

## D2.2 NEW AND REVISED GENERAL REQUIREMENTS

### Lead Beneficiary: The Hellenic Institute of Transport, Centre for Research & Technology (CERTH-HIT)

**Authors: Evangelos Mitsakis, CERTH-HIT; Georgia Aifadopoulou, CERTH-HIT; Germán Herrero Cárcel, ATOS.**

Full deliverable available here: <http://aeolix.eu/deliverables/>

The main aim of Deliverable 2.2 is to describe the general needs and requirements for all the Living Labs (LLs) of the AEOLIX project. A six-step approach was developed and implemented by CERTH-HIT and is presented in detail in the Deliverable. The approach was based on a structured template which was first validated by the partners involved in LL3 Thessaloniki, and then was circulated to the other ten AEOLIX LL's partners, in order to record their specific needs and requirements.

The user's requirements are divided into eleven main categories: i) Functional; ii) Performance; iii) Architectural; iv) Operational; v) Configuration and User Interface; vi) Security; vii) Ethics; viii) Cultural and Political; ix) Maintenance and Diagnostics; x) Legal; and xi) Logging and Tracing. Every category has its own significance since it covers different aspects of the AEOLIX functions.

The general requirements of each LL are categorized also by the level of priority (low, medium and high) and the implementation period (short-term, medium-term and long-term) based mainly on the implementation plan set by the LL actors. This categorization is assisting in formulating priorities during the development of the AEOLIX platform. These needs and requirements were identified through the development of different use cases for each LL, according to their specific purposes. The use cases are deployed as guidelines, in order to continuously develop new and revised general requirements for each LL of the AEOLIX project. In the description of every use case there is a reference for the specific requirements that will be needed during the development of the platform.

Below is a sample of the summary of the requirements identified through this research process for each of the eleven categories defined above. The full Deliverable specifies considerable details about the requirements including: description; to which LLs they apply; details of the use cases which they are associated with; the prioritisation of the requirements; and their expected duration.

#### Functional Requirements:

- To provide status related functionalities, including location and context related information, early visibility, ETA updates and schedule updates for: containers; trains; trucks; vessels; and warehousing facilities.
- To provide connectivity to 3rd party systems for data/status exchange.

#### Performance requirements:

- AEOLIX services shall provide their functional response within a maximum response time window.
- Resources needed to access and execute AEOLIX services at LL level shall not be more than those of a high-end PC.



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### Architectural requirements:

- Allow users to subscribe to one or more services, but the access shall be controlled with predefined roles for a variety of different users simultaneously. Required by eight LLs.
- Must be built to be future proof (to avoid high maintenance and upgrading costs). Required by six LLs.

### Operational requirements:

- Each LL stakeholder must be supplied with a quick start guide to the services. Required by all eleven LLs.
- Each user must be trained on the use of the platform. Required by all eleven LLs.

### Configuration and User Interface requirements:

- AEOLIX interfaces shall be intuitive for the end user.
- AEOLIX interfaces shall be available in English and in the local language.

### Security requirements:

- Shall be able to provide access to LL's services through an authentication mechanism.
- Shall operate by supporting all currently known secure communications and data exchange protocols.

### Ethics, Cultural and Political requirements:

- Data privacy regulations shall be followed.
- Data utilised by the platform shall contain as little data of private nature as possible.

### Maintenance and Diagnostics requirements:

- Platform and its components must be easy to install.
- Support remote maintenance and upgrading, with scheduled backups.

### Legal requirements

- Be compliant with local regulations related to the transport and storage of goods.
- Ensure the compliance of the transactions with taxation regulations.

### Logging and Tracing requirements

- Implement a logging module where all logging info must be stored in order to compute all KPIs related to impact assessment and evaluation of services.

This Deliverable is a 'living document' which will be updated during the project life with additional general needs and requirements based on the emerging needs of the LL partners.

Access the full deliverable here: <http://aeolix.eu/deliverables/>

