Connecting SIR and STORK
Identity federation beyond national borders

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Outline

1. Background
   1.1. Purpose
   1.2. About STORK
   1.3. About SIR

2. Connecting SIR and STORK
   2.1. Challenges
   2.2. Implementation
   2.3. Current status

3. Conclusions and future steps
Purpose
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About STORK

• Aims to create European eID interoperability platform
• It will enable secure access to online services between Member States
• It will be tested through 5 pilots
  – Pilot 3: Student’s mobility
  – Online access to university services, using national eIDs for eIdentification and eSignature

• http://www.eid-stork.eu
About SIR

• Provide a single entry point to digital identity services for the academic community

• Multiprotocol
  – Simplify management
  – Guarantee evolution

• Flexible
  – Compatible with any level of IdM deployment
  – Able to live in parallel with other infrastructures

• http://www.rediris.es/sir/
One Ring to bring them all and in the darkness bind them
In the Land of Mordor where the Shadows lie.
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Challenges - Protocol

- STORK defines a SAML2 extension, to request extra information, as:
  - QAA level
  - Requested attributes
    
    ```
    <stork:RequestedAttribute Name="http://www.stork.gov.eu/1.0/isAgeOver"
    NameFormat="urn:oasis:names:tc:SAML:2.0:attrname-format:uri" isRequired="true"
    >
    <saml:AttributeValue>16</saml:AttributeValue>
    </stork:RequestedAttribute>
    ```

- SAML2-STORK is implemented in a library over openSAML 2.0
  - It will be tested thoroughly in the pilot

- Solution: SIR should use the same lib
Challenges - Deployment

• SAML2-STORK is not supported in SIR
• New plugin in SIR, based on the STORK library
• Problems
  – STORK uses Java, SIR uses PHP
  – Library requires frequent updates
• Solution: keep the library at the developers, and use web services between the plugin and the library
Challenges - Attributes

• Most Spanish universities use common schemas (schac, eduPerson, iris-*)

• STORK defines a different set

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• Solution: attribute mapping (on demand)
Implementation
Current status

• The pilot is up and running
  – UJI is the first connected university
• Ongoing survey with more Spanish universities in the pilot, to decide
  – Deployment and testing calendar
  – Possibility of using other federation protocols (SAML1.1 / SAML2.0)
• Even more Spanish universities interested in joining the Student’s Mobility pilot
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Conclusions

• Challenging problems, simple solutions
• The (open source) software can be adapted to other infrastructures
• Excellent collaboration between
  – Conferencia de Rectores de Universidades Españolas (CRUE), through UJI
  – Indra
  – RedIRIS
Future steps

• Connect all the interested universities in Spain
• Bug-fixing and documentation
• Re-distribute the components
  – From STORK to SIR
  – From SIR to the universities
• Merge the SIR-STORK branch into the production SIR service
• Spread the word...
Thanks to...

• University Jaume I of Castellón (Student’s Mobility pilot leaders)
  – P. Santapau, V. Andreu, J.P. Gumbau

• Indra (developers)
  – I. Iñigo, J. Alcalde-Moraño, J. Heppe

• RedIRIS
  – J. Pérez & the SIR team

• And...
Thank you!
KEEP YOUR FINGERS CROSSED!!!