

Related IST project:

IST-ANEMONE

Length of the workshop:

Full day

Title of the proposed workshop:

IST-ANEMONE Workshop on IPv6 mobility networking testbeds

Name of the workshop coordinator:

Dr. Gábor Jeney

Affiliation of the workshop coordinator:

Contact person of the project partner BME

Researcher at BME

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Rational: the overall objective of the workshop

The ANEMONE project is a two-year IST STREP started in June 2006. The project aims at realizing a large-scale distributed testbed featuring cutting edge IPv6 mobility and multihoming initiatives together with the majority of current and future wireless access technologies. Thus, it will allow for enhanced and innovative future services by providing mobility support to users and devices. The project also plans to offer a wide range of multimodal terminals such as laptops, PDAs, smartphones and NEMO mobile networks composed of mobile routers and locally attached devices. The testbed is composed of existing platforms and extensions covering campus and metropolitan areas with a large spectrum of real end users for a pertinent evaluation of advanced services and applications.

To demonstrate its usability as a research platform, the ANEMONE Testbed will first be used by the ANEMONE consortium members for research activities in the domain of advanced mobility and multihoming and related security issues. However, as the primary objective of the testbed is to host third parties experiments, it will be open as soon as possible to external researchers and R&D teams. Through the ANEMONE Testbed, they will benefit from a complete infrastructure of communication and service facilities so that they will be able to concentrate on their specific studies rather than on setting up an enhanced test network.

The ANEMONE Testbed will provide basic IPv6 services (IPv6 address space, IPv6 access networks), mobility and multihoming features (Home Network, Home Agent for MIPv6 and NEMO, Correspondent Nodes), security and AAA mechanisms, and attractive applications like VoD, VoIP or games.

By integrating in a single testbed all the protocols, wireless access technologies and applications that are necessary to conduct research and development and to study the feasibility of deployment of IPv6 mobility technologies, ANEMONE will allow:

- To share the specific experiences the partners of the project have on IPv6 mobility deployment in order to leverage the European IPv6 experience;
- To provide a pan-European IPv6 mobility testbed open to the research and development communities so that they can test and validate new applications and services;
- To define procedures and tools to conduct experiments, to gather results, to evaluate the performance and to validate the compliance with IETF standards;
- To gather a significant number of “real users” coming from different cultural and social populations (students, teachers, ISP customers, man on the street, etc.).

The primary objective of the workshop will be to introduce the project to third parties, who do not know about ANEMONE yet, exposing them the features and capabilities of the testbed but also its related access policies and rules. At the same time, this public presentation will be an opportunity to obtain more detailed information for those who already have knowledge about the testbed or even some exploitation plans for using it.

Consequently, the workshop will be organized as an interactive forum where the presentations serve also as a basis for discussion in order to encourage the information exchange between consortium members and the auditorium. Through such open discussions, the workshop presents at the same time an excellent opportunity for the attendees to express their need and expectations vis-à-vis the testbed with respect to their ongoing and future projects.

Preliminary program of the workshop:

8:30–9:15 registration

Session 1: Introduction

9:15–9:30 Welcome speech – given by Eric Robert (THALES, France), project coordinator

9:30–10:00 Description of the ANEMONE Testbed – given by Paolo di Francesco (CRES, Italy)

10:00–10:30 How to use the ANEMONE Testbed – given by Gábor Jeney (BME, Hungary)

Session 2: Use cases

10:30–11:00 How ANEMONE fits Intelligent Transportation Systems (ITS) – given by Thierry Ernst (INRIA, France)

11:00–11:30 How ANEMONE fits multimedia R&D – given by Antti Heikkinen (VTT, Finland)

11:30–12:00 How ANEMONE fits testing activities – given by Cesar Viho (IRISA, France)

12:00–13:00 Lunch break

Session 3: Demonstration

13:00–13:30 The ANEMONE Testbed demonstration – given by László Bokor (BME, Hungary)

13:30–14:00 Combining public and research interest: ANEMONE and panOULU city WLAN – given by Jari Korva (VTT, Finland)

Session 4: Invited speakers

14:00–14:30 Potential usage of the ANEMONE Testbed in the Remora project – given by Tobias Hof (THALES, France)

14:30–15:00 Potential usage of the ANEMONE Testbed in the CVIS project – given by Vilmos Nebehaj (RAMSYS, Hungary)