



# Building a portal for citizens in Norway with secure authentication and single sign on

Dag Efjestad

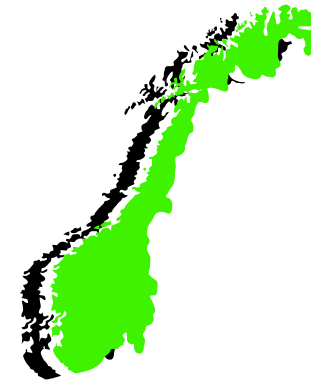
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# Agenda

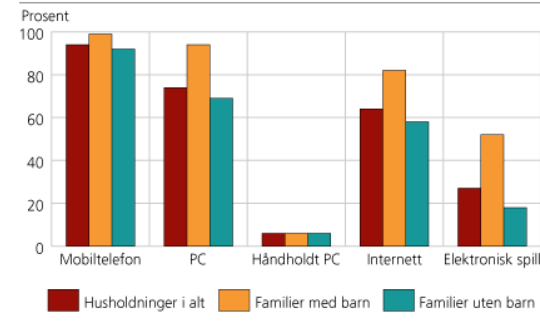
- Overview
- Authentication – ID
- MyID solution
- Integration with MyID
- MyPage

# Norway

- 4.600.000 citizens
- Everyone has an unique id
- 2005:
  - 75 % has a pc and 60% use it every day
  - 60 % has Internet access at home
  - 50 % has access to xDSL



Husholdninger med tilgang til IKT, etter familietype. 2. kvartal 2005. Prosent



## Public sector in Norway

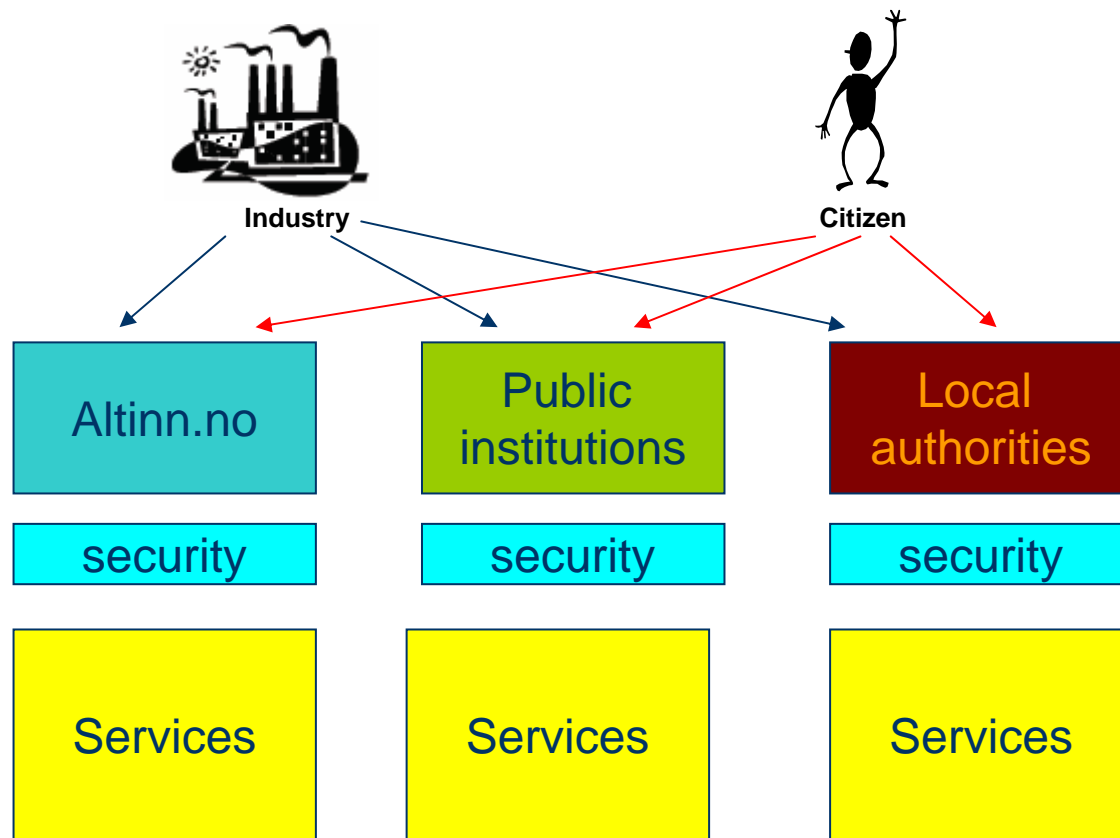
- About 1800 different organizations
- Three main levels
  - Local
  - Region
  - Central
- IT
  - Variations is size/complex/advanced
  - Often very independent institutions
  - Some common portals – Altinn/Region portals

## eNorway 2009

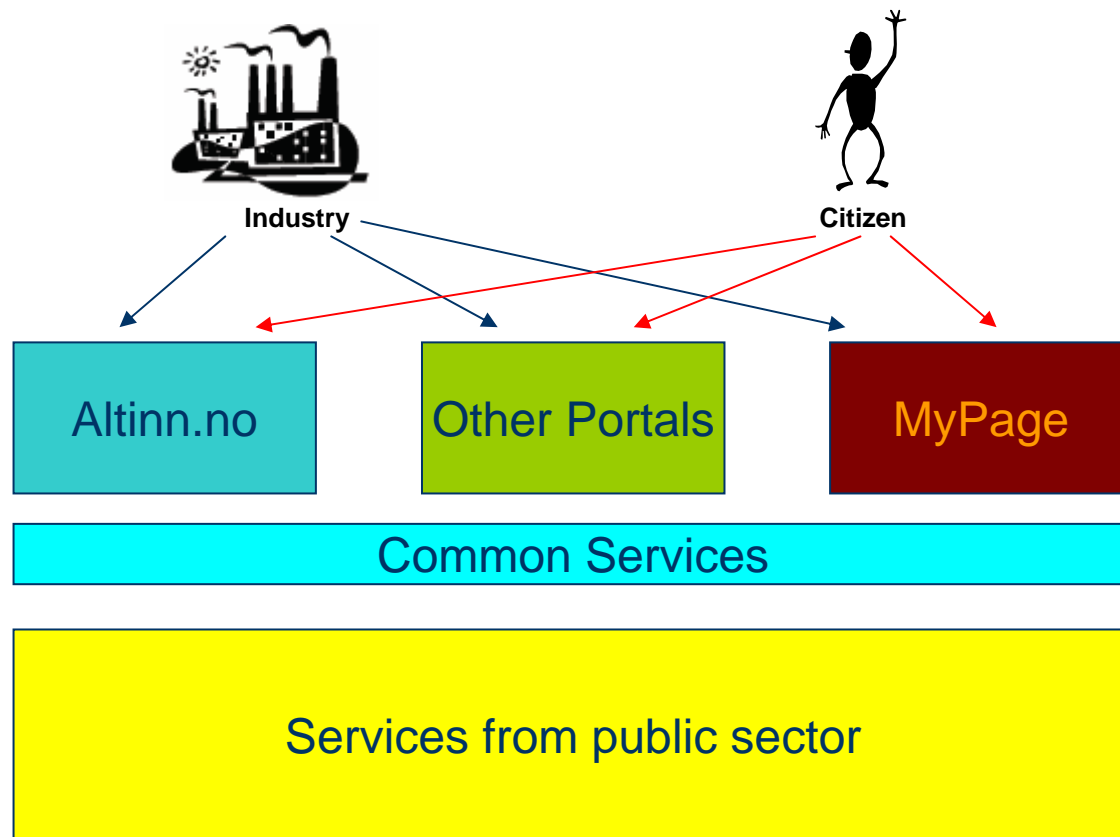
- All relevant public services shall be digital.
- Enable the vision of the digital citizen
  - From 2007 shall everyone be able to choose how to communicate with the public sector
- All services from the public sector shall be based on open standards
- During 2009. all public services will be available in MyPage



## Before MyPage ....



## After MyPage ...

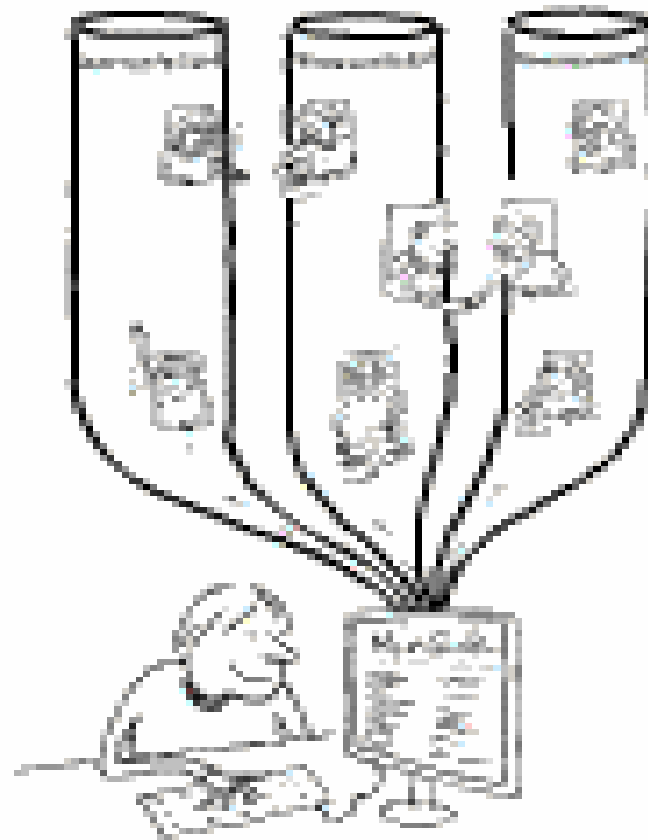


From ...





... to



## MyPage – makes the day for the citizen

### For citizens:

- Common portal – don't need to know public sector.
- Don't have to deal with different authentication mechanism
- Can get information about themselves that are registered in public sector

### For public sector:

- Get more digital services in public sector and easier marketing against the public.
- Establish common architecture and standards for public sector.

# Autentication



## What is available?

- PKI based solutions
  - BankID
  - Skandiabanken
  - Buypass – Tippekortet
  - SIM-card
  - ++
- Push vs Pull
- PIN code from TAX – Almost everyone 😊
- Almost everyone know have to use it
- Pushed out to over 3.5 mill.

## PIN Codes from TAX department

- TAX Form - printed out once pr year
- Each pin is 5 chars long
- 20 numbered codes pr TAX form
- We will establish an order service.  
Here we will have 100 codes pr order.
- Only used for login on to TAX dep. and MyID

NR	KODE	NR	KODE	NR	KODE	NR	KODE
1	63435	6	32344	11	89732	16	21213
2	32323	7	65672	12	43424	17	12933
3	54603	8	78377	13	86513	18	78146
4	32390	9	65456	14	56167	19	32948
5	45089	10	76893	15	76346	20	27189

## MyID and PIN Codes

- Only 1 pin code card/paper is active
- Yearly updates from TAX for all Norwegians
- Daily updates from TAX ordering service.
- Possible to disable a user/pin code

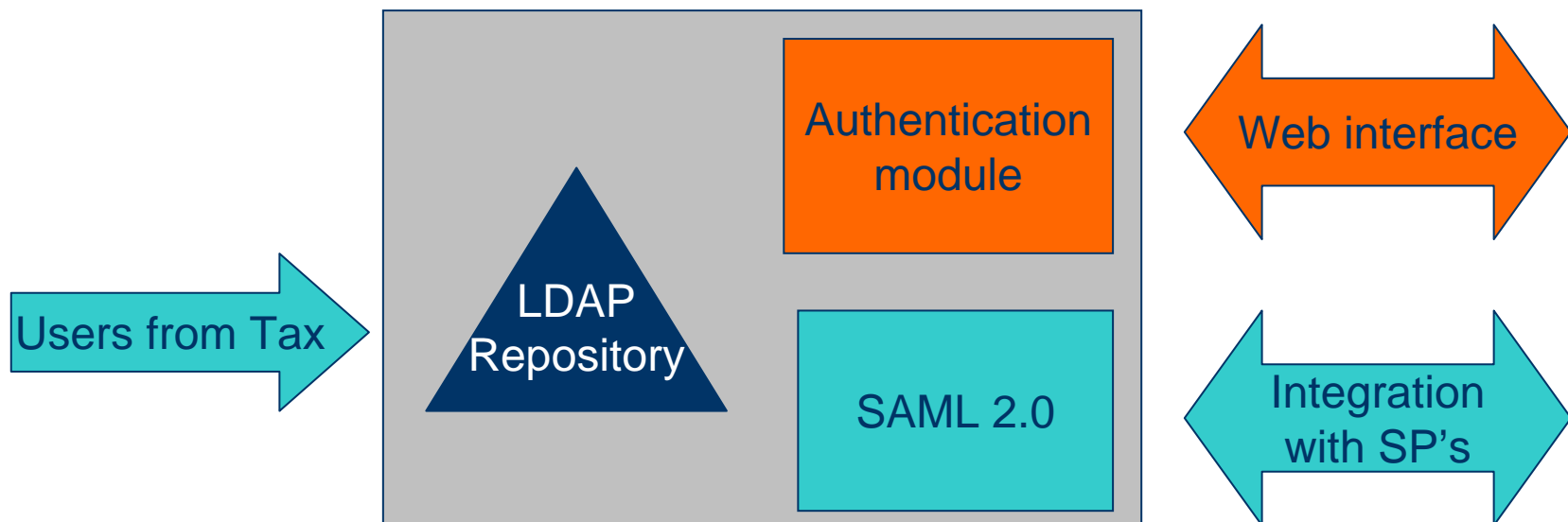
NR	KODE	NR	KODE	NR	KODE	NR	KODE
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# MyID solution



## MyID solution

### MyID





## What is Federated Identity ?

- “The agreements, standards, and technologies that make identity and entitlements portable across autonomous domains.”
- Burton Group, *Identity and Privacy Strategies Research Report* “*Toward Federated Identity Management: The Journey Continues,*” August 19, 2003.

## Federation Concepts

- Federation starts with a group of companies that agree to join together to exchange user authentication information and user profile information.
- The group forms a Circle Of Trust which centers around one or more one **Identity Providers** and number of **Service Providers**.
- These companies have related products to offer the customers in each of their databases.
- The union of the person's identity information in each of provider's databases is called the user's **federated identity**.

## Federation Concepts (continued)

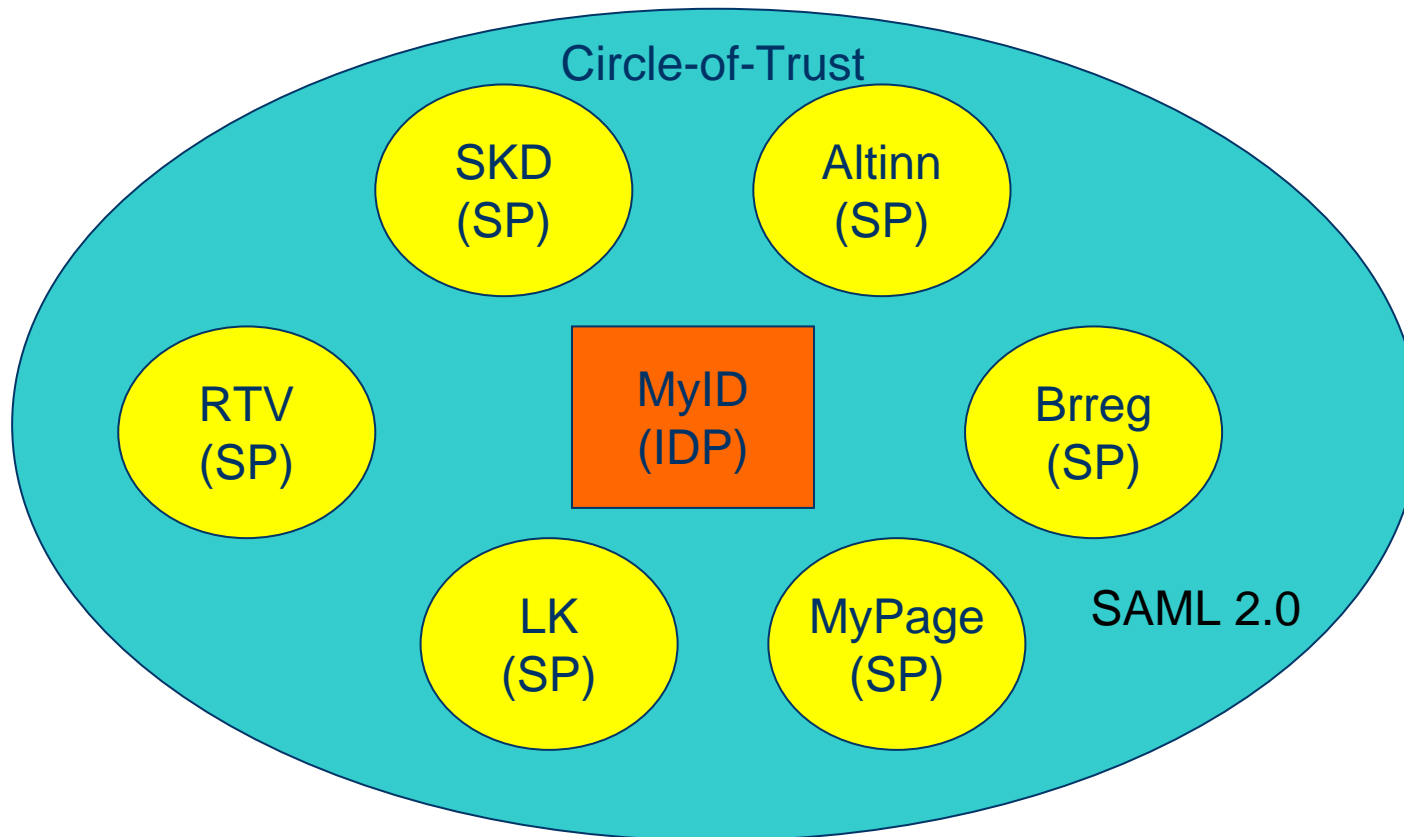
- Federated identity information is shareable amongst the members of the circle of trust, shareable under controlled policy restrictions.
- Federated identity allows Single Sign On (SSO): a user logs in to one of the service provider sites and can click through to another service provider part of the CoT without having to re-authenticate or reestablish their identity.
- Once logged in, a user can log off using single log off which logs the user off all the Federated web sites.

# SAML

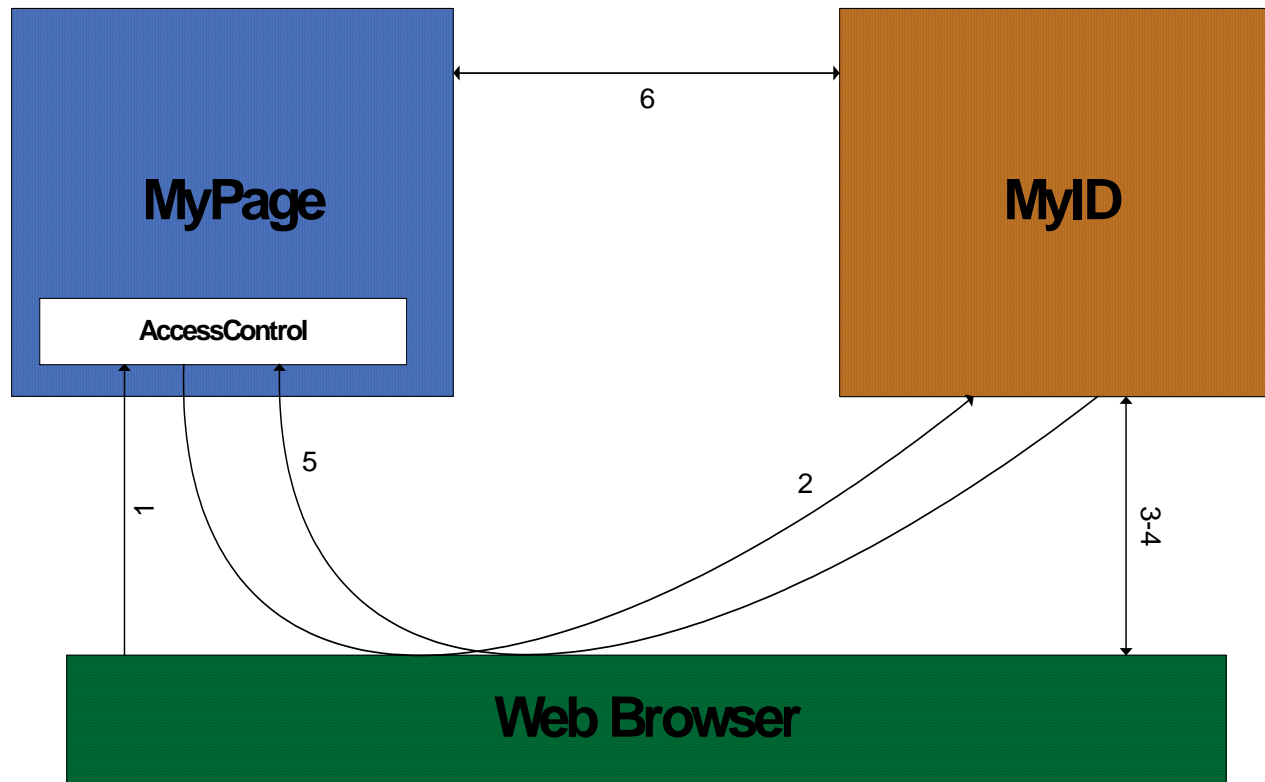
SAML is from OASIS: <http://www.oasis-open.org>

- The OASIS Security Services Technical Committee is in charge of defining, enhancing, and maintaining the SAML specifications
- SAML is an XML-based standard to enabled the exchange of security information between a security system such as an authentication authority, and an application that trusts the security system.
- Standard for communicating authentication, authorization and attribute information among members of a circle of trust.
- Allows organizations to securely send assertions between partnered organizations regarding the identity and entitlements of a principal (an example principal is a user).

# MyID



# Scenario



## Integrating with MyID



## Verification of products/suppliers

- Sun
- IBM
- CA
- Oracle
- Novell
- Software Innovation
- HP
- Kantega



## How to ?

1. Must have a transaction service in MyPage
2. Establish an agreement with norge.no
3. Install and configure an infrastructure for acting ServiceProvider – SAML 2.0
4. Establish and verify an connection against the MyID verification environment.

## Documents

- Design guide
- Implementation guide
- Verification process
- Agreement



MyPage





(Skriv inn søkeord)

**SØK**

## Nettstedskart Forside

### » Arbeid

Min status hos Aetat

### » Bolig og eiendom

Melde flytting [ > ]

Min adresse

Mine eiendommer

### » Forbruker

Reservasjon mot adressert reklame og telefonsalg [ > ]

### » Helse

Bestille helsetrygdkort [ > ]

Bytte fastlege [ > ]

Min fastlege

### » Skatter og avgifter

Bestill frikort [ > ]

Bestill kopi av skattekort [ > ]

Endre skattekort [ > ]

Status bestilling av skattekort/frikort [ > ]

### » Skole og utdanning

Kontobevegelser studielån [ > ]

Mitt studielån [ > ]

Neste terminbeløp studielån [ > ]

Omgjøring av studielån [ > ]

Studielånbeløp til selvangivelsen [ > ]

Søknad om betalingsutsettelse studielån [ > ]

### » Trafikk

Mine kjøretøy

### » Trygd

Bestille pensjonsberegning [ > ]

## Mine kjøretøy

Du er her: [Forside](#) > [Mine kjøretøy](#)

**Hjelp**

Følgende kjøretøy er registrert på deg hos Statens vegvesen

Kjennemerke	Merke	Modell	Registreringsår	Eierforhold	Status
PP 25847	SEAT	TOLEDO	1998	REGISTRERT EIER	

Vis flere detaljer om dette | Utskriftsvennlig visning

### Kontaktinformasjon for eier av tjeneste

- Henvendelser vedrørende dine personlige opplysninger retter du til Statens vegvesen. Telefon: 0 66 50 E-post: [kontaktsenteret@vegvesen.no](mailto:kontaktsenteret@vegvesen.no)

⚡ **Vis relevant informasjon utenfor MinSide**

SIGRUN KONGSRUD er logg

Sist pålogget:

8. mai 2006 09:40

**LOGG UT**

### Mine meldinger

Meldingsboks

<<	<b>2006</b>	>>					
<<	<b>mai</b>	>>					
	ma ti on to fr lø sø						
18	1	2	3	4	5	6	7
19	8	9	10	11	12	13	14
20	15	16	17	18	19	20	21
21	22	23	24	25	26	27	28
22	29	30	31				

### Viktige datoer

03.05.06 Test

### Min kommune

Leikanger kommune [ > ]

Postadresse: 6863 Leikanger

Besøksadresse: Skrivarvege

E-post: [Send e-post](#)

Telefon: 57 65 56 00

Telefaks: 57 65 56 08

(Skriv inn søkeord) **SØK**

**Nettstedskart  
Forside**


- » **Arbeid**  
Min status hos Aetat
- » **Bolig og eiendom**  
Melde flytting [>]  
Min adresse  
Mine eiendommer
- » **Forbruker**  
Reservasjon mot adressert reklame og telefonsalg [>]
- » **Helse**  
Bestille helsetrygdkort [>]  
Bytte fastlege [>]  
Min fastlege
- » **Skatter og avgifter**  
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Søknad om betalingsutsettelse studielån [>]
- » **Trafikk**  
Mine kjøretøy
- » **Trygd**  
Bestille pensjonsberegning [>]

https://www.altinn.no - Altinn - Skjemautfylling - Microsoft Internet Explorer

Fil Rediger Vis Favoritter Verktøy Hjelp

altinn - enklere rapportering til det offentlige

Til [Hovedside](#)

**RF-1400 Melding til folkeregisteret om flytting innenlands** 

Skjema Vedlegg

**Sider i skjemaet:**

- » **Generell informas...**
- » [Ny bostedsadresse](#)
- » [Postadresse](#)
- » [Personer som flyt...](#)
- » [Kontaktinformasjon](#)

**Generell informasjon**  
Følgende opplysninger er registrert i folkeregisteret

Navn	KONGSRUD SIGRUN
Bostedskommune	LEIKANGER
Bostedsadresse	RIVERDALEN 7
	6863 LEIKANGER

**Type flytting og flyttedato**

Meldingen gjelder flytting  Innen nåværende kommune  
 Til annen kommune

Kommune

Flyttedato   
Må alltid fylles ut

6863 Leikanger  
e: Skrivarvege  
e-post  
5 56 00  
5 56 08

Version 1.0.0.7 - 10.02.2006

Internett

## Services on MyPage

- Access to information like: My Vehicles, My properties...
- Access to services like: apply for health card, apply for child support, apply for driver license.....
- Information about my community
- Messages from public sector
- Important dates

## Service types on MyPage

- Transaction service
  - Url to a service on another site with SSO.
- Data retrieval service
  - Webservice which retrieve data of the citizen
- Message service
  - A citizens mail box on Internet for public sector
- Calendar service.
  - Public and personal events



## Transaction service

- Url to another web site with SSO
- Language support
- WAI requirements
- Future:
  - Transaction services with web services
  - WSRP?



## Data retrieval service

- Standardized web service call.
  - WS-I Basic Profile 1.1
  - Only read
  - Secured by VPN
  - XSL – Detail view, Summary view, print view, filtering
  - Standardized XSD for calling and errors
  - SERES?

## Data retrieval service (Continued..)

- Future:
  - Liberty ID-WSF?
  - Not secured by VPN but WS-S
  - WS-I Basic Security profile 1.0
  - Common registry UDDI/ebXML
  - Use of a common tool and repository for creating schemas. (SERES?)
  - Also transactions

## Messages

- Based on ordinary e-mail
- Also support structured messages (XML)
- SMS and e-mail alerts
- SSL/TLS (STRATLS)
- Future:
  - web service based?

# Messages - XML

## Vis melding

Du er her [Forside](#) > [Meldingsboks](#) > [Vis melding](#)

SKRIV NY LAGRE SLETT AVBRYT FLYTT  ▼ HJELP

Mapper  
[Meldingsboks](#)

**Avsender:** Oslo kommune  
**Tittel:** Kvittering på søknad om barnehageplass  
**Dato:** 01-02-2006 12:45  
**Referanse:** OK938451 → Referanse til sak

Du sende inn søknad 29.01.2006.  
Dersom du ønsker å se på innsendt søknad eller endre på opplysninger kan du klikke på linken under som vil åpne nytt vindu med utfylt skjema.

[Søknad om barnehageplass](#)

→ Åpner transaksjonstjenesten  
"Søknad om barnehageplass"  
med referanse OK938451

↑ Vis relevant informasjon utenfor MinSide:

[Barnehager i din bydel >](#)  
[Dine rettigheter >](#)

→ Relevant informasjon i  
Melding

[Utskriftsvennlig visning](#)

# Messages - XML

**Vis melding** **Svar**

Du er her [Forside](#) > [Meldingsboks](#) > [Vis melding](#) Du er her [Forside](#) > [Meldingsboks](#) > [Svar](#)

**SKRIV NY** **SVAR** **LAGRE** **SLETT** **AVBRYT** **FLYTT**  **HJELP** **SEND** **AVBRYT** **HJELP**

**Mapper**  
[Meldingsboks](#)

**Avsender:** Vegdirektoratet  
**Tittel:** Du må fornye førerkort  
**Dato:** 01.02.2006 12:45

Ditt førerkort av type G går ut 03.04.2006 og må fornyes.  
Ta kontakt med din Vegdirektoratets kontor i Oslo.

**Svar på:** Du må fornye førerkort  
**Mottaker:** Vegdirektoratet  
**Tittel:**

**LASTE OPP VEDLEGG**

[Utskriftsvennlig visning](#)

## Email catalogue

- Possible to retrieve email addresses with LDAPS.
- The register shows only registered users of MyPage

## XFORMS

- Rendering of XFORMS schemas
- Use external schema repositories
- Delivery of schema with email, web service or http to the service provider.

## MyPage/MyID – software

- Sun JES
  - Portal server
  - Access manager
  - WebProxy med SSL
  - Application Server
  - Mail server
  - Calendar server
  - Directory server
- Fatwire Spark Web Content management



# Questions

