

THE CONCEPT OF THE FUNCTIONAL MANAGEMENT OF THE INTERMODAL CONTAINER TRANSPORTATION SYSTEM

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The development of intermodal container transportation occurs simultaneously with the change in the role of logistics infrastructure facilities, international transport corridors, the network of oceanic sea routes, which together represent the basis of the logistics network and ensure the provision of high-quality transport and logistics services.

The effectiveness of the system of intermodal container transportation is achieved, first of all, due to the interaction of information systems of various types of transport to ensure the maximum possible direct or accelerated transfer of containers from one type of transport to another. The most important thing for guaranteeing stability and manageability in the system of intermodal transportation is the issue of accompanying the material flow (a batch of containers) with information, first of all, regarding the coordination of work and coordination of the transport complex.

In order to make optimal management decisions, it is necessary to have access to information at all stages of the promotion of the container flow in order to promptly respond to changes in conditions, business conditions, tariffs, etc. [1].

A large number of scientific works are devoted to the issue of development of management decision support systems during the implementation of certain technological processes or the operation of ports, railway stations, terminals, in general. The modeling complex proposed by the authors [2] combines a simulation and graphic model with the application of the technology of energetic modeling of railway stations based on operative work planning.

In practice, during the development of information systems to support management decision-making, Workflow applications, which are software applications that to some extent automate individual steps of the process or the logistics process in a separate link of the chain, have become widely distributed [3].

Taking into account the above, modern and demanded, first of all, by the operators of the logistics services market, the management functionality of the intermodal container transportation system should comprehensively take into account the complexity and diversity of the formalization of the technological processes of the functioning of individual modules in the logistics system of container delivery, as well as provide for the possibility of direct participation of the operator in the modeling process with performing dispatcher functions. The goal of the development of the functionality is to minimize costs for the delivery of goods in containers and increase the efficiency of the system due to the cooperation of its participants.

The use of the functionality will allow to automate resource management, provide dispatching and monitoring of flows along the entire logistics chain. This, in turn, will lead to the reduction of non-productive operations, will ensure the acceleration of cargo processing, accounting, pricing, reporting of operations and management analysis.

References

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