

# OPEN-SOURCE TECHNOLOGY FOCUSED ON INFRASTRUCTURE, CYBERSECURITY AND DATA PROTECTION



Centre for Natural  
Sciences  
and Technologies

J. E. Purkyně University in Ústí n. L.  
Faculty of Science  
Pasteurova 3632/15  
400 96 Ústí nad Labem

**RNDr. Jan Krejčí, Ph.D.**  
E-mail: jan.krejci@ujep.cz  
Tel.: +420 739 274 400  
Room: 7.04

## RESEARCH/TECHNOLOGY INTRODUCTION

Provision of comprehensive and affordable alternative to economically expensive and functionally excessive solutions for large corporate heterogeneous networks in the field of infrastructure management and network and data security. Provider is able to realize individual elements separately.

## POTENTIAL USERS

SMEs, government bodies, schools and educational institutions, nonprofit sector. The technology is recommended for small networks till 500 users.

## ADVANCEMENT OF TECHNOLOGY AND MARKET APPLICATION

With regard to the legislation in force, ensuring the cybersecurity is the primary task for every entity. Analysis, design and testing by an dependent institution (provider/inventor) are not influenced by producers in particular technology fields. Implementation of opensource security technologies increases the efficiency of perimeter safety in network infrastructure while minimizing financial costs and is available also for small users – see article potential adopters.

## ADDITIONAL INFORMATION

Realization of solutions (also partial) is conditional by appropriate individual operations in connection with chosen range of solutions:

- Analysis and penetration testing of the current state,
- Analysis of needs,
- Theoretical design and implementation schedule of security open-source technologies,
- Implementation of security open-source technologies,
- Optimization of network infrastructure,
- Implementation of security open-source technologies in enterprise environment,
- Penetration testing deployed infrastructure,
- Correction of deployment according to actual needs.

