UP | **Universitatea Politehnica Timişoara**

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

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.
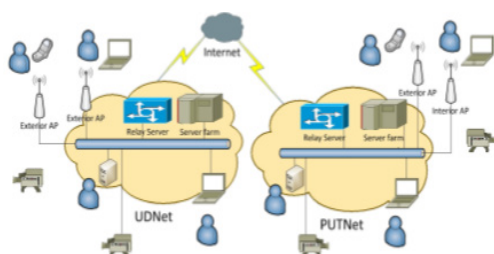
Short description of the project

• 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, UPT — Project partner

Main activities

• Communication and publicity activities;
• Acquisition of the specific equipments;
• Development and implementation of the specific WiFi network;
• Development and implementation of the specific IP streaming system.

Implementation period

01.01.2013 – 31.05.2014

Results

• Several technical meetings took place both in Timişoara and Debrecen. As a consequence the inherently implementation problems were discussed and solved.
• 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 achieved and the connection to the specific infrastructure was done.
• The specific infrastructures for implementing the EDUROAM service and the IP streaming video service were developed and implemented.
• Tests were done and also the dissemination of the results was done.
• A closing event was organized.

Fields of interest:

• WiFi networks, IP streaming

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.

Research centre

• Research Center in Computers and Information

Financed through/by

• Hungary-Romania Cross-Border Co-operation Programme 2007-2013

Research team

Mircea POPA, Marius MARCU, Sebastian FUICU, Răzvan BOGDAN, Oana AMARICĂI-BONCALO, Sorin JULEAN, Marian SALAVAT, Mihaela CIULEAN, Marinela BĂLUȚ

Contact information

Prof. Mircea POPA, PhD
Department of Computers
Adress: Blv. V. Pârvan, No. 2, RO300223 Timişoara
Phone: (+40) 256 403 003
Fax: (+40) 256 403 023
Email: mircea.popa@upt.ro