Motivation

As in particular addressed by Beyond 3G networks, mobile distributed systems shall be deployed on heterogeneous (or multi-radio) networks, combining infrastructure-based and ad hoc networks, so as to benefit from the respective advantages of the various networks. Development of distributed systems over heterogeneous wireless networks remains an open challenge, which requires dedicated middleware solutions for in particular managing the network's dynamics and resources.

Research

In the above context, we have studied middleware services for the cost-effective networking of mobile, wireless resources, in particular optimizing service access over heterogeneous networks, with respect to both computer-centric (e.g., resource usage) and user-centric (e.g., perceived quality of service) criteria. We have more specifically investigated middleware services for effective resource discovery in multi-radio networks.

Contributors

- Damien Charlet
- Rafik Chibout
- Valérie Issarny
- Davy Preuveneers

Supporting Grant

- MR_SDP -- Alcatel - Resource Discovery for Multi-radio Networks

Follow-up

- Service-oriented middleware for ubiquitous networks

Publications

Titre Service discovery in multi-radio networks: an assessment of existing protocols
AuteursCharlet Damien; Issarny Valérie; Chibout Rafik DétailIn
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