

2025

GALVEX SPOL. S R.O.

Case study: Medication inspection and packaging labeling system





GALVEX, SPOL. S R.O.

Location: Banská Bystrica, Slovakia

Manufacturing:

- Medicines
- Healthcare products
- Dietary supplements
- Pharmacy products
- Raw materials



BACKGROUND

The risk of counterfeit medicines was on the rise worldwide prior to 2019. As a result, the European Union established a set of measures in Directive 2011/62/EU to prevent counterfeit medicines from entering the legal supply chain. As of February 9, 2019, only prescription medicines bearing new safety features may be placed on the market.

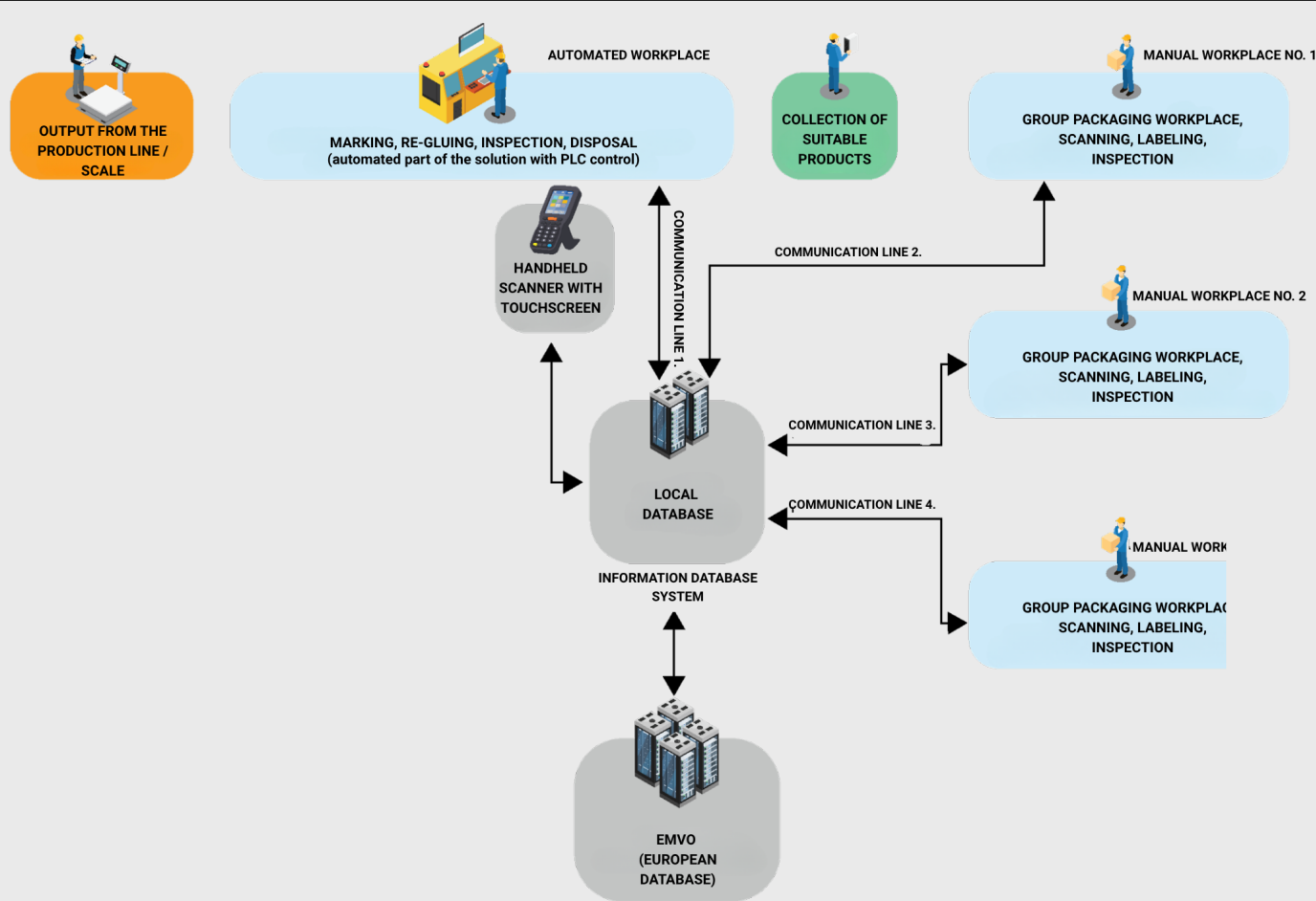
The European Medicines Verification Organization (EMVO) has taken responsibility for advancing the development of the European Medicines Verification System (EMVS). Galvex spol. s r.o. decided in 2022 to replace its original drug serialization system with a new one. In May 2022, a contract was signed for the implementation of the drug serialization system.



- Verification of the accuracy and legibility of labeling and inspection of seal integrity
- Recording of all produced drug packages
- Recording of package disposal, classification, and transfer to the laboratory
- Report on produced and disposed packages
- Approval of the list of produced packages intended for shipment
- Sending data to the central European database
- Option to package for external customers and import external customers' serial numbers
- Export of used serial numbers for external customers

REQUIREMENTS

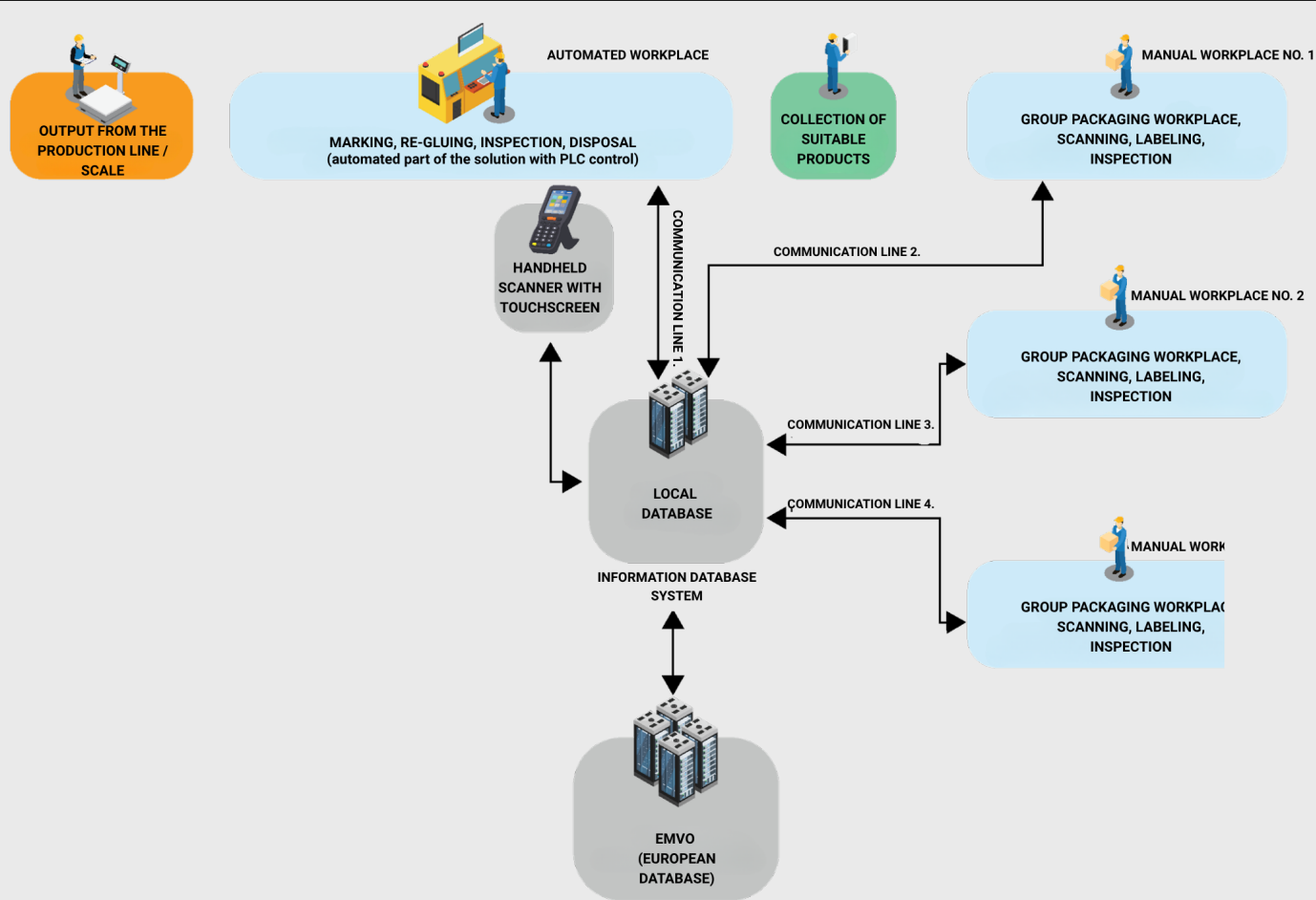
- Labeling of drug packages with a Data Matrix code containing a unique serial number – serialization
- Securing packages with anti-tampering seals
- The system is designed to label packages at the 2nd, 3rd, and 4th levels with a Data Matrix code for “track and trace” purposes



SOLUTION

Key features:

- Generation of serial numbers for medication packages in accordance with EU standards
- Verification of serial numbers on packages
- Option for both automatic and manual package labeling
- Recording of manufactured packages
- Export to external customer applications



SOLUTION

Components of the serialization system:

- Central application
- Automated production line/Industrial code printers
- Industrial and handheld scanners
- PLC controller with HMI console
- Operator PC/Communication interfaces



RESULTS

Thanks to the implementation of our drug serialization system, Galvex is now able to label and register the drugs it manufactures in the EU.

Currently, it is possible to label and inspect 130 packages per minute.

Following the successful implementation of the Track&Trace – Drug Serialization system, we plan to expand its functionality by integrating it with the systems of other external customers.



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