

OECD workshop on digital identity management BELGIAN approach



FEDICT
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> Information security in Belgium

> Government disposes of data:

- Identification data,
- fiscal data,
- data about social security ...

> Government needs data to guarantee tasks of national interest:

- Organize elections,
- collect taxes,
- grant social security ...

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> Migration of data

- > All of these data become more and more electronic
 - **Higher Risk**
 - Theft of data
 - Misuse of data for other purposes
 - Easier linkage between databases
 - **More possibilities**
 - Better and more efficient use of available data
 - Electronic handling of formalities
 - Simplifications of procedures
- > Evolution towards **authentic source**
 - A unique and trustworthy collection of data under the responsibility of public authorities takes care of collecting and maintaining and updating of these data.
 - Unique data collection with quality control
 - Performing and secured
 - Public services address the authentic source for information
 - Citizen/enterprise only has to give input once

> Risk control

- > **Juridical**
 - System of delegation by sectorial committees (created by Commission Protection of personal live environment)
 - Service who requests knowledge on certain data movements needs authorization from sectorial committee for these data
 - data
 - Legal basis, task of general importance
 - Finality and proportionality
 - Safety measures
 - The communication and usage of data is under the control of the sectorial committee
- > **Organizational**
 - Safety plan for public services controlled by the sectorial committees
 - For online user management for civil servants: safety managers
- > **Technical**
 - Access control to applications User management civil servants, citizen and enterprises
 - Username and password
 - Token
 - Electronic identity card
 - Identification
 - Authentication
 - Digital signature

> Possibilities

> User management

- User-ID, password, token
- Combination of what you know and what you have
- Form of electronic signature

> Electronic identity card (eID)

- = "key" to information
- Data capture
 - = proof of identity
 - Safe tool to consult information fast, efficiently and error-free
- Authentication
 - Safe and trustworthy on-line authentication
- Electronic signature
 - Advanced electronic signature



> Applications:

- Public Sector
 - Signing of digital documents
 - On-line tax declaration (tax-on-web)
 - On-line consulting of personal file in National Register
 - Several applications of local authorities (change of address, request for attestations, library access cards, ...)
- Other possibilities: E-commerce, student cards, e-banking, ...

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> The paper Token

- ▶ Federal authentication Service (FAS) based on SAML
- ▶ User management tool for strong authentication for public services, cities or municipalities
- ▶ Temporary solution until all citizen will be fully equipped with eID
- ▶ Registration via the Belgian portal website
- ▶ Security level 2: username + password + token
- ▶ Different Security levels:
 - ▶ Security level 0: Public access
 - ▶ Security level 1: username + Password
 - ▶ Security level 2: username + Password + Token
 - ▶ Security level 3: Electronic identity card

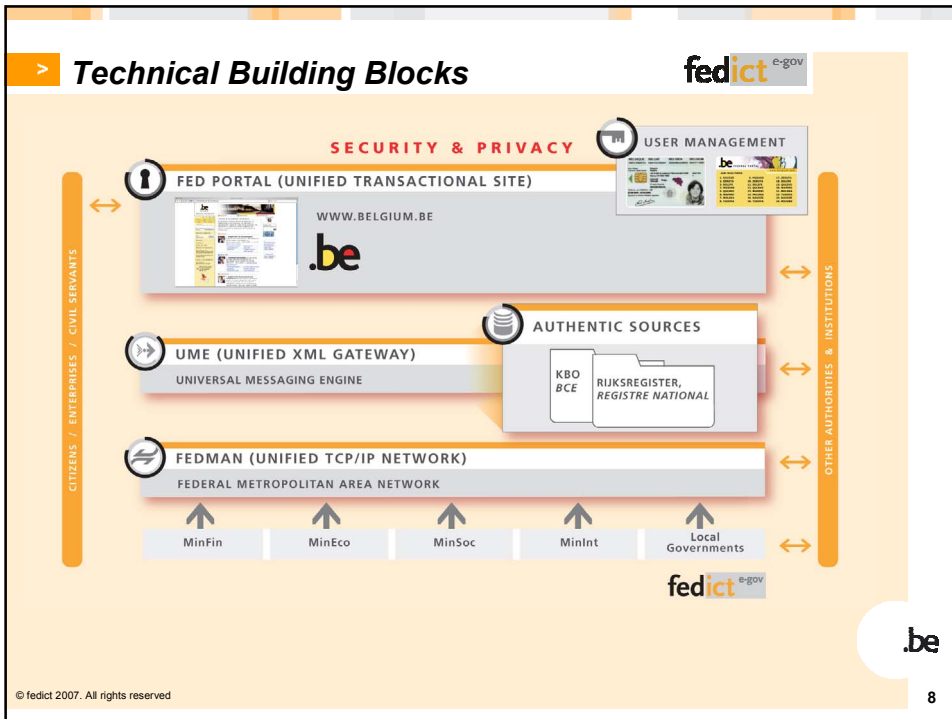
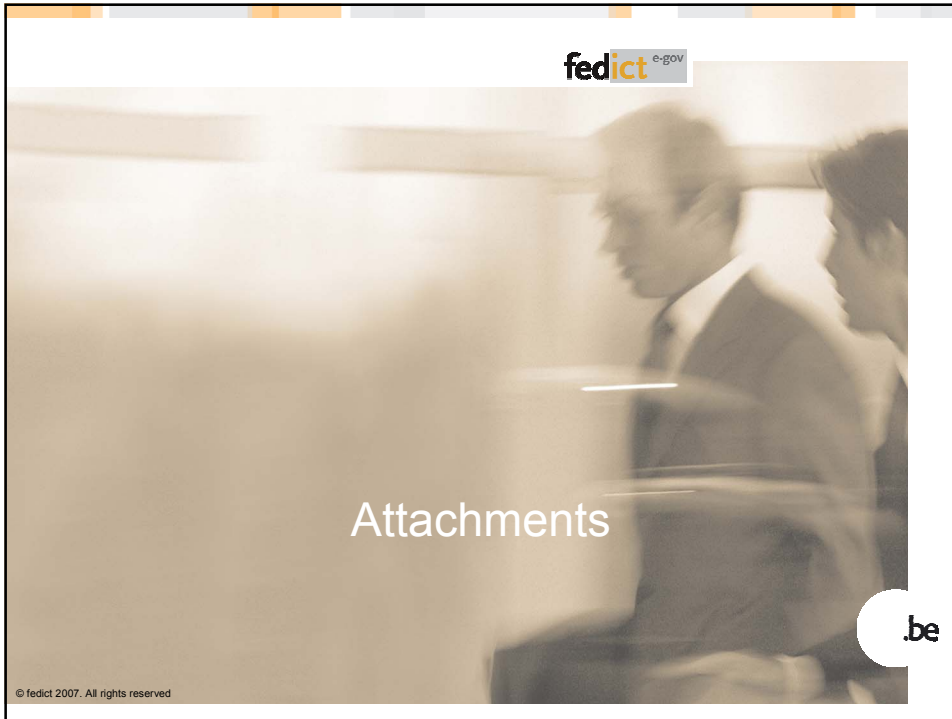


- ▶ European Information Security Award (RSA)

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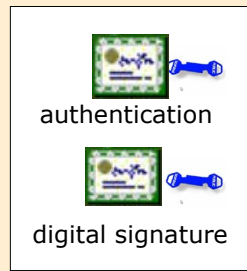
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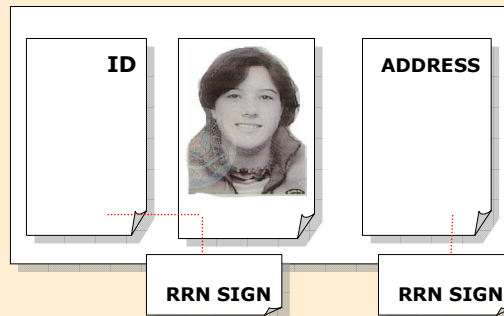


> Contents of the chip

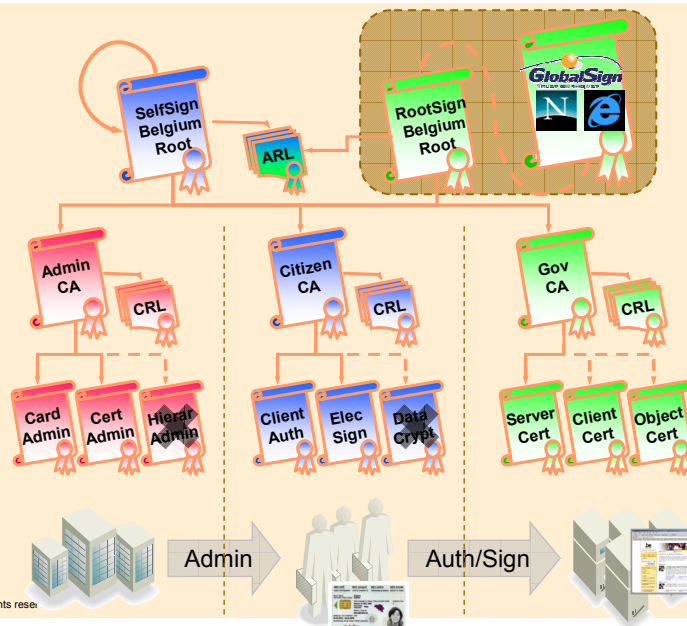
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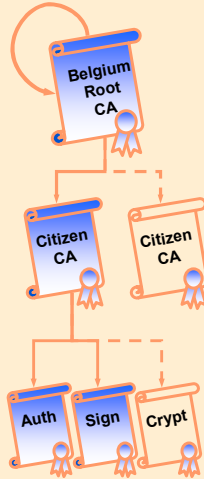
IDENTITY



> Trust Hierarchy



> Citizen's certificates & keys



- **Authentication Certificate & key pair (1024 bits)**
 - provide strong authentication (access control)
 - web site authentication
 - single sign-on (login)
 - etc.
- **Signature Certificate & key pair (1024 bits)**
 - provide non repudiation (electronic signature equivalent to handwritten signature)
 - Document Signing
 - Form Signing
 - etc.
- **(Encryption Certificate & key pair)**
 - foreseen at a later stage
 - private key backup/archiving