Satellite Integrated UMTS Emulator

Fact Sheet

Project Information

SAILOR

Grant agreement ID: IST-2001-37266

Project closed

Start date
1 September 2002

End date
31 May 2005

Funded under
Programme for research, technological development and demonstration on a "User-friendly information society, 1998-2002"

Total cost
€ 4 186 248,00

EU contribution
€ 2 104 996,00

Coordinated by
TELESPAZIO S.P.A.
Italy

Objective

The SAILOR project aims at identifying, designing and demonstrating new services, verified by a proper market analysis, making use of innovative functionalities upon an integrated Terrestrial and Satellite UMTS network. This basic work will be developed in cooperation with the major leading European Standardization groups. In particular, SAILOR is expected to provide inputs and contributions to the Advanced Satellite Mobile Systems S-UMTS task force. It also targets at contributing to the activities of the relevant UMTS ETSI and 3GPP standardization groups, which are involved in the development of new market scenarios for the 3G satellites systems and in the adoption of innovative mobile network tools. The project will also base its activities on

other IST projects (in particular, VIRTUOUS and FUTURE, but even ARROWS, GAUSS, BRAHMS, SUITED, GEOCAST, WINE GLASS, etc.) The SAILOR project aims at identifying, designing and demonstrating new services, verified by a proper market analysis, making use of innovative functionalities upon an integrated Terrestrial and Satellite UMTS network. This basic work will be developed in cooperation with the major leading European Standardization groups. In particular, SAILOR is expected to provide inputs and contributions to the Advanced Satellite Mobile Systems S-UMTS task force. It also targets at contributing to the activities of the relevant UMTS ETSI and 3GPP standardization groups, which are involved in the development of new market scenarios for the 3G satellites systems and in the adoption of innovative mobile network tools. The project will also base its activities on other IST projects (in particular, VIRTUOUS and FUTURE, but even ARROWS, GAUSS, BRAHMS, SUITED, GEOCAST, WINE GLASS, etc.)

OBJECTIVES
The project will implement a demonstrator, aiming at a complete integration between T-UMTS & S-UMTS. The demonstrator will add new functionalities that will exploit more efficiently the utilization of the satellite segment, provide a meaningful environment to implement more advanced multimedia services(broadcast, multicast)and allow a more advanced implementation of the UMTS Core Network. The demonstrator will consist of a real UMTS Core Network, to be developed through a completely innovative approach and of 2 Access Networks, to be designed through aspecific software emulator environment allowing to test the presence of a real cellular layout with multiple cells and terminals. The demonstrator will be used to carry out 2 experiments, Fully IP Based Core Network Experiment and Access Network Resources (satellite-terrestrial) Optimisation Experiment.

DESCRIPTION OF WORK
The work to be undertaken is divided into the following eight Workpackages:WP100 deals with program and technical management;WP200 deals with the market analysis which aims at identifying the most promising services to be provided through an integrated T-S-UMTS network;WP 300 deals with the requirement definition for the two experiments, the specification of the activities which will be experimented by means of the demonstrator and the simulator, the design of the demonstrator and the simulatorarchitecture to cope with the experiments;WP 400, 500 deal with the two considered experiments. WP 400 deals with the Fully IP Based Core Network experiment and WP 500 deals with the Access Network Resources Optimisation experiment;WP 600 aims at carrying out the final integration step and testing of the demonstrator and simulator in order to verify the overall functionality as specified in WP 300, before performing the trials;WP 700 concerns the trials relevant to the two experiments which will be carried out on the SAILOR Demonstrator;WP 800 deals with the dissemination and exploitation of results of the project. It has an important focus on contributions to the standardization bodies.

Fields of science (EuroSciVoc)

natural sciences > computer and information sciences > **software**

engineering and technology > mechanical engineering > vehicle engineering > aerospace engineering > **satellite technology**

engineering and technology > electrical engineering, electronic engineering, information engineering > information engineering > telecommunications > telecommunications networks > **mobile network**

engineering and technology > **materials engineering**

Programme(s)

FP5-IST - Programme for research, technological development and demonstration on a "User-friendly information society, 1998-2002"

Topic(s)

IST-2002-5.1.14 - CPA14: Mobile applications and services

Call for proposal

Data not available

Funding Scheme

CSC - Cost-sharing contracts

Coordinator

TELESPAZIO S.P.A.

EU contribution

No data

Total cost

No data

Address

VIA TIBURTINA 965
00156 ROMA
Italy

Participants (9)

ASCOM SYSTEC AG

Switzerland

EU contribution

No data

Address

Gewerbepark
5506 Maegenwil

Total cost

No data

ERICSSON HELLAS S.A

Greece

EU contribution

No data

Address

ZEPPOU 33 STR.
16675 ATHENS

Total cost

No data

EUTELIS CONSULT ITALIA & ASSOCIATES - S.R.L.

Italy

EU contribution

No data

Address

VIA G. FATTORI 42
00125 ROMA

Total cost

No data

INTEGRASYS, S.A.

Spain

EU contribution

No data

Address

ESQUILO 1
28230 LAS ROZAS - MADRID

Total cost

No data

RHEINISCH-WESTFAELISCHE TECHNISCHE HOCHSCHULE AACHEN

Germany

EU contribution

No data

Address

TEMPLERGRABEN 55
52056 AACHEN

Total cost

No data

SIEMENS AKTIENGESELLSCHAFT OESTERREICH

Austria

EU contribution

No data

Address

SIEMENSSTRASSE 92
1210 WIEN

Total cost

No data

SPACE ENGINEERING S.P.A.

Italy

EU contribution

No data

Address

VIA DEI BERIO 91
00155 ROMA

Total cost

No data

UNIVERSITA DEGLI STUDI DI L'AQUILA

Italy

EU contribution

No data

Address

PIAZZA VINCENZO RIVERA 1
67100 L'AQUILA

Total cost

No data

UNIVERSITA DEGLI STUDI DI ROMA "LA SAPIENZA"

Italy

EU contribution

No data

Address

PIAZZALE ALDO MORO 5
00185 ROMA

Total cost

No data

Last update: 10 March 2023

Permalink: https://cordis.europa.eu/project/id/IST-2001-37266