



**IRMA for municipalities:
issuing and verification of attributes**

Introduction

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Topics

- Digital identity for municipalities
- Why looking at Irma
- Irma use cases for Nijmegen
- Issuing attributes
- Irma infrastructure @ Nijmegen
- Demo with screenshots
- Our plans & problems to solve

Digital identity for municipalities

- ~ 100 different digital entry points for citizen services
- Authentication through DigiD (national digital identity solution for government)
- After successful authentication the identity provider issues a BSN
- BSN is a key to retrieve additional information

Why looking at irma

- Digid has some disadvantages:
 - €0,25 per authentication
 - Not privacy friendly
- Mandatory use of Idin; privacy unfriendly
- Position paper on digital identity
 - Written by VNG (association of Dutch municipalities)
 - Describes need for a digital identity, consisting of 3 elements
 - Identification and authentication in all contexts (websites, phone, fysical contact, etc)
 - Signing of documents or transactions
 - Citizen is owner of one's own data
 - Central government should facilitate this digital identity (in line with analog situation)

Irma use cases for Nijmegen

- Webforms with validated 'prefill', with less information (only address, no bsn)
- Signing (birth registration; parents fill form, doctor signs, municipality trusts irma signing)
- E-form / webapp environment without DigiD but with strong certainty about (some) attributes

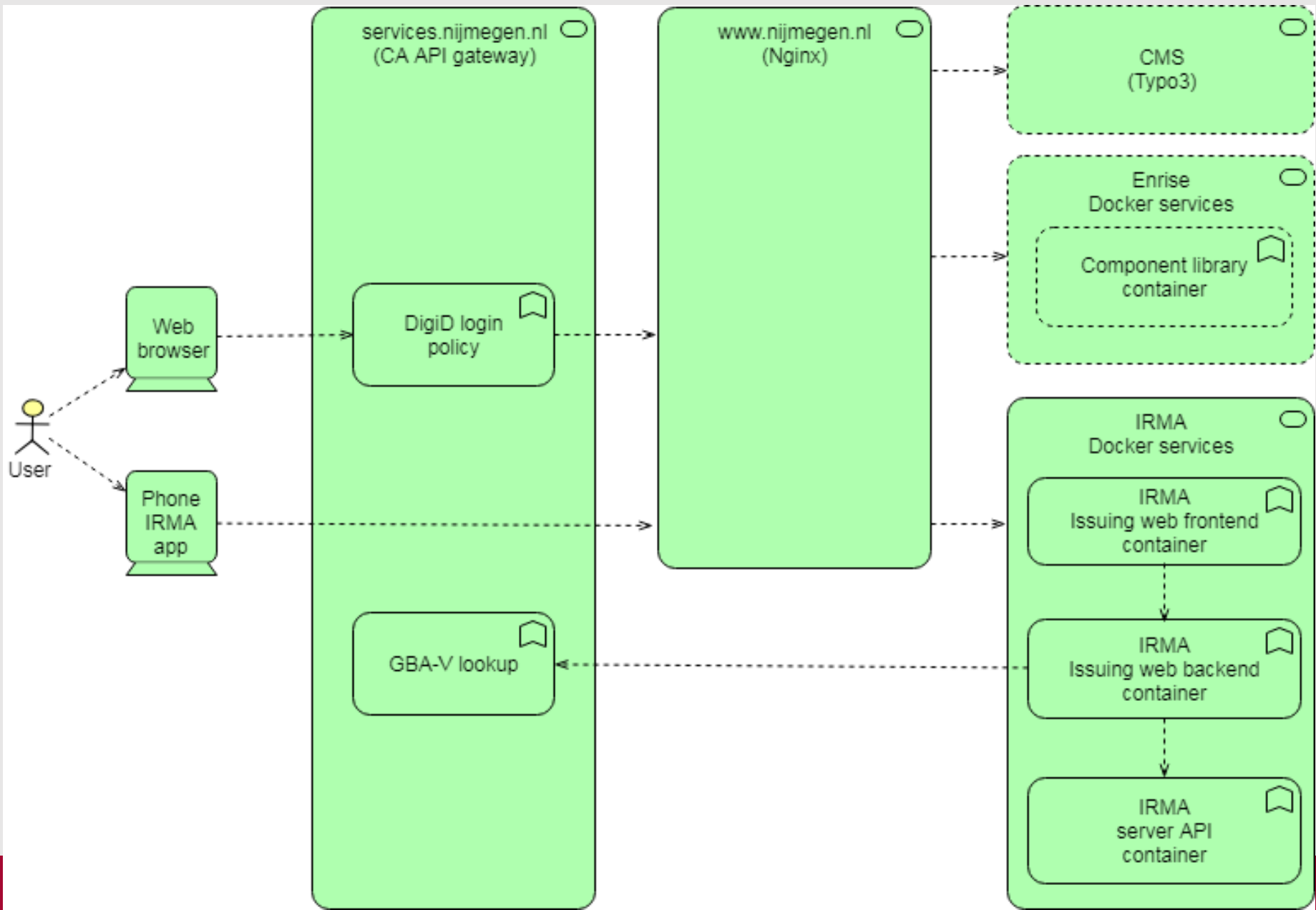
Issuing attributes

- We use our own api server
- Issuing based on principle that citizen owns his/her own data
- Authentication with DigiD ;-)
- New scheme (with Sietse)
- Timen helps out with webfrontend
- Issuing page retrieves data through an api from BRP, api also calculates age limits

Not more info than currently possible

- When you have a DigiD account you can retrieve your own attributes
- We probably will use ‘DigiD midden’; sms or DigiD app is required to login to issue attributes
- We rely on the DigiD security mechanisms for authentication before issuing attributes
- It’s up to the serviceprovider, as it is now with Digid, to accept an attribute (or not), and to retrieve/show information based on that attribute, as it is now

Our infrastructure



Uitgifte van BRP-attributen

Scan de QR code



Scan de QR-code met de IRMA app om de credentials te ontvangen.

Over deze site

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Contactgegevens

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 14 024

 gemeente@nijmegen.nl

 [Gemeente Nijmegen](#)

 [@nijmegen](#)

Receive attributes

? Receive these attributes?

nijmegen wants to issue attributes to you. If you accept, you will receive 19 attributes in 4 credentials.

Please review the attributes below.

IRMA Demo Address
Expires on 30 May 2019

Street	Zuiderparklaan
House number	12
Zip code	2574 HA
Municipality	's-Gravenhage
City	's-Gravenhage

X Demo Age limits
Expires on 25 May 2023

Over 12 yes

Receive attributes

Over 65 yes

IRMA Demo BSN
Expires on 25 May 2023

BSN 304661818

IRMA Demo Personal data
Expires on 25 May 2023

Initials	R.
First names	Rozen
Prefix	
Family name	Groeman
Full name	Rozen Groeman
Date of birth	09-09-1947
Gender	Man
Nationaliteit	Nederlandse

Our plans

- Currently this proof-of-concept with issuing form BRP
- Gathering issues and feedback, technical, functional, political
- Address those issues that are blocking for a production version



- The chicken: Issue real-life BRP data with IRMA
- The egg: Start designing sites/apps which use IRMA attributes



- Presentation on e-id congress 7 juni (Sietse and Nijmegen colleague)

Some problems to solve

- Scaling / roll-out to other municipalities or 1 issuing instance, but discussions on costs
- Implementing own api server harder then expected (mostly hurting our pride)
- GBA specific issues (weird birth-dates, leads to problems with calculation of age identifiers)
- Some inconsistencies in attribute naming IRMA vs BRP

