



# TRACEABILITY TAILOR-MADE SYSTEM

*Dedicated product tracking system through the production line*

## CASE STUDY

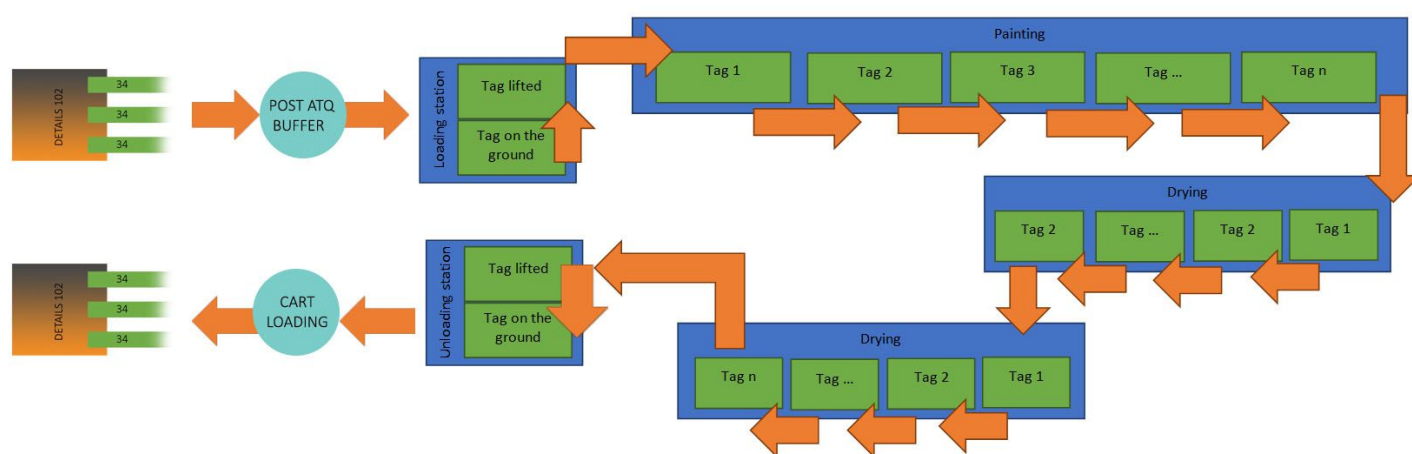
# Dedicated product tracking system through the production line

## THE PROBLEM

InfoSoftware Polska has been contracted by BWI, a world leader in the automotive industry, to create a traceability system for automated paint shops. The challenge was to design, create and implement a tailor-made system that effectively identified possible production mistakes or flaws. Any working solution would have to be applied to a production line that handles numerous types of products that are handled in a different pattern inside the workshop.

## OUR SOLUTION

Our team developed a concept of a system using RFID technology, i.e. identification using radio signal. Data from scanners are then analyzed by a specialized software created by the team InfoSoftware Poland. The role of the software is to aggregate and process information from sensors to provide the crew with full information about the path that the product went through in the paint shop. Our client's product portfolio is diverse and the painting process for particular products differ from each other. Therefore, information on the product's path is crucial for the proper organization of production quality control. InfoSoftware Polska provided the complete system. The described software was developed by our in-house team. All the necessary hardware were furnished by our company and are under our technical support care. Most importantly, our team integrated the software and hardware component into one system.



Schematic overview of the implemented system

## IMPLEMENTATION

The system was implemented in three stages. This model was proposed by our team to make sure that the product we provide to the customer is error free

In the first stage, basic functionalities were implemented. After making sure that they work correctly, the system was extended to the target model. One of the challenges that our team had to face was to ensure that the solution implemented by our company will serve the customer for many years, regardless of the development of the company.

Since the very beginning, the system was designed with a view of its possible upgrade or modification in the future. The applied solution was to create the whole system in a modular way. Each component can be easily modified without the need to modify other elements of the system. This provides a wide range of possibilities to add new functionalities or change the already existing ones.

The effect of implementing our system in the BWI production line was to improve the quality control system. BWI is known for maintaining very high quality standards and our system has become one of the key factors that allows this.