**UP** Universitatea Politehnica Timişoara

## JOINT CROSS-BORDER INTERNET COMMUNICATION SYSTEM OF THE UNIVERSITY OF DEBRECEN AND POLITEHNICA UNIVERSITY OF TIMIŞOARA

### Goal of the project

The overall goal of the project is to enable enhanced capacity for cross-country cooperation and interaction between and within the participating universities by providing high quality WiFi system and IP streaming system for the students, professors and researchers at the University of Debrecen and Politehnica University of Timisoara, aiming at supporting the synchronization of educational, research and development, and other scientific activities of the cooperating universities

### Short description of the project

Interior and exterior WiFi service will be installed at both sites to be able to access from mobile notebooks and smart phones the partners data and services infrastructure and Internet services.

The project implements the EDUROAM service in PUT. This common authentication service with other universities within Europe allows accessing WiFi Internet, increases the Internet accessibility for both academic partners and incoming students travelling to PUT and UD.

IP streaming subsystem will be installed at both universities to be able to interchange the local multimedia content between the partners

### Project implemented by

University of Debrecen, UD – Lead partner
Politehnica University of Timişoara, PUT – Project partner

### Main activities

• Communication activities;
• Establishment of the project architecture:
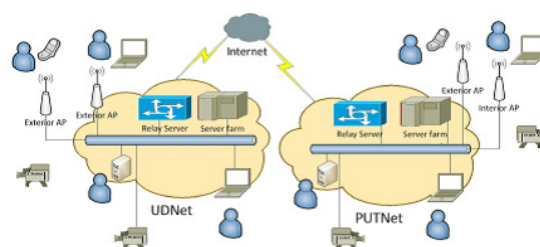• Acquisition of the specific equipments.

### Implementation period

01.01.2013 - 31.05.2014

### Research team

The Romanian team: Mircea POPA, Marius MARCU, Sebastian FUICU, Răzvan BOGDAN, Oana AMARICĂI-BONCALO, Sorin JULEAN, Marian SALAVAT, Mihaela CIULEAN, Marinela BĂLUŢ

### Research centre

Research Centre for Computers and Information Technology



### Results

Several meetings took place, among them the project opening event and technical meetings. As a consequence the project architecture and the list of specific equipments was established. Also, the software requirements and solutions were obtained.

The placement of the 200 Access Points covering the interior and exterior of the buildings of the faculties and student hostels from the campus was established.

The specific infrastructures for implementing the EDUROAM service and the IP streaming service were determined.

### Applicability and transferability of the results

Achievement of a secure WiFi network covering a large area, offering also the EDUROAM service and IP streaming service.

Possibility to develop research oriented on IP streaming, network traffic and main features.

### Financed through/by

Hungary-Romania Cross-Border Co-operation Programme

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