

# Connecting SIR and STORK

## Identity federation beyond national borders

Ajay Daryanani

Middleware Engineer, RedIRIS

# Outline

## 1. Background

- 1.1. Purpose
- 1.2. About STORK
- 1.3. About SIR

## 2. Connecting SIR and STORK

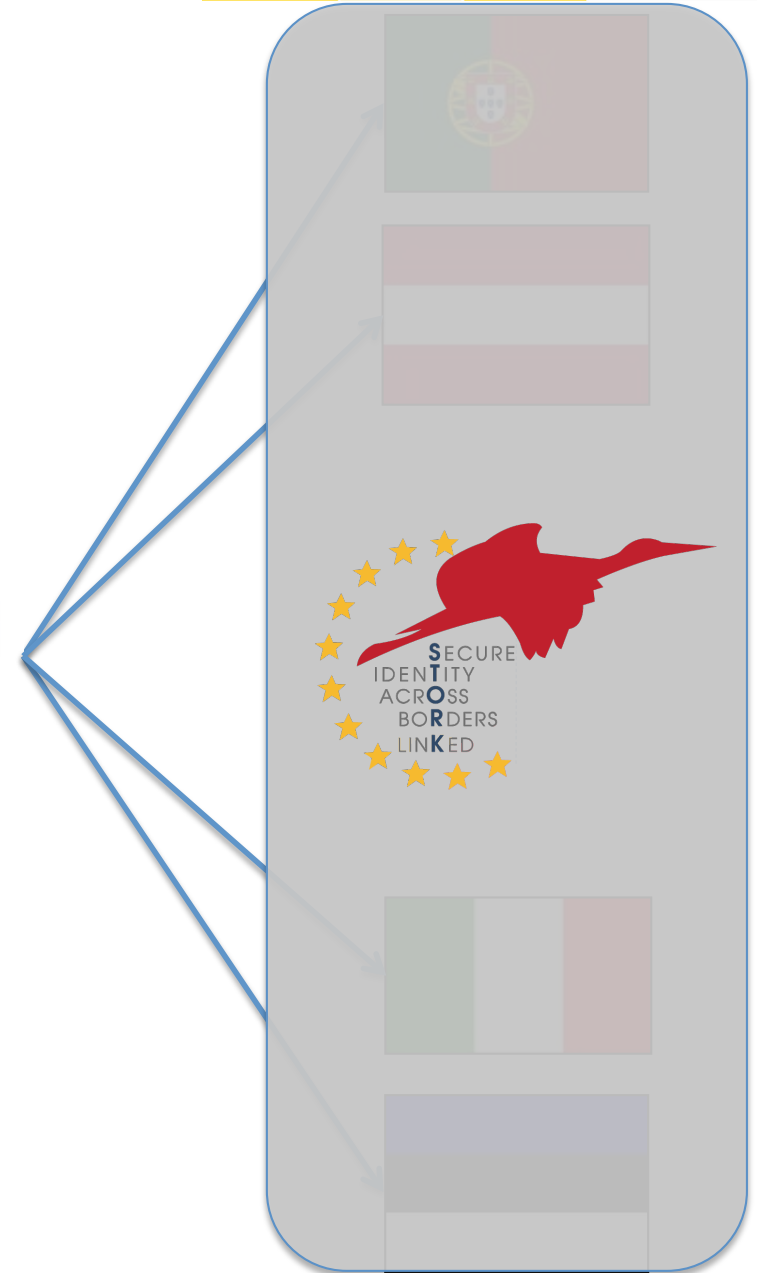
- 2.1. Challenges
- 2.2. Implementation
- 2.3. Current status

## 3. Conclusions and future steps

# Purpose

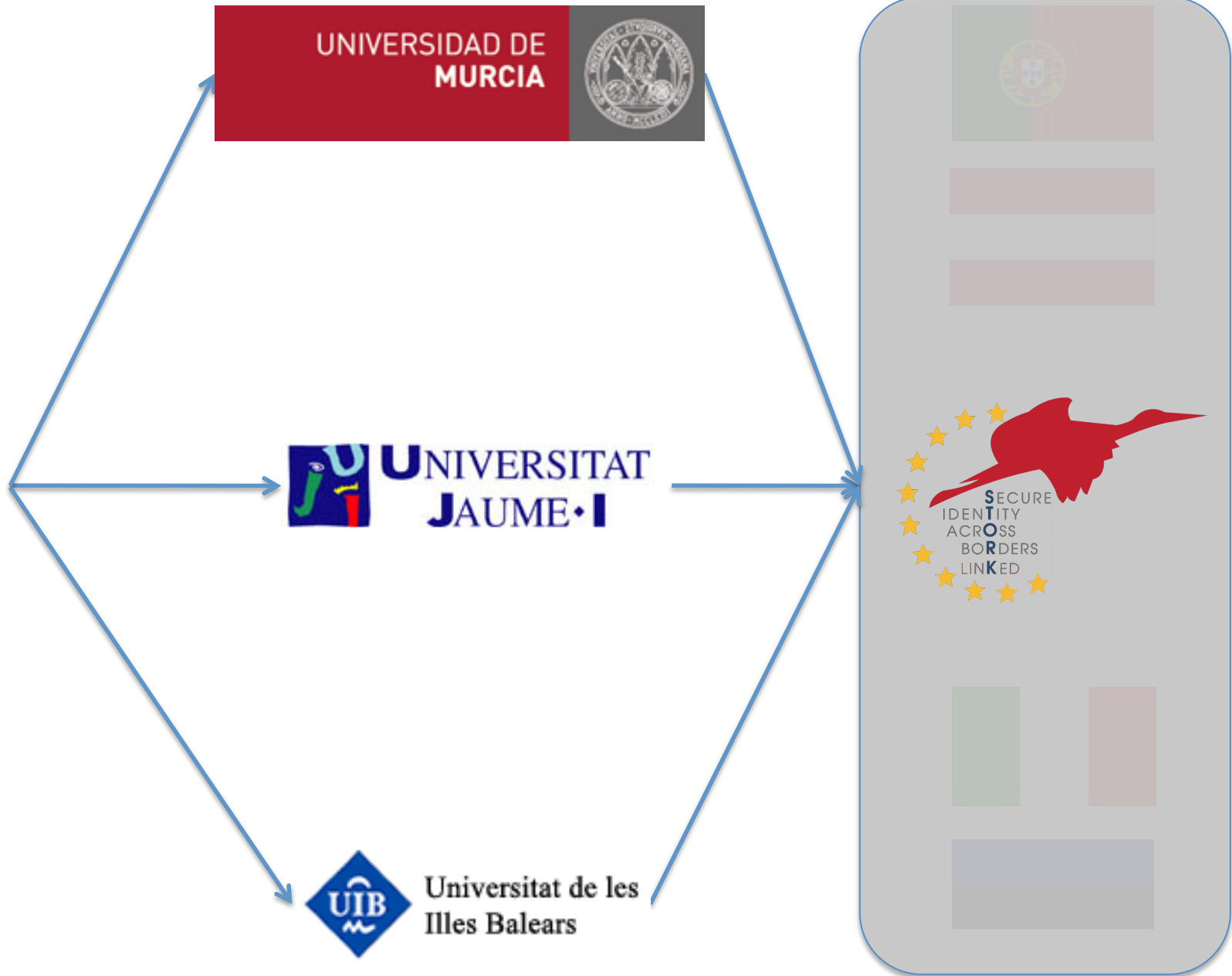
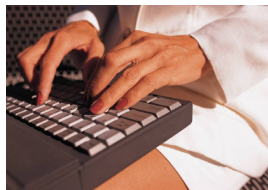


# Purpose



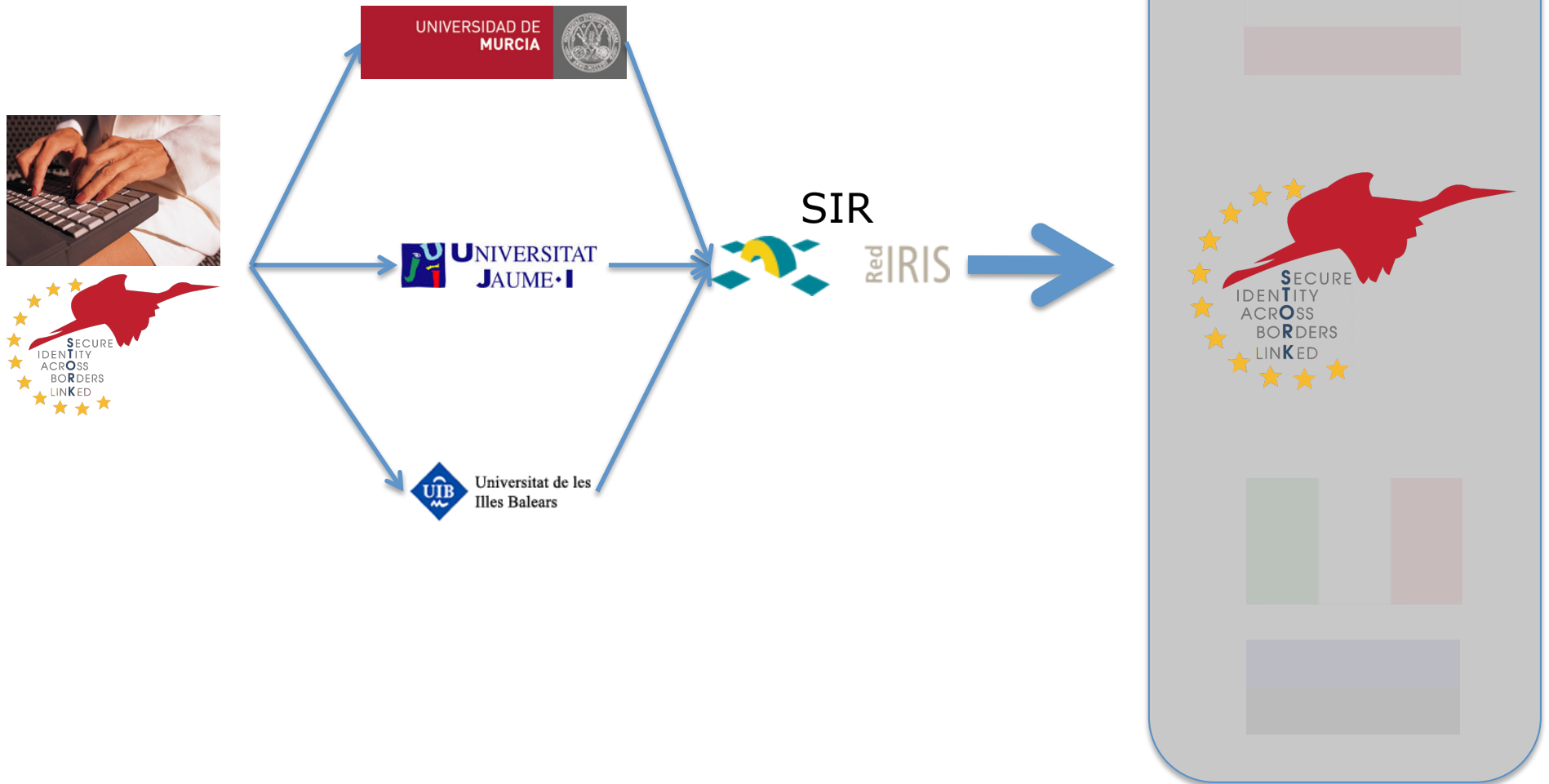


# Purpose



EUNIS 2010  
Warsaw, 23-25 June

# Purpose



# About STORK



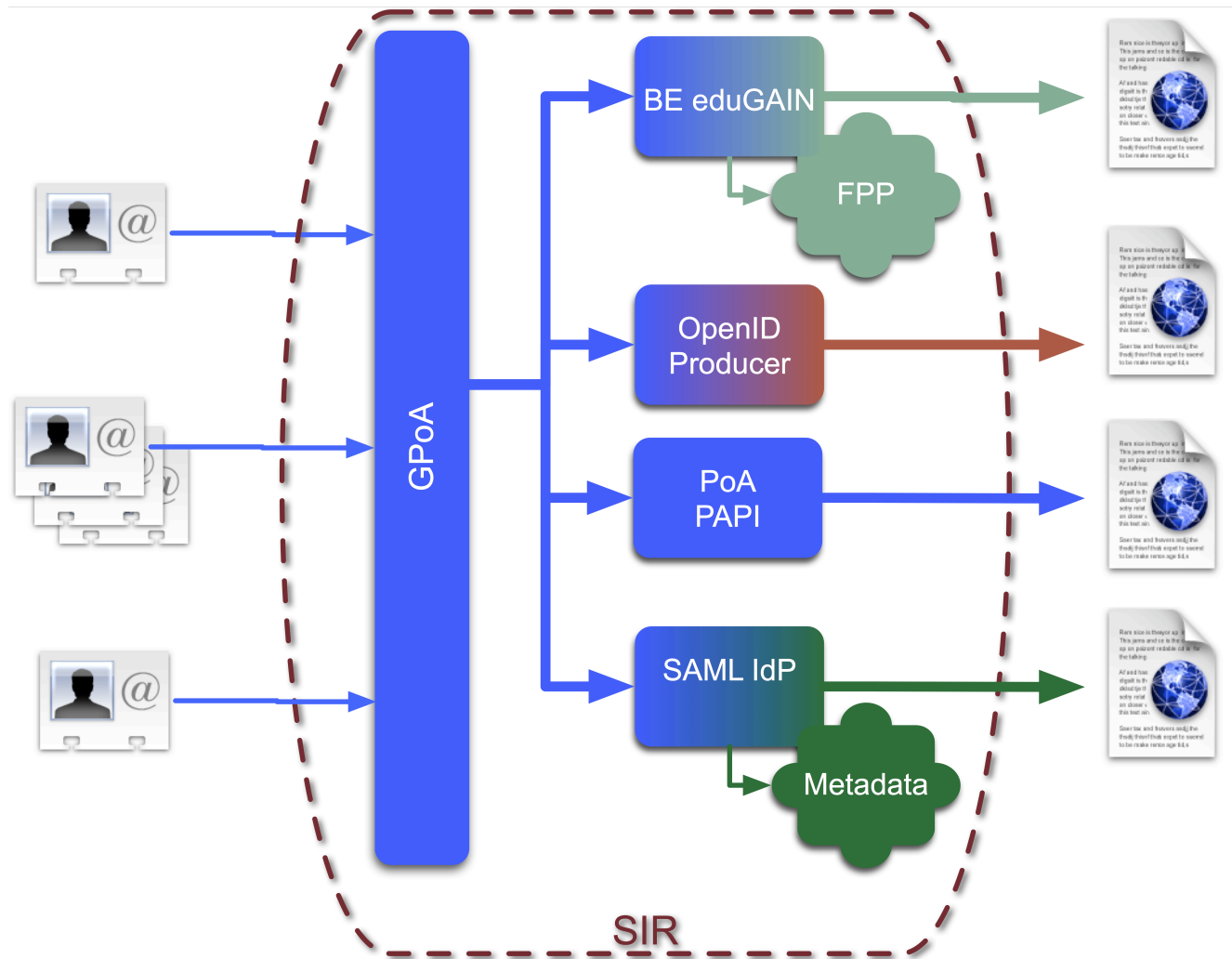
- Aims to create European eID interoperability platform
- It will enable secure access to online services between Member States
- It will be tested through 5 pilots
  - Pilot 3: Student's mobility
  - Online access to university services, using national eIDs for eIdentification and eSignature
- <http://www.eid-stork.eu>

# 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/>

# About 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



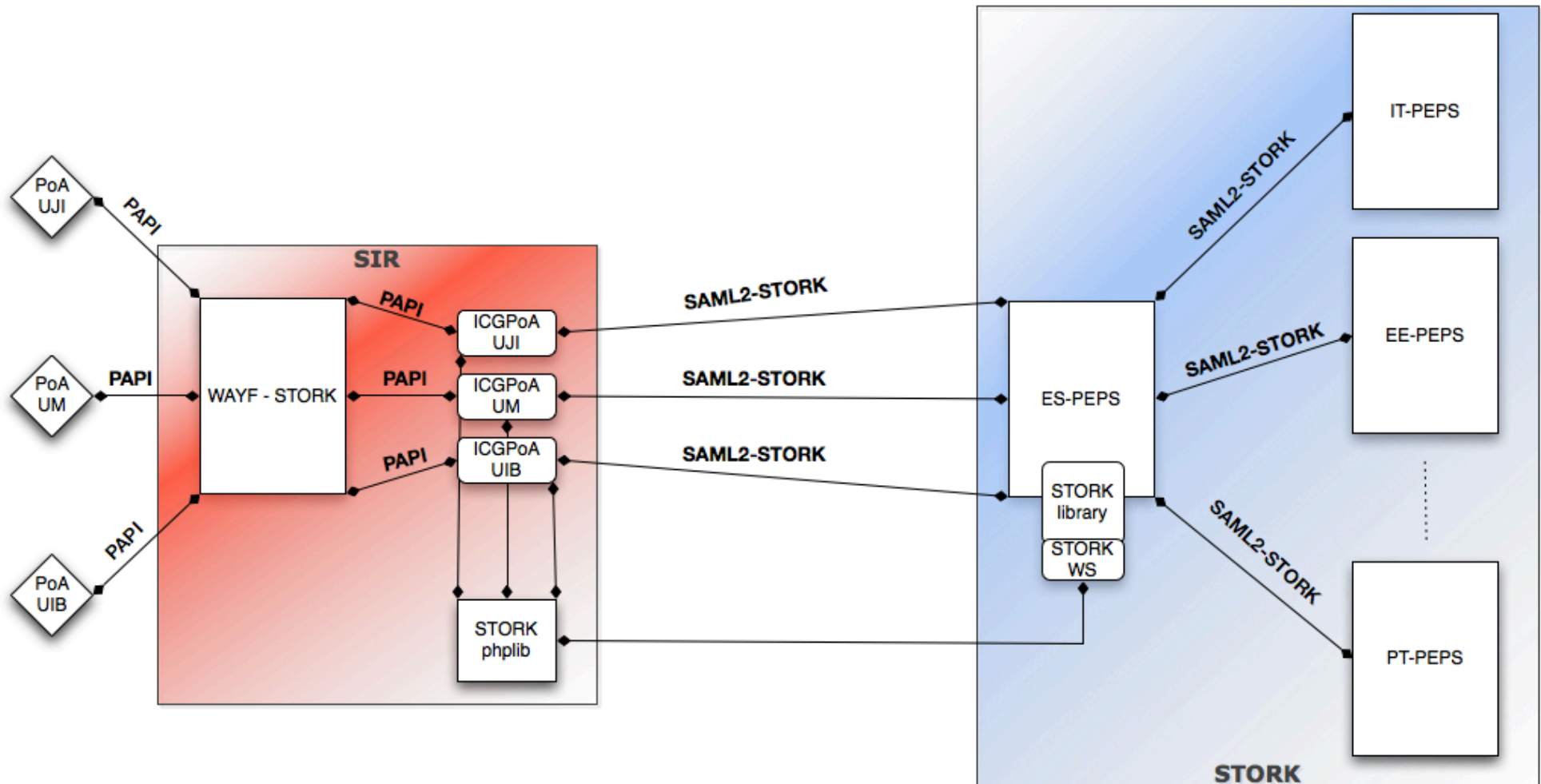
# Challenges - Attributes

- Most Spanish universities use common schemas (schac, eduPerson, iris-\*)
- STORK defines a different set

Friendly Name	Name
eIdentifier	<a href="http://www.stork.gov.eu/1.0/eIdentifier">http://www.stork.gov.eu/1.0/eIdentifier</a>
Given Name	<a href="http://www.stork.gov.eu/1.0/givenName">http://www.stork.gov.eu/1.0/givenName</a>
Surname	<a href="http://www.stork.gov.eu/1.0/surname">http://www.stork.gov.eu/1.0/surname</a>
Inherited Family Name	<a href="http://www.stork.gov.eu/1.0/inheritedFamilyName">http://www.stork.gov.eu/1.0/inheritedFamilyName</a>

- 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...



Red IRIS

Thank you!



# Demo

**KEEP YOUR FINGERS CROSSED!!!**