

Verdict® Logging transport

safe transport for food: a contradictio in terminis ?

“Monitoring the Cold Chain”

Tuesday 9th May 2006

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Yesterday:

- Several speakers: about contamination of food and the modelling of “quality”
- Several speakers: about direct and indirect indicators: is temperature a good indicator?
- Prof. dr. McMeekin: Loss of information and analysis of information are key issues;
- Prof. dr. Labuza: TTI’s and data loggers.

Missed:

- 3 types of quality loss:
 - Physiological quality loss of biological products
 - Degradation of molecules (pharmaceuticals)
 - Fungal and bacterial contamination in food (as discussed)
- Practical and complete solution to help the industry to bring a good product safely to the market.

2 major incidents:

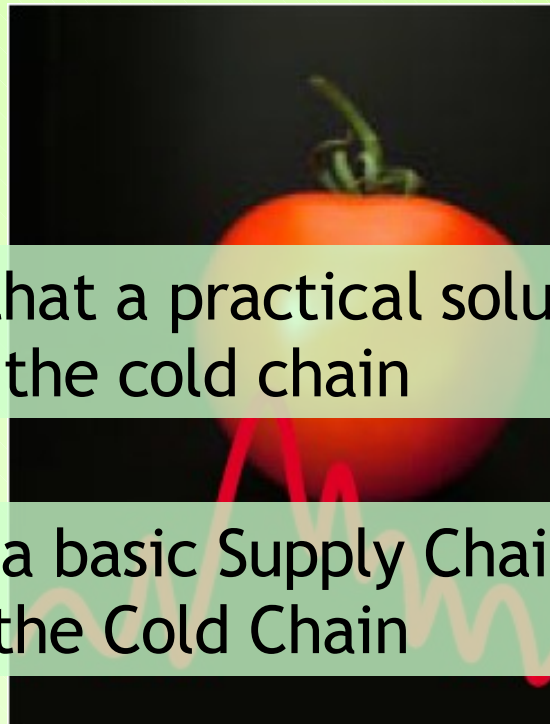


2 major incidents determined that a practical solution was needed to secure the cold chain



Orbi Solutions aims to bring a basic Supply Chain Solution for managing the Cold Chain

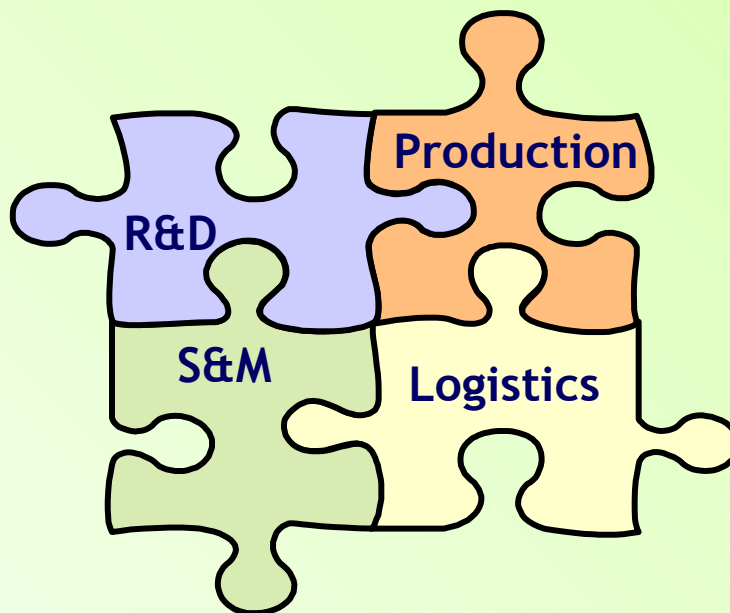
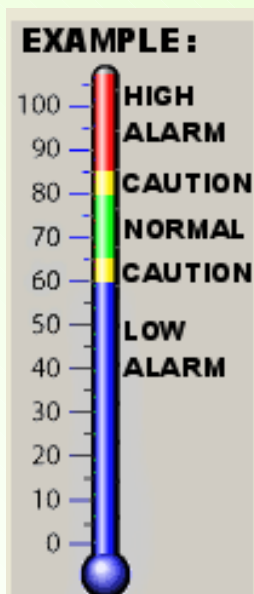
Contaminated baby food



Destroyed tomato seeds

A company brings value to their customer, but ...

- Some people in the supply chain are not aware of the value and sensitivity of your product: pharmaceuticals, food, biotechnology
- Might result in too high temperature of your product in transit



Despite all efforts...

- Unsafe product is in the market
- Caused by not correct handling after it left your warehouse.

What went wrong?

- Transport? Logistical company? Customs?

Consequences?

- Brand image? Consequential damage?
- Who takes responsibility?
- Who pays the bill?
- Fact: claim value up to 1000 times production value

The solution

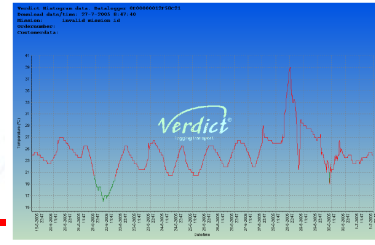
Verdict to connect your computer in your Expedition to the warehouse of your customer:

- A new designed logger to guide your product during transport
- Guiding your transport from warehouse to customer
- Automatic world wide data communication through our web server
- Within 10 seconds full overview of your product in transit



- Verdict® datalogger (± 15 gr)
- Verdict® Readers
- Verdict® software
- ISO - Procedures
- Training
- Webserver www.verdict.nl

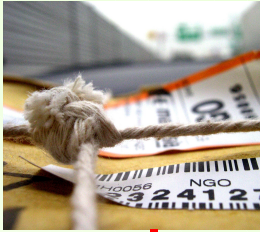




Systematic

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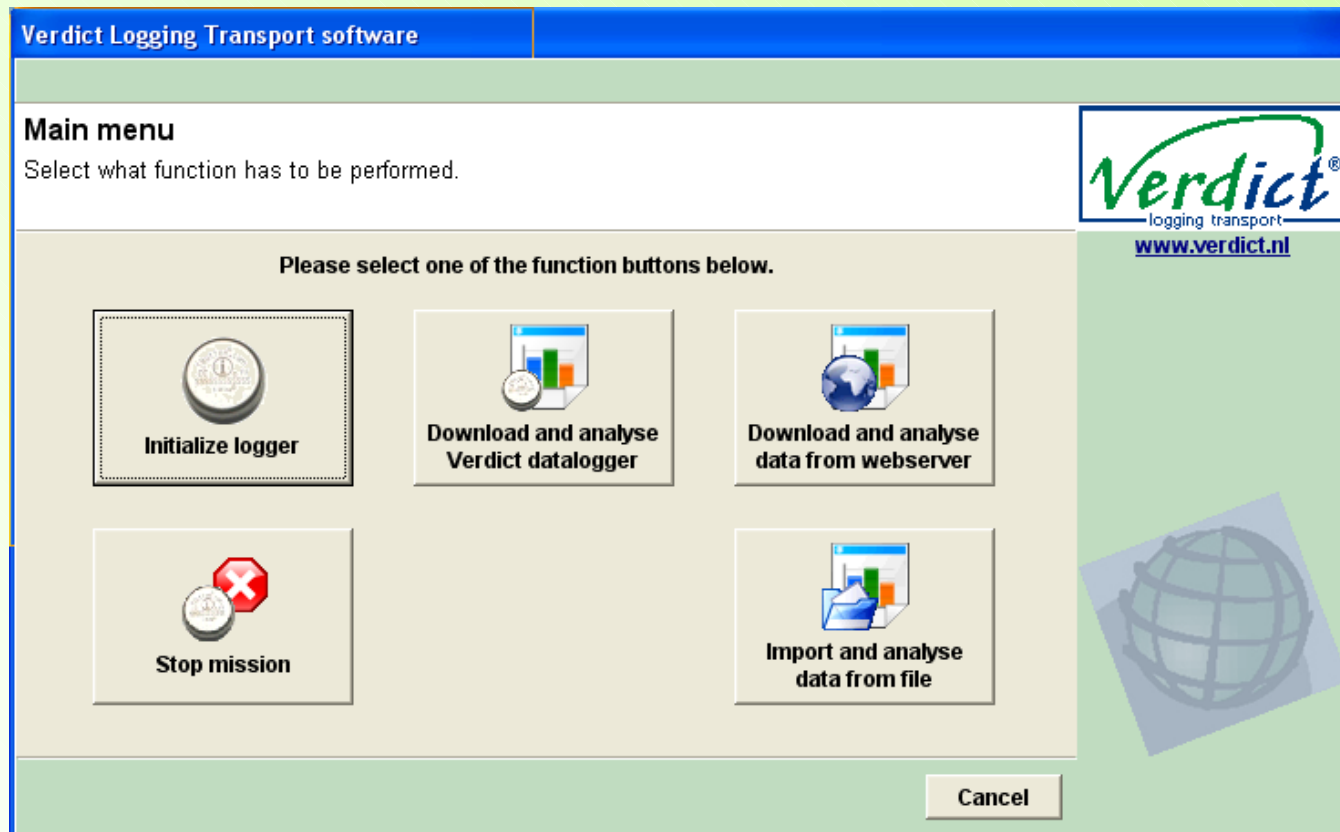
Cold Chain Management in your Supply Chain



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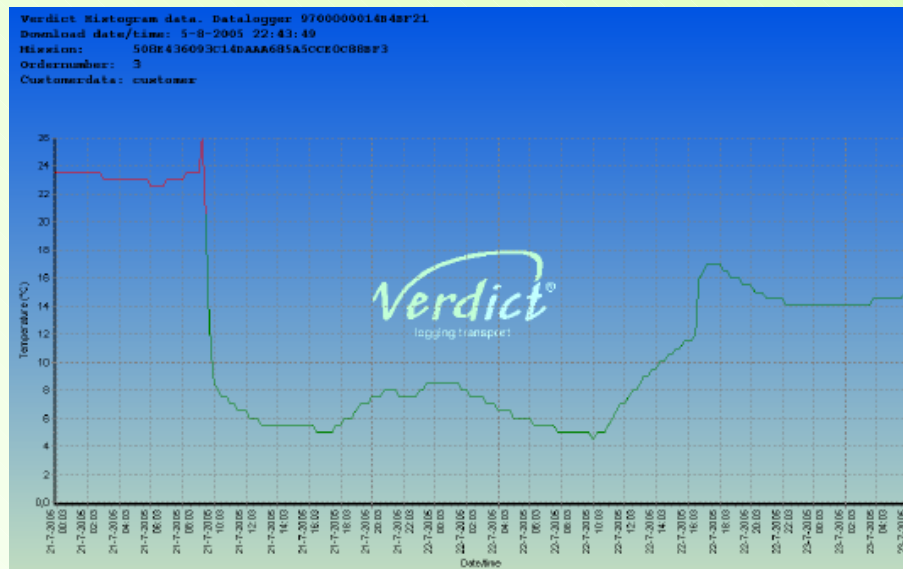
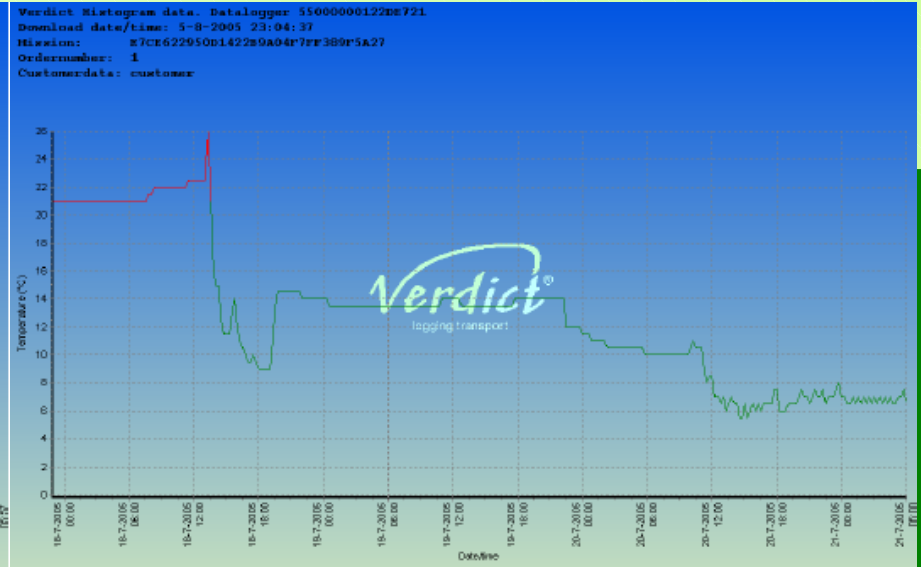
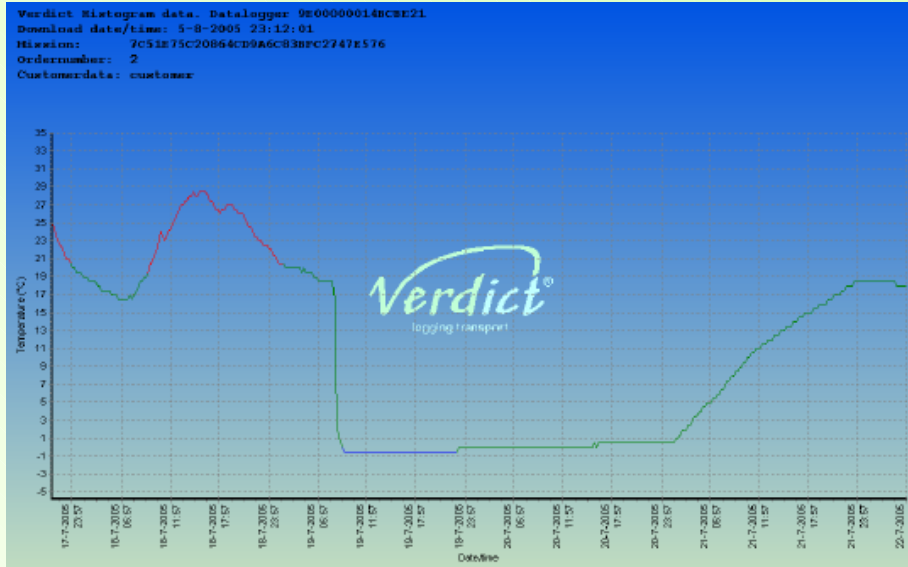
Verdict - Software





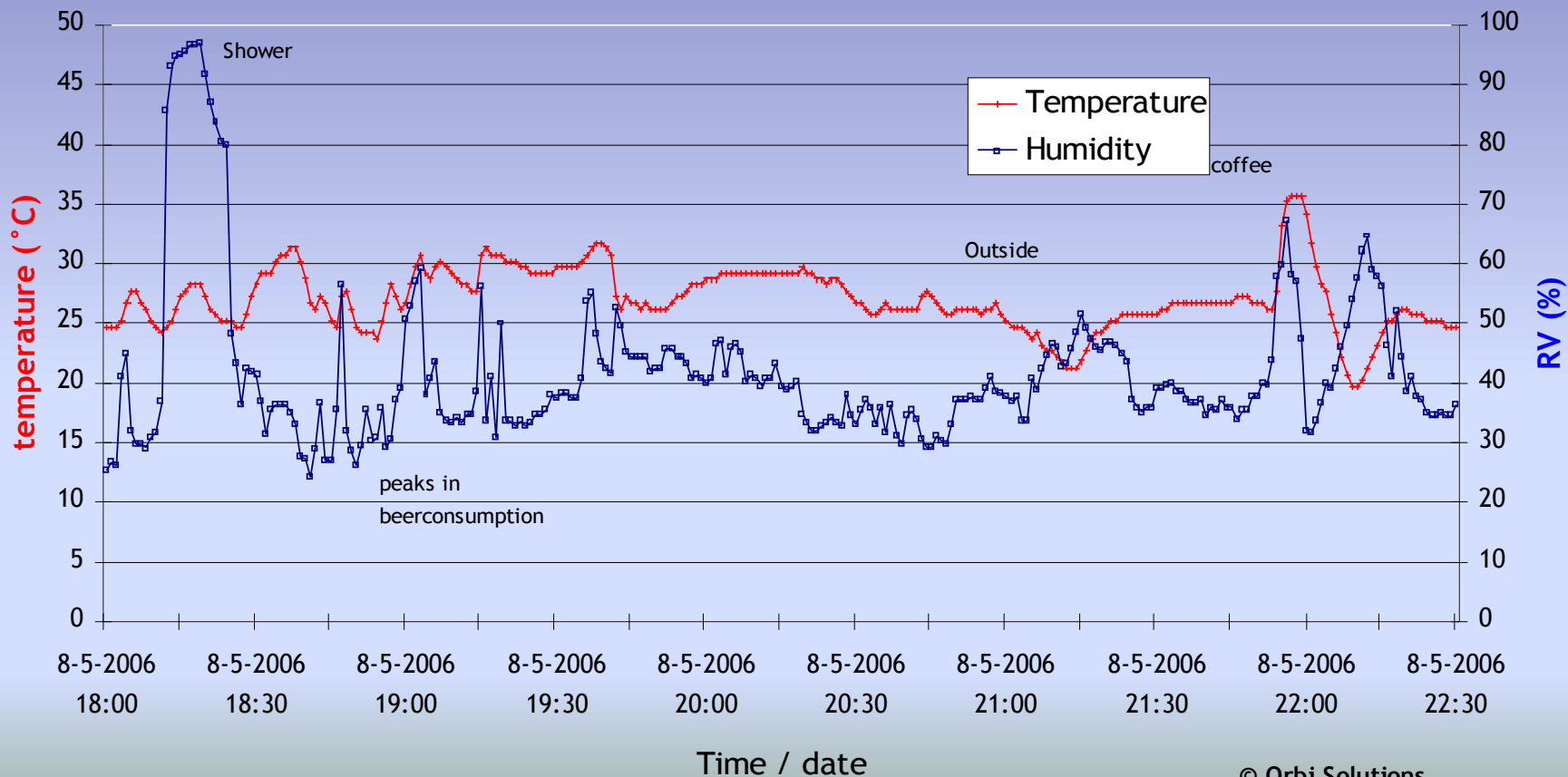
NL -> USA

NL -> France



NL -> Italy

Temp & RV - special delivery during Rhinecruise in Bonn



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Advantages of Verdict®

- Detects potential risks.
- Avoids consequential damage.
- Tamper proof.
- Limits liability
- **Verdict®** covers whole Supply Chain.

Verdict aims to offer a practical solution to be able to monitor the Cold Chain, to enable safe transport of food, pharmaceuticals and horticultural / agricultural products



Thank you for your attention!

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