

PKI in Danish Healthcare

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Danish health care IT

- MedCom
 - The Danish Centre for Health Telematics
 - Coordinating organization for healthcare in Denmark
 - Manages Danish Health Data Network
- National Board of Health for Denmark
 - Developed the data model and terminology server for the system
 - Leads health IT strategy
- Ministry of Science, Technology, and Innovation (MTVU), Denmark
 - Develops technical standards
 - Has recommended a standard for Service-Oriented Architecture (SoA) identity federation to be used in various Danish systems

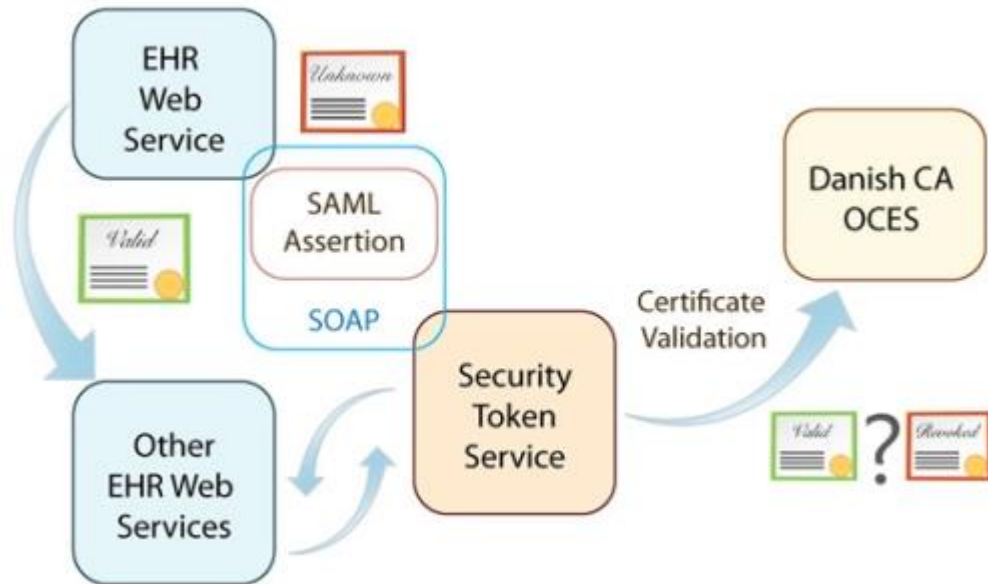
Connected healthcare sector

- The National Board of Health provides connected healthcare sector by implementing a nationwide SoA for the secure sharing of data
- Healthcare professionals have access to all relevant HER data regardless of where citizens seek treatment
- Denmark has robust broadband access
- Hospitals use electronic medical records

PKI in Denmark

- Denmark has built its PKI on top of existing Virtual Private Network (VPN)
- SAML has been selected as the framework for identity federation and the exchange of authentication assertions
- Healthcare professions are issued DanID, a X.509 certificate from Danish OECS CA

User authentication in Danish health system



- User authenticates as a part of login to local HER system
 - A digitally signed SAML assertion – virtual health professional identity card is created
- Central security token service (STS) validates digital signature
- STS signs the SAML token and sends a response to the local system – token expires in 24 hours

Lessons from Denmark's system

- Uses existing infrastructure and technologies
- Adopted open standards and technologies