

Digital Identity Trends for citizens of the world

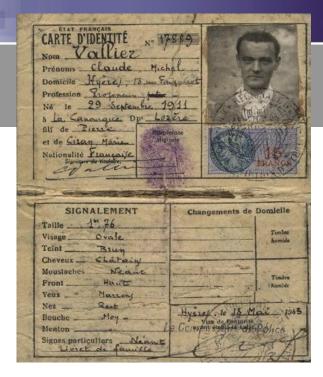
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ID Technical Facets

- Nothing new
 - French ID card 1920
- Too many informations
 - fingerprint, father name, ...
 - age, personal address, citizenship, ...
- Authorization not so much Authentication
 - allow to drive
 - allow to enter a country
- Often use outside of original context
 - Telecoms invoice for residential address proofing.





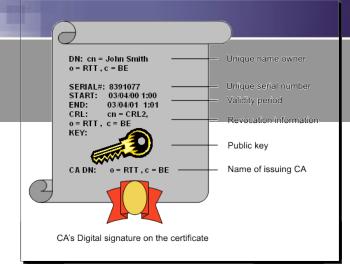
Digital versus Paper

Same fundamentals

- usually not so many secrets.
- when collected usually never deleted.
- want to keep information usage to what it has been collected for.

Key differentiators

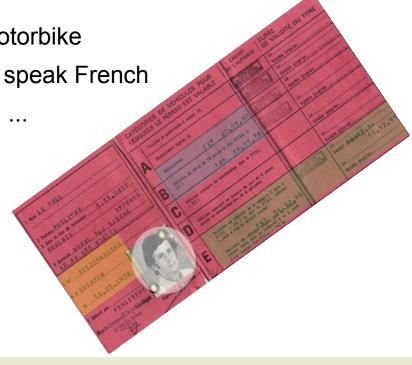
- easy & cheap mass analysis simple correlation research
- lack of stability: change too fast for basic human brain and legal framework.
- unlimited capabilities: Moving from what we can, to what is acceptable.





Inside Technical ID?

- Authentication: proof you're the one you claim to be
 - Biometric: picture, fingerprint, voice, ...
 - Secret: login/passwd, certificate, pin code, ...
- Attributes: define what you are
 - Authorization attributes: allow to drive a motorbike
 - Personalization attributes: preferred color, speak French
 - Group attributes: French citizen, Manager, ...
- Verification: proof this document is valid
 - Signature + Certificates
 - Date and place of issuance.
 - Validity time stamp.





Limits toward digital ID?

- Cost: cheaper and cheaper every days
- Legal: uncompleted or no support.
- Technology: constant evolution, wait or not?
- Interoperability: will the other follow me?
- Complexity:
 - level of change user can absorb
 - level of manageability

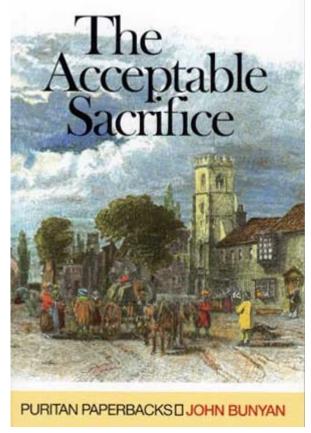




What is acceptable?

Differ from place to place, from user to user. ...

- D.N.A. for what ?
- Video cameras, where, how many?
- National ID mandatory ?
- Patriot Act ?
- Unique ID in every files?
- Global repository ?





Standards why and what?

Portability versus Interoperability

- Posix, Java, PHP,...
- TCP/IP, HTTP, SOAP,...

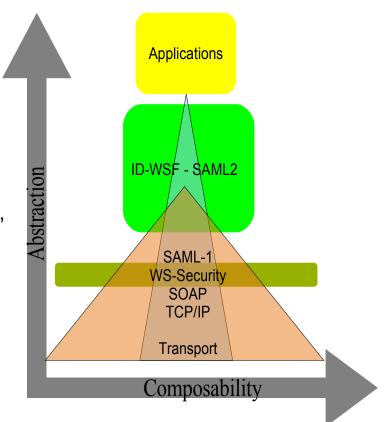
Cost of adoption

- legacy applications
- end-user adoption

Level Services provided

- transport: end to end, point to point, stream, broadcast
- security: encoding, authorization, authentication, legal compliance
- infrastructure: user schema, group management, discovery mechanism
- Compliance to legislation

•etc.





Legend:

Liberty Alliance standard External standard

Should we even know about this?

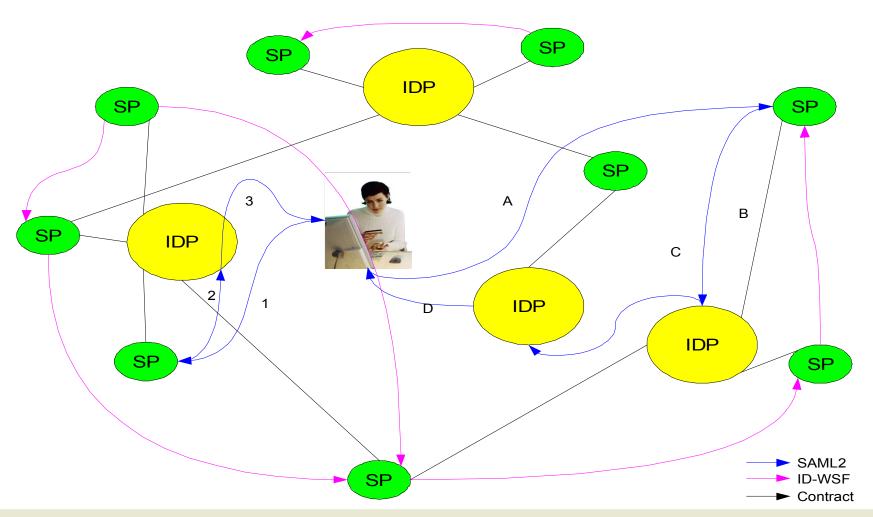


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Web-2.0 Federated Architecture





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http://www.projectliberty.org

http://www.sun.com