

LEONI

COMMUNICATION SOFTWARE AND TOUCH SCREENS
IN THE PRODUCTION PLANT

elia



CASE STUDY

Working more efficiently with information
leads to improved production quality and workflows

Client:

LEONI

Industry: Manufacture of cables
and optical fibres

Number of employees: 75,000

LEONI has a 100-year history and 75,000 employees in 32 countries around the world. It is one of the world's leading manufacturers of wire, fiber optics, cables and cable systems. Its innovative solutions are used in the global automotive industry as well as in key industries such as telecommunications, IT, healthcare and energy.

For more information, please visit www.leoni.com

LEONI

1

REQUIREMENTS

- To simplify and streamline information handling in the production plant
- Deliver information to specific employees
- Communicate a wide range of information: production statistics, production errors, specific tasks, workflows, alarm management...
- Having a modern solution that enhances the image of the company

2

SOLUTION

- Creating a prototype software to display and input information for the needs of a specific manufacturing plant
- Integration of the system with touch screens
- Employee authentication via smart cards

3

BENEFITS ACHIEVED

- More efficient work with information in the production plant
- Employees' task performance controlling
- Increased quality of production and work processes
- "Wow effect" in front of customers and representatives of other branches

STARTING POINT

In the production plant there was a requirement to fundamentally improve and simplify the way in which information of various kinds are handled. Wide range of information had to be displayed, such as statistics of current production, specific tasks for employees on a given shift, work instructions and procedures, management alarms, up to lunch menus and bus departures.

It was desirable to both enter and display the right information to the right employees quickly and efficiently during production.



CHIP CARD AUTHENTICATION

SOLUTION

We prototyped an integrated hardware-software solution using touch screens, smart card authentication and custom software developed for the client.

On the production floor, employees can see important production information, instantly enter production errors and details, and easily write down data that needs to be checked regularly.

When starting and leaving a shift, employees are guided through a guide of specific tasks that need to be performed depending on the shift. The system clearly displays work procedures, instruction manuals, 5S, OHS, etc. on the screens.

All communication is linked to specific persons who authenticate to the system with smart cards. The system also supports multi-level authentication for tasks where this is desirable.

The modern solution increases the efficiency of communication in the production operation. At the same time, it enhances the image of the company in the eyes of customers, business partners and employees.

ELIA, s. r. o.

ELIA is dedicated to the development of customized software solutions for clients in various fields. It mainly provides its services to clients operating in the banking and financial sector, e-learning, and automotive industry. The company is also involved in software design, user-experience as well as creative 2D and 3D graphics. In its 17 years on the market, the company has won several awards in the field of software development and creativity.

For more information, please visit www.elia.sk

The screenshot shows a task guide window titled "Úloha" (Task) with a notification icon in the top right corner. The text inside reads: "Dnes je pondelok. Premaž pniaci zásobník a vyčisti trysku." (Today is Monday. Grease the bearing housing and clean the nozzle). Below the text is a video player showing a close-up of a mechanical part being worked on. At the bottom of the window, there is a small image of a card and the text: "Potvrď čipovou kartou na snímači čipových kariet." (Confirm with a chip card on the chip card reader). A red button at the bottom left says "Upozornit na udalosť" (Warn of event).

TASK GUIDE

The screenshot shows a procedures window titled "Dokumenty » Pracovné postupy » Defektoskopia" (Documents » Work procedures » Defectoscopy). The top right corner shows "Tiedeš Zelenej 16.6.2013 15:32" and a user profile icon. The main content area is titled "Kontrola kvality materiálov - Defektoskopia" (Material quality control - Defectoscopy). Below this, the text reads: "Princíp kapilárnej metódy: na očistený a odmastený povrch sa naniesie indikačná kvapalina, ktorá vplyvom kapilárnych síl vnikne do trhliny, potom sa kvapalina z povrchu odstráni a naniesie sa vývojka." (Principle of the capillary method: an indicator liquid is applied to a cleaned and degreased surface, which penetrates the crack due to capillary forces, then the liquid is removed from the surface and a developer is applied). Below the text is a diagram showing four stages of the capillary method: 1. Application of liquid to a crack, 2. Penetration of liquid into the crack, 3. Removal of liquid from the surface, and 4. Application of developer to reveal the crack. Below the diagram are two photographs: one showing a crack being illuminated with a purple light, and another showing a person applying a substance to a surface.

PROCEDURES

elia



JURAJ KOCKA

Head of creative division

+421 914 323 952

juraj.kocka@elia.sk

ELIA, s.r.o.

Hviezdoslavovo námestie 7

811 02 Bratislava

Slovakia