

The Mobility Project

General idea Progress report

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Groningen, 2012-04-17

Agenda

- General idea
- Setting the goal
- History of the project
- Achievements
- Mobility Network pilot
- Business Cards pilot
- Some technical aspects
- Further steps

International cooperation ...

- A typical **European university** (like **University of Warsaw, UW**) cooperates with other universities, handles staff and students outgoing/incoming mobility ...
- It uses some **Student Management Information System** (like **USOS**) for daily support of the **International Relations Office (IRO)**
- All data relevant to international cooperation and mobility are gathered in the university databases in an electronic form

USOS – module for IRO at UW



Biuro Współpracy z Zagranicą

USOS - BWZ

Studenci/uczelnie/inst.

Słowniki

Umowy

Przyjazdy

Wyjazdy

Zakończ

USOS - BWZ, Miłego dnia!

Komunikaty

Użytkownik: JMD
Baza: test
Wersja: 3.11

IRO – Bilateral agreements

USOS - [Umowy]

Akcja Edycja Zapytanie Blok Rekord Pole Okno Pomoc

Programy | Projekty | Projekty - budżety | **Umowy** | Warunki współpracy

Umowy

(*) Rodzaj	(*) Numer	(*) Data podpis	(*) Data rozpocz	Data ważności	(*) Status
Bilateralna	112/E/X06	13.11.2006	01.07.2007	30.09.2009	podpisana
Bilateralna	329/E/XI06	20.01.2007	01.07.2007	30.09.2008	podpisana
Bilateralna	52/E/X06	10.11.2006	01.07.2007	30.09.2008	podpisana

Kod Erasmus: **CATANIA01** | Uczelnia zagraniczna lub instytucja zewnętrzna: **Universita degli Studi di Catania** | Kraj: **Włochy** | Kontynent: **Europa**

Koordynator instytucjonalny uczelni macierzystej: **Kowalska60225 Ewa60225** | Koordynator umowy uczelni macierzystej: **Kowalski13455 Jan13455**

Koordynator instytucjonalny zewnętrzny: **Walker389 Joan389** | Koordynator umowy zewnętrzny: **Walker392 John392**

Osoba (tylko dla umowy indywidualnej):

Uwagi:

Projekty

Numer projektu	Tytuł projektu
Erasmus 45834	Erasmus 45834

Jednostki organizacyjne zewnętrzne

Nazwa	Uczelnia zagr. lub instytucja zewn.
Faculta Giurisprudenza	Universita degli Studi di Catania

Jednostki organizacyjne

(*) Jednostka	Nazwa jednostki
22000000	Wydział Prawa i Administracji

Współpraca jednostek

Nazwa	Uczelnia zagr. lub instytucja zewn.
>	
>	
>	
>	

Szukaj ...

Raporty

MOBILITY w1

MOBILITY w2

IRO – Conditions of cooperation

USOS - [Umowy]

Akcja Edycja Zapytanie Blok Rekord Pole Okno Pomoc

Programy Projekt Projekt - budżety Umowy **Warunki współpracy**

Umowy

Rodzaj	Numer	Data podpisania	Data rozpoczęcia	Data ważności	Status
Bilateralna	112/E/X06	13.11.2006	01.07.2007	30.09.2009	podpisana
Bilateralna	329/E/X106	20.01.2007	01.07.2007	30.09.2008	podpisana
Bilateralna	52/E/X06	10.11.2006	01.07.2007	30.09.2008	podpisana
Bilateralna	509/E/X106	11.01.2007	01.07.2007	30.09.2010	podpisana

Kod Erasmus: I CATANIA01 Uczelnia zagraniczna lub instytucja zewnętrzna: Università degli Studi di Catania Kraj: Włochy

Warunki współpracy

Wyjazd z kraju A do B Przyjazd do kraju A z B

(*) Typ	W	Dziedzina	(*) Data rozpoczęcia	Data zakończenia	(*) Kraj A	Poziom stud.	L.	os.	Mies.	Tyg.	Godz.	(*) Kraj B	Poziom stud.	L.	os.	Mies.	Tyg.	Godz.	Poprzedzająca
studenci-studia	<input type="checkbox"/>	10.0	01.07.2007	30.09.2009	PL	wszyscy	2	20				IT	wszyscy	2	20				
nauczyciele akac	<input type="checkbox"/>	10.0	01.07.2007	30.09.2009	PL		1		1	8		IT		6		1	8		
	<input type="checkbox"/>																		
	<input type="checkbox"/>																		

(*) Dla kogo: Studenci, doktoranci Jednostka: 22000000 Nazwa jednostki: Wydział Prawa i Administracji

Nazwiska lub liczby: Opis tematów: Uwagi: dotyczy również III stopnia

Warunki współpracy poprzedzającej

Wyjazd z kraju A do B Przyjazd do kraju A z B

Typ	W	Dziedzina	Data rozpoczęcia	Kraj A	Poziom stud.	L.	os.	Mies.	Tyg.	Godz.	Kraj B	Poziom stud.	L.	os.	Mies.	Tyg.	Godz.	Poprzedzona
	<input checked="" type="checkbox"/>																	

Dla kogo: Kod jednostki: Opis jednostki:

Nazwiska lub liczby: Opis tematów: Uwagi:

MOBILITY w1
MOBILITY w2

IRO – Incoming and outgoing mobility

USOS - [Wyjazdy]

Akcja Edycja Zapytanie Blok Rekord Pole Okno Pomoc

Program <wszystkie> Etap <wszystkie> Cykl dydaktyczny <wszystkie> Miejsce <wszystkie> Filtruj po etapach

Osoby

Nazwisko	Imię	PESEL	Jednostka osoby	Email	Obywatelstwo
Kowalska100011	Ewa100011		21000000	kowalska100011@usos.pl	polskie
Kowalska100016	Ewa100016		21010000	kowalska100016@usos.pl	polskie
Kowalska100020	Ewa100020		30050000	kowalska100020@usos.pl	polskie

Wyjazdy

(*) Jednostka Nazwa jednostki Kod Erasmus (*) Uczelnia zagraniczna lub instytucja zewnętrzna Kraj

21220000 Katedra Europeistyki UK BRIGHT001 University of Sussex Wielka Brytania

Numer umowy Rodzaj umowy Uczelnia zagraniczna lub instytucja zewnętrzna Typ współpracy Numer teczki

847/E/XII07 Bilateralna University of Sussex studenci-studia BWZ981EUC08-S0229

Dziedzina Kod programu (*) Rodzaj studiów (*) System studiów (*) Rok studiów

14.1 <brak> magisterskie niestacjonarne - 3

(*) Rok akad. wyj. Plan. czas pobytu Planowany czas pobytu komentarz Czy praktyki Czy druga tura Punkty ECTS i kod sektorowy praktyk Czy kiedyś Erasmus Leonardo EILC Czy umowa

2008 Inny Pierwszy trymestr (3 m-ce)

Pobyt od Pobyt do Data wyjazdu Data powrotu Rzeczywista data wyjazdu Rzeczywista data powrotu Przedłużenie/skrócenie (*) Otrzymywane styp. Jeśli inne to jakie

06.10.2008 12.12.2008 26.09.2008 13.12.2009 brak

Liczba miesięcy ze styp. bez styp. Czy dofinansowanie z tytułu niepełnospr. (*) Dofinansowanie z jednostki (*) Typ wyjazdu (*) Stan

2,25 0 brak studia aktywny

Grupa stypendiów Pierwsza stawka stypendialna (wyższa) Powody rezygnacji

Uwagi Finanse Decyzja - LA Języki, ECTS

Filtr Osoba Szukaj po indeksie Szukaj... Dokumenty Szukaj duplikatów Raporty Raporty lokalne Raport ERASMUS Generuj nr teczki Usuń nr teczki Programy osoby Wyślij wiadomość MOBILITY w1 MOBILITY w2

IRO – Scholarships

(final amount depends on dates of arrival/departures)

Wyjazdy

Program <wszystkie> Etap <wszystkie> Cykl dydaktyczny <wszystkie> Miejsce <wszystkie> Filtruj po etapach

Nazwisko	Imię	PESEL	Jednostka osoby	Cykl dyd. wyjazdu	Numer teczki	Jednostka wyjazdu
	Magdalena		33210000	2007	BWZ981EUC07-S0003	33210000

Email: _____ Obywatelstwo: Grupa stypendiów:

Wyplaty

Kod funduszu	Waluta	Licz. mies.	VIII	IX	X	XI	XII	I	II	III	IV	V	VI	VII	VIII*	IX*
ERASMUS	EUR	4,50			340,00	340,00	340,00	340,00	170,00							
UW EURO	EUR	4,50			17,00	17,00	17,00	17,00	8,50							
Waluta wypłaty					EUR	EUR	EUR	EUR	EUR							
Stan wypłaty					Z	Z	Z	Z	Z							
Data wydruku raportu					03.10.2007	03.10.2007	14.11.2007	14.11.2007	14.11.2007							
Data zlecenia przelewu					04.10.2007	04.10.2007	15.11.2007	15.11.2007	15.11.2007							

Opis funduszu:

Real life scenario – 1

University of Warsaw

- **December-January:**
 - Start of the **recruitment** for outgoing mobility
 - **List of offers** (resulting from international agreements) is available for students on the web

INTRODUCTION

TESTS

EXAM REPORTS

EDITING COURSES

EXAMS

REGISTRATION

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GIVING OPINIONS

STUDENT MOBILITY

▶ coordinated faculties

▶ Faculty of Mathematics, Informatics, and Mechanics

▶ signed agreements

▶ unsigned agreements

▶ assign outgoing mobility

▶ assigned outgoing mobilities

▶ study programmes

▶ mobility offers

▶ enrollments

▶ recommendation templates

▶ my commissions

▶ my opinions

SURVEYS RESULTS

Coordination of Erasmus student mobility

at the faculty/unit: **Faculty of Mathematics, Informatics, and Mechanics** [select another]



This page displays **Signed bilateral agreements** that fulfil following criteria:

- have status other than 'unsigned' or 'under negotiation'
- terms and conditions of the agreement are linked to following unit: **Faculty of Mathematics, Informatics, and Mechanics**
- terms, conditions and the agreement itself are still valid,
- terms, conditions and the agreement itself come into effect within a year.

FILTER OPTIONS

Status: Id: Country: Institution name: Erasmus code: From: To:

CLEAR FILTERS

APPLY

Signed faculty/unit agreements

Showing first 30 table entries ... [show more](#) | [show all](#)

No.	Country	Erasmus code	Institution name	Qualifications stage	Id	From	To	Options
1	(in Polish) Austria	A WIEN01	Universität Wien	podpisana	517/E/XII06	2007-07-01	2010-09-30	details
2	(in Polish) Dania	DK ODENSE01	Syddansk Universitet	podpisana	659/E/II07	2007-07-01	2010-09-30	details
3	(in Polish) Dania	DK KOBENHA01	Kobenhavns Universitet	podpisana	214/E/XI06	2007-07-01	2010-09-30	details
4	(in Polish) Dania	DK ARHUS01	Aarhus Universitet	podpisana	193/E/XI06	2007-07-01	2010-09-30	details
5	(in Polish) Francja	F PARIS013	Université Paris Nord (Paris XIII)	podpisana	282/E/XI06	2007-07-01	2010-09-30	details
6	(in Polish) Francja	F PALAISE01	Ecole Polytechnique	podpisana	521/E/XII06	2007-07-01	2010-09-30	details
7	(in Polish) Hiszpania	E VALENCI01	Universidad de Valencia	podpisana	462/E/XII06	2007-07-01	2010-09-30	details
8	(in Polish) Hiszpania	E BARCELO02	Universitat Autònoma de Barcelona	podpisana	654/E/II07	2007-07-01	2010-09-30	details
9	(in Polish) Niemcy	D SAARBRU01	Universität des Saarlandes	podpisana	283/E/XI06	2007-07-01	2010-09-30	details
10	(in Polish) Niemcy	D MUNCHEN01	Ludwig-Maximilians-Universität München	podpisana	464/E/XII06	2007-07-01	2010-09-30	details
11	(in Polish) Niemcy	D DARMSTA01	Technische Universität Darmstadt	podpisana	540/E/IO7	2007-07-01	2010-09-30	details
12	(in Polish) Szwecja	S UPPSALA01	Uppsala Universitet	podpisana	202/E/XI06	2007-07-01	2010-09-30	details
13	(in Polish) Portugalia	P LISBOA02	Universidade de Lisboa	podpisana	995/E/II08	2008-07-01	2011-09-30	details
14	(in Polish) Wielka Brytania	UK ABERDEE01	University of Aberdeen	podpisana	972/E/IO8	2008-07-01	2011-09-30	details
15	(in Polish) Wielka Brytania	UK EDINBUR01	The University of Edinburgh	przedłużona	1130/E/X08	2009-07-01	2011-09-30	details

Faculty – Student's application

Motivation letter in a foreign language

Please consider my candidature to the deans founded scholarship.

Dear Sir or Madam,

I am writing to propose my candidature to the Socrates-Erasmus student exchange program in the academic year 2009/10. I'm a student of the fourth year of mathematics. I am studying mathematics as a primary specialization in a Individual Studies Program in conjunction with physics.

It is a great combination which makes studying more interesting and purposeful. I am a hard-working and solid person. A result of that is the fact that every semester I am exceeding the required ECTS numbers and every subject I take on is passed by me. Thanks to such approach I have passed more subjects that were necessary, and I have also passed numerous subjects on the faculty of Physics.

I believe that an international scholarship will be a great opportunity for me to widen my horizons(not only mathematical) and to get more knowledge in various fields. I am aware that it may be a difficult challenge, however I am sure I will be able to cope with it and it will be a great benefit to me as well.

As a person who is travelling a lot, and with good knowledge in foreign languages I hope I won't have any problems to accommodate myself in a new environment. After finishing my master degree I am planning to continue my studies to reach the PhD degree.

Best regards



This application has been accepted.

Priority	Institutions to which the student wants to go. i (max 3)
1	Université Paris Nord (Paris XIII) (<i>Mathematics</i>)
2	Vrije Universiteit Brussel (<i>Mathematics</i>)
3	Universitat Autònoma de Barcelona (<i>Mathematics</i>)

RLMTODO	
Language	Level
English	znam język dostatecznie dobrze, by rozumieć wykłady
French	znam język dostatecznie dobrze, by rozumieć wykłady
German	znam język dostatecznie dobrze, by rozumieć wykłady

Courses with marks		(max 3)
1000-135RC1a	Partial differential equations I	4,5
1000-1L00RR	Differential equations in natural sciences	5
1000-135ST1	Statistics I	4,5

Opinion		(min 1)(max 1)
RLMTODO	Status i	Options i
Grzegorz Łukaszewicz	submitted	→ view

Real life scenario – 2

- **March:** **Lists of nominations** are ready, approved by departmental Erasmus coordinators (University of Warsaw recruited **1232** students for 2011/2012, numbers grow every year)
- **May:** **Learning Agreement** for each student is ready, approved by home and partner coordinators

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- ▶ coordinated faculties
 - ▶ Faculty of Mathematics, Informatics, and Mechanics
 - ▶ signed agreements
 - ▶ unsigned agreements
 - ▶ assign outgoing mobility
 - ▶ assigned outgoing mobilities
 - ▶ study programmes
 - ▶ mobility offers
 - ▶ enrollments
 - ▶ recommendation templates
 - ▶ my commissions
 - ▶ my opinions

SURVEYS RESULTS

Coordination of Erasmus student mobility

at the faculty/unit: Faculty of Mathematics, Informatics, and Mechanics [select another]

Assigned outgoing student mobilities

PRINT THE LIST

 Polish
 English

SEND LIST TO COORDINATORS

 Polish
 English

→ export the list to file in CSV format

→ send e-mail to all 23 recipients from table below.

FILTER OPTIONS

Qualification stage: (all)

Status of mobility: Active

Mobility type: (all)

Status of LA: (all)

Academic year: 2010

Institution name: Erasmus code: Country: Granted no sooner than: Granted no later than:

CLEAR FILTERS

APPLY

OR

SELECTED STUDENT

APPLY

Showing elements 1..23 (out of 23)

No.	Surname	Name	Country	Erasmus code	Institution name	Date of assignment	Acad. year	Mobility type	Status of mobility	Qualifications stage	Options
1	Baranowska Katarzyna		Niemcy	D MUNCHEN01	Ludwig-Maximilians-Universität München	2010-02-27	2010	Studies	Active	Finished	<input type="button" value="I"/> → view → learning agreement
2	Bendowski Michał		Holandia	NL AMSTERD02	Vrije Universiteit Amsterdam	2010-02-24	2010	Studies	Active	Finished	<input type="button" value="I"/> → view → learning agreement
3	Chapska Monika		Holandia	NL AMSTERD02	Vrije Universiteit Amsterdam	2010-02-12	2010	Studies	Active	Finished	<input type="button" value="I"/> → view → learning agreement
4	Czeczko Artur		Francja	F PARIS013	Université Paris Nord (Paris XIII)	2010-03-02	2010	Studies	Active	Finished	<input type="button" value="I"/> → view → learning agreement
5	Dudzik Krzysztof		Niemcy	D SAARBRU01	Universität des Saarlandes	2010-02-14	2010	Studies	Active	Finished	<input type="button" value="I"/> → view → learning agreement
6	Falkiewicz Tomasz		Hiszpania	E LASPAL01	Universidad de Las Palmas de Gran Canaria		2010	Studies	Active	Finished	<input type="button" value="I"/> → view → learning agreement
7	Freus Oktawian		Portugalia	P PORTO02	Universidade do Porto	2010-02-25	2010	Studies	Active	Finished	<input type="button" value="I"/> → view → learning agreement
8	Geras Krzysztof		Wielka Brytania	UK EDINBUR01	The University of Edinburgh	2010-02-24	2010	Studies	Active	Finished	<input type="button" value="I"/> → view → learning agreement
9	Jarzębowski Przemysław		Wielka Brytania	UK EDINBUR01	The University of Edinburgh	2010-02-24	2010	Studies	Active	Finished	<input type="button" value="I"/> → view → learning agreement
10	Jurek Michał		Niemcy	D MUNCHEN01	Ludwig-Maximilians-Universität München	2010-02-27	2010	Studies	Active	Finished	<input type="button" value="I"/> → view → learning agreement
11	Kacperski Andrzej		Dania	DK KOBENHA01	Kobenhavns Universitet	2010-02-24	2010	Studies	Active	Finished	<input type="button" value="I"/> → view → learning agreement

EDITING COURSES

EXAMS REGISTRATION

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STUDENT MOBILITY

- ▶ coordinated faculties
 - ▶ Faculty of Mathematics, Informatics, and Mechanics
 - ▶ signed agreements
 - ▶ unsigned agreements
 - ▶ assign outgoing mobility
 - ▶ assigned outgoing mobilities
 - ▶ learning agreement
 - ▶ **decision**
 - ▶ study programmes
 - ▶ mobility offers
 - ▶ enrollments
 - ▶ recommendation templates
 - ▶ my commissions
 - ▶ my opinions

SURVEYS RESULTS



Learning Agreement has been approved. It should be printed and signed (correspondence will ensue). Subsequent edition of the agreement is possible until its expiration date in USOSweb.

In reference to

Student:	Michał Bendowski
Study program:	DZ-INF - Bachelor's degree, first cycle programme, Computer Science
Period of study:	I3 - Computer Science, 3rd grade
Term:	2009 - Academic year 2009/10

General information

Decision number:	102582
Decision date:	2010-03-23
Decision type:	REPLACEMENT
Decision state:	W - to be completed modification deadline: 2011-03-15
Stage of creation:	Accepted
Next period of study:	(no change)
Comment:	Porozumienie w sprawie programu zajęć (LA)

External courses

No	Name	Term	Passed	ECTS	Language		Coordinator	Status	Options
Current approved course list									
1.	Logical Verification	2010L	NO	6.00	English	none / none	(unknown)	Z - approved	
	LAB WYK EGZ Educational institution: Vrije Universiteit Amsterdam								
2.	Network Programming	2010L	NO	9.00	English	none / none	(unknown)	Z - approved	
	WYK LAB EGZ Educational institution: Vrije Universiteit Amsterdam								
3.	Operating Systems Practical	2010L	NO	9.00	English	none / none	(unknown)	Z - approved	
	LAB Educational institution: Vrije Universiteit Amsterdam								
4.	Scientific Writing in English	2010L	NO	3.00	(unknown)	none / none	(unknown)	Z - approved	
	PRA-P WYK Educational institution: Vrije Universiteit Amsterdam								
5.	Software Configuration Management	2010L	NO	6.00	English	none / none	(unknown)	Z - approved	
	CW PRA-P WYK Educational institution: Vrije Universiteit Amsterdam								
Total number of ECTS credits attempted:				33.00					

Real life scenario – 3

- **International Relations Office** is ready to deliver lists of nominated students to partner institutions
 - Personal data
 - Learning agreement

- When student returns (after a semester or a year) IRO would like to get:
 - Transcript of records
 - Exact dates of arrival and departure (to calculate exact amount of scholarship)

Learning Agreement

LEARNING AGREEMENT
Academic year: Winter semester 2009/2010
Field of study: Informatics, Computer Science (code 11.3)

Name of student:
Aleksander G

Sending institution:
University of Warsaw

Country:
Poland

DETAILS OF THE PROPOSED STUDY PROGRAM ABROAD/LEARNING AGREEMENT

Receiving institution:
Université Paris Nord (Paris XIII)

Country:
France

Current version

<i>Course unit code (if any)</i>	<i>Course unit title (as indicated in the information package):</i>	<i>Number of ECTS credits if applied</i>
	Algoritmique parallele et distribuee	4
	Analyse de Fourier et theorie du signal	4
	Calcul haute performance	5
	Modelisation mathematique pour le traitement des images	5
	Programmation mathematique approfondie	5
	Systemes distribues	4

Date

Student's signature:

SENDING INSTITUTION

We confirm that this proposed program of study/learning agreement is approved.

The document has been automatically generated from the electronic system USOS. The study program listed above has been approved by Erasmus Departmental Coordinator.
Date: 2009-11-14

The document has been automatically generated from the electronic system USOS. The study program listed above has been approved by Erasmus Institutional Coordinator.
Date: 2009-11-14

RECEIVING INSTITUTION

We confirm that this proposed program of study/learning agreement is approved.

Departmental coordinator's signature

Institutional coordinator's signature

Date:

Date:

Learning Agreement → Transcript of Records

In reference to

Student:	Piotr S
Study program:	DM-JSIM - Double Degree Program in Computer Science and Mathematics
Stage:	JSIM4I - Fourth year JSIM 3I+4M
Term:	2007 - Academic year 2007/08

General information

Decision number:	75064
Decision date:	2008-08-17
i Decision type:	MODIFICATION
Decision state:	Z - approved
i Stage of creation:	Filling in
Next stage:	(no change)
Comment:	Porozumienie w sprawie programu zajęć (LA)

External courses

#	Name	Term	Passed	ECTS	Language	i	Coordinator	Status
1.	Agent Based Systems U02497	2007	YES	5.00	English	none / none	Michael Rovatsos	Z - approved
	CW (8 hours), WYK (20 hours). Institution: (in Polish) The University of Edinburgh							
2.	Computer Communications and Networks U03858	2007	YES	5.00	English	none / none	Mahesh Marina	Z - approved
	WYK (20 hours). Institution: The University of Edinburgh							
3.	Computer Security U03025	2007	YES	5.00	English	none / none	David Aspinall	Z - approved
	WYK (20 hours). Institution: (in Polish) The University of Edinburgh							
4.	Enterprise Computing U01902	2007	YES	5.00	English	none / none	Stephen Gilmore	Z - approved
	CW (8 hours), WYK (20 hours). Institution: (in Polish) The University of Edinburgh							
5.	Informatics 2D: Reasoning & Agents U02602	2007	YES	10.00	English	none / none	Jacques Fleuriot, Michael Rovatsos	Z - approved
	CW (10 hours), LAB (20 hours), WYK (30 hours). Institution: (in Polish) The University of Edinburgh							
max ECTS to achieve:				30.00	i			
achieved ECTS total:				30.00	i			

Grades from the University of Edinburgh

USOS - [Szczegóły przedmiotów zewnętrznych decyzji]

Akcja Edycja Zapytanie Blok Rekord Pole Okno Pomoc

Osoba **Sara**

Program **Informatyka, stacjonarne, jednolite magisterskie (DM-INF)**

Decyzja **18.09.2009 2008 14**

Przedmioty zewnętrzne | Dotychczasowe zaliczenia

Cykl dyd.	Kod przedmiotu	Nazwa przedmiotu	Ocena	ECTS	Zal.	Status
2008L		Agent Based Systems	5	5	<input checked="" type="checkbox"/>	Z
2008L		Compiling Techniques	5	5	<input checked="" type="checkbox"/>	Z
2008L		Enterprise Computing	5	5	<input checked="" type="checkbox"/>	Z
2008L		Informatics 2D: Reasoning & Agents	5	10	<input checked="" type="checkbox"/>	Z
2008L		Multi-agent Semantic Web Systems	5	5	<input checked="" type="checkbox"/>	Z
					<input type="checkbox"/>	
					<input type="checkbox"/>	
					<input type="checkbox"/>	

Przycisk "Filtruj po jedn." pozwala ograniczyć listę dostępnych do wpisania przedmiotów.

Zajęcia przedmiotu

Komentarz

Liczba ocen do średniej: Suma ocen do średniej: Suma ECTS:

Typ zajęć	Opis typu zajęć	Godz.	Ocena
CW	Ćwiczenia		
LAB	Laboratorium		
WYK-MON	Wykład monograficzny		

Dodatkowe informacje dotyczące przedmiotu

Nazwa angielska: **Agent Based Systems**

Koordinator:

Kod języka: **ANG**

Uczelnia (ze słownika szkół): **The University of Edinburgh**

Uczelnia (należy wpisać jedynie wówczas, gdy brak w słowniku):

Diploma supplement

DIPLOMA SUPPLEMENT

Valid with the Diploma no 1000/46331/2009

I. INFORMATION IDENTIFYING THE HOLDER OF THE QUALIFICATION

1. Surname: *S*
2. First name(s): *Piotr Krzysztof*
3. Date of birth (day, month, year): *24.09.1985*
4. Student identification number or code: *219737*

II. INFORMATION IDENTIFYING THE QUALIFICATION

1. Diploma number : *1000/46331/2009*
2. Name of qualification and the title conferred ¹⁾: *magister*
3. Main field of study and field of specialisation for the qualification : *Computer Science*
4. Name and status of awarding institution¹⁾:

Uniwersytet Warszawski

Uniwersytet Warszawski, established in 1816 is a public higher education institution. The university is entitled to confer the degrees of 'doktor', 'doktor habilitowany' and apply for the title of 'profesor'. The university educates students in the spirit of Magna Charta Universitatum and is also a party to the Agreement of Polish Universities on the Quality of Education, as a result of which the University Accreditation Commission was established.

5. Name and status of institution administering studies ²⁾:

Uniwersytet Warszawski

Uniwersytet Warszawski, established in 1816 is a public higher education institution. The university is entitled to confer the degrees of 'doktor', 'doktor habilitowany' and apply for the title of 'profesor'. The university educates students in the spirit of Magna Charta Universitatum and is also a party to the Agreement of Polish Universities on the Quality of Education, as a result of which the University Accreditation Commission was established.

The University of Edinburgh - United Kingdom

6. Language(s) of instruction/examination: *Polish, English*

III. INFORMATION ON THE LEVEL OF QUALIFICATION

1. Level of qualification: *second cycle programme*
2. Official length of programme: *5-year studies (3+2)*
3. Access requirements: *maturity certificate or entrance examination*

Academic year 2007/08

<i>Computer Security</i>	<i>wyk 20</i>	<i>5</i>	<i>5</i>
<i>Computer Communications and Networks</i>	<i>wyk 20</i>	<i>5</i>	<i>5</i>
<i>Enterprise Computing</i>	<i>wyk 20/cw 8</i>	<i>4</i>	<i>5</i>
<i>Agent Based Systems</i>	<i>wyk 20/cw 8</i>	<i>4,5</i>	<i>5</i>
<i>Decision support systems</i>	<i>sem 60</i>	<i>4,5</i>	<i>12</i>
<i>Distributed Systems</i>	<i>sem-mgr 60</i>	<i>ZAL</i>	<i>6</i>
<i>Informatics 2D: Reasoning & Agents</i>	<i>wyk 30/cw 10/lab 20</i>	<i>4,5</i>	<i>10</i>

Real life scenario – 4

- Similarly for incoming students ...

Admission of incoming students



Online application for short-term studies University of Warsaw

[Home](#)

[Help](#)

[Log in..](#)

mobility.uw.edu.pl > Home

Welcome to the online application for short-term studies

In order to apply for short-term studies at the University of Warsaw please [create a new account](#) and then follow the instructions.

Application Deadlines 2011/2012:

Full academic year or first semester (starting October 1st, 2011):
May 15th, 2011

Second semester (starting February 13th, 2012):
November 15th, 2011

E-mail:

Password:

[Create a new account](#)

[Recover forgotten password](#)

Version 2.1.1.20110302, 2011-03-14 (svn: 1754)

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.

Real life scenario – 5

- A lot of information has to be passed during the whole process
- Partner universities keep this information in their databases and handle it using sophisticated computer systems ...

but

deliver it to partners by fax, email, phone

or

enter it manually to each other systems

(many different systems, many different styles and requirements, frequent updates are necessary, problems with national alphabets, e.g. *ą, ę, ł, ń, ó, ś, ź, ż*)

Real-life Wishful scenario

?

List of nominated students → SEND button

Projekt MOBILITY
Kawka testowa projektu MOBILITY.
Proszę nie używać w trakcie pracy na bazie produkcyjnej.

Data przyjazdu osoby wyjeżdżającej do uczelni przyjmującej:

Wysyłanie listy nominowanych studentów:

Kod ERASMUS uczelni partnerskiej	Umowa	Rok akademicki wyjazdu	<input type="button" value="Wyślij"/>
<input type="text" value="PARMA01"/>	<input type="text" value="1207/E/X108"/>	<input type="text" value="2009"/>	<input type="text" value="partner_send_nominated_stud"/>

Ostatni komunikat o błędzie

Wszystkie dane pobrane z systemu są wpisywane do formularza, jednak nie są zapisywane do bazy danych.

MOBILITY w1
MOBILITY w2

List of incoming students → GET button

USOS - [Przyjazdy]

Akcja Edycja Zapytanie Blok Rekord Pole Okno Pomoc

Osoby Program <wszystkie> Etap <wszystkie> Cykl dydaktyczny <wszystkie> Miejsce <wszystkie> Filtruj po etapach

Projekt MOBILITY

Kod dyscypliny	Poziom studiów	Rok. akad. przyjazdu	Okres przyjazdu	Jednostka przyjmująca	Czas utworzenia wpisu
08.4	2	2008	S1	Facolta di Lingue e Letterature straniere	19.06.2009 12.38.33
10.0	4	2008	S2	Facolta di Giurisprudenza, Instituto di Diritto e	19.06.2009 12.38.33
10.0	2	2008	S1	Facolta di Lingue e Letterature straniere	20.06.2009 17.42.52
10.0	4	2008	S2	Facolta di Giurisprudenza, Instituto di Diritto e	20.06.2009 17.42.52

Jednostka wysyłająca
Instytut Archeologii

Nazwisko i imię koordynatora jednostki przyjmującej
Prof. Modrzewska-Pianetti Iwona

Nazwisko	Imię	Data urodzenia	Kraj urodzenia	Płeć	Czas utworzenia wpisu
Kurzydłowski	Michał	1985-10-26	PL	M	19.06.2009 12.38.33
Kowalski	Fabio	1985-01-14	PL	M	19.06.2009 12.38.33

Miasto urodzenia Email
Warszawa michal.kurzydowski@student.s.mimuw.edu.pl

Zamknij

MOBILITY w. 1
MOBILITY w. 2

Organization data of the partner institution → GET button

Programy | Projekty | Projekty - budżety | Umowy | Warunki współpracy

Umowy

(*) Rodzaj	(*) Numer	(*) Data podpis	(*) Data rozpocz	Data ważności	(*) Status	
Bilateralna	408/E/XII06	08.12.2006	01.07.2007	30.09.2008	podpisana	Osoby zewnętrzne
Bilateralna	475/E/XI06	08.12.2006	01.07.2007	30.09.2008	podpisana	Jednostki zewn.

Projekt Bologna

W formularzu są dostępne dane przesłane z uczelni partnerskich przez usługę sieciową sendHeiData.
W obecnie dostępnej wersji dane można tylko przeglądać i usuwać.

Kod uczelni	Nazwa uczelni	Czas utworzenia wpisu
PARMA01	University of Parma	22.05.2009 11.03.26
PARMA01	University of Parma	22.05.2009 11.02.41
PARMA01	University of Parma	22.05.2009 10.14.48
PARMA01	University of Parma	22.05.2009 09.59.16

Euc ID: 29240-IC-1-2007-1-IT-ERASMUS-EUC-1

URL uczelni: www.unipr.it

Kraj: IT Kod pocztowy: 43100 Miasto: Parma

Ulica: via universita Numer domu: 12

Koordynator administracyjny

Nazwisko: Cordaro Imię: Tiziana Stanowisko: Head of International Student Exchanges Service

Telefon: +390521034150 Fax: +390521034353 e-mail: tiziana.cordaro@unipr.it

Nazwa jednostki organizacyjnej: Servizio Scambi Didattici Internazionali Nazwa angielska jednostki organizacyjnej: International Student Exchanges Service

Koordynator instytucji

Nazwisko: Prof. Iaccarino Imię: Silvia Stanowisko: Rector delegate international student mobility

Telefon: +390521905359 Fax: +390521905305 e-mail: silvia.iaccarino@unipr.it

Nazwa jednostki organizacyjnej: Dipartimento di Lingue e Letterature Straniere Nazwa angielska jednostki organizacyjnej: Department of Earth Science

Goal of the Mobility Project

Support daily duties of **International Relation Offices** which are responsible for handling international cooperation of Higher Education Institutions, in particular student and staff mobility, by enabling **electronic exchange of the involved data**

What data?

- Details of bilateral agreements (cooperating conditions)
- Personal data of mobile students and staff
- Details of the stay abroad
- Learning Agreements
- Transcript of Records
- Course catalogues

The Mobility Project – History 1

- **June 2008, EUNIS 2008** (Aarchus)
 - Presentation of the USOS Mobility module for IRO
 - **MUCI** (Polish consortium) and **CINECA** (Italian consortium) decide to start the project
- **June 2009, EUNIS 2009** (Santiago de Compostela)
 - First version of the mobility network is presented
 - Workshop of **RS3G** standardization body gathers other interested groups (national consortia, software companies, universities)
- **November 2009, RS3G Workshop** (Uppsala)
 - Brings together consortia and companies willing to take an active part in the project
 - Main problem domains identified
 - Discussion on WSDL starts

The Mobility Project – History 2

- **March 2010, RS3G Workshop** (Bologna)
 - Brings together the Mobility Group and **TERENA TF-EMC2** to discuss the aspects of security and of identity and access management
 - Possible solutions outlined
- **June 2010, EUNIS 2010** (Warsaw)
 - RS3G workshop - some important plans made on how to speed up the project (→ Coding Camp)
- **December 2010, RS3G Workshop** (Malaga)
 - Joint meeting with **TERENA TF-EMC2**, technical security details discussed and approved

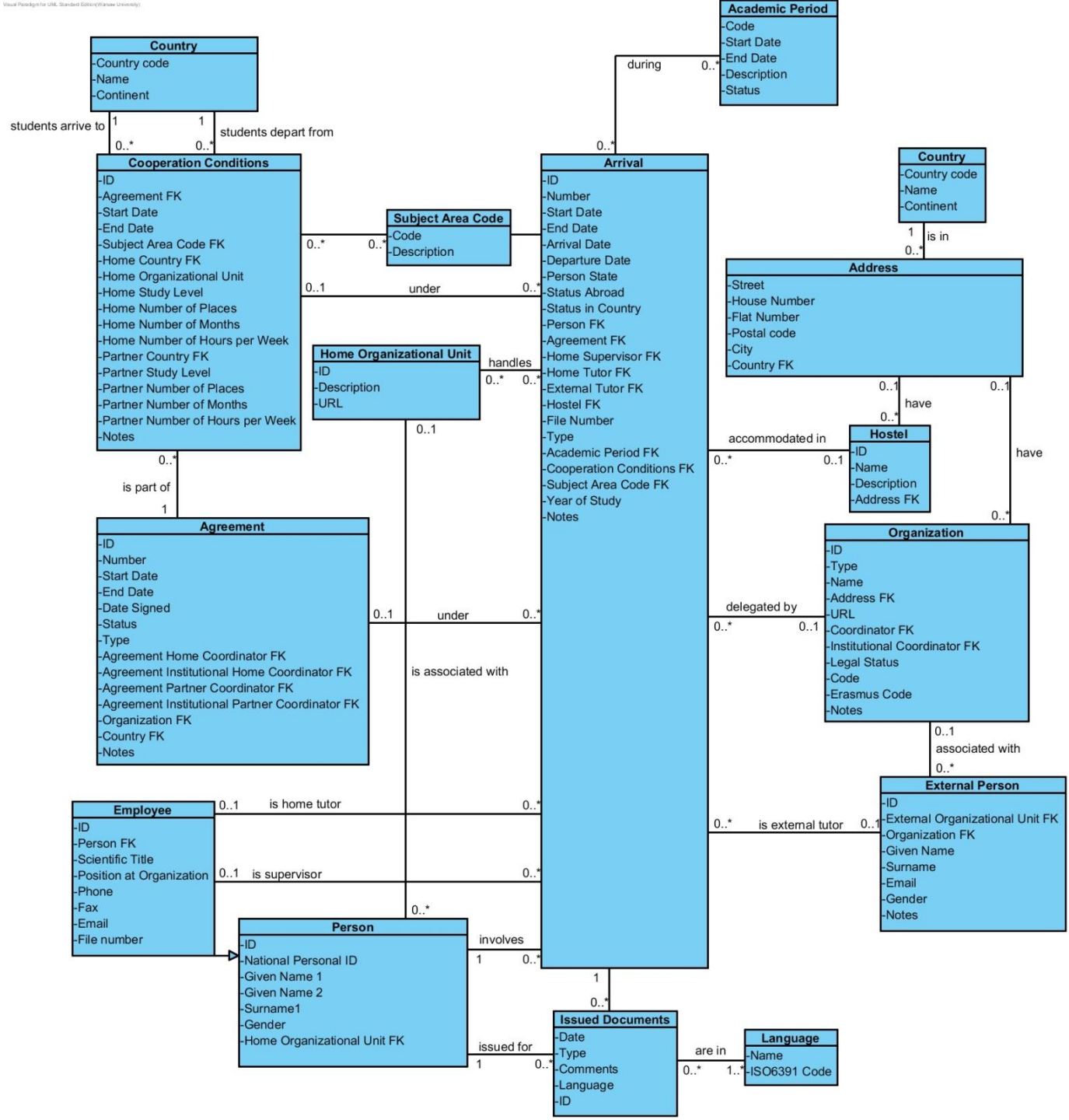
The Mobility Project – History 3

- **March 2011, RS3G Coding Camp** (Barcelona)
 - Meeting IRO people, discussing technical issues, extending network of mobility nodes
 - Decision on developing the platform for **exchange of organization data** (so called infosheets or business cards)
- **June 2011, RSG Workshop** (Dublin)
 - meeting with CEN and JISC people – how to develop European standard for data exchange
- **September 2011**
 - Seven business cards from 6 countries posted on the mobility server

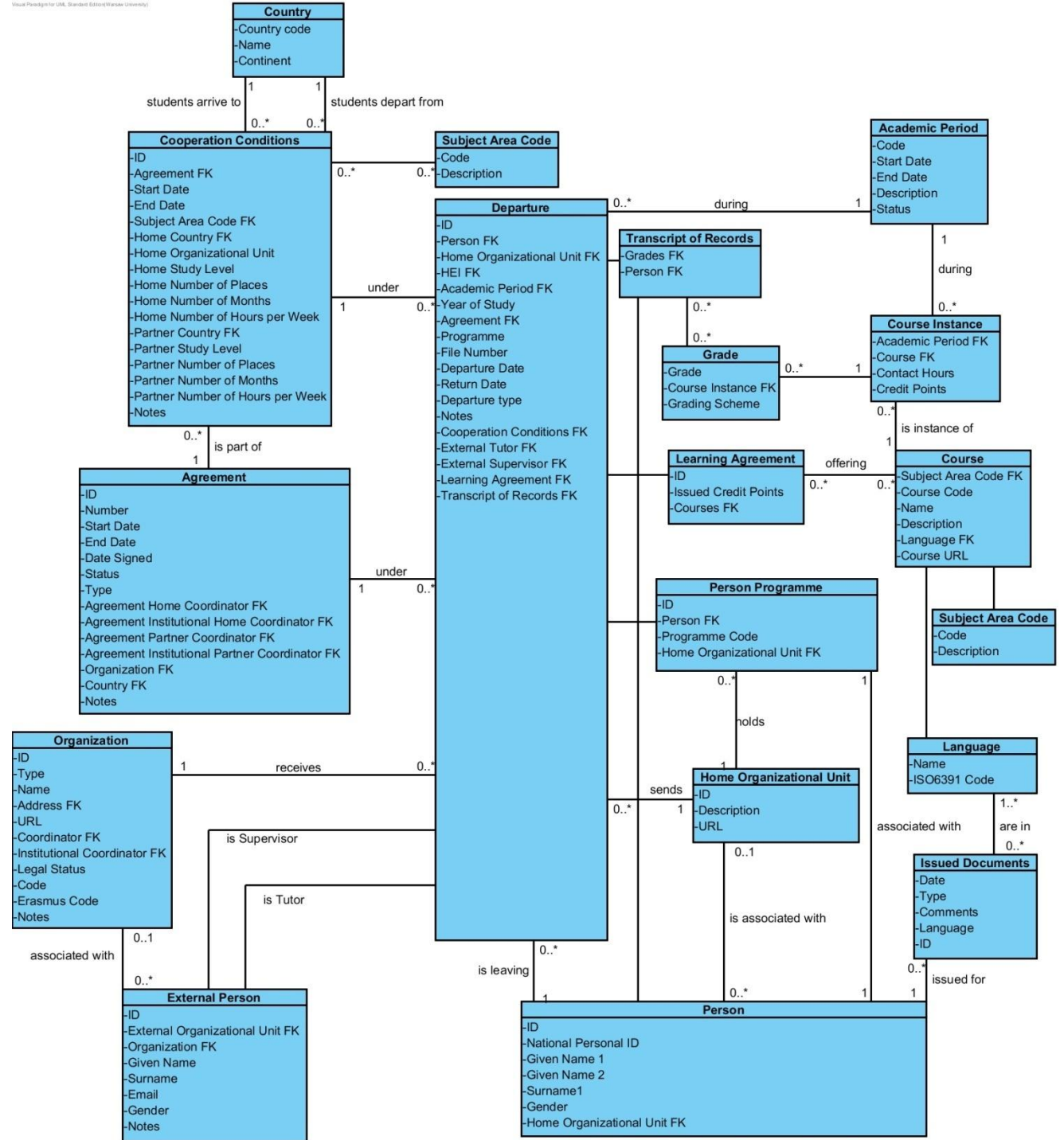
Achievements

What have we achieved?

Data model Arrivals



Data model Departures



Data format – WSDL

- Requirements concerning data format
 - Should model the **problem domain** well
 - Should be as **simple** as possible and conform to existing **standards** as strictly as possible, **but**
 - Existing standards do not conform to each other
 - They do not cover fully the problem domain
 - Extra requirements need to be fulfilled to send data from database to database
- We tried to take into account achievements of:
 - **Metadata for Learning Opportunities (MLO)** – programs of study and course catalogs
 - **European Learner Mobility (ELM)** – Europass portfolio
 - **SCHAC (SCHema for Academia)** – LDAP attributes



SEND and GET requests (web services)

sendOrganizationData()

getOrganizationData()

sendAgreementData(), getAgreementData()

sendNominatedStudents()

getNominatedStudents()

sendArrivalDate(), getArrivalDate()

sendDepartureDate(), getDepartureDate()

sendLearningAgreement()

getLearningAgreement()

sendTranscriptOfRecords()

getTranscriptOfRecords()

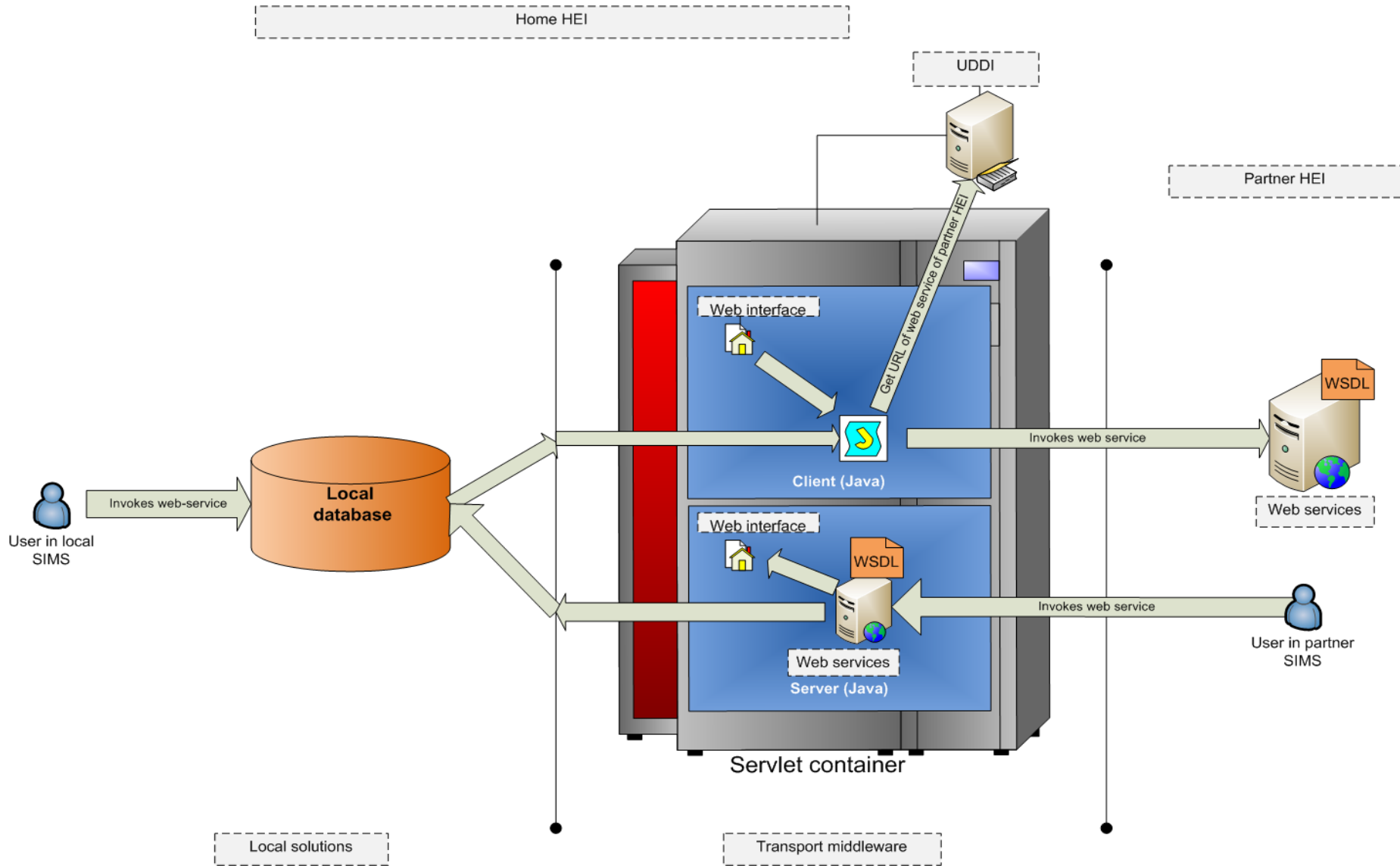
getCourseData()

validateNationalPersonalID()

Software for the mobility network

- Distributed network of web servers, one for each HEI
- UDDI (**Universal Description Discovery and Integration**) registry stores addresses of endpoints
- Technologies involved (**open source**):
 - Java with Spring framework
 - Apache as HTTP server and Apache Tomcat as a servlet container
 - Apache Camel as a routing and mediation engine
 - Apache CXF as a web services framework
 - Apache jUDDI as a UDDI Registry implementation
 - Apache Qpid as an AMQP implementation
 - ICEfaces as RIA (*Rich Internet Application*) framework etc.
- Preconfigured, easy to install **mobility package**

Architecture of the mobility network



UDDI – Universal Description, Discovery and Integration (registry of Mobility nodes)

Mobility Client

- Information
 - Introduction
- Web Service Methods
 - OrganizationData
 - sendOrganizationData
 - getOrganizationData
 - AgreementData
 - sendAgreementData
 - getAgreementData
 - NominatedStudents
 - sendNominatedStudents
 - getNominatedStudents
 - ArrivalDate
 - sendArrivalDate
 - getArrivalDate
 - DepartureDate
 - sendDepartureDate
 - getDepartureDate
 - CourseData
 - getCourseData
 - LearningAgreement
 - sendLearningAgreement
 - getLearningAgreement
 - TranscriptOfRecords
 - sendTranscriptOfRecords
 - getTranscriptOfRecords
 - Other
 - validateNationalPersonalId
- UDDI Registry
 - Edit
- Help
 - WSDL

UDDI Registry

	Id	Name	WSDL URL
<input type="radio"/>	unipr.it	it:Universita degli Studi di Parma	http://usosphp.7878/mobility-server-transport/webservices/mobility-service?wsdl
<input checked="" type="radio"/>	uw.edu.pl	pl:Uniwersytet Warszawski	http://usosphp.7979/mobility-server-transport/webservices/mobility-service?wsdl

Details

Id * 246 left / 255

Name *

Language

Localized Name

WSDL URL *

Contact

Person Name

Phone Number

Service Name

Service Description

* - required

Web client (client= WARSAW, server= PARMA)

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

Mobility Client

Information

- Introduction
- Web Service Methods
 - OrganizationData
 - sendOrganizationData
 - getOrganizationData
 - AgreementData
 - sendAgreementData
 - getAgreementData
 - NominatedStudents
 - sendNominatedStudents**
 - getNominatedStudents
 - ArrivalDate
 - sendArrivalDate
 - getArrivalDate
 - DepartureDate
 - sendDepartureDate
 - getDepartureDate
 - CourseData
 - getCourseData
 - LearningAgreement
 - sendLearningAgreement
 - getLearningAgreement
 - TranscriptOfRecords
 - sendTranscriptOfRecords
 - getTranscriptOfRecords
 - Other
 - validateNationalPersonalId
- UDDI Registry
 - Edit
- Help
 - WSDL

Client

Id: uw.edu.pl
Name: pl:Unwersytet Warszawski
WSDL URL: http://usosphp.7979/mobility-server-transport/webservices/mobility-service?wsdl

Server

Id: unipr.it
Name: it:Universita degli Studi di Parma
WSDL URL: http://usosphp.7878/mobility-server-transport/webservices/mobility-service?wsdl

Request

Resource: xml/client=uw.edu.pl
Path: /server=unipr.it
Sample Data File: sendNominatedStudentsRequest.xml
Upload a file:

```
1 <?xml version="1.0" encoding="UTF-8"?><tns:sendNominatedStudentsRequest
2 xmlns:tns="http://mobility.usos.edu.pl" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
3 xsi:schemaLocation="http://mobility.usos.edu.pl MobilitySchema.xsd">
4   <tns:agreementId>
5     <tns:homeId>
6       <tns:organizationId>uw.edu.pl</tns:organizationId>
7       <tns:value>962/E/II08</tns:value>
8     </tns:homeId>
9     <tns:partnerId>
10      <tns:organizationId>unipr.it</tns:organizationId>
11      <tns:value>1207/E/XI08</tns:value>
12    </tns:partnerId>
13  </tns:agreementId>
14  <tns:academicYear>2008</tns:academicYear>
15  <tns:nominatedStudentsWithPersonalData>
16    <tns:uniquePersonalData>
17      <tns:student>
18        <tns:nationalPersonalId>PL:85 </tns:nationalPersonalId>
19        <tns:givenName1>Michał</tns:givenName1>
20        <tns:givenName2>Marek</tns:givenName2>
21        <tns:surname1>Kurzydłowski</tns:surname1>
22        <tns:gender>1</tns:gender>
23      </tns:studentId>uw.edu.pl:8001</tns:studentId>
```

Data successfully sent.

Type	Line	Column	Report
------	------	--------	--------

Response

```
1 <?xml version="1.0" encoding="UTF-8"?><tns:sendArrivalDateResponse xmlns:tns="http://mobility.usos.edu.pl"
2 xsi:schemaLocation="http://mobility.usos.edu.pl MobilitySchema.xsd" xmlns:soap="http://schemas.xmlsoap.org
3 /soap/envelope/" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"/>
```

Web server (server=PARMA)

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

Mobility Server

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/108</tns:value>
    </tns:homeId>
    <tns:partnerId>
      <tns:organizationId>unipr.it</tns:organizationId>
      <tns:value>1207/E/108</tns:value>
    </tns:partnerId>
  </tns:agreementId>
  <tns:academicYear>2008</tns:academicYear>
  <tns:nominatedStudentsWithPersonalData>
    <tns:uniquePersonalData>
      <tns:student>
        <tns:nationalPersonalId>PL:85      </tns:nationalPersonalId>
      </tns:student>
    </tns:uniquePersonalData>
  </tns:nominatedStudentsWithPersonalData>
</tns:sendNominatedStudentsRequest>
```

Exchange of Organization Data

- First (necessary) step in any cooperation – each institution every year sends/gets hundreds of organization **Business Cards**
- **Easy to develop and easy to use:**
 - Business cards stored in XML format as flat files on disk (or obtained on the fly from the data stored in a local database)
 - **sendBusinessCard()** sends the data to a server
 - Server automatically posts it on the web (INSERT or UPDATE)
 - **getBusinessCard()** can be used to get the data
- Every institution can join with minimal effort (preparing XML file with the data)
- There may be one mobility node for all partners or one per institution. One common registry stores available services.
- Eventually services will get integrated with local system

- Information
 - Introduction
- Web Service Methods
 - BusinessCard
 - sendBusinessCard
 - getBusinessCard
 - OrganizationData
 - sendOrganizationData
 - getOrganizationData
 - AgreementData
 - sendAgreementData
 - getAgreementData
 - NominatedStudents
 - sendNominatedStudents
 - getNominatedStudents
 - ArrivalDate
 - sendArrivalDate
 - getArrivalDate
 - DepartureDate
 - sendDepartureDate
 - getDepartureDate
 - CourseData
 - getCourseData
 - Learning Agreement
 - sendLearningAgreement
 - getLearningAgreement
 - TranscriptOfRecords
 - sendTranscriptOfRecords
 - getTranscriptOfRecords
 - Other
 - validateNationalPersonalId
- UDDI Registry
 - Edit
- Help
 - WSDL

Client

Id: unipr.it
 Name: it:Universita degli Studi di Parma
 WSDL URL: https://michalk.mimuw.edu.pl:8443/mobility-server-transport/webservices/mobility-service?wsdl

Server

Id: uw.edu.pl
 Name: en:University of Warsaw
 pl:Uniwersytet Warszawski
 WSDL URL: https://michalk.mimuw.edu.pl:8443/mobility-server-transport/webservices/mobility-service?wsdl

Request

Resource: xml/client=unipr.it
 Path: /server=any
 Sample Data File: sendBusinessCardRequest.xml
 Load Upload a File Przegladaj... Send

```

1 <?xml version="1.0" encoding="UTF-8"?><tns:sendBusinessCardRequest
2 xmlns:tns="http://mobility.usos.edu.pl" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
3 xsi:schemaLocation="http://mobility.usos.edu.pl MobilitySchema.xsd">
4   <tns:organizationBCSection>
5     <tns:organizationId>unipr.it</tns:organizationId>
6     <tns:name>University of Parma</tns:name>
7     <tns:website>www.unipr.it</tns:website>
8     <tns:address>
9       <tns:street>Via Universita 12</tns:street>
10      <tns:postalCode>43100</tns:postalCode>
11      <tns:localityName>Parma</tns:localityName>
12      <tns:countryName>IT</tns:countryName>
13    </tns:address>
14    <tns:facsimileTelephoneNumber>+39 052 1905305</tns:facsimileTelephoneNumber>
15  </tns:organizationBCSection>
16  <tns:iroOfficeBCSection>
17    <tns:staffMember>
18      <tns:personalPosition>Administrative coordinator</tns:personalPosition>
19      <tns:displayName>Tiziana Cordana</tns:displayName>
20    </tns:staffMember>
21    <tns:staffMember>
22      <tns:personalPosition>Rector delegate international student mobility</tns:personalPosition>

```

Validate against schema Invoke Broadcast

Type	Line	Column	Report
Response			
	1		
	2		

Invocation of **sendBusinessCard()** on the mobility client

University of Warsaw

List of partner organizations

University of Warsaw

List of partner organizations

University of Parma

show business card

Subsequent invocations of **sendBusinessCard()** as observed on the mobility server

University of Warsaw

List of partner organizations

University of Parma

show business card

University of Porto

show business card

University of Warsaw

List of partner organizations

University of Parma

show business card

University of Porto

show business card

University of Oslo

show business card

Subsequent invocations of **sendBusinessCard()** as observed on the mobility server

UW
Business
Card
Part I

University of Warsaw

Institution name	University of Warsaw
Website	www.uw.edu.pl
Address	Krakowskie Przedmieście 26/28 00-927 Warsaw, PL
Fax	+48 22 55 24 011
Erasmus code	PL WARSZAW01
Erasmus charter	45834-IC-1-2007-1-PL-ERASMUS-EUCX-1
Vice-rector for research and international relations	
Prof Włodzimierz Lengauer	+48 22 55 20 350 wlengauer@adm.uw.edu.pl

International Relations Office

Website	www.iro.uw.edu.pl
Location	Central Campus, Kazimierzowski Palace, 2. floor, rooms 22, 24, 28
Head of the office and erasmus institutional coordinator	
Sylwia Salamon	Tel: +48 22 55 24 009 s.salamon@uw.edu.pl
Erasmus incoming students	
Klementyna Kielak	Tel: +48 22 55 24 070 klementyna.kielak@adm.uw.edu.pl

UW Business Card Part II

Erasmus outgoing students

Monika Satała

Tel: +48 22 55 20 818
monika.satala@adm.uw.edu.pl

Other exchange students

Grażyna Andrejuk

Tel: +48 22 55 20 434
grazyna.andrejuk@adm.uw.edu.pl

More staff contact information

http://www.bwz.uw.edu.pl/en/?page_id=43

List of Erasmus Departmental Coordinators

http://www.bwz.uw.edu.pl/nowa/en/wp-content/uploads/2010/02/Coordinators_2010_2011.pdf

Mobility management

Centralized

Exchange program information

Academic System

Two semester system

Academic Calendar
(exams included)

Academic Year: October, 1st – end of June
(the last date may differ year on year)
 Semester 1: 1st October – mid February
 Semester 2: mid February – end of June

Deadlines for
applications

Semester 1 /whole academic year: **May, 15**
 Semester 2: **November, 15**

Admission website
(on-line registration
compulsory)

www.mobility.uw.edu.pl

Orientation week
(organized by IRO;
strongly encouraged)

Semester 1: last week of September
(exact dates may differ from year on year)
 Semester 2: first week of Semester

UO
Business
Card
Part I

University of Oslo

Institution name	University of Oslo
Website	www.uio.no
Address	P.O. Box 1072 Blindern N-0317 Oslo, NO
Fax	+47 22858488
Erasmus code	N Oslo01
Prof Ole Petter Ottersen	+47 22856303 rektor@uio.no

International Relations Office

Website	www.uio.no/english/studies/admission/exchange/erasmus/
Location	Lucy Smiths hus Problemveien 7, 0313 Oslo
Head of International Education Office	
Guri Vestad	Tel: +47 22858482 guri.vestad@admin.uio.no
Erasmus incoming students	
Helene Johansen	Tel: +47 22856207 helene.johansen@admin.uio.no
Erasmus outgoing students	
Jan Morten Øien	Tel: +47 22857889 j.m.oien@admin.uio.no

UO Business Card Part |II

Exchange program information

Academic System	Two semester system
Academic Calendar (exams included)	Academic Year: Mid August – mid June <i>(the dates may differ year on year)</i> Semester 1: Mid August – mid December Semester 2: Early January – mid June www.uio.no/english/studies/about/academic-calendar/
Deadlines for applications	Semester 1 /whole academic year: May, 31 Semester 2: October, 31
Admission website	www.uio.no/english/studies/admission/exchange/erasmus/
Orientation week	Semester 1: last week of September <i>(exact dates may differ from year on year)</i> Semester 2: first week of Semester
Course Catalogue	www.uio.no/english/studies/courses/
Language of Instruction	Norwegian English* <i>*for details please check the websites of the relevant faculties</i>
Workload per semester	Maximum 30 ECTS

Additional useful information

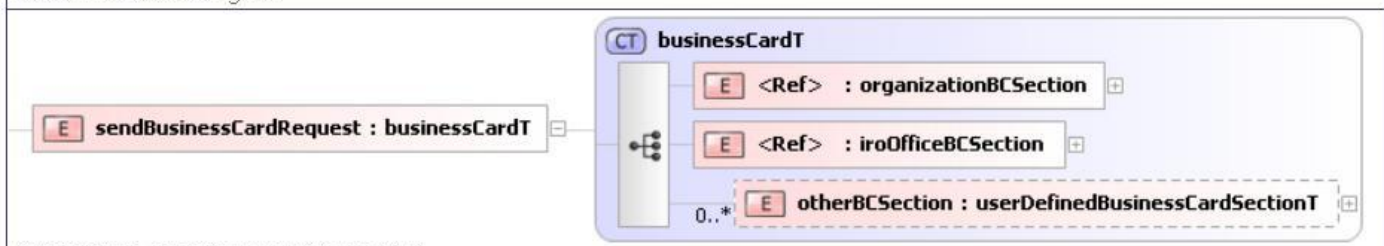
Information for new students	www.uio.no/english/studies/new-student/
Language courses for Erasmus incoming students	www.uio.no/english/studies/admission/exchange/erasmus/
Housing assistance	Housing reservation possible – information will be provided in the acceptance packet.
Housing options	www.uio.no/english/studies/new-student/housing/
Housing application deadlines	June 25 for autumn semester and November 25 for spring semester.

- All Items
 - Elements
 - getBusinessCardRequest (tns)
 - getBusinessCardResponse (tns)
 - iroOfficeBCSection (tns)
 - organizationBCSection (tns)
 - sendBusinessCardRequest (tns)
 - sendBusinessCardResponse (tns)
 - Complex Types
 - addressT (tns)
 - businessCardT (tns)
 - descLineT (tns)
 - itemNameT (tns)
 - itemValueT (tns)
 - staffSectionItemT (tns)
 - userDefinedBusinessCardSectionT (tns)
 - userDefinedSectionItemT (tns)
 - Simple Types
 - countryCodeT (tns)
 - domainT (tns)
 - emailT (tns)
 - facsimileTelephoneNumberT (tns)
 - idAttrT (tns)
 - organizationIdT (tns)
 - personalPositionT (tns)
 - telephoneNumberT (tns)
 - Schemas
 - BC.xsd (tns)

Business Cards of Higher Education Institutions

Definition Type	Element
Name	sendBusinessCardRequest
Namespace	http://mobility.usos.edu.pl
Type	tns:businessCardT
Abstract	False
Documentation	Send university business card.
XSD Schema	BC.xsd

XSD Schema Diagram



Liquid XML Studio - FREE Community Edition 7.1.4.1284

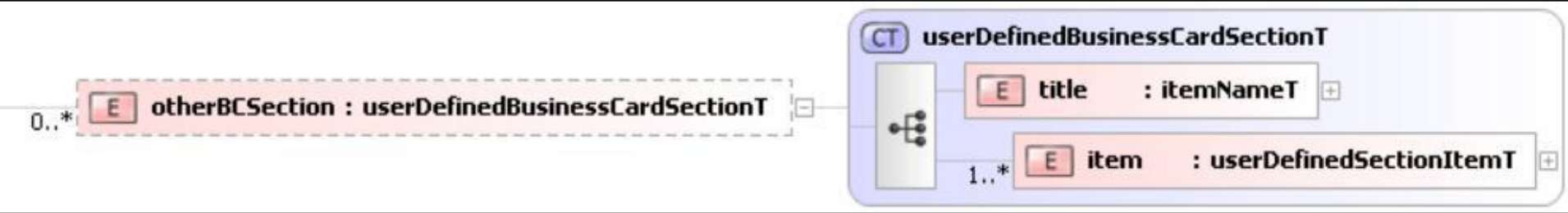
XSD Schema Code

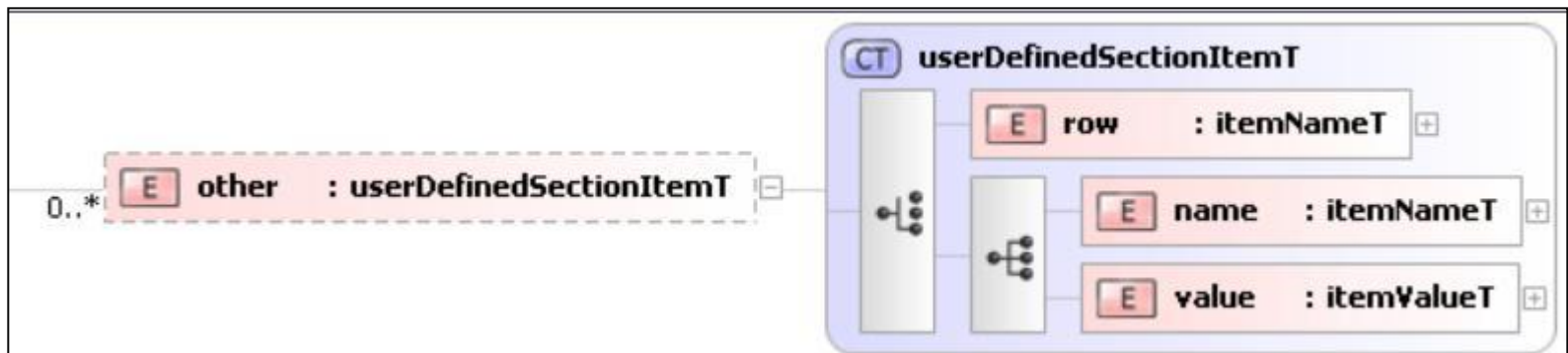
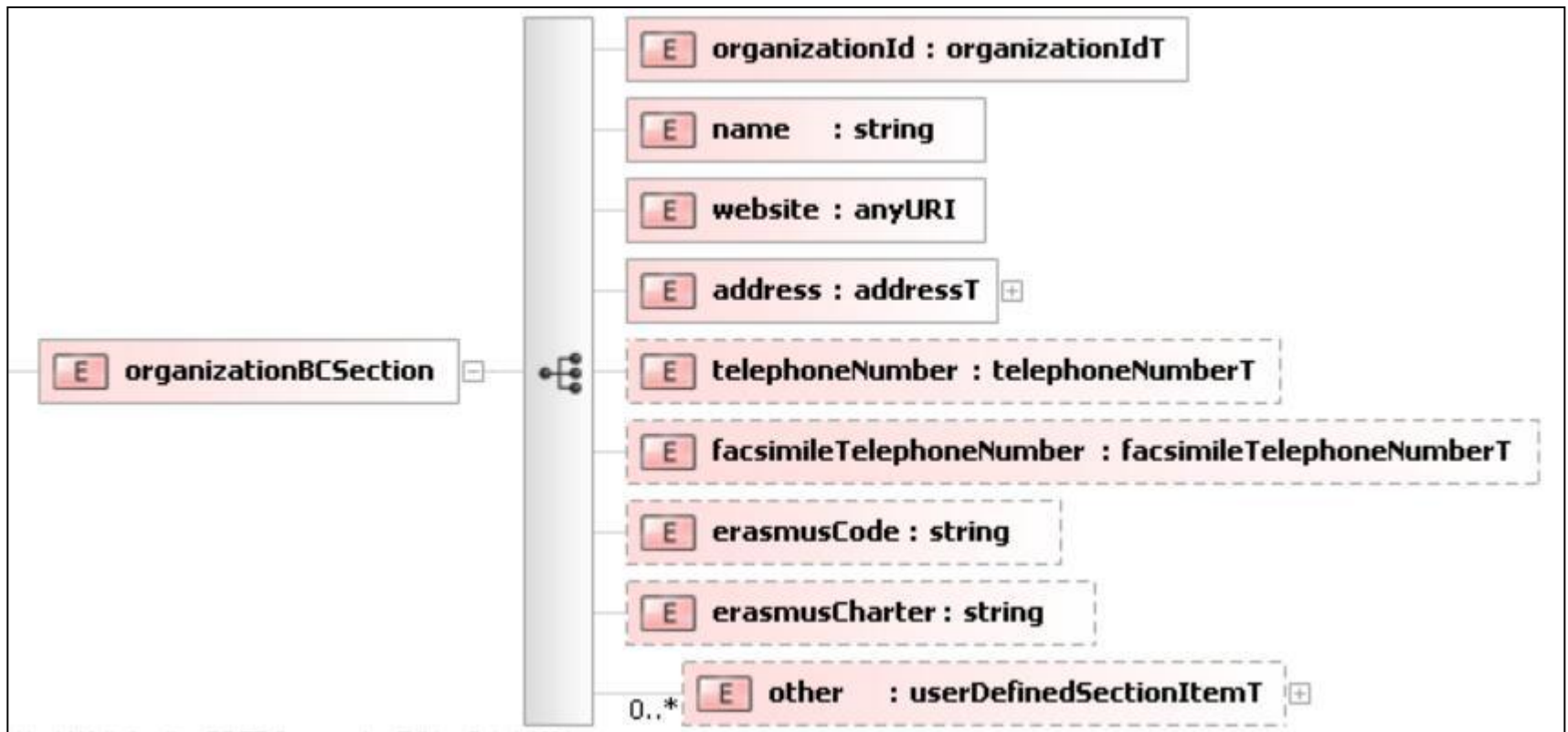
```
<xsd:element name="sendBusinessCardRequest" type="tns:businessCardT" >
  <xsd:annotation>
    <xsd:documentation>Send university business card.</xsd:documentation>
  </xsd:annotation>
</xsd:element>
```

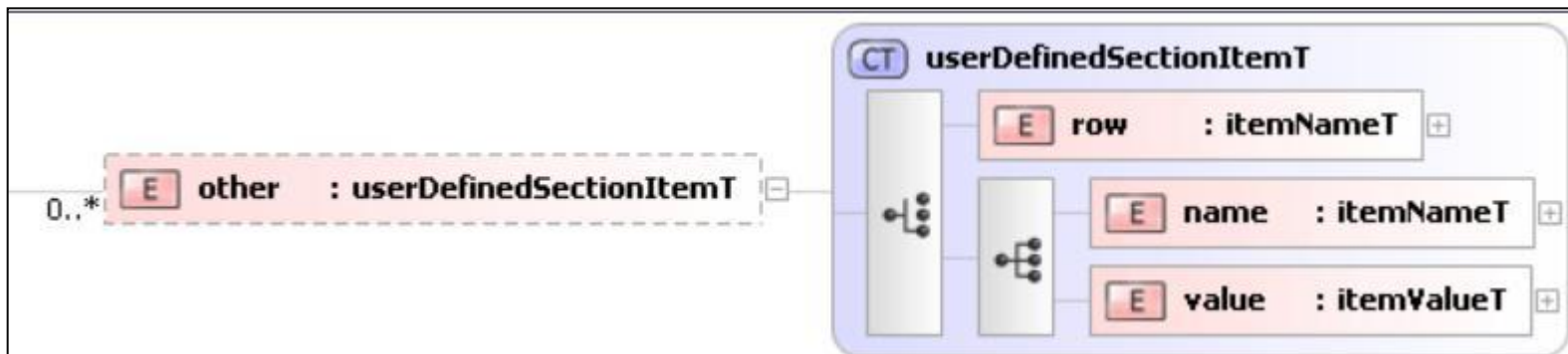
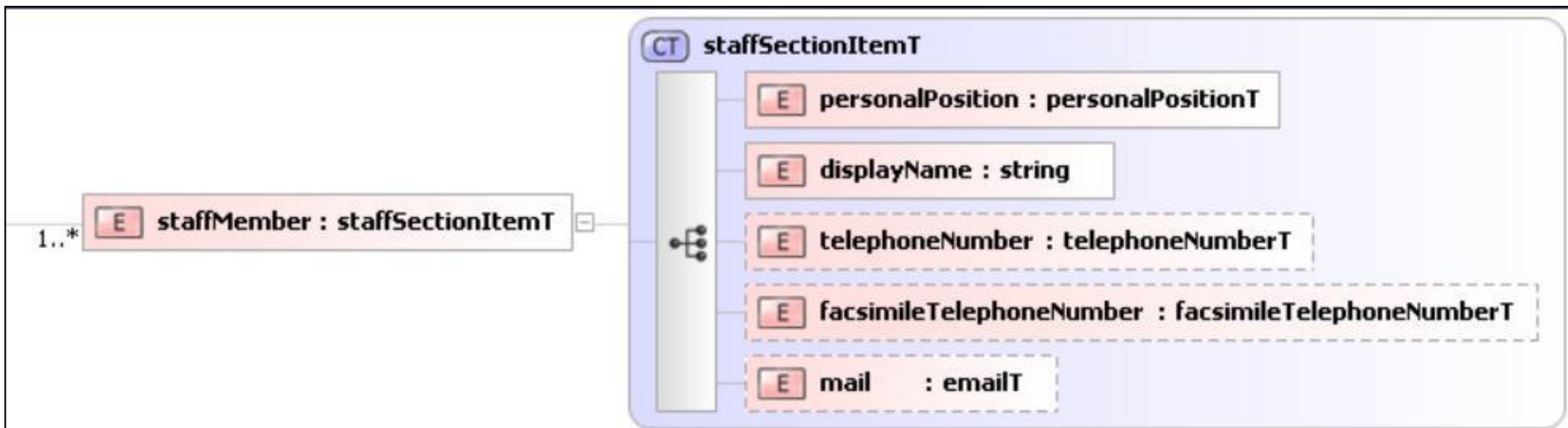
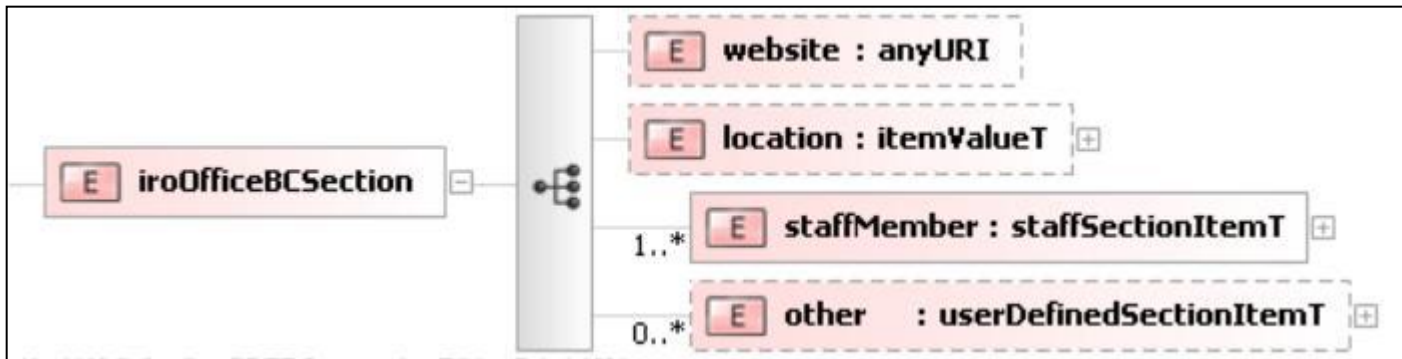
Child Elements

Name	Type	Min Occurs	Max Occurs
organizationBCSection	tns:organizationBCSection	(1)	(1)
iroOfficeBCSection	tns:iroOfficeBCSection	(1)	(1)
otherBCSection	tns:otherBCSection	0	unbounded

Derivation Tree







Technical issues

- Scalability – **Broadcast** button may also be available to send BC to all registered partners
- Security – **TERENA certificates** are used by the mobility nodes
 - Client checks server certificate (TLS)
 - Server gets the client id from the received message, looks for the id in the registry, reads the associated domain, compares with the domain inside the client's certificate
- Registry – UDDI was used for the pilot, registry developed as part of core middleware of **GEANT3**
DJ3.3.2 **GEMBus** Deliverable (by Roland Hedberg) may be used for the real mobility network

REST vs SOAP

- **REST implementation** of the mobility network was also developed
- REST uses WADL instead of WSDL (but the data format is the same)
- REST and SOAP implementations may use the same GEMBus registry
- REST and SOAP use the same security model and certificates
- REST Mobility and SOAP Mobility may eventually both be deployed on GEMBus, depending on preferences of the HEIs

Problems to solve, steps to make

- Recognizing real life scenarios of various universities, describing business cases, testing business model - processes are similar but local requirements and procedures need not (IRO staff)
- Making decision on the amount and format of exchanged data (IRO staff)
- Developing software – needs involvement of software vendors from various European countries (IT people),
- Deploying software in cooperation with partner institutions (IRO staff and IT people)
- Supporting sustainability on a European level

Help to build Mobility network

