

MOMENT

Monitoring and Measurement in the Next Generation Technologies



Um die optimierte Steuerung, Management und Flexibilität in der künftigen Kommunikationsinfrastruktur zu erreichen, ist ein umfassendes Wissen über das Verhalten von Netzwerk und Anwendungen nötig. Bereits im 6. EU Rahmenprogramm wurde begonnen verteilte Messinfrastrukturen zu entwerfen und umzusetzen. Zusätzlich wurden Metadatenbanken erzeugt, um die

verfügbaren Informationen zentral zugänglich zu machen. Diese Leistungen werden im Projekt MOMENT zusammengeführt, um eine gemeinsame, europaweite Plattform zu etablieren, welche es ermöglicht die verfügbaren Daten über eine einheitliche Schnittstelle anzubieten. Hauptinnovation ist die Gestaltung der Schnittstelle als serviceorientierte Architektur mit der Möglichkeit, die bestehenden Daten in einer neu definierten Ontologie im semantischen Kontext darzustellen und abzufragen.

Durch die Zusammenarbeit mit international anerkannten Institutionen, wie z.B. CAIDA, wird dieses Projekt zukünftige Standards im Bereich der Internetmessung und -bewertung maßgeblich beeinflussen.

Fördergeber

EU 7. Rahmenprogramm, ICT

Projektpartner

- | Telscom AG
- | Foundation for Research and Technology-Hellas, Institute of Computer Science
- | Universidad Autónoma de Madrid
- | Eötvös Loránd University
- | Ericsson AB
- | SICS, Swedish Institute of Computer Science AB
- | Tel Aviv University
- | Consorzio Nazionale Interuniversitario per le Telecomunicazioni
- | Telefonica Investigacion y Desarrollo, S.A.Unipersonal
- | Universidad Pública de Navarra

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Reaching optimising control, management and flexibility of the future network infrastructures requires actions to retrieve a good understanding of network and application behaviour. In previous EU-funded FP6 projects like EVERGROW and LOBSTER, large efforts have been taken to successfully develop and deploy measurement infrastructures (e.g. ETOMIC, DIMES) to gain insight into the operational network, without being intrusive from

the perspective of commercial ISPs. Meta-repositories like MOME were dedicated to keep an overview on available measurement data, tools, infrastructures and projects.

The achieved advances are integrated within the MOMENT project towards a common and open, pan-European platform by confederating participants from various FP5, FP6 and other measurement-related projects.

The main objective is to design and implement a mediator architecture offering a unified interface for measurement services, able to use all data and functionalities from the existing measurement infrastructures.

Main innovation of the project is the use of a measurement-specific ontology, allowing semantic representation and retrieval of measurement and monitoring information, as well as providing the flexibility of a service oriented architecture for future Internet applications.

To validate the benefits of the integrated approach, the project will develop and demonstrate a set of tools and applications presenting the added value of combining measurement data collected from different infrastructures. Due to the flexible design, the achievements of the project will be open to future network architectures, rather than limited to the current Internet protocols. By liaison with international activities like CAIDA, the project ensures to have a major impact on the contribution to standardisation bodies, as well as to the overall measurement community in the Internet.

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