Some thoughts and visions on MyData, e-authorization e-government services and open API’s

22.09.2015 @kimmomaken
API’s extremely important for government

- Each year government has less and less money for ICT development
- Each year less and less human resources for ICT development
- Even if we would have unlimited resources would it be good idea for the nation to have government driven ICT development working within the government?
- What about market driven approach?
The big question

– Does the administration have to have implementation responsibility of the e-services from top to bottom?

– From database to application server and all the way to end-user interface. Now a days the government in most cases governs the whole software stack.
The current "old way" of producing eGovernment services
How the eGovernment world will look like in near future

Private Service X

Public Service Y

Government domain

API

Application server
E-government application API design principles

- For any new e-government service government agency must implement end-user UI utilizing API’s (build a website using your own API)
- API’s must be open and exposed to internet
- e-government application API must be open for private sector software
- Every human readable page / functionality must have machine friendly counterpart
A private e-service as an example of public & private co-operation
The user centric approach
Background

- eID-device = device that is recognized by the national (and EU) legislation for authenticating users
- Electronic Identity = in government context most often personal identification number, attached to eID-device
- Electronic signature = confirmation which states, what was confirmed, by who and when was this done
Background

- **Register** = government authorized register that holds information of natural or legal person
- **Role** = something I choose to be (citizen, entrepreneur, civil servant) or something I am explicitly (father of my sun, CEO of my company)
- **Authorization** = I am allowed to represent you. This authorization can be verified and is law binding.
- **MyData** = data of me (in the government context often related to base registers)
Case: sharing my data

- We need to have nation wide eID device infrastructure with federated network of trust (single-sign-on)
- We have services (public or private) that authenticate users using trusted eID-devices
- Government services retrieve base register data using Finnish version of X-road.
- Government should sign and timestamp all data attributes
- Citizens should have total control of the signed data and ability to share signed data
Case: authorizing the use of MyData

- We must create platforms that enable authorized use of MyData. The latest, upcoming platform will be Citizen’s View, the next version of Suomi.fi portal.

- Government should be using common industry standard technologies for e-authorizing like openID Connect / oAuth.

- The citizen must have total control over
  - what data he/she is sharing
  - for how long the data will be shared
  - to whom (private person or legal person) data is being shared
Omat tietoni

Henkilötietoni

Kumpulainen, Pauliina Johanna
010180-836B

Kotikunta: Vihti
Puoliso: Kumpulainen, Matti Johannes,
120978-5591
Lapsi: Kumpulainen, Onni Matias,
310813A55R

Kiinteistöni

Kiinteistön tunnus: 123-456-78-90
Kunta: Vihti
Omistusmuoto: Omistaja
Omistusosus: ¾

Lähde: Maanmittauslaitoksen kiinteistörekisteri

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Lähde: Äänestyspaikat rekisteri, oikeusministeriö

Aitoneuvon

Olet seuraavan ajoneuvon haltija:

Ajoneuvo: HHT-323
Nissan Micra
VM. 2006

Omistaja: Kumpulainen, Matti Johannes
Case: the new government e-service for official roles and authorizations

- Government will be offering a completely new service for both public and private e-services
- We must offer an open API’s for software developers, not just the end-user interface
- The information contained by the new services is either register based authorization data or power of attorney authorization data
- “Who authorizes” - use scenarios will cover both natural person and legal entity
- “Who is being authorized: natural person & legal entity & non-legal entity (for example refrigerator)
The eAuthorization onion for official roles and for official authorization

- Authorization
- Official role
- Personal Identification number or SATU
- eGovernment API
Few words on European regulation

- EU data protection directive
- Digital single market strategy
- Regulation on Electronic identification and trust services (eIDAS). Specifications are now final.
- The waiting room issues needs to be solved. Common Nordic solution is feasible.
- eIDAS act will present an interesting challenge to API’s
- An EU member citizen or company may be consuming Finnish government API’s. Provider of local API can no longer assume the user or the organisation is Finnish originated.
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- How can we build public & private co-operation success story
- Let’s not re-invent the wheel. Please, share with us any ideas, experiences and implementations you have on using authorized API’s.
- Develop and create prototypes using government API’s. Insist that government opens new API’s to it’s core systems. Do not give up ;)


Thank you!

@kimmomakininen