



## FInest – **F**uture **I**nternet enabled optimisation of **t**ransport and **l**ogistics networks



### Deliverable D3.2

## **Conceptual Design of Domain-Specific Future Internet (FI) Platform for Transport and Logistics**

Project Acronym	FInest	
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## **Abstract**

*TBD*

## Document History

Version	Date	Comments
V0.1	03-02-2012	TOC + Content Outline

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## Acronyms

Acronym	Explanation
V1.0	First draft



## 1. Introduction (SAP, 2 pages)

This report presents Deliverable ...

- Intermediate report on on-going design of Finest Platform (Solution Design and Architecture)
- Report on Main Achievements in period M7-M12
  - Coordination & Alignment of (Technical) WPs
  - Finest Demonstrators (aim, workshop, how & why 4 Demonstrators were selected)
  - Refinement ‘How the Finest Platform Shall Work’ + initial business model
  - Refinement of HLA
  - Platform Technologies
    - Security Framework
    - Finest Back-End: requirements + technology assessment
    - Basis for Finest Information Model (TEP & TSD)
- Other aspects have been decided to be postponed, to be addressed in later stages, incl.
  - Front-End
  - Technology Selection for Technical Interfaces
  - Middleware Mgt (deployment, etc.)
  - End-User Communication & Human Collaboration Support
  - ...

## 2. Alignment & Coordination (SAP, 2 pages)

To be here

Report on what Finest did for

- Teaching Domain -> ICT and vice versa
- Align work among WPs (either only technical, or covering all aspects)

*[Not sure whether a separate chapter is necessary for this ... to be decided]*

## 3. Finest Demonstrators (SAP, 3-5 pages)

To be here

- Motivation & Aim
- Amsterdam Workshop Report: what was done & how
- How & why 4 Demonstrators Where selected
- Main aspects of selected
- Template for Demonstrator descriptions; reference to WP5 – WP8 for concrete descriptions
- Plans for Future Development of Demonstrators

## 4. The Finest Platform (SAP + KN, 5-8 pages)

**To be here**

- How the Finest Platform shall work – the ‘refined overall vision’
- Initial version of ‘business model’: roles, software provisioning model, value added chain

### 4.1. How it shall work (KN / SAP)

Below is a figure from the Finest presentation @ the FI PPP Meeting 25.01.2012 – some (minor ??) refinements are still necessary

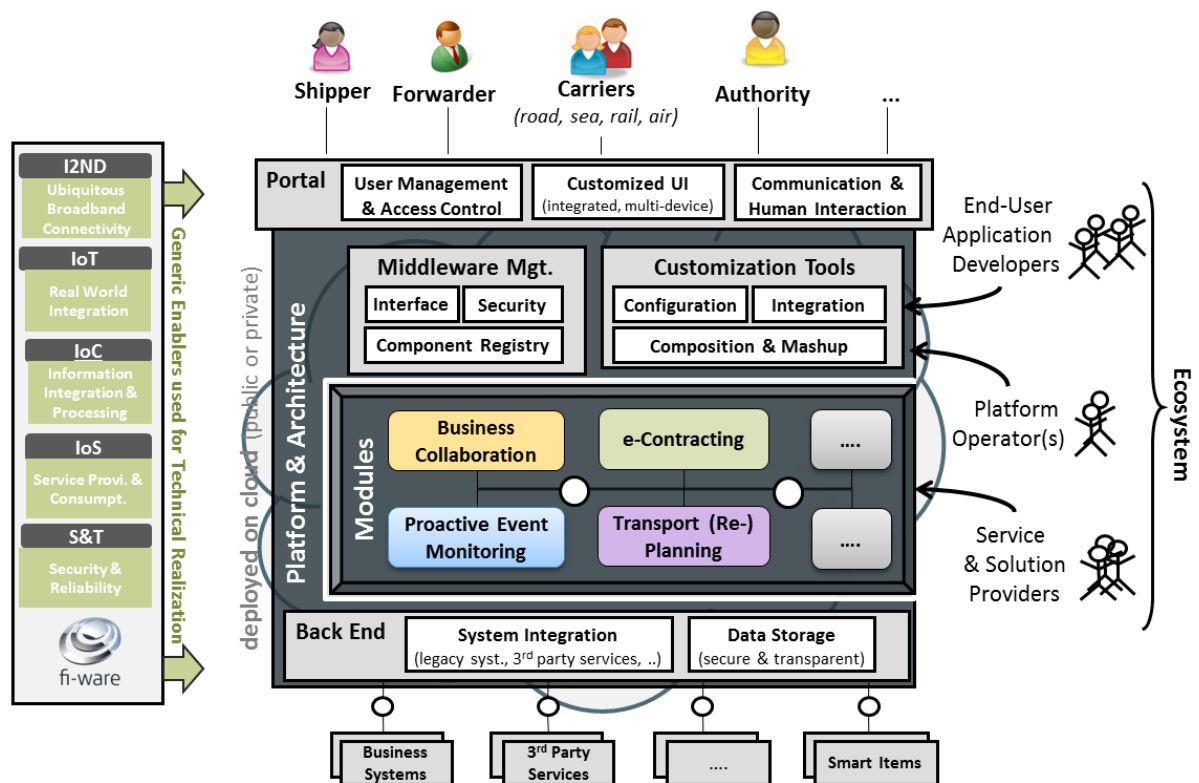


Figure 1: The Finest Platform - Refined Overall Vision

Followed by ‘explanation’ of main elements (what they shall do and why)

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## **4.2. Value Added Chain – Initial Model (SAP / KN, 3-5 pages)**

- Role Identification
  - Several ICT: Providers, Platform Operators, Application Developers
  - End-Users / Customers: T&L Domain Players
- Software Provisioning Model
- Value Added Chain
  - ICT Partner Ecosystem
  - How money can be earned (cf. ‘business model’ from Rod as basis)

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## 5. Refined High-Level Technical Architecture (UDE + Technical WP Leads; 5-10 pages incl. Figures)

### To be here

- Refined HLA (this shall be done / started in the f2f in Essen, 16. + 17.02.)
- Maybe extend with some further technical aspects (e.g. as a 'governanced SaaS Platform', relevant plat-form level GEs, etc.)

➔ **Andreas (lead?) + Michael + Technical WP Leads**

## 6. Security Framework for Finest (KOC, ca. 5 pages)

[Aim copied from WP3 work plan]

**Aim:** provide a comprehensive concept for the ‘security technologies’ to be employed within the Finest Platform, incl.: access control / user management, secure information transfer in distributed environments, secure storage & retrieval, etc.

- Define a comprehensive framework that covers all aspects relevant for secure, reliable, and trustable information exchange within the Finest Platform
- Preliminary ‘technology baseline selection’ (= propose most promising technologies)
- Inspect / request Generic Enablers from FI-WARE for this (i.e.: get into direct contact with FI-WARE Security Chapter, determine which ones are useful + what is missing)

## 7. Finest Back-End: Requirements Analysis and Initial Technology Assessment (IBM, ca. 5 pages)

[Aim copied from WP3 work plan]

**Aim:** conduct an analysis on ICT systems currently employed in the domain wrt. the technical interfaces and information interchange formats (maybe in conjunction with WP1), and, on basis of this, provide an assessment on suitable technologies for realizing the system integration to enable the information import / export (existing business systems and 3<sup>rd</sup>-party systems), i.e.:

- Domain requirements analysis for integration of existing business systems
- Assessment of system integration technologies for Back-End

## 8. Foundation for Finest Information Model (MRTK, ca. 5 pages)

→ To be decided whether this shall really be here

**Aim:** present / introduce them as the starting points for the Finest information exchange model / common data model (i.e. what we discussed in the last meetings).

- Introduce TEP and TSD (metamodels + related standardization activities)
- Outline the envisioned usage within Finest + considered extensions

I think this would be good content (for the ‘selling part’ towards the EC / reviewers), and it is fairly easy to produce (because we / you already have most of the information), and WP3 is the most appropriate place where to put this information (because it is more on the platform-level than on an individual component as e.g. the TPM).



## 9. Conclusions and Outlook (SAP, 1 page)

- Summary of Deliverable
- Outlook for next phase

## References

[1] xyz.