Experimentation in Heterogeneous European Testbeds through the Openlab Facility: The case of PlanetLab federation with the wireless NITOS Testbed

OpenLab Project:
• federates the wireless NITOS testbed with the wired Planetlab testbed
• enables the use of heterogeneous experimental facilities under an integrated environment.

INTRODUCTION
• The goal is to implement the following research scenario:
  • Association of a wireless device based on end-to-end wireless and wired delay.

FEDERATED ENVIRONMENT
• The experimental scenario is implemented in the federated NITOS - Planetlab Europe testbeds.

FEDERATION FRAMEWORK
• Single Sign Up
• Deployment of OMF/OML at PLE resources
• XMPP Communication using slices

EXPERIMENTAL RESULTS

Nikos Makris, Stratos Keranidis, Dimitris Giatsios, Thanasis Korakis, Iordanis Koutsoopoulos, Leandros Tassiulas, Thierry Rakotoarivelos, and Thierry Parmentelat