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## **AUTOMATIC CARGO IDENTIFICATION**

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In any effectively managed system it is necessary to obtain timely and accurate information about the objects of management. For example, clear and fast identification of cargo plays an important role in the processing of goods in warehouses and during their transportation.

The methodological basis of the study is analytical and abstract-logical methods, which were used to determine the benefits and prevalence of automatic cargo identification in the field of transportation and warehousing. On the basis of systemic and synergetic approaches, the trends in the development of automatic identification and its place in the efficiency of transport systems were determined.

Wherever there is a need to monitor the movement of vehicles, control their access to the site or assess the efficiency of vehicles, the problem of human impact is acute, which becomes one of the main problems in the automation process, leading to errors, delays and failures. The warehouse must receive the goods, effectively keep records and ship it [1].

Improper sorting of cargo can lead to incorrect accounting of cargoes and their shipments, which will lead to conflicts with customers, increase delivery costs and overhead costs. If at least one mistake is made, it will inevitably lead to others. Studies show that experienced manual data operators make one mistake every 300 characters. Thus, even by simply avoiding the manual entry of rolling stock and cargo data, we can significantly increase the efficiency of our transportation system. Automatic determination of the main parameters of the product is the basis of all warehouse automation systems.

The main advantages of automatic identification of rolling stock and cargo during their processing in warehouses or terminals are:

- accurate and fast entry of data on rolling stock and cargo;
- quick search of any information about the given rolling stock and cargo;
- ease of forming a cargo lot;
- ease of inventory;
- obtaining information about the delivery process in real time.

The development of automatic identification systems is aimed at creating standardized integrated systems, which include both identification elements transported with cargo (machine

readable labels, tags, etc.) and equipment for their processing and data transmission to control information systems [2]. With the development of computerized systems for automatic identification of equipment began to be mass-produced by a number of companies, which made it accessible to the ordinary transport business. Currently, its use is not a difficult technical and financial problem for the end user.

### **Conclusion**

Automation is becoming more common, affordable and economical. Due to its high efficiency, automatic identification is gradually displacing manual input methods from the field of transport accounting and cargo handling. So, given all the benefits, it is safe to say that automatic cargo identification is the technology of the future that is already integrated into the present.

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