Agenda

Making Transports Smart – The Gebrüder Weiss EURIDICE Pilot

● Need for Real Time Traceability?

● System Architecture of the Pilot

● Impact / Limitations
Need for Real Time Traceability?

How we track goods today…

The Virtual World

The Real World
Need for Real Time Traceability?

How we track goods today...

The Virtual World

Peak of Information

Peak of Information

Peak of Information

Business processes are not transparent – information is not available in real time.
What do we expect from our supply chains?

- Monitoring and information in real time.
- Proactive information in case of events/exceptions.
- Local intelligence and context awareness of goods.
- Use of robust, fail-safe technology to track goods.
- Integration of all stakeholders along supply chain.
- Standardized protocols for B2B communication.
Agenda

Transparency in Supply Chains Through Real Time Traceability

- Need for Real Time Traceability?
- System Architecture of the Pilot
- Impact / Limitations
System Architecture

Enterprise
- Transport Management System
- Warehouse Management System
- ERP System
- ...

ESB
- Consignment Pool
- Assisting Cargo Agent

Environment

Customer / Partner
- ERP System

ESB
Future System Architecture

Enterprise

- Transport Management System
- Warehouse Management System
- ERP System
- ...

ESB

Environment

- Consignment Pool
- Assisting Cargo Agent

Customer / Partner

- ERP System

ESB
Supply Chain Monitor – Monitor Consignments
Agenda

Transparency in Supply Chains Through Real Time Traceability

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Usability of the Platform

- Users get transparency over the whole supply chain.
- All consignments can be easily tracked, the status of every consignment is clearly displayed by a colour indicator.
- Users can react much faster to deviations in the process (rerouting of the consignment, change of ETA, etc.).
- Status information is updated in real time.
- Users get proactive notifications when an unexpected event occurs.
- Users can define own monitoring rules – if applicable they can be deployed to a device in the field.
Impact

Key Performance Indicators

Tests are not finished yet.

Preliminary results:

● % of mistakes detected during loading / unloading
  0,88% ➔ 0,00%

● % of correct ETA
  98,68% ➔ 100%

● # of box manipulations (process steps) reported
  7 ➔ 7
  Process improvement not a goal for the pilot
What are the current limitations?

- System mainly for niche markets, e.g. high value goods.
- Successful pilot implementation, however research is still on-going and further developments are unclear at this time.
- Available software mainly from research and open source projects – large vendors not present yet.
- IT- and communication standards are not established at this time – unclear which standards will prevail in the end.
Experience for yourself how

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