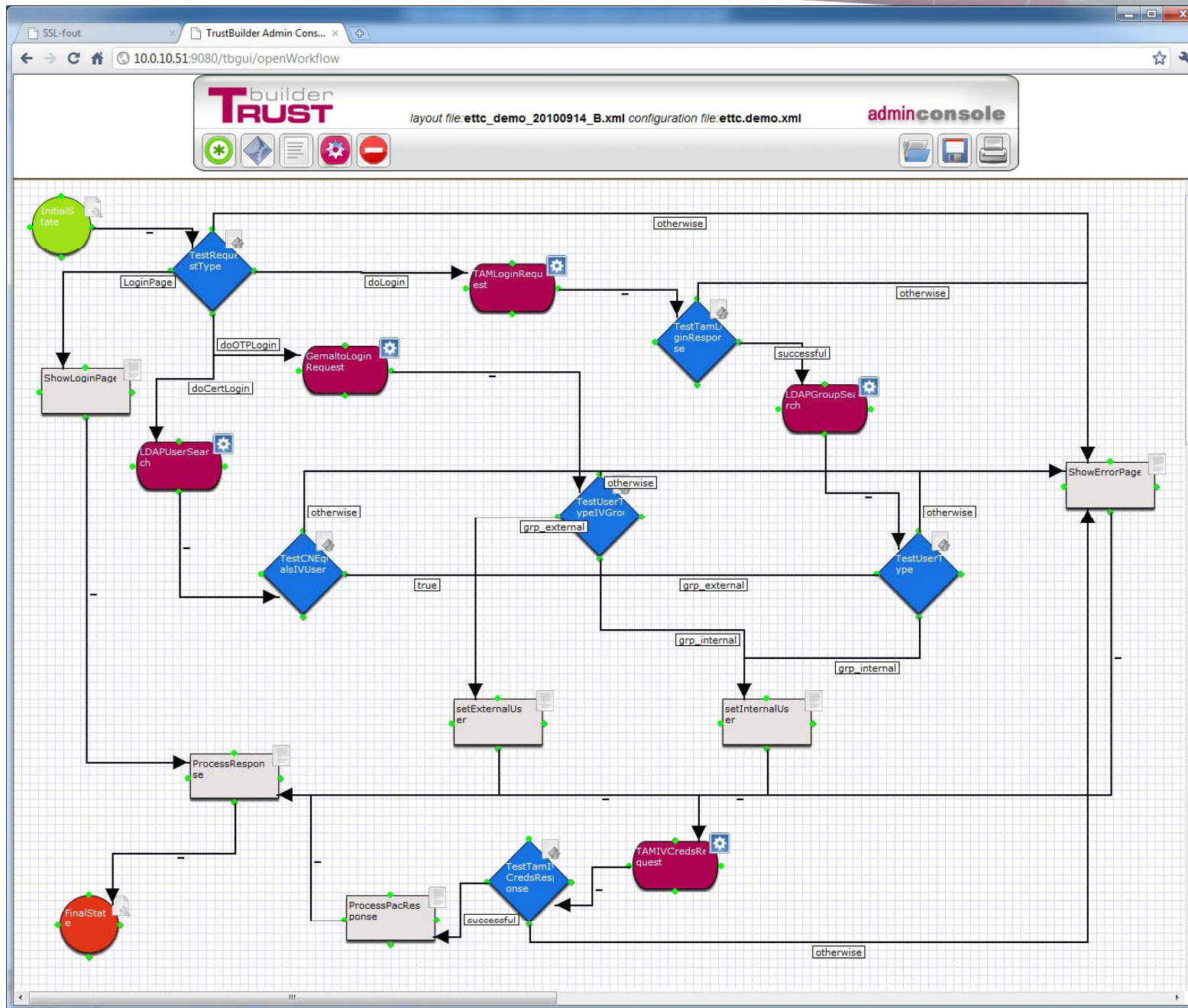
TrustBuilder GUI Admin Console



TrustBuilder: WorkFlow GUI



Drag and Drop Configuration





Thank
You

SecurIT

F. Rooseveltlaan 349d

9000 Gent – Belgium

Tel. +32 9 265 02 70

info@securit.biz

www.securit.biz

QUESTIONS ?