

## Rationale

The availability of open adaptable 3G Operations Support Systems (OSSs) is essential for the successful rollout and operation of innovative 3G services. The complexities associated with the management of these services are placing new demands on OSSs.

The challenge of the personalised mobile services environment is reflected in the requirement for greater end-user service control as well as in the need to support rapidly changing end-user service preferences. Current OSSs are not able to support such complex service environments. They need to be enhanced to support terminal, session and personal mobility for integrated wireless and location-based services in an open service market.

Open issues for 3G OSSs that AlbatrOSS is addressing include:

- Evolving business models and roles
- Profile management and dynamic service personalisation
- Support for location-based services
- Roaming and mobility management
- Service integration and composition
- New billing models
- QoS in a 3G environment
- Support for open service access to various network technologies



## ALBATROSS

### Participants

ATOS Origin Integration	F
Fraunhofer FOKUS	D
LAKE Communications	IR
Lucent Technologies	NL
Telefonica I+D	E
T-Systems Nova	D
UH Communications	DK
Waterford Institute of Technology	IR

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*AlbatrOSS Deliverables and White Papers are available from the Web Site*

## Architecture for Location Based Application of Third generation Operation Support Systems

*AlbatrOSS is a research project partially funded by the European Commission under contract IST-2001-34780. It started in March 2002 and runs for two years.*

## Objectives

The key objective of AlbatrOSS is to specify an innovative 3<sup>rd</sup> generation operations support system (3G OSS) architecture applicable to an open 3G mobile telecommunications environment.

A second objective is to develop a set of OSS components to support rapid service creation, provisioning and maintenance of mobile internet services. The emphasis is on the delivery of innovative services for roaming end users in a personalised mobile services environment.

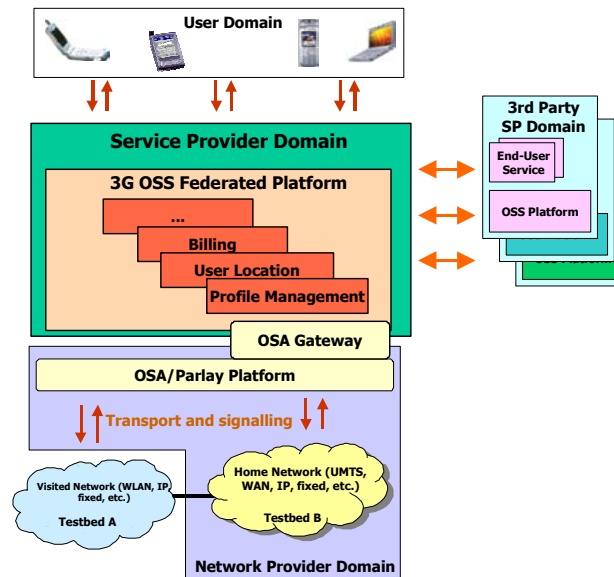
The project is validating the architecture and components through the operation of trials, one in each of the two project phases.

## Approach and Results

In order to achieve its objectives, AlbatrOSS has been carrying out the following work:

1. Exploring business models that identify relevant players, business roles and their relationships for 3G service provisioning; developing a set of business scenarios which define the required activities; and capturing the requirements of each player providing or using 3G services. The results here are being input into the architecture and trial scenario work.

See Deliverables 2 and 7: *Requirements, Business Models and Scenario Definition, Version 1 and Version 2.*



**A typical emerging 3G OSS service environment**

*The trials are based on a multi-provider business environment and are validating the architectural concepts through the interworking of distributed platform components in network provider, service provider and customer domains. The trial sites are located in various European countries.*

2. Specifying an open 3G OSS architecture for the delivery and management of personalised mobile services based on the business model analysis and requirements capture. The work includes the design of the AlbatrOSS 3G OSS functionality, the AlbatrOSS information model, the 3G OSS component specifications, and the dynamic behaviour of the system.

See Deliverables 3, 8 and 10: *AlbatrOSS Initial Architecture, Intermediate Architecture and Final Architecture.*

3. Integrating and customising open network, service and application components into a prototype 3G OSS platform capable of supporting the delivery of 3G services in a personalised mobile services environment.

See Deliverables 5 and 9: *System Version 1 ready for Trial 1 and System Version 2 ready for Trial 2.*

4. Establishing trial subsystems that are based on business scenarios from the requirements analysis and which support adaptive end-user services on mobile devices. Both Trial 1 and Trial 2 comprise a number of subtrial systems focusing on specific 3G OSS issues identified within the project.

See Deliverables 6 and 11: *Evaluation of Trial System Version 1 and Version 2.*

5. Writing a series of White Papers concerned with individual aspects of the work undertaken in AlbatrOSS.