IST IP CASCADAS "Component-ware for Autonomic, Situation-aware Communications, And Dynamically Adaptable Services" "

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Deliverable D8.1 CASCADAS WEB SITE

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Abstract

The primary objective of CASCADAS Web-site is to instill knowledge and understanding of the project activities and results in the aim of creating a networking of cooperation and a critical-mass of experts on the related technical issues.

The purpose of this deliverable is describing the main characteristics of the Cascadas web

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1 Introduction about CASCADAS

The overall goal of CASCADAS[1] is identifying, developing, and evaluating architectures and solutions based on a general-purpose component model for autonomic communication services; specifically in such context autonomic service components autonomously achieve self-organization and self-adaptation towards the provision of adaptive and situated communication-intensive services. In other words, the project is driven by the ambition of identifying a fundamental, uniform abstraction for situated and autonomic communication entities, at all levels of granularity. This abstraction is called an ACE (Autonomic Communication Element), and it represents the cornerstone of the component model, in which the four driving scientific project principles (situation awareness, semantic self-organisation, self-similarity, autonomic component-ware) will properly converge.

The study of ACEs is also the basis for achieving a number of other ambitious objectives that will be explicitly tackled by the project. These objectives derives from the need of providing ACEs with the necessary support of algorithms, knowledge, tools and infrastructures (to be realized again as sorts of ACE based middle-services) to make ACEs a practical and trust-worth paradigm. On the other hand, they derives from the willingness to attack and explore some crucial aspects related to the complexity and dynamism challenges that stand in situated and autonomic communication vision. These main research objectives, each conceived in terms of a separated scientific WP and each aimed at delivering specific methodological and software tools, include:

- The development of pervasive supervision functionalities across ensembles of interacting ACEs;

- The development of algorithms and techniques to achieve dynamic adaptation and enforce given service properties through self-organized component aggregation of ACEs;

- The development of trust, security and self-preservation techniques;

- The identification of models and tools for the organization, correlation and composition of knowledge networks, according to which ACEs can exploit all the available information about their situation, however sparse and diverse.

The project is structured into 5 work packages (Figure 1), each dealing with specific research thrusts recognized to be critical elements for the situation-aware and autonomic communication services of the future.

Guiding and Validation Activities are the scope of WP6 which provide the means to drive the technology research thrusts, keep them focused around a common perspective and goal, and, later, experiment and validate the research results. Socio-economic analysis will complement the technical requirements by helping in identifying the best directions for

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[1] **Partners**: *Telecom Italia S.p.A. (IT), British Telecommunications plc (UK), Budapest University of Technology and Economics (HU), Fraunhofer Institute for Open Communication Systems (DE), Imperial College London (UK), INSTITUT EURECOM (FR), Politecnico di Milano - Dipartimento di Elettronica e Informazione (IT),National and Kapodistrian University of Athens (GR), Universität Kassel (DE), Université Libre de Bruxelles (BE), Università di Modena e Reggio Emilia (IT) Università degli Studi di Trento (IT), University of Ulster (UK), School of Management of Milano (IT)*

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optimal penetration of the emerging technologies and results of the project within the European Research Area. In the second phase of the project WP6 will develop a demonstrator of a complete application scenario by integrating all the software and contributions from the Investigation Activities.

The Dissemination Activities will implement a comprehensive outreach and dissemination strategy through 3 pillars, each mapped to a WP: training, dissemination & exploitation, demonstration.
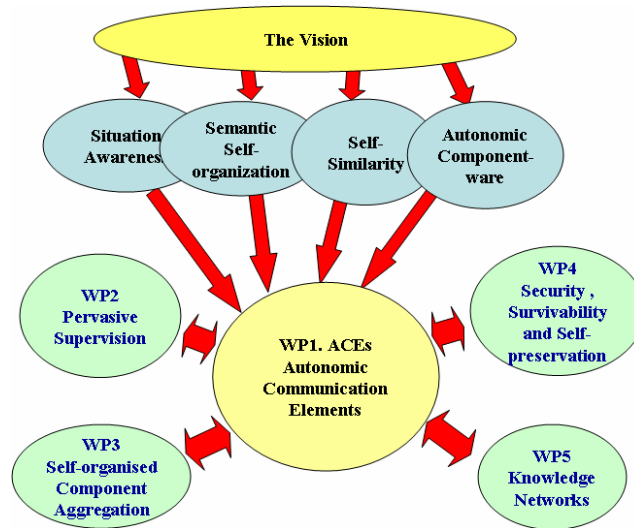

Figura 1 - Project Structure

2   Purpose and Scope

The purpose of this deliverable is describing the main characteristics of the Cascadas web site as made available to disseminate project information.
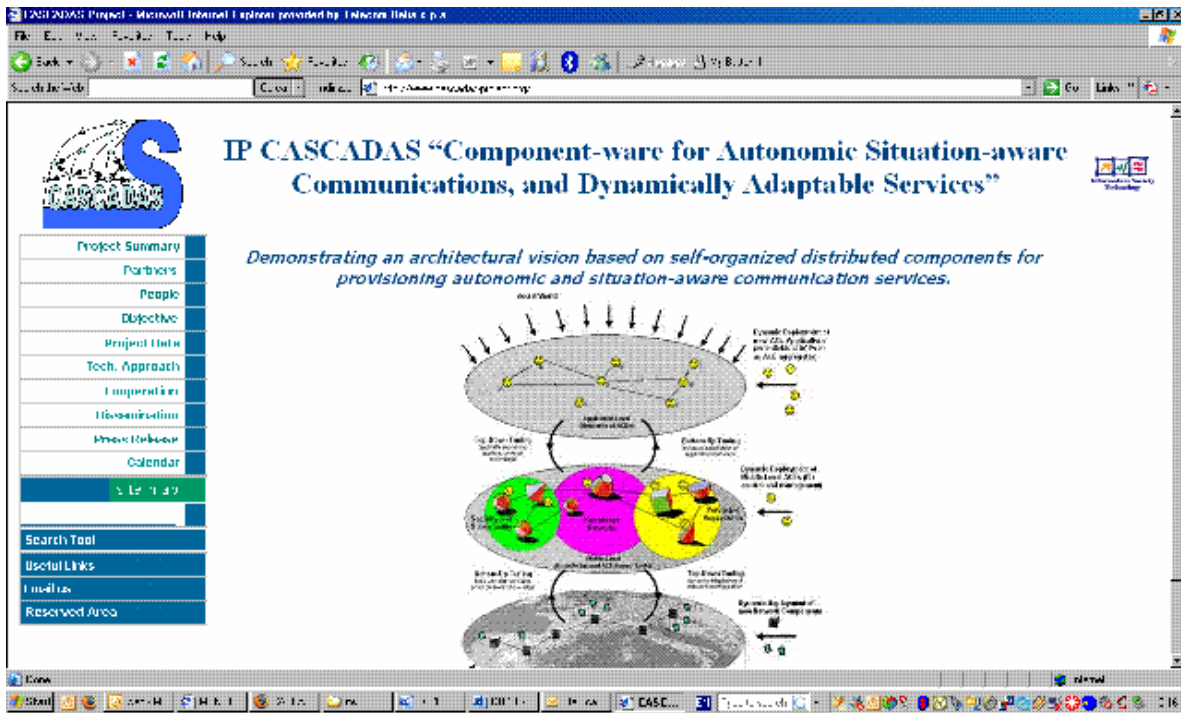
2.1   Document overview

The document is structured into two sections: section 3 reports general information about the web site; section 4 describes shortly the web pages.

3   CASCADAS Home page

CASCADAS home page is available at URL: http://www.cascadas-project.org. The main goal of the web site is to instill knowledge and understanding of the project activities and results in the aim of creating a networking of cooperation and a critical-mass of experts on the related technical issues. Specifically the web-site will support the distribution of CASCADAS information such as project data, objectives, technical approach, Consortium, dissemination actions, on-going cooperation and any piece of information might be useful to increase the project visibility to a wide public.

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The following picture shows CASCADAS web site home page:

Figure 1 – CASCADAS web site home page

The web site design main target has been to keep the layout as simple as possible, avoiding complex navigational links.

The home page provides a brief sentence to introduce CASCADAS main objective, a picture showing high level project architecture and buttons on the right side providing access to the main site contents and tools.

Home page buttons are organized in two categories:

- Buttons providing links to CASCADAS project contents (White).
- Buttons providing links to utility tools (Blue).

3.1   Technical details

The following table contains some technical details about the web site.

	Description
Font family	Tahoma
Font size	10pt
Main colors	White, Green, Black
Dimensions	1280x768
Development tool	W3C Amaya 9.4

Table 1: Technical details

4   CASCADAS web site pages description

This section describes the CASCADAS web site pages.

The web site contains the following pages, every one accessible by the home page:

- Cascadas main contents pages:
    - o Project Summary;
    - o Partners;
    - o People;
    - o Objective;
    - o Project Data;
    - o Technical Approach;
    - o Cooperation;
    - o Dissemination;
    - o Press Release;
    - o Calendar;
- Web site utilities:
    - o Site Map;
    - o Search Tools;
    - o Useful Links;
    - o Email Us;
    - o Reserved Area.

Project Summary
The page contains an introduction about the key motivations behind CASCADAS, the main project main goals and a brief introduction of principles and concepts which will be investigated and developed during the project.

Partners
The page contains a list of the partners joining the CASCADAS Consortium. For each partner the page shows a logo and the partner web site.

People
The page contains a list of the people participating to the project. For each people the page shows a picture, the name and eventually the persona web page.

Objective
The page describes more in details the project objectives specifying the main challenges and technical issues to address during the project.

Project Data
The page contains the following information about the project:

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- Project URL;
- Project reference;
- Duration;
- Overall effort;
- Eligible costs;
- EC contribution;
- Project Co-ordinator;

Technical Approach

The page contains an explanation of the key scientific principles enabling the CASCADAS vision. Furthermore a brief introduction to the technical aspects covered by the different project work packages is given.

Related Projects

The page contains a brief description (and the related links) of the other related International (non only IST) projects.

As a matter of fact adding to the number of links, is the fact that the CASCADAS Web-site is also designed to act as a portal to Autonomic Communications information and activities reported on the Internet.

Cooperation

The page will contain issues description, living lists, positioning documents etc. related to on-going cooperation with other international projects dealing with topics related to CASCADAS activities.

Dissemination

The page will contain an updated list of the dissemination actions (paper abstract, link to presentations, etc) carried out by the project. Any events and initiative designed to promote and disseminate CASCADAS results will be briefly described.

Press Release

On this Web page the user will find current news releases sent to the press by the Consortium Partners.

Calendar

The page contains a calendar highlighting the CASCADAS events and meeting. The calendar reports the months containing meeting dates.

Site Map

The map site provides an overview of how the Web site is organized as well as links to individual pages of the site.

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Search Tool
The page contains a Google based search tool which can be used to search information in the CASCADAS web site.

Useful Links
A number of direct links are listed on this Web page to help the user to connect other sites of interests and related to CASCADAS.

Email us
The button opens the default e-mail user agent putting in the to field the project coordinator's email.

Reserved Area
The button is a link to the CASCADAS repository web access. The access is limited only to CASCADAS members.