The Mobility Project

Review of the current status

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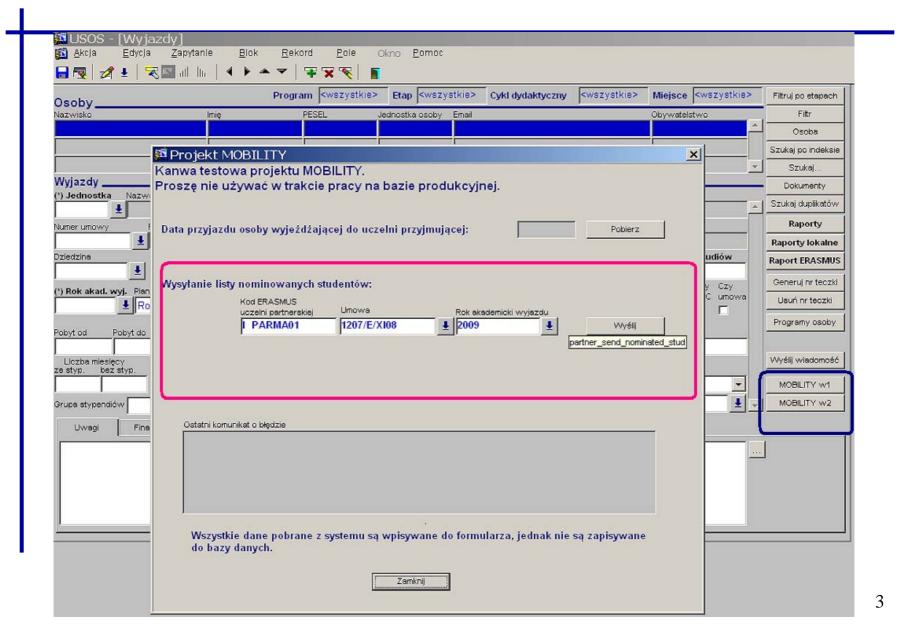jmd@mimuw.edu.pl

RS³G workshop, Bologna, March 18th 2010

- State of the project before Uppsala
- Workshop in Uppsala
- Wiki, teleconferences
- Three installations of Mobility web nodes
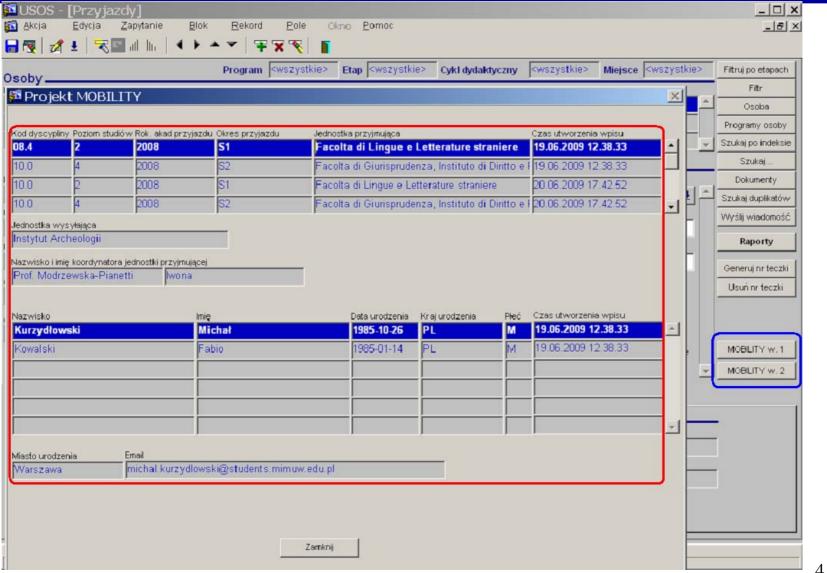- New installation package
- How to make a next step?
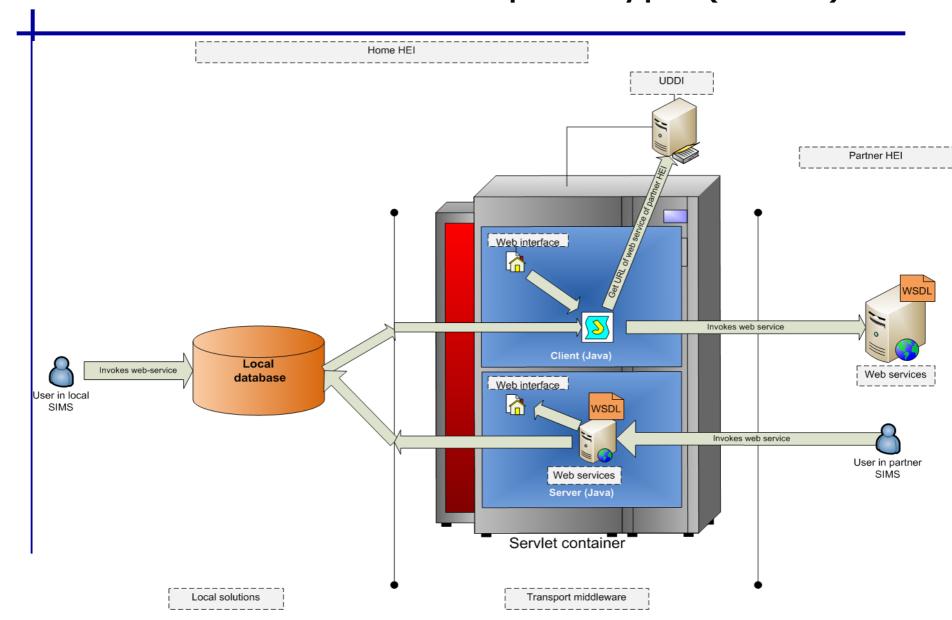
List of nominated students
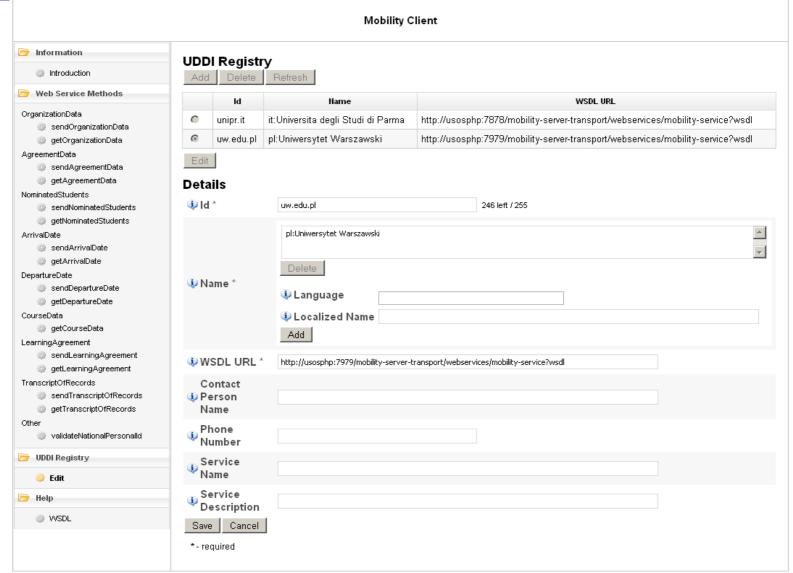
List of incoming students
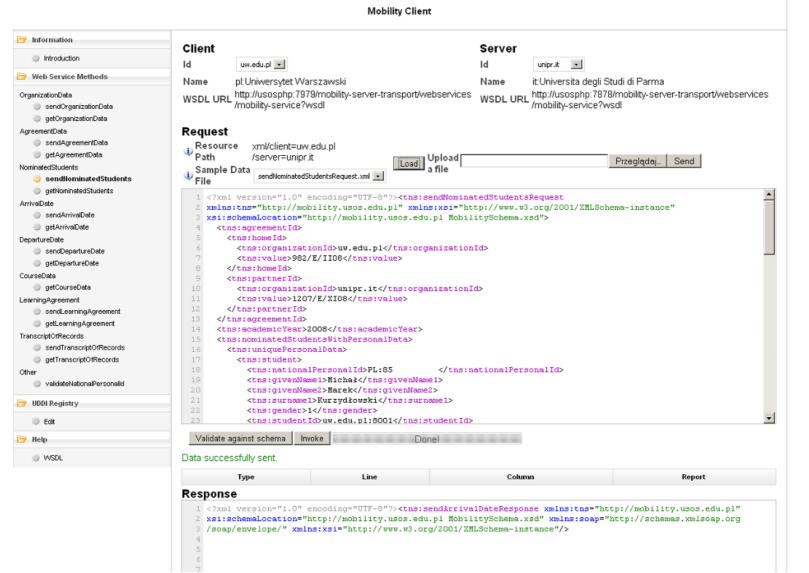
Architecture of the prototype (ver. 2)

UDDI – Universal Description, Discovery and Integration (registry of Mobility nodes)
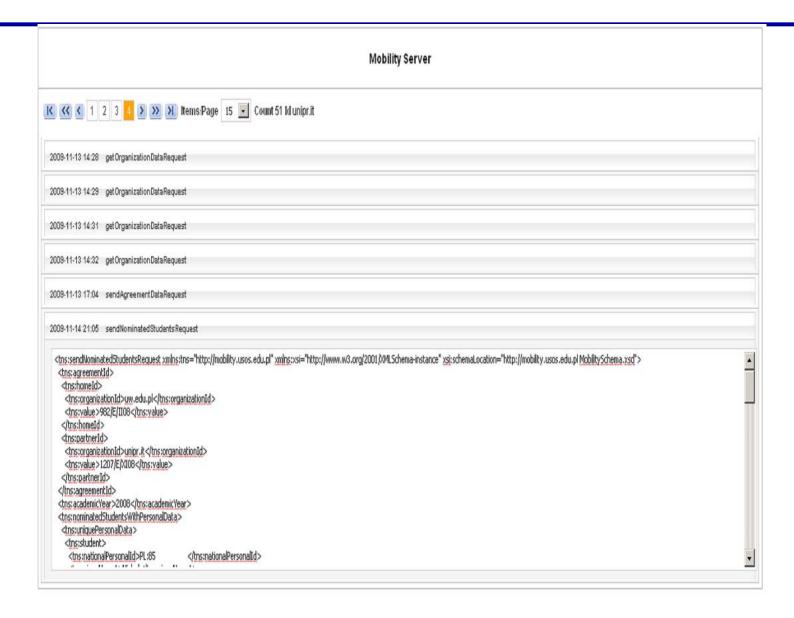
Web client (client= WARSAW, server= PARMA)

http://usosphp.mimuw.edu.pl:7979/mobility-client-web/index.jsp

Web server (server=PARMA)

http://usosphp.mimuw.edu.pl:7878/mobility-server-web/

Mobility Server

|< << < 1 2 3 **4** > >> >| Items:Page 15 ▼ Count 51 Id unipr.it

2009-11-13 14:28   getOrganizationDataRequest

2009-11-13 14:29   getOrganizationDataRequest

2009-11-13 14:31   getOrganizationDataRequest

2009-11-13 14:32   getOrganizationDataRequest

2009-11-13 17:04   sendAgreementDataRequest

2009-11-14 21:05   sendNominatedStudentsRequest

```
<tns:sendNominatedStudentsRequest xmlns:tns="http://mobility.usos.edu.pl" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:schemaLocation="http://mobility.usos.edu.pl MobilitySchema.xsd">
 <tns:agreementId>
  <tns:homeId>
   <tns:organizationId>uw.edu.pl</tns:organizationId>
   <tns:value>982/E/II08</tns:value>
  </tns:homeId>
  <tns:partnerId>
   <tns:organizationId>unipr.it</tns:organizationId>
   <tns:value>1207/E/XI08</tns:value>
  </tns:partnerId>
 </tns:agreementId>
 <tns:academicYear>2008</tns:academicYear>
 <tns:nominatedStudentsWithPersonalData>
  <tns:uniquePersonalData>
   <tns:student>
    <tns:nationalPersonalId>PL:85        </tns:nationalPersonalId>
```
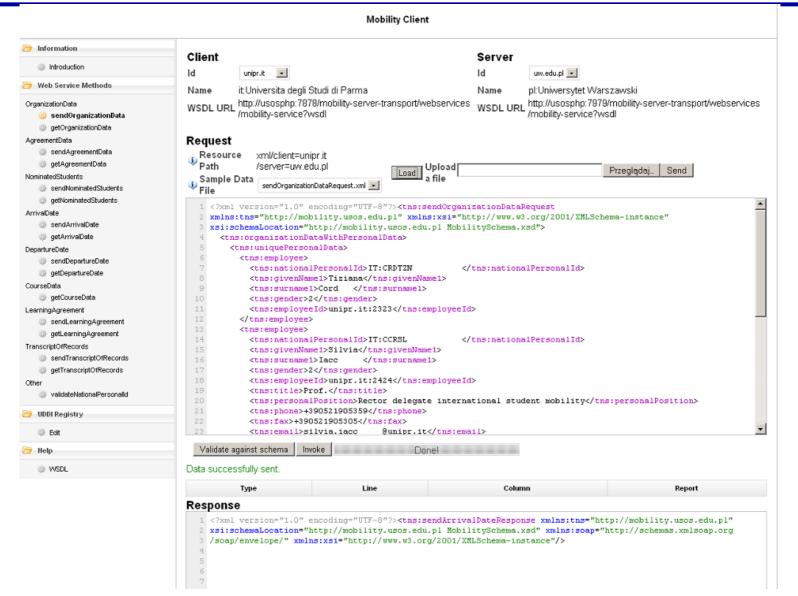
8

Web client (client= PARMA, server= WARSAW)

http://usosphp.mimuw.edu.pl:7979/mobility-client-web/index.jsp

Web server (server=WARSAW)

Mobility Server

|< << < 1 2 **3** > >> >| Items/Page 10 ▾ Count 22 Id uw.edu.pl

2009-11-13 19:33 sendOrganizationDataRequest

2009-11-14 22:39 sendOrganizationDataRequest

```xml
<tns:sendOrganizationDataRequest xmlns:tns="http://mobility.usos.edu.pl" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:schemaLocation="http://mobility.usos.edu.pl MobilitySchema.xsd">
  <tns:organizationDataWithPersonalData>
   <tns:uniquePersonalData>
    <tns:employee>
     <tns:nationalPersonalId>IT:CRDTZN         </tns:nationalPersonalId>
     <tns:givenName1>Tiziana</tns:givenName1>
     <tns:surname1>Cord     </tns:surname1>
     <tns:gender>2</tns:gender>
     <tns:employeeId>unipr.it:2323</tns:employeeId>
    </tns:employee>
    <tns:employee>
     <tns:nationalPersonalId>IT:CCRSL          </tns:nationalPersonalId>
     <tns:givenName1>Silvia</tns:givenName1>
     <tns:surname1>Iacc     </tns:surname1>
     <tns:gender>2</tns:gender>
     <tns:employeeId>unipr.it:2424</tns:employeeId>
```

Workshop in Uppsala (2009-11-16)

- **Presentations from Uppsala can be found in wiki**
  http://wiki.teria.no:8080/confluence/display/RS3G/UPPSALA

- **Main outcome – formation of the Work Teams, appointing Team leaders:**
  - WSDL (Janina Mincer-Daszkiewicz)
  - Identity and Access Management (Victoriano Giralt)
  - Security and Lifecycle Management (Andy Dowling)
  - Architecture (Geir Vangen)
  - Business Processes (Manuel Dietz)
  - Funding (Simone Ravaioli)

Wiki and Teleconferences

- Wiki

  Unfortunately there is almost no activity – may be we should look for some other means of communication

- Mailing lists

  There is one for WSDL Team (mobility-wdsl@mimuw.edu.pl) - not to much activity either

- Teleconferences

  Most effective way to activate people, review work and make plans, but not for real work

Reasons

- We are busy
- Mobility is not a top priority
- We do not see immediate results
- There is no funding

but on the other hand …

- We see the need for electronic exchange of data
- We see expectations of the users
- We know the problem may become a barrier for increasing mobility in the future
- Technically it does not seem to be a problem

Other actions

- KION upgraded software to the new version
- Staff mobility – Michał from University of Warsaw visited Barcelona for a week to help installing software in Sigma
- We tried to replace Tomcat by Glassfish (requirement of Sigma), but not yet succeeded
- We prepared a new installation package – preconfigured installation, takes 5 minutes to deploy (web client and sever inside Tomcat, small database for UDDI entries); we might also prepare one on virtual platform, like VMware (free version)

- Paper for Eunis'2010 has been delivered

„The Mobility Project – Building network of web-servers for exchange of data on student mobility"

A network of three nodes is described, but a paper is ready to be updated if anybody wants to join before June …

Some thoughts on WSDL

In my opinion we cannot discuss various aspects of WSDL (data format, number and specification of web methods) until we write sample files for our own data and try to simulate (even on paper) various real life scenarios of sending/getting data

Some thoughts on software

- Software for mobility nodes could be developed and distributed as open-source
- We might experiment with various technologies (e.g. do we want to use REST instead of SOAP for part of the project?)
- Software for local system should be developed by local vendors, consortia, …

Some thoughts on Identity Management

- Poland is ready, see e.g. https://atlases.muni.cz/

  (Shibboleth/simplesamlphp, WFAYF)

- Practical issues
  - federation or federation of federations (flat or hierarchical structure)?
  - how to register Identity Providers and Service Providers
  - using eduGAIN (http://www.edugain.org/)?
  - what attributes should be delivered by IdP for defining roles (edupersonentitlement, eg. mobility:admin:fun1:fun2) ?

Some thoughts on digital signatures – 1

- Main objective is to send mobility data straight from one database to another database

- Data is sent through the encrypted channel

- Sender is authorized by Federated IdM

- Receiver is a certified web-server

- Do we need to digitally sign messages sent by web-services – probably no

Some thoughts on digital signatures – 2

- Other objective – on request send documents in PDF format (e.g. LA, transcript of records, bilateral agreement)

- Such document would be stored in electronic archives (which are going to replace paper archives)

- Do we need to digitally sign such documents – definitely yes

- Is this in the scope of the project? – to be discussed (CEDEFOP already implemented such system)

Some questions and problems
from Uppsala but still valid

- Mobility project has specific objectives and specific needs concerning exchanged data – how to integrate its WSDL with other standards
- UDDI – one or many, who should administer?
- Authorisation and authentication in global scale (federated IDM or bilateral authorisation agreements)
- Security and privacy of data – legal aspects
- Next steps …

In the meantime in Warsaw …

We are just deploying a new admission system for the incoming students …

Admission of incoming students

Admission of incoming students

Online application for short-term studies
University of Warsaw

| Home | Application | Help | Log out |

Application

Step by step

1. ✔ All personal data completed. *Review and modify.*
2. ✔ Accommodation decision made. *Review.*
3. ✔ Status filled in. *Review and modify.*
4. ✔ Studying details completed. *Review and modify.*
5. ✖ **Upload your documents.**
6. ✖ **The confirmation of acceptance.**
7. ✖ **Send the application form by post.**

Message inbox
No new messages.

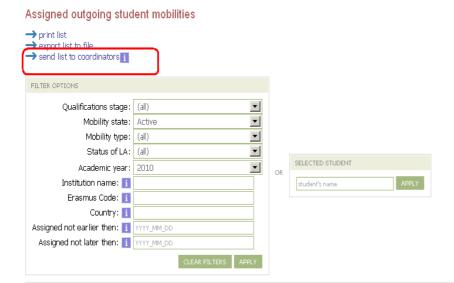# In the meantime in Warsaw …

University of Warsaw just finished recruiting
   outgoing students for 2010/2011

   app. 1500 …

List of nominated students in USOSweb

Erasmus outgoing student mobility coordination
at the faculty/unit: Faculty of Management [choose another]

Assigned outgoing student mobilities

→ print list
→ export list to file
→ send list to coordinators ℹ

FILTER OPTIONS			
Qualifications stage:	(all) ▾		
Mobility state:	Active ▾		
Mobility type:	(all) ▾		
Status of LA:	(all) ▾		
Academic year:	2010 ▾	OR	
Institution name: ℹ			
Erasmus Code: ℹ			
Country: ℹ			
Assigned not earlier then: ℹ	YYYY_MM_DD		
Assigned not later then: ℹ	YYYY_MM_DD		

SELECTED STUDENT

student's name [APPLY]

[CLEAR FILTERS] [APPLY]

Showing first 30 table entries ... show more | show all

No.	Surname	Name	Country	Erasmus Code	Institution name	Date of assignment	Acad. year ▾	Mobility type	Mobility state	Qualifications stage		Options
1	Adam		Norwegia	N TROMSO01	Universitetet I Tromso		2010	Studies	Active	Finished	ℹ	→ view → learning agreement
2	Joanna		Francja	F MONTPEL02	Université de Montpellier II		2010	Studies	Active	Finished	ℹ	→ view → learning agreement
3	Marcelina		Francja	F MONTPEL02	Université de Montpellier II		2010	Studies	Active	Finished	ℹ	→ view → learning agreement
4		Marta	Portugalia	P PORTO07	Universidade Portucalense Infante D. Henrique		2010	Studies	Active	Finished	ℹ	→ view → learning agreement
5		Mateusz	Niemcy	D OSNABRU01	Universität Osnabrück		2010	Studies	Active	Finished	ℹ	→ view → learning agreement
6		Joanna	Hiszpania	E VALENCI01	Universidad de Valencia		2010	Studies	Active	Finished	ℹ	→ view → learning agreement
7		Agata	Francja	F MONTPEL13	Ecole Supérieure de Commerce de Montpellier		2010	Studies	Active	Finished	ℹ	→ view → learning agreement

but …

Mobility button to send/get a list of nominated students to/from the partner is still not active ☹

Possible scenarios for the near future

- **How to get involved:**
  - choose your area of interest
  - give some contribution?
    - write XML files with mobility data for your institution
    - simulate, document real life scenarios
    - install software
    - enable exchange of data
    - get federated
    - delegate your experts part-time (e.g. in architecture, programming, security)
    - treat this as a platform for experimentation with various technologies (may be useful for your other projects anyway)
    - ask your student management software provider for cooperation (→unisolution ☺)

Links and readings

- Project home page
  http://usos.edu.pl/Mobility
- Web client
  http://usosphp.mimuw.edu.pl:7979/mobility-client-web/
- Web server
  http://usosphp.mimuw.edu.pl:7979/mobility-server-web/
- Rafał Nagrodzki, *The Mobility Project*, Master Thesis in Computer Science, University of Warsaw