Student management with HISinOne – a status report

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EUNIS 2013, Riga, 13 JUN 2013
• The University of Duisburg-Essen
• HIS & the HEI software HISinOne
• Motivation
• Timeline
• Technical infrastructure
• Demo
• Lessons learned
Main Research Areas

• Nanosciences
• Biomedical Sciences
• Empirical Research in Education
• Urban Systems
• Change of Contemporary Societies

• Students: ca. 39,000
• Focus: education of teachers

Source: http://www.uni-due.de/en/university.php
Changemanagement at the UDE
A close partnership between IT and Organisational Development (OD)

Management processes
- Strategy
- Leadership
- Change
- Responsibility for all core processes
- Specification of duties and responsibilities

Core processes
- Teaching, University Studies, Examination, Research
- Career Advancement for Young Academics

Supporting processes
- Administration, IT
- Supporting Structure, Service by additional Divisions

Aims
- Quality, Excellence
- Return on Investment

How can OD and IT cooperate in order to develop and optimize the core processes?
... close interaction of OD and IT ...
HIS
- Company founded 1969 in Hannover
- Software development for HEI administration software

HISinOne
- Latest HIS software product generation
- Holistic Campus Management IT system
- Technically & functionally integrated
- Web-based
- Configurable rights & roles concept
- Runs on Java, Tomcat, Postgresql

2008: UDE takes decision to migrate to HISinOne platform
Why HISinOne?

- In 2012: Former german „Staatsexamen Lehramt“ replaced by „Bachelor/Master of Education“ for new enrolment
- Exam organisation and management transferred from public agency („Landesprüfungsamt“) to universities
- Latest generation of HEI IT system HISinOne better suited for managing B.of Ed. courses of study (polyvalencies etc)
HISinOne (functional modules Vers.4.0.2 2013)

Product segment: Campus management

- Application (APP)
- Study- and tuition fee management (STU/FIA)
- Exam & lecture management (EXA)
- Identities and rooms (PSV)
- Alumni, Career service, fund raising (ALU)

Online application
Staff functions
Customizing allocation schemes
Operative allocation of applicants
Report generation

Enrolment
Leave of absence
End of study
Report generation

Tuition fee administration
Debt claim administration
Debt claim matching
Report generation

Examination and lecture regulations
Modules management
University calendar
Exam planning
Registration and occupancy
Grade management
Timeline

2009

Phase-out

Intraworld

APP, ALU
(HISinOne 2.x)

2010

Phase-out

SOS-GX,QISSOS

APP, EXA
(HISinOne 3.x)

2011

APP+EXA+STU+FIA
(HISinOne 4.x)

2012

APP+EXA+STU+FIA
(HISinOne 5.x)

2013

APP, ALU
(HISinOne 2.x)

2014

Phase-out

ZUL, QISZUL

APP
(HISinOne 1.x)

EUNIS
2013

Phase-out

ZUL, QISZUL

APP, ALU
(HISinOne 2.x)

APP, EXA
(HISinOne 3.x)

APP+EXA
(HISinOne 3.x)

APP+EXA
(HISinOne 4.x)

APP+EXA+STU+FIA
(HISinOne 5.x)
HisInOne server/network environment
Data import / export filters

- Identity Management (IdM)
- Bank
  - MT940 (account statement)
  - DTAUS (direct debit)
  - Sepa planned
- Uni-Assist (International Office)
- Student loan office („Bafög-Amt“)
- ConjectFM (facility management system)
HISinOne STU (study management)

- ~1900 new enrolments
- 80+ guest students

HISinOne FIA (fee management)

- 29,002 fees processed via direct debit scheme / 143 DTAUS files
- 11,619 bank transfers / 98 MT940 (account statement) files
Applicant transfer (for enrolment) 2-2

Transfer an applicant

Frau Annette Arndt | applicantnumber 9699 | Registrationnumber 3002583 | Haupthörer | Neueinschreibung zum Sommersemester 2013

Information:
- A valid simple course of study was selected.

- Save as Applicant
- Save as student
- Back to Search Result
- Reset
- New Search

Overview
- Contact Details
- University-Entrance Qualification
- Health insurance
- Fees
- External Studies
- Locking
- Study history
- Examinations
- Reports
- Follow-up
- Further data

Person
- Registrationnumber 3002583
- Surname Arndt
- First name Annette
- Date of birth 12/22/1999
- Place of birth Essen
- Nationality SYR Syrian
- Date of enrolment 06/10/2011

Communication
- Address: semester semester
- Street: Karollinger Str. 109
- Postal code 45326
- City Essen
- Country D Germany

Home / Semester District
- Country of Home District D Germany
- Home district

Health insurance
- Status of insurance
- Company number
- Agency
- Health insurance number

University Entrance Qualification (UEQ)
- University Entrance Qualification does not exist yet.
Enrolment (fresh(wo)men only)
Edit data of a student

Overview

Person

* Registration number: 2253807
  * Surname: Arndt
  * First name: Aisling
  * Date of birth: 09/04/1983
  * Place of birth: Ruda Slaska
  * Nationality: D. Germany

Enrollment

* Date of enrollment: 11/15/200

University Entrance Qualification (UEQ)

* Point in time of UEQ: 2005
  * Country: D. Germany
  * District: RE Recklinghausen
  * Type: 03 Gymnasium (eHR)

Communication

* Address: semester semester
  * Street: Josefstr. 10
  * Postal code: 45966
  * City: Gladbeck
  * Country: D. Germany
  * Phone: 0511/1220–93001
  * Email: 12079@his.de

Reports fast access

- Kennung (HRZ-Bescheid)
- Studienbescheinigung
- Überweisungsträger StudSek

Fees

<table>
<thead>
<tr>
<th>Period</th>
<th>To pay</th>
<th>Obligatory</th>
<th>To pay fac.</th>
<th>Paid</th>
<th>Saldo</th>
<th>Request for loan</th>
</tr>
</thead>
<tbody>
<tr>
<td>20132-SZ</td>
<td>268.62</td>
<td>268.62</td>
<td>0.00</td>
<td>0.00</td>
<td>-268.62</td>
<td></td>
</tr>
<tr>
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</tr>
<tr>
<td>20122-SZ</td>
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<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td></td>
</tr>
</tbody>
</table>
Re-registration (starting with 2nd semester, student’s view)

Information for online re-registration

Current re-registration period for

Period: Sommersemester
Term year: 2013

You are for Wintersemester 2012/13 reregistered.

Sales invoices - Sommersemester 2013

<table>
<thead>
<tr>
<th>Sales invoice number</th>
<th>Due date</th>
<th>Debit</th>
<th>Credit</th>
<th>Invoice lines</th>
</tr>
</thead>
<tbody>
<tr>
<td>stu_50663251</td>
<td>03/05/2013</td>
<td>10.00 €</td>
<td>0.00 €</td>
<td></td>
</tr>
<tr>
<td>stu_50386545</td>
<td>03/04/2013</td>
<td>258.62 €</td>
<td>0.00 €</td>
<td></td>
</tr>
</tbody>
</table>

Amount

Debit amount: 268.62 €  
Credit amount: 0.00 €

Debit order - Sommersemester 2013

Debit amount: 268.62 €

* Account number

* Bank routing number

Bank name
Important factors for maintaining high data quality and integrity

Data quality

- Data migration scripts
- Data remigration scripts
- Software issues (aka bugs)
- User-generated issues (aka features)

Determining factors
Around 160 tickets/requests open for STU/FIA, including:

- Bank collection (direct debit scheme) also available for first-time enrolment
- Improved readability/handling of logs
- Optimized workflow automatisation
• Changes in schedule of fees not recommended during enrolment and re-enrolment phase
• Changes in schedule of fees imply a complete fee recalculation procedure (takes several hours...)
• Changes in schedule of fees must be thoroughly tested for correctness and implications (e.g. re-enrolment, leave of absent, student with multiple status, etc.)
• And: Mind your data quality!
Thanks for your questions and your attention
Thanks for your attention

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