

## Shelf life and cold chain management



### Monitoring of shelf life leads to savings

For perishable goods such as produce or seafood products, a few extra days in the warehouse means that they may be headed for dumpster. With hundreds of thousands of products to track, it is all too easy for warehouse managers to overlook goods that have been sitting the longest. Without a comprehensive overview of the remaining shelf life, there is no way to know which goods should be expedited. And, even when cold chain issues are identified, it can be difficult to identify where and when a temperature breach occurred. A lack of collaboration between supply chain partners only adds to the confusion.



TraceTracker's Product Champion is a web-based solution that provides an overview of shelf life and temperature status along supply chains. The solution enables companies to follow RFID-marked goods or containers of goods between companies in supply chains. With Product Champion companies know exactly which goods are stored in a warehouse, how long their remaining shelf life is, and when they were sent to the next location in the supply chain. Temperature monitoring and customized reports facilitate rapid identification and investigation of shelf life and cold chain issues.

### Features

- Real-time temperature history charts
- Customized reports
- Instant searches for product details
- Scalable for companies of all sizes
- Hosted service available 24-7
- Simple integration with existing IT systems
- Affordable set up and subscription fees
- A powerful business intelligence engine

### Benefits

- Significant savings by decreasing waste
- Improved warehouse logistics
- Unbroken temperature monitoring
- Improved food safety
- Improved regulation compliance
- Recall facilitation
- Collaboration with supply chain partners to address shelf life issues
- Rapid identification of supply chain problems
- Measurement and analysis of the flow of goods from suppliers to retail stores

# Product Champion in Action

tracetracker

## Product Champion



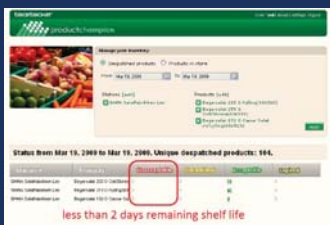
### Access

Access Product Champion through any modern web browser. Authorized logins with advanced security settings can be provided for any number of players along the supply chain such as warehouse managers, transporters, and store managers.



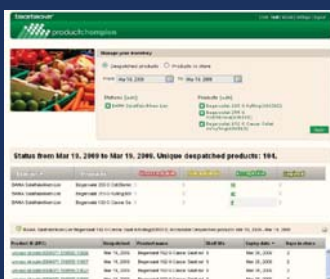
### Product searches

Search for single items or a group of items. Search for items in a period of time, by location or product type.



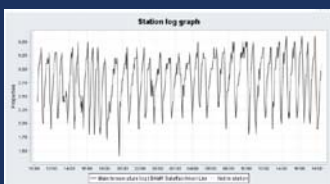
### Remaining shelf life

For each location, such as a warehouse, view the number of items with the remaining shelf-life that meets your criteria. For example, you can view the number of products with less than 3 days remaining shelf-life, or those with 3 to 7 days remaining.



### Investigate

Drill down to see a list of all of the products or items with the selected range of remaining shelf life.



### Temperature

For any item, drill down to see further details such as a complete temperature history and a history of where the product has been.

### Smart Vareflyt

Product Champion was developed as part of the Smart Vareflyt project, an innovative initiative within the Norwegian grocery sector. The goal of the project is to develop "intelligent packaging" using RFID tags to monitor and control the flow of goods from raw materials to the final product including transportation and storage at the store.

To demonstrate the solution, Product Champion was used to track and monitor bags of Bama's salad mixes from a factory in Lier to sale at a Meny store in Asker, Norway. Boxes of salad bags were marked with unique identifiers encoded in RFID tags. Then, at various locations along the way, the salad packages were automatically read and the temperature was recorded. This information was used to determine the storage status and remaining shelf life at different locations.

### Behind the scenes

The Product Champion is made possible by TraceTracker's powerful middleware products including the TIX EPCIS Service which aggregates and stores EPC related product information from diverse sources. The TIX is compliant with all relevant industry standards including the Electronic Product Code Information Services (EPCIS) Standard from GS1.

### TraceTracker AS

Øvre Slottsgate 4  
0157 Oslo, Norway  
Tlf: 47 70 44 00  
Fax: 85 22 87 60  
E-mail: [info@tracetracker.com](mailto:info@tracetracker.com)  
[www.tracetracker.com](http://www.tracetracker.com)

© 2011 TraceTracker AS. All rights reserved. Trademarks, brands and logos mentioned herein are the property of their respective rights-holders.