Celtic-Plus SIGMONA: ALTO-SDN / Application Layer
Traffic Optimization in Software-Defined Mobile Networks

Scope:
- endpoint selection during connection to distributed services

Motivation:
- increased elasticity, portability of network functions
- dynamicity of endpoint selection policies and rules

ALTO protocol
- IETF RFC 7285, Sep 2014
- ALTO server provides guidance for ranking endpoints

Our approach:
- ALTO client in SDN controller

Main benefits:
- ALTO guidance is decoupled from the application
- Reduced deployment cost of ALTO service.
- SDN: enabler for dynamic network information provision and flow redirection.

Project Partners:
- Finland
  - Nokia Networks Oy
  - Aalto University
  - EXFO Oy
  - Coriant Oy
  - University of Oulu/Centre for Wireless Communications
  - VTT Technical Research Center of Finland
- Germany
  - Technical University of Chemnitz
  - Nokia Networks GmbH
- Spain
  - NEXTEL S.A.
  - ENEO Technología SL
  - Innovalia Association
- France
  - Bull SAS
  - CEA LIST
  - Montimage
  - 6WIND
- Hungary
  - Nokia Solutions and Networks Kft.
  - BUTE Mobile Innovation Centre
- Turkey
  - ARDIC A.Ş.
  - Avea A.Ş.
  - TT Argela
  - Ericsson Turkey

Further information: http://mik.bme.hu/~zfaigl/ALTO-SDN/doc