

Integrated Global Solution for Container Tracking

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Abstract—Research objective is to create web portal – *Integrated Information System* (includes EDI from carriers, multimodal operators, truckers, ports etc), which provides complex information about position of containerized cargo within global logistics chain. We intend to create sailing matrix, based on information about services (sailings, departures, arrivals) of various logistics providers. Project data about logistics providers are gathered from references and customer experience. In the later stage of project, we will rely mostly on data stored in our system. Customers have possibility to choose any of provided logistic services and their combinations based on customers' needs (transit time, price, reliability etc.). Any party of logistic chain started from logistically unrelated company through forwarder, carrier, multimodal operator, final customer (= a import company) is meant as customer. This definition of our customer takes into account that any party of logistical chain can act as customer on one side and consumer on the other. Historical data are added to sailing matrix in order to compare each service in sailing matrix (theoretical model) vs. hard data received from historical shipments. The aim is to describe patterns in behaviour of customers among logistic chains. Customers can track their shipment online 24/7 and compare it to historical data so they can make more exact prediction of ETA at next checkpoint. Customer can monitor various delays from previous shipments (caused by force majeure, unreliability of some providers of logistics services, insufficient terminal and train capacities, other unexpected circumstances etc.). As methodologies, data collection, analysis of services on the market with logistics services will be used. As research restrictions, insufficient data (esp. exact rates) received from logistics providers can be named. Also the project cannot cover each service which exists on the market. Regular updates of sailing matrix are necessary due to frequent changes on the market. The research can contribute to the literature by sailing matrix applicable for customers with various needs in both theoretical and business area.

Key words—Container Transport, Global Logistics Solution, Sailing Matrix and Tracking.

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