

Computer Network Laboratory – Internationally recognised educational IT communications developer



WHO WE ARE:

Computer Network Laboratory (CNL) was established in 1995 as an output from research projects cooperating with the business sector. It is a research and experimental centre of the Department of Computers and Informatics in the Technical University of Kosice, Slovakia. The main field of interest of CNL is the **implementation of progressive communication technologies into the educational environment**. CNL focuses on areas such as **computer networking, e-learning, multimedia communication and videoconferencing**. CNL is also home for Regional Cisco Networking Academy (RCNA) working at the Department of Computers and Informatics. CNL represents an outstanding **top-equipped experimental centre** for research in computer networks and network infrastructures.

COLLABORATION INTERESTS:

- CNL is interested in a variety of researches and experiments in the field of IT implementation into educational services.
- Potential role for CNL: Coordinator, expert, testbed centre

AREAS FOR R&D COLLABORATION:

- QoS parameters, IPFIX based architecture for measurement of QoS parameters
- E-learning technologies and solutions
- Development of tele-educational services for the public: videoconferences, IP based video streaming server solution, development of multimedia applications
- Experimental implementation of VoIP technologies

MAIN ACHIEVEMENTS:

- Academy of the Year in the Region of Europe, Middle East and Africa Award to the Regional Cisco Networking Academy (RCNA) based in CNL (Paris 2000, Copenhagen 2002).
- Pilot Projects of the Year Award to CNL in 2001 from the Slovak ATM Association.
- IT Person of the Year 2006 Award to Frantisek Jakab, head of CNL by the independent society of Slovak journalists, members of professional IT and Telco associations.

REFERENCE PROJECTS:

Over the recent years CNL has been involved in several significant international research projects within the field of networking infrastructure.

Selection of EU projects:

SSA - 6RP, PRO_NMS: Pro-active actions for new member states

Project PRO_NMS addresses research organisations, SMEs and IT companies from New Member States (NMS) to enlarge the participation in Framework Programmes. The main activities of the PRO_NMS partners are partner search, organising brokerage events etc. CNL's role: project partner.

<http://pronms.cnl.tuke.sk>

SSA - 6RP, ATVN: Academic Internet television network showcases

The aim of the project is to encourage organisations from the NMS, ACC and the Newly Independent States (NIS) to participate in international R&D projects and future Framework Programmes. CNL's role: project partner. <http://atvn.cnl.tuke.sk>

**WHAT
MAKES US
A GOOD
PARTNER**

- **Team of experts in the areas of networking**
- **Close cooperation with important research institutions and universities**
- **Well-equipped laboratories**
- **Main training centre for networking specialists in Slovakia**
- **More than 10 years of experience in networking and in managing of international projects**



Education without Borders: Efficient E-Learning Network Services Establishment

The basic aim of the project was to create eEDUSER – a portal enabling to provide educational communication services and access to the educational resources of the partners' institutions. CNL's role: project partner. www.eeduser.com

TELEHUMAN: Human Resources Support for Managing Modern Telecommunication Networks
This project is based on distance learning in management of telecommunication networks from the view of offered services and their effective utilisation. CNL's role: project partner. <http://www.elfa.sk/leonardo/index.html>

DEPSIS: Distance Education Program for Staff Responsible for IS Sector Support in Companies
The aim of the project is to prepare multimedia based course materials for staff employed at the IS departments of companies. CNL's role: project partner. <http://www.elfa.sk/depsis/index.html>

Selection of other projects:

VEGA / National grant agency: Evaluation of parameters of traffic in broadband communication infrastructure: development of support platforms
KEGA / National grant agency: Network of virtual laboratories for the management of real systems.

OTHER INFORMATION:

Name of the research department: Department of Computers and Informatics

Name of organisation:

Technical University of Kosice

Organisation type: Research centre

Country: SLOVAKIA

Number of researchers: 8

Working languages: English, Slovak

Contact person: Frantisek Jakab, PhD.

Position: Head of Engineering Group and CNL

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For further information please look at <http://www.cnl.tuke.sk>

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