



# Mobility in Healthcare

Easy access and control of medical information

## Secure Identification in Healthcare

The UZI-card is a chip card issued to all healthcare professionals qualified to practice in The Netherlands (about 400,000), containing various information about the holder, such as his name, photo, expertise and the hospital in which he works.

The chip of the card has cryptographic capacities and it includes 3 different digital certificates (one for authentication, one for digital signature and one for encryption).



## Challenge of mobility

Taking advantage of the huge base of PKI cards which are now in the hands of professionals, several Dutch healthcare institutions began immediately to take advantage of cards to improve their internal processes, whether to authenticate users in their systems, digital signature of all the medical acts or for securing communication between medical professionals.

Despite all the immediate benefits of this adoption, its main impact was within the organizations where, to use their cards, the professionals depended on physical workstations with a connected reader.

Likemostorganizationsnowadays, the healthcare institutions need to find appropriate solutions to support mobility scenarios, considering that healthcare professionals outside the facilities (day off, traveling, etc.) may need to access and intervene safely with the systems of the institution. In such cases it is possible that professionals are not in possession of their computer, though it is almost certain they will carry their smartphone / tablet, of which most users never separate. A challenge is that the use of a cryptographic card in a mobile device lacks a suitable and easily portable reader.



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# Medischegegevens & ConsentID

## Medischegegevens.nl

The portal “Mijnmedischegegevens.nl” (“My Medical Data” in English), gathers information of the electronic medical records of the Dutch citizens. To facilitate its use in mobility, the desired solution would have to meet the following requirements:

- Enable easy, safe and friendly access for patients and healthcare professionals;
- access to the portal should be carried out from any operating system without installing any specific software (drivers, middleware, etc.);
- patients should authenticate with a certificate in software, which should be automatically embedded in their smartphone/tablet after a simple registration process and verification of identity;
- healthcare professionals should authenticate with their UZI-card digital certificate, connected to their smartphone/tablet via a cover with embedded card reader (available for iPhone/iPad) or other external reader (available for iOS and Android);
- communication of the users with smartphone/ tablet should require only an Internet connection, without implying any communication costs;
- the solution should be easily and quickly integrated into the portal (which was already developed), isolating it from

the inherent complexity of managing digital certificates, the creation/verification of digital signatures and management of the equipment used by each user.

## ConsentID

The ConsentID Identity Provider solution adopted by the portal “Mijnmedischegegevens.nl” meets all the requirements and allows the smartphone/tablet of the user to be the key that unlocks any authentication process or digital signature held on his name.

For this, it is sufficient that the user confirms his intention by introducing the PIN on the device.

Additionally, the professionals can get the possibility to equip their smartphones/tablets with an App capable of using their UZI card to encrypt the information that needs to be protected (email, calendar, contacts, documents, etc.) only accessible by entering the respective PIN.

As result, the management of the portal obtains several benefits such as:

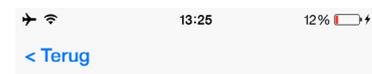
- Elimination of costs for authentication equipment (OTP, etc.);
- support for creating digital signatures, generating a voucher with legal/ evidentiary value of each relevant operation performed on the

system;

- reducing costs of IT support (due to no longer needing to unlock user passwords, install applications/plugin on their workstations, etc.);
- greater facility in obtaining an information security certificate (ISO 27001).

On the other hand, users also had to gain with this implementation, which brought them the convenience to access and intervene in the portal:

- With a high level of security;
- even if they are outside the organization (for example, medical emergencies, remote medical consultation, confirmation of another doctor’s diagnosis, etc.);
- from any system (PC in a hotel, etc.) without any risk of being a victim of viruses, trojans, etc. which may have infected it.



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