**NAME OF CASE**

GAIA - Generalized Automatic exchange of port Information Area

**KeyWords:**

Ports, informative node, traffic monitoring, transport

**Description:**

Project GAIA was based on a comprehensive vision of the Adriatic port system, which integrates many actors that operate between the two sides of Adriatic Sea. In this framework, an issue that takes on particular importance is the consolidation and the development of Systems Information that allows the secure exchange of information about security and travellers. This is a key instrument that allowed a more efficient decision-making of local port authority as well as other public actors.

**Benefits:**

- A more accurate application of the security protocols for the ports;
- The end user will be guided during the planning of a trip and will receive real-time information regarding every single delay and/or problem during the trip;
- Alternative schedules to the users to complete his/her trip in case any problem occurs during the intermodal path.

**Starting Point/Objectives/Motivation:**

The main objectives of GAIA project is the development of a central information node (trans-adriatic ports information node) that will allow a secure interchange and sharing of information among ports within the Adriatic sea. Such information will regard both the ISPS Code (International Ship and Port Facility Security) and the intermodal traffic and transport. The node will act as an integrator of information coming from different and heterogeneous information systems used by each source port and it will deliver the aggregated information to the different actors (the source ports themselves) around the Adriatic sea. The aggregated dataset will satisfy both the ISPS Code requirements and the need of intermodal transportation for people and goods. Moreover, the GAIA project will develop a set of services in order to deliver information to trusted and authorized users, a modular application that will provide services for intermodality accessible via web both from desktop computers and mobile devices as well as a data warehouse architecture for strategic decisions support.

**Success Factors:**

The main success factors of GAIA:

- a central node that will collect and aggregate information coming from different ports of the Adriatic Sea;
- a set of services to deliver information to trusted and authorized users.

**Supported Strategic Targets:**

- modular applications to provide services for intermodality accessible via web both from desktop computers and mobile devices;
- a datawarehouse architecture for strategic decisions support.
In current typical logistics transportation processes, there are significant lacks in the communication flow between the actors involved and communication flows are performed only via fax, e-mail or phone calls. The majority of administrative issues, and in particular the ones related to customs, are manually performed and very often it is very difficult to track the cargo and automatically detect its position.

Contact details:
Ing. Mario Mega
President of Port Authority of Bari
m.mega@aplevante.org
Dr. Chrysostomos Stylios
Computer Technology Institute and Press Diophantus
stylios@westgate.gr

www.project-gaia-eu

Within the frames of project GAIA was described the functionality and organization of an Integrated Information System that provided to the port authority the desired functionality for passenger, vehicle and authorized personnel trafficking in the areas of the port and the itineraries of the port, with the use of the Unified Modeling Language (UML). Moreover, it describes the organization and architecture, regarding the implementation of an information node called TaPIN (Trans-Adriatic Ports Informative Node) in the Greek ports, which allowed the cooperating parties to retrieve stored data that regard certain itineraries and also perform data mining and other related business intelligence operations.

Relevant transport modes or supply chain elements:
- Transport
- International Ship and Port Facility Security
- Port Information Systems

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