

Quick introduction to IRMA and overview of new developments

Sietse Ringers

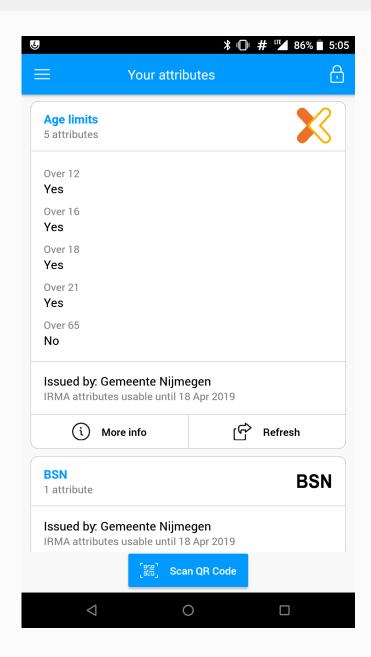
IRMA lead developer

Privacy by Design Foundation

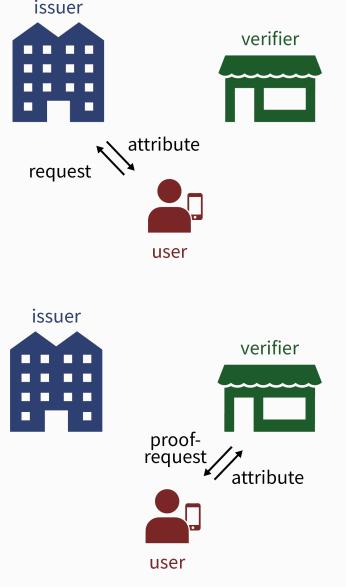
March 8, 2019

(Re-)introduction to IRMA





- Attributes instead of identity
- Collected by user
- Attributes are digitally signed by trusted issuer
- Identifying (name) or not (> 18)
- Multiple disclosures are unlinkable
- Decentral: attributes are stored only on phone
- IRMA PIN to unlock app & attributes
- Free and open source



Awards



- Dutch Privacy award
 2018
- Stichting Privacy First
- NEDERLANDS PRIVACY AWARD

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- Brouwer award 2018
- Koninklijke Hollandse Maatschappij der Wetenschappen

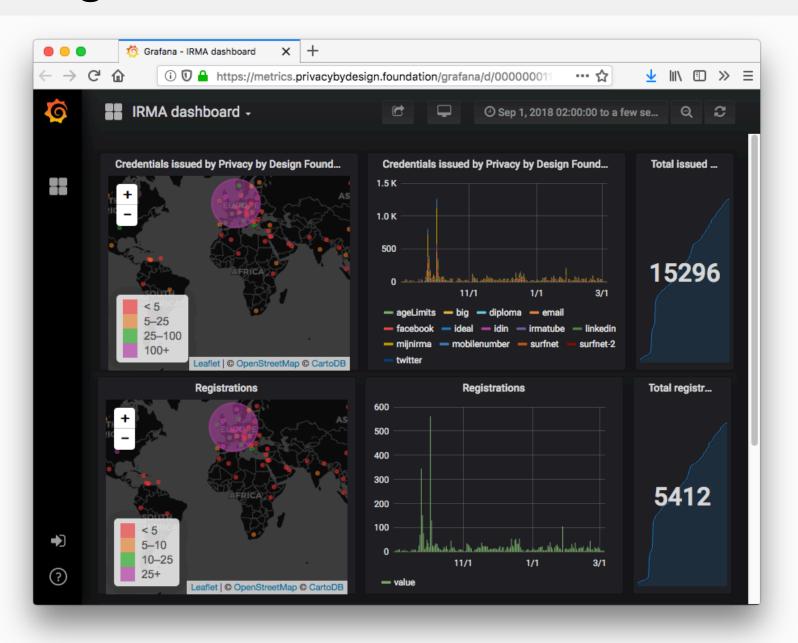


- Internet Innovation Award 2019
- Internet Society
 Nederland



IRMA usage



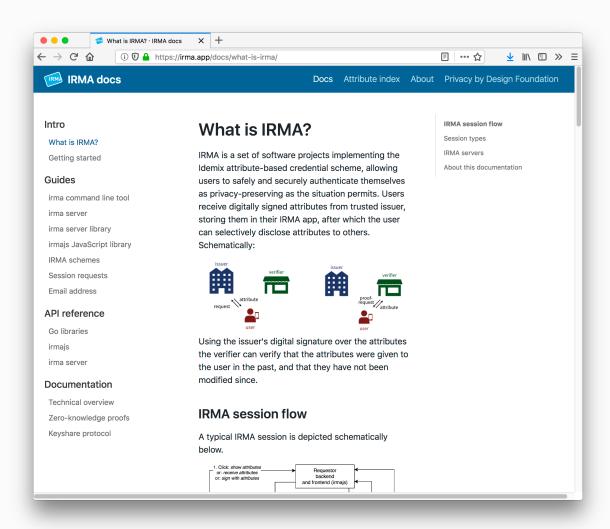


IRMA for developers



- Releasing new IRMA server, related software, and documentation
- Focus on developer friendliness
 - Easy to understand and use
 - Conventional and modern API familiar to developers
 - Dropping legacy
 - Accompanying technical documentation:

https://irma.app/docs



New IRMA software



- irma: a single command line tool IRMA scheme mgmt, key generation, session testing, and more
- irma server: IRMA server subcommand
 - Easy to install (single binary) and experiment with
 - Easy to configure; default configuration immediately usable
 - More versatile; developer-friendly API
 - Better and more logging
 - More efficient/scalable
 - Also available as Go library; other languages will follow
- New JavaScript library irmajs
 - Modern JavaScript with smaller/simpler API
- IRMA developer documentation: https://irma.app/docs

Projects and collaborations



- Healthcare sector:
 - Ivido
 - Nuts
 - VGZ
- Municipalities:
 - Whitelabel BRP attribute issuance
 - Nijmegen: fill form with attributes & call-me-back IRMA signatures
 - Haarlem, Almere, Leiden: dashboard in city hall issuing passport attributes (eIDAS high)
 - Haarlem: log in with IRMA
- SIDN

More information



- Website: https://privacybydesign.foundation
- Source code: <u>https://github.com/privacybydesign</u>
- Technical docomentation: <u>https://irma.app/docs</u>
- IRMA Slack (ask for invite)

- Twitter:
 - https://twitter.com/irma_privacy

