

SAML and XACML in Swedish healthcare

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Background

- BIF: Base Services for Information Provisioning
 - Tender-bidding initiated by the Swedish Medical Care Advice Service
 - Goal: common IT-solutions for electronic patient records
 - e.g. common choice of technologies for future security services
 - Based on standards

Background ctd

- Goals for BIF services
 - Reliable access for authorised personnel
 - Protection against unauthorised disclosure
 - Integrity protection
 - Audit trail supporting non-repudiation

Even more Background

- Required services
 - Authentication and Authorisation
 - Care relation certification
 - Patient consent certification
 - Patient-data release
 - Secure patient context
 - Logging and Log analysis
 - Notifications

Some specific requirements

- Authentication
 - Use X.509 for authentication
 - Use SAML for identity federation
- Authorisation
 - Use XACML

Overview - typical use-case

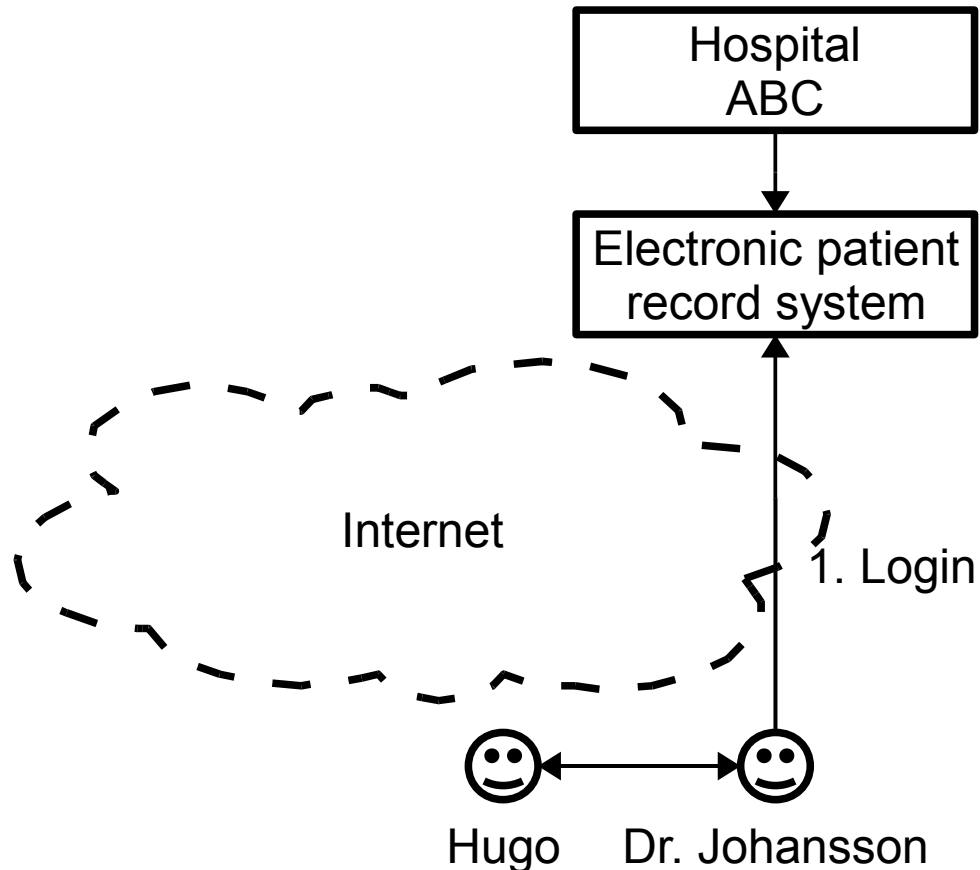
■ Actors

- Hospital *ABC*, provides electronic patient record system
- *Dr. Johansson*, connected to *ABC*
- *Hugo*, New patient
- *Hospital XYZ* , H.'s previous care centre

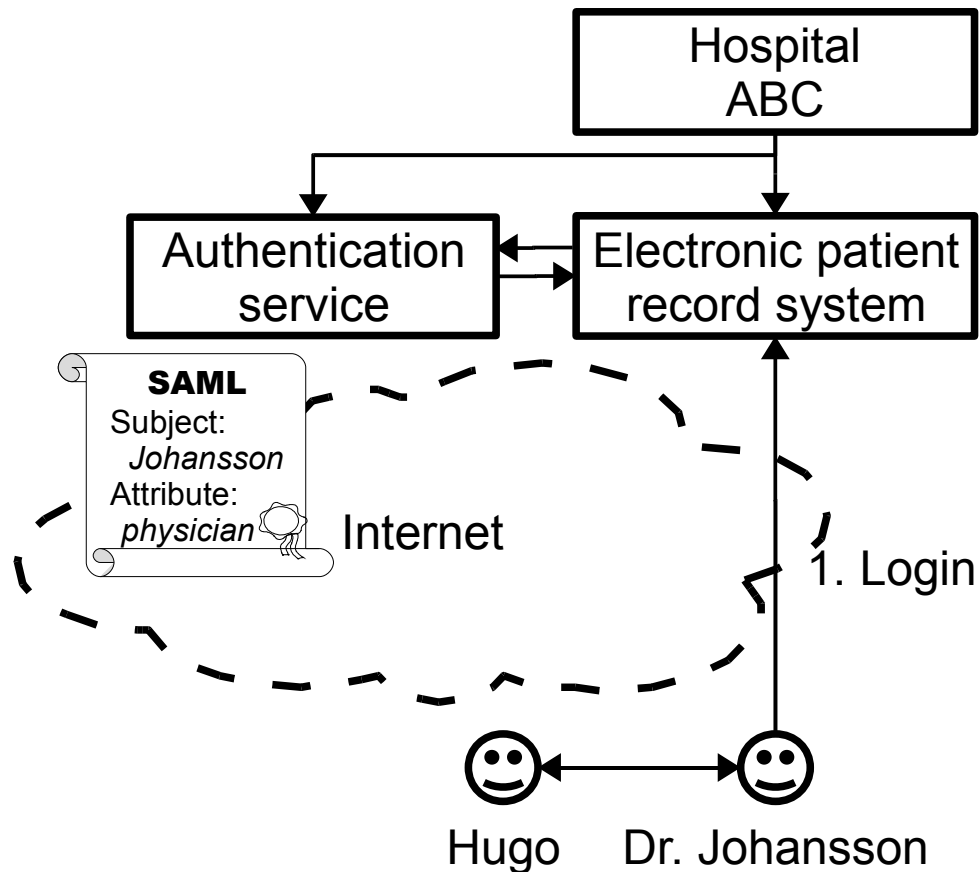
■ Scenario

- Transfer of electronic patient records

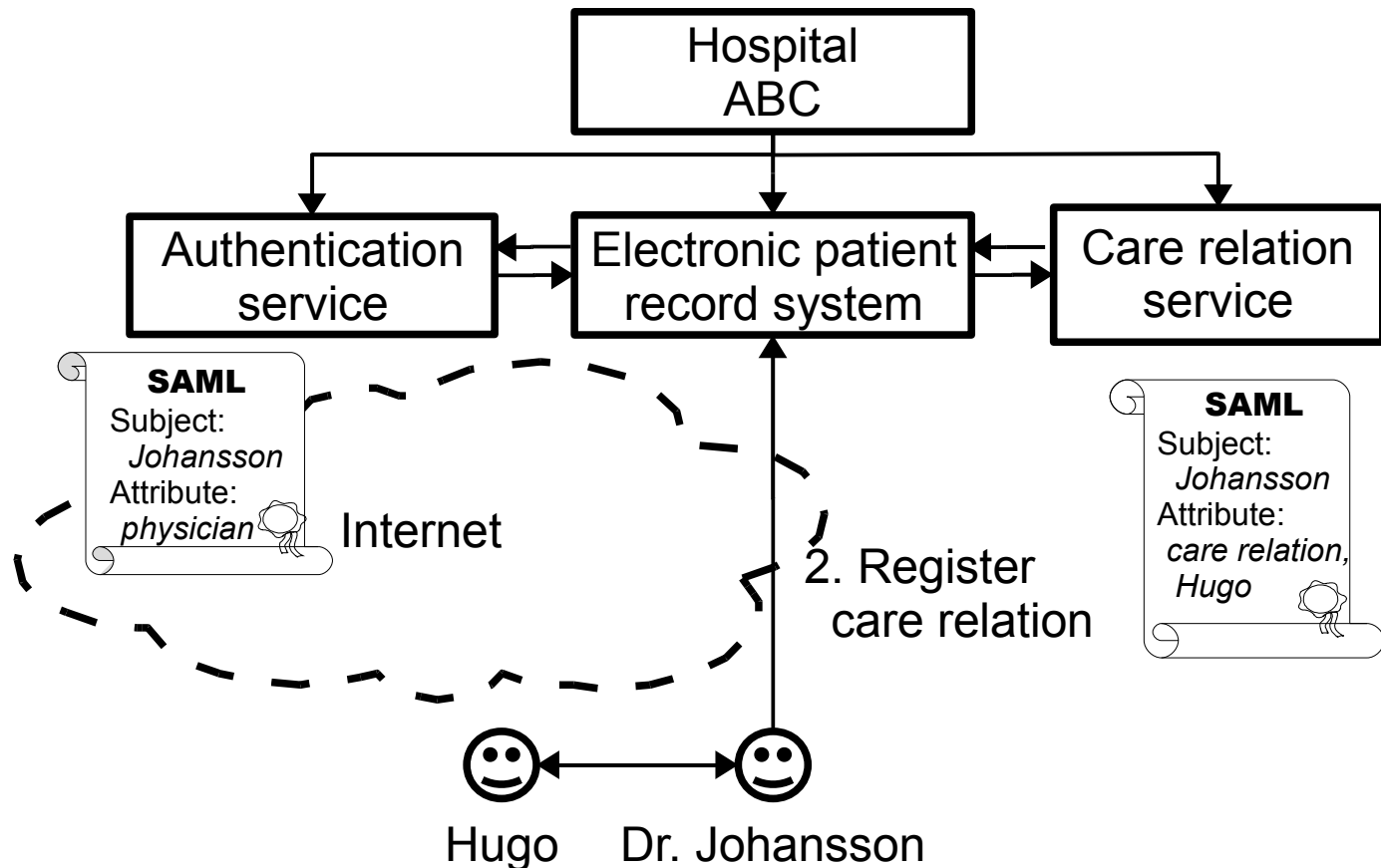
Typical use-case



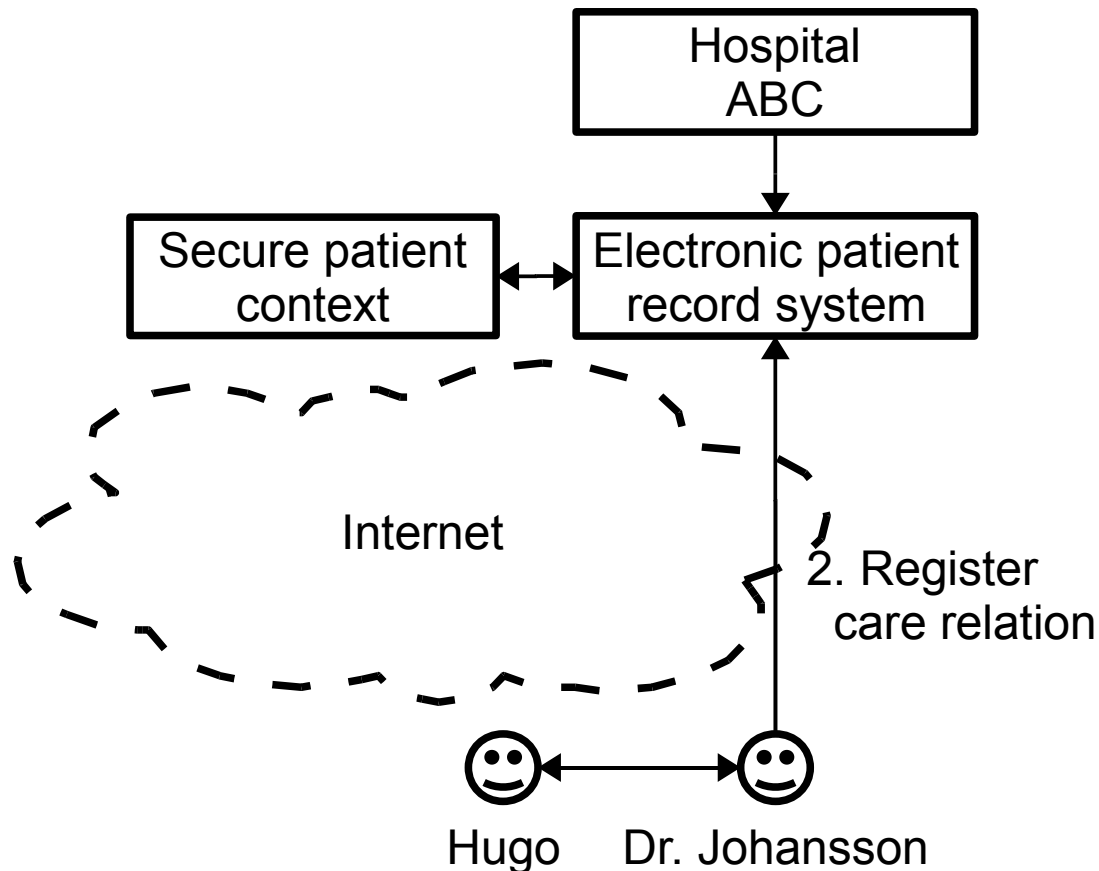
Typical use-case



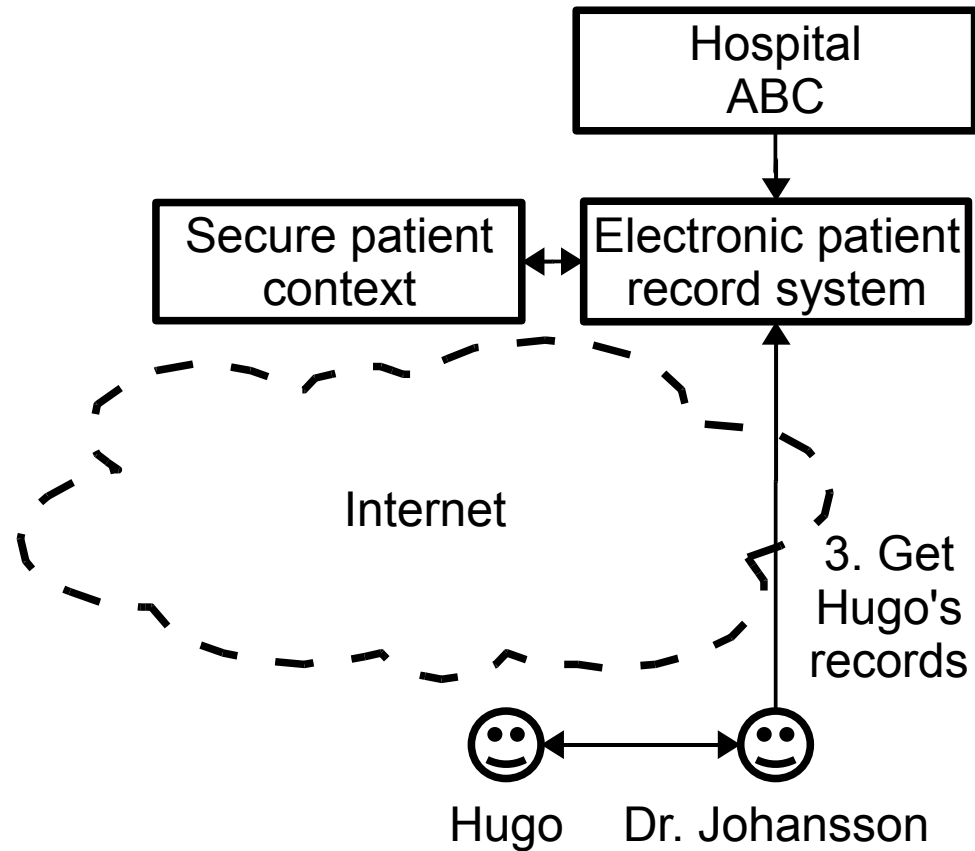
Typical use-case



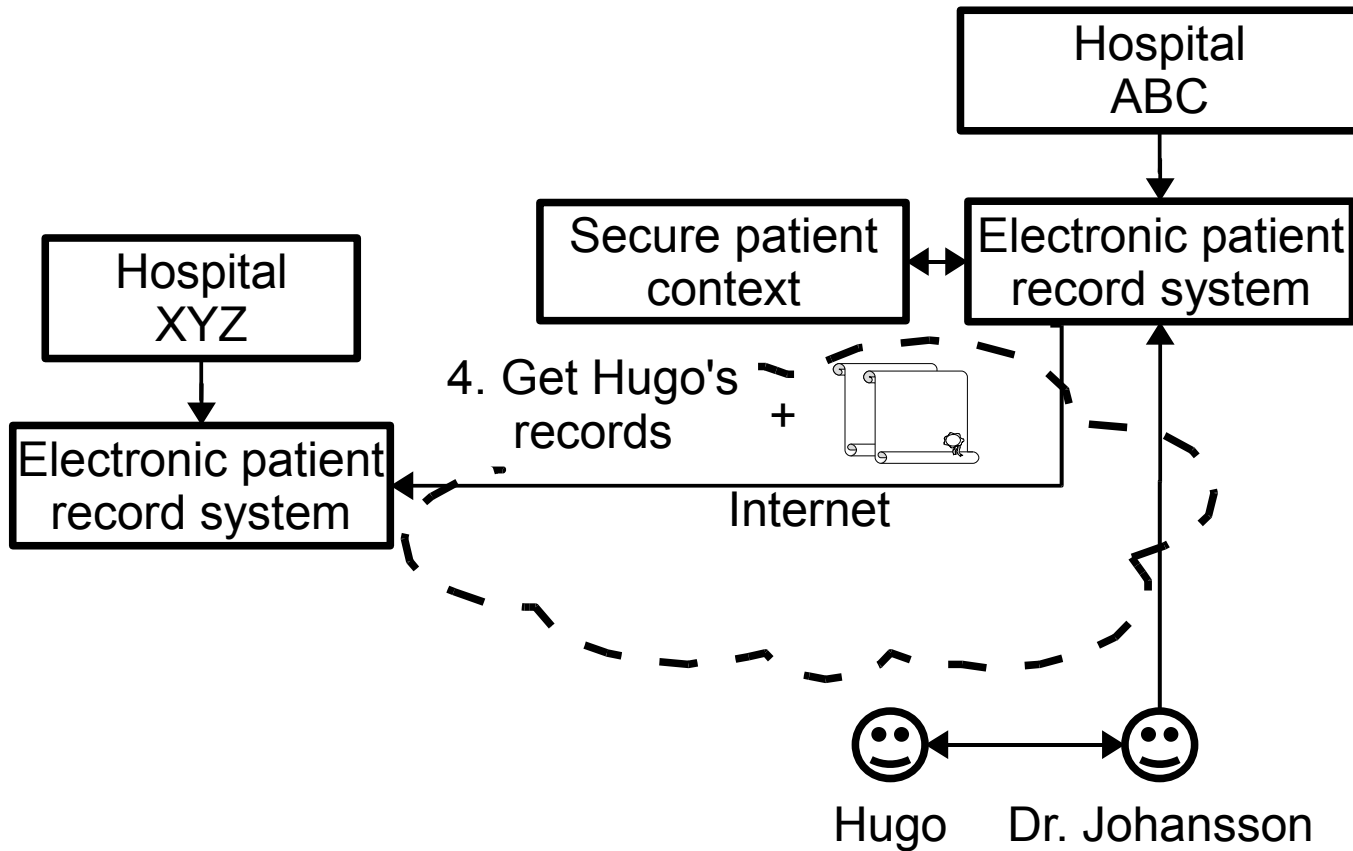
Typical use-case



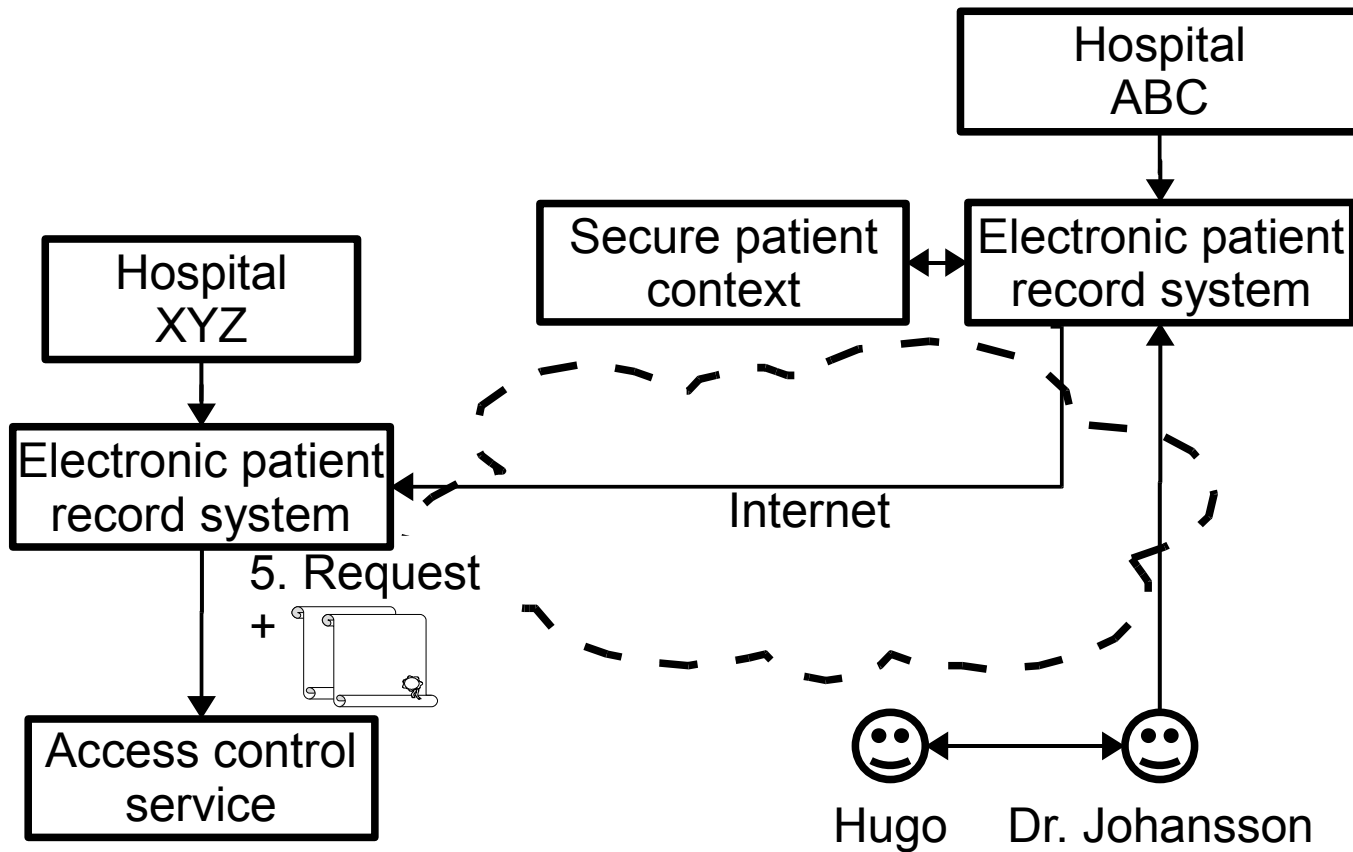
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