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NICTA

## CAMP – Context Aware Mobility

NICTA, in collaboration with Ericsson, is developing solutions to fully harness the multitude of connectivity options available to users of future mobile networking technologies.

Context information such as user location, preferences, access network policies and usage patterns will be used to drive decisions about which option to utilize at any given time.

Mobile users have access to a range of devices, such as mobile phones, PDAs, and laptops during the course of their day. This, combined with a multiplicity of access technologies such as Wi Fi, UMTS, Bluetooth, and GPRS creates a broad range of potential channels across which data may be carried to and from mobile users.

The mobility of users affects the viability of the available channels. The challenge is to select and maintain the best technologies to deliver a service given the current context.

CAMP addresses this challenge by designing and implementing a system comprising:

- Context gathering & analysis
- Prediction & decision making
- Seamless connection management
- Application awareness

Part of the solution will include a distributed framework to collect and analyse context information from various sources including users and access networks.

The results of this analysis will be used by a prediction and decision engine capable of making and applying on-the-fly decisions about which combination of mobile devices, access technologies, and network services to use at any given time for a unique mobile user.

In addition, new mobility management solutions will be developed to support seamless switching between access technologies and services.

### An established team

The CAMP Project Team comprises 12 researchers from NICTA and Ericsson, and supports a number of PhD students and undergraduates.

### Context-driven application support for multi-access enabled mobile devices



#### Contact:

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