



Agència Catalana
de Certificació



Identity and capability management and federation



Administració Oberta
de Catalunya



The need to manage identities - 1

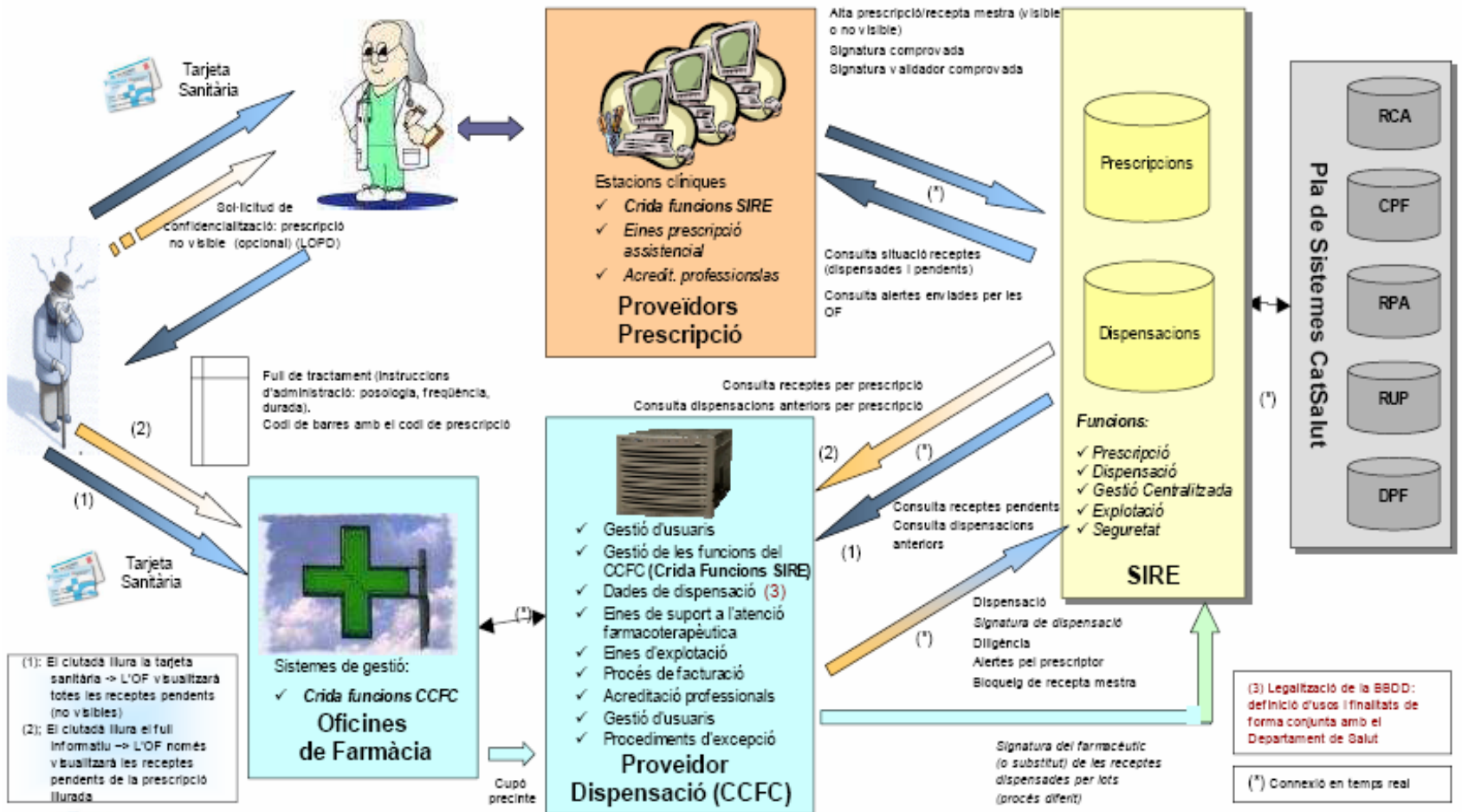
- Increment of digital identity complexity
 - Password, dynamic password, one-time password, based on portable secure devices (like USB tokens, mobile phones, smart cards).
 - Identity X.509 digital certificates, issued by different providers, to public employees, businesses and citizens, specially in roaming and non-physical presence scenarios.
 - National electronic identifications (DNI and others).
 - Remote/delegated authentication assertions, based in SAML, Liberty, Shibboleth, WS-S/WS-I and others, in distributed and collaborative environments.
 - Identity federation rules and trust models management.
- Merging of identity management and business processes
 - Market is going beyond the trend to integrate or synchronize identity and other attribute information in “unique directories”.
 - Trend to hide organizational directories behind SOAs (less LDAP and proprietary applications, more web services).
 - Emerging middleware to integrate applications and business logics requiring identification and attribute information.

The need to manage identities - 2

- Orientation to distributed identity and attribute management
 - Perception: Distributed management may help extending the public service provision to all persons, especially in a transnational environment.
 - European initiatives like FIDIS or MODINIS consider identity and attribute management as the solution to integrate public transactions at a European-wide scale, in an interoperable form, and in concrete may leverage the national electronic identifications, and other regional identifications, like eHealth cards or citizens cards.
 - GUIDE project, built complying with European Commission's IDABC initiative, currently works in profiles and messaging based in SAML/Liberty to integrate European identities.
- Appearance of business protocols to manage identity federation (Liberty WSF, SAML...) and access control in a highly distributed form (XACML).

A Catalan identity federation for eHealth - 1

- The Catalan Health Service has implemented an ePrescription project, which is up and running in a real production environment.



A Catalan identity federation for eHealth - 2

- The project authentication mechanisms are based in an identity federation:
 - Medical doctors authenticate using UID and password / X.509v3 qualified certificate.
 - Hospitals issue SAML assertions that are consumed by the Catalan Health Service, giving access to the ePrescription application.
 - Pharmacies authenticate using UID and password / X.509v3 qualified certificate.
 - The Catalan Council of Pharmacies issue SAML assertions that are consumed by the Catalan Health Service, giving access to pending ePrescriptions (additional controls apply to protect personal identifiable information).
 - ePrescriptions are also signed by medical doctors, and the dispensed medicaments are reported to the Catalan Health Service with a signed message.

Strategic considerations

– Current and future situation

- Many identities (although with more quality): public, private, national, regional, local, healthcare, finance... Trend to reduction and generalization of identities (more DNI/idCAT, less password)
- Many networked providers regarding attributions and capacities of people: public administrations, notaries and legal registries, private entities. Trend to high specialization and on-line consumption, using webservice.

– Strategy

- Today: Validate different identities, generate evidence and archive it (**PSIS**).
- Evolution: Facilitate authentication, using a common module (**PASSI**).
- Evolution: Manage persons, instead of separate identities (**PASSI**).
- Novelty: Manage capabilities, persons able to do things (**PASSI**).

Data sources



Platform of Attributes for Security and Signature: PASSI

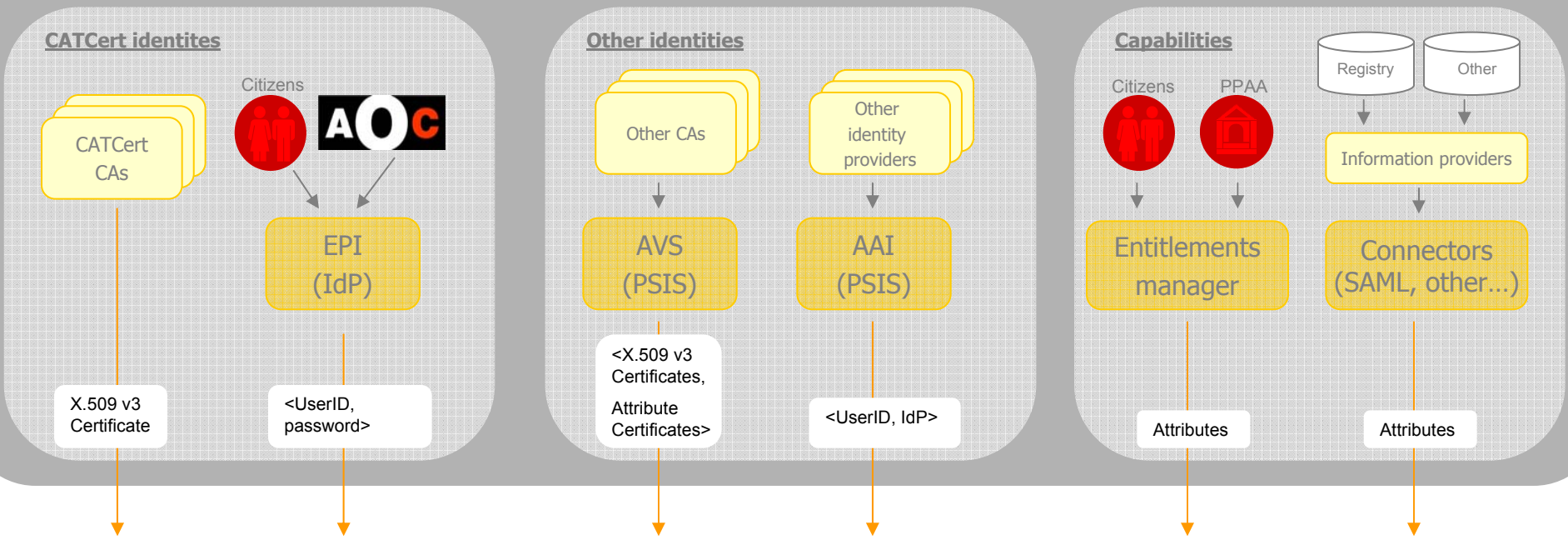


Identity and attribute services

Platform of attributes for security and signature

- Main objectives
 - Creation of a repository containing the identity data sources managed by CATCert (wide “metadirectory” concept).
 - Definition of a semantic model, and of connectors with identity providers.
 - Provision of “Attribute Authority” services, using a SOA paradigm.
- Ancillary objectives
 - Foster the adoption of different identity systems by any administration (“Web Single Sign-On common module” concept).
 - Achieve interoperable identity and attribute services between administrations.
 - Being the Catalan public identity and attribute services broker (migration of previous identity mechanisms, like UID and password from CAT365).
 - Provide to public administrations tools to manage entitlements and other forms of legal representation.
 - Allow citizens and businesses the maximum self-management level for their privacy and sensitive data.

Data sources



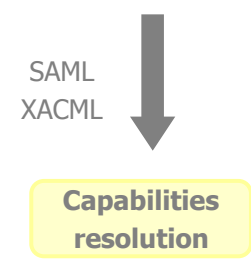
My identities manager

Usage policies manager

Semantic model

Taxonomy based process engine

PASSI





**Agència Catalana
de Certificació**

More information:

ialamillo@catcert.net



**Administració Oberta
de Catalunya**

