



English

### Wireless communication in real time

The PWS-770 is serially connected with a telematics gateway from Styletronic for data transmission and communicates via Bluetooth with a handheld computer. The respective other device performs almost all functions in case of errors.

All drivers have a personal driver card, which they use to log on to the digital tachograph (DTCO) before starting the trip, thus ensuring that route and vehicle can be clearly assigned at all times. The transmitted data is hosted on servers in Styletronic's data center and provided to the competent authorities within the law.

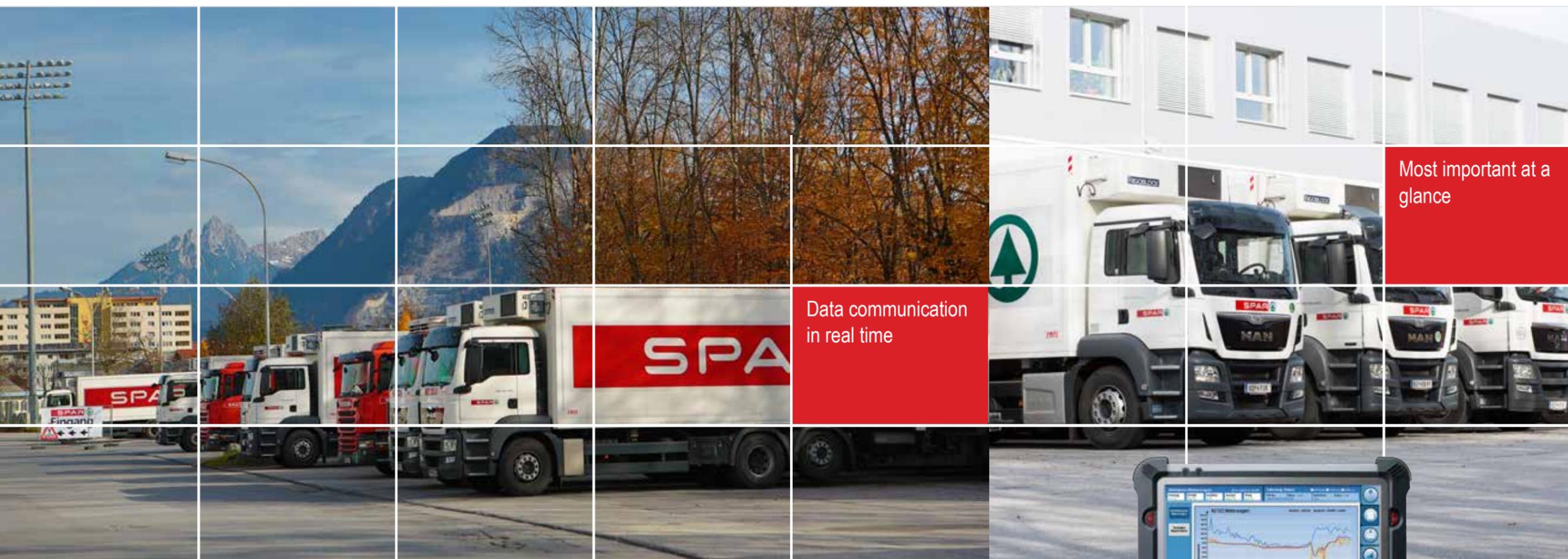
### Project highlights

- Reliable collection of all vehicle and route data
- Integrated, process-oriented solution with supply and cold chain monitoring
- Communication and data availability in real time
- Easy and convenient operation via 10" display
- Improved navigation and route planning
- Windows OS provides future-proof, expandable system with open interfaces
- Continuous improvement is possible and comprehensible
- Integration of truck camera system

- 10" Rugged Touchscreen Tablet-PC
- Open Windows 7 Platform
- Intelligent, active vehicle dock
- Data communication in real time

### Advantech-DLoG Reference

### Spar Saves in Warehouse and Transportation Logistics - with Advantech-DLoG



PWS-770 rugged Tablet PCs from Advantech-DLoG provide for secure data – in terms of transmission as well as operations.

### Requirements:

- Reliable collection of all vehicle and route data
- Simple and ergonomic operation
- Complete documentation in accordance with IFS guidelines

### Products used:

- PWS 770 Tablet computer
- PWS vehicle dock

### Benefits:

- Very easy touchscreen operation
- Communication and data availability in real time
- Improved navigation and route planning
- Extremely fail proof through redundancy
- High driver acceptance through ergonomic touch operation
- Efficient trading

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## Route management system for efficient trading

Powerful route management is a prerequisite for efficient trading. The trading group Spar is thus investing in a new route management system for the distribution of goods from its Austrian central offices to the individual Spar outlets. A total of 165 PWS-770 Tablet PCs from Advantech-DLoG will support scheduling, warehousing and logistics processes at Spar in the future.

For Spar, this is one of the 2015 innovation projects and continues the collaboration between A-DLoG and Spar that has already proven itself in many projects. The exceptionally constructive joint project work allows Spar

to expand its supply chain activities in the warehouse and on the road. Following implementation of the new route management system in Austria, expansion to Hungary and Italy is planned.

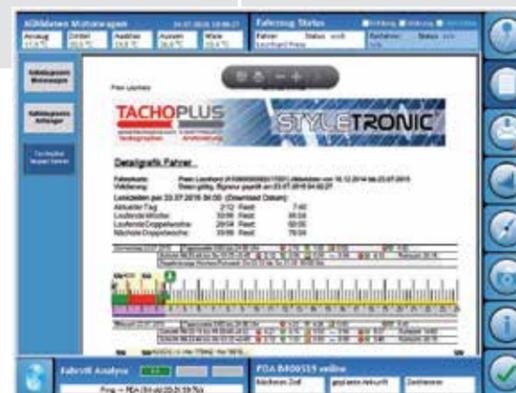
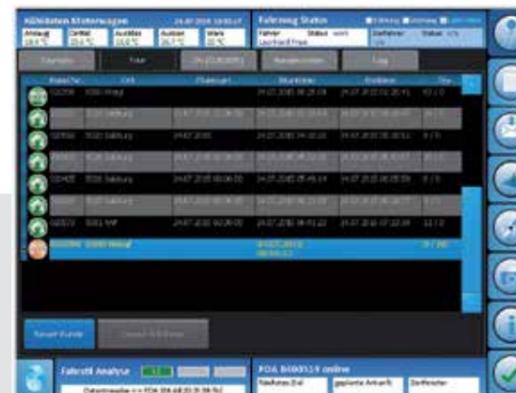
### Why a new route management system?

Many components of the Spar fleet management were no longer technically up to date. Frequent failures meant that seamless recording of data was no longer ensured. Renewing the system thus seemed wise.

## Rugged tablet with touch screen for all work on the road

The PWS-770 with its 10" display constitutes the heart of the driver's cab and the basis for data exchange and communication. A single device suffices for complete processing of orders directly in the vehicle, visualizing images of up to four vehicle cameras during the coupling and uncoupling of trailers and maneuvering as well as for displaying the navigation system.

"Optimal visualization of route data and the output of signal tones considerably enhance the practical usability of the tablets for us," comments Kienzl.

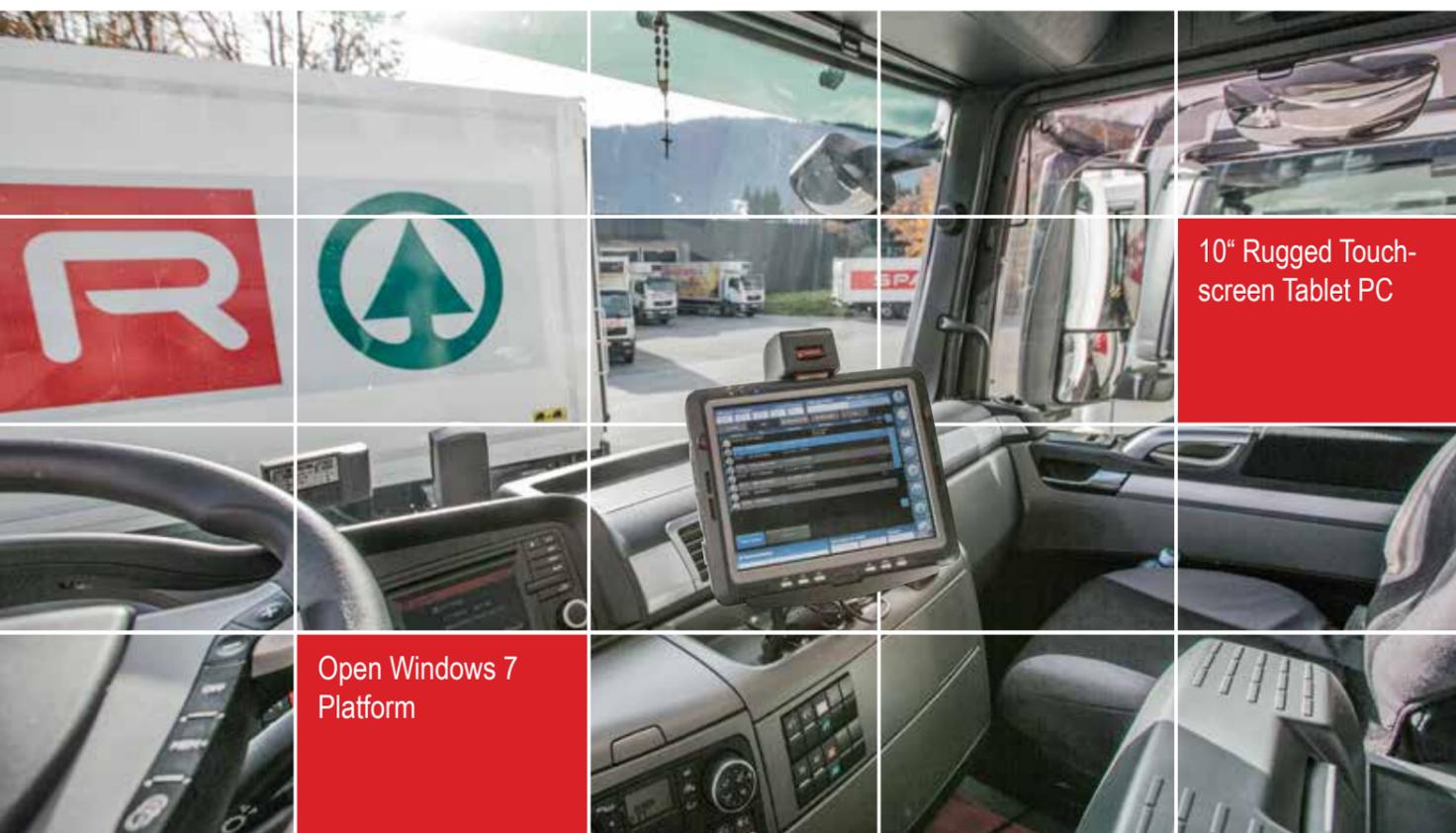


### Advantages of the PWS-770:

- Optimal presentation of all information at a glance
- High operating comfort thanks to touch screen
- Windows as the default operating system for easy connection of peripherals
- Robust vehicle dock in the driver's cab
- Data transfer via SIM card

The tablet PC is positioned via a robust vehicle dock in the cab of the truck. It is equipped with a SIM card in order to receive and send all information relevant to a given order and route.

A camera system is connected to the tablet – up to four cameras help drivers with the coupling and uncoupling of trailers and with maneuvering.



10" Rugged Touch-screen Tablet PC

Open Windows 7 Platform

Intelligent, active vehicle dock

The previously used truck black box could only process analog signals and could no longer be expanded. "DigiTacho data had to be downloaded directly to the premises by hand via USB stick – with a lot of effort that resulted in large losses of data and up-to-dateness for us," explains Matthias Kienzl, Project Manager at Spar. Spar's route planning has now been boosted into the digital age. Data communication takes place in real time and data is available at all times, providing for transparency, while redundant data storage guarantees reliability.

The new route management system provides a permanent overview of driving behavior, which is displayed for each driver via a traffic light system. Advantages: Drivers know where they stand and are motivated to improve their performance. Drivers are trained in a very targeted manner today and the success of the measures taken can be constantly monitored. Improved driving behavior and optimized route planning can result in fuel savings of up to 5%.

