

Project Number : IST-1999-11253-TEQUILA
Project Title : Traffic Engineering for Quality of Service in the Internet, at Large Scale



Project Presentation

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Abstract : This document gives the external information used to present the project. It gives the project facts sheet, which can also be retrieved from <http://www.cordis.lu/ist/projects.htm> . Further this document introduces the specific TEQUILA website, which can be found at <http://www.ist-tequila.org> .

Keyword List : IST, Project presentation, website

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Editor : Yves TJoens

Contributors : Carmelo Zacone (website), technical support by TERENA, revision by all project partners.

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Executive Summary

This document gives an overview of the IST-11253-TEQUILA project for public dissemination.

The document provides the information retrieved in the FACTS sheet of the project listed at <http://www.cordis.lu/ist/projects.htm> , and an overview of the (public) website hosted at <http://www.ist-tequila.org>, the private section of this website remains internal to the project members.

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1 PROJECT PRESENTATION

1.1 IST Project fact Sheet

This is the information to be retrieved at <http://www.cordis.lu/ist/projects.htm>

1.1.1 Proposal info

Proposal Number : **IST-1999-11253** Version : 1

Acronym : **TEQUILA**

Title : **Traffic Engineering for Quality of Service in the Internet, at Large Scale**

Key Action : **KA IV**

Action line : **1.1.2.-4.2.3**

1.1.2 Abstract

The objective of the project is to study, specify, implement and validate a set of service definition and traffic engineering tools to obtain quantitative end-to-end Quality of Service guarantees through careful planning, dimensioning and dynamic control of scaleable and simple qualitative traffic management techniques within the Internet (i.e., diffserv). The following technical areas will be addressed: (a) Specification of static and dynamic, intra- and inter-domain SLSs to support both fixed and nomadic users. (b) Protocols and mechanisms for negotiating, monitoring and enforcing SLSs. (c) Intra- and inter-domain traffic engineering schemes to ensure that the network can cope with the contracted SLSs - within domains, and in the Internet at large. All specified functionality will be validated through simulation, prototype development and network experiments.

1.1.3 Objectives

The project has five key objectives:

- (1) Study the issues behind, develop architectures for, and propose algorithms and protocols to enable: negotiation, monitoring and enforcement of Service Level Specifications between service providers and their customers and between peer providers in the Internet.
- (2) Develop a functional model of co-operating components, related algorithms and mechanisms to offer a complete solution for intra-domain traffic engineering to meet contracted SLSs in a cost effective manner.
- (3) Develop a scalable approach, architecture and set of protocols for interdomain SLS negotiation and QoS-based routing to enforce end-to-end quality across the Internet.
- (4) Validate the above through both simulation and/or testbed experimentation .
- (5) Use, enhance and contribute to drafts, specifications and standards of the wider international community, participate in IST consensus activities and disseminate TEQUILA results.

1.1.4 Milestones

The expected results include:

- A validated framework for the provisioning/definition of end-to-end QoS through the Internet
- Models for access and inter-domain SLSs.
- Specification and evaluation of intra- and interdomain SLS negotiation protocols
- A validated framework for end-to-end QoS monitoring

- Validated intra- and inter-domain traffic engineering methods, tools and algorithms deployable in Diffserv capable IP networks

1.1.5 Project Data

Starting date : 01-Jan-2000 **Duration :** 30 months

Total Cost : 5,890,556 EURO

EC Contribution : 3,199,751 EURO

1.1.6 Contact Details

Project Coordinator

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1.1.7 Project Participants

Participant	Country	Role
Alcatel Bell NV	B	CO
ALGOSYSTEMS S.A.	EL	CR
France Télécom – R&D	F	CR
Interuniversity Microelectronics Centre	B	CR
National Technical University of Athens	EL	CR
Global Crossing	UK	CR
University College London, Institution incorporated by Royal Charter	UK	CR
Trans-European Research and Education Networking Association (TERENA)	NL	AC
The University of Surrey	UK	CR

1.2 The TEQUILA website

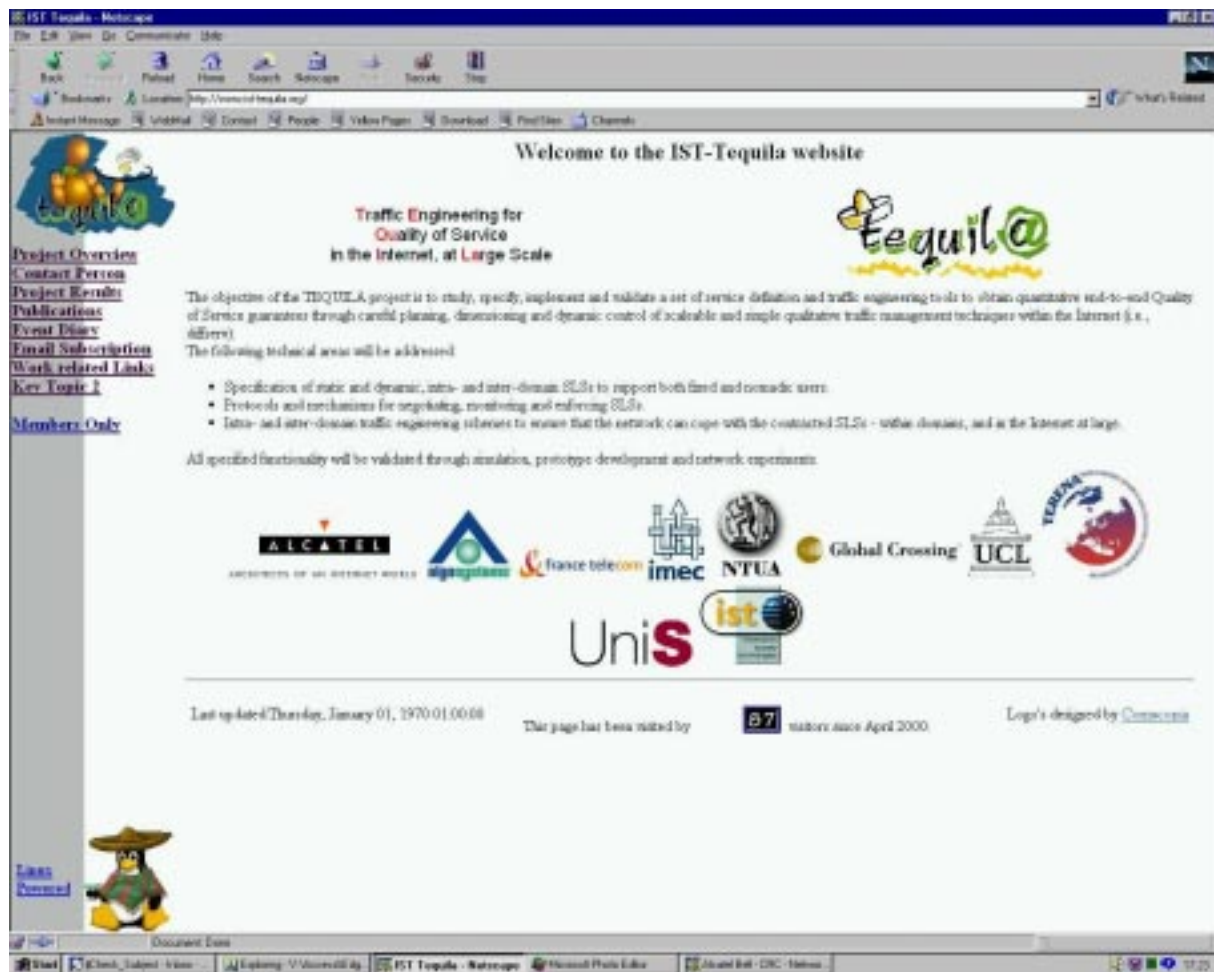
The TEQUILA website can be found at <http://www.ist-tequila.org>

It is organised in a public and private section.

The public website provides the basic information as described in section 1.1, as well as an up to date list of results, presentations and publications. It also hosts links to related IST-projects, industrial fora and standardisation activities.

The private website provides a handy tool for internal project operation, and remains secured from the public.

The following depicts the home page of the TEQUILA project.



The website is structured as follows, and gives an easy feel on how to retrieve information, only with a few clicks.

Project Overview, including

Project Summary

Work Package Overview

Time Frame

Deliverables (this provides all PUBLIC deliverables as specified in the Technical Annex)

Project Status

Partners

Funding

Contact Person

Project Results

Deliverables

Presentations

Publications

Standards Contributions

Software

Publications

Papers

Presentations

Event Diary

Meetings Schedule

IST Related Meetings

Standardization Organization meetings

Conferences & Call for Papers

Email Subscription

Work Related Links

Other IST projects

IETF

Etc...

Key Topic 2 (this section is the entrance point to the key topic 2 pages of the IST programme)

Charter

Contact

Results

Email subscription

Annexed to the paper version of this deliverable is a number of highlights of the public part of the website.