TMS
FALCON

Intelligent Transportation

TMS FALCON (TMS – Transportation Management System) belongs to a group of management systems responsible for collection of orders and optimization of transport costs. Transport costs can be estimated at the very early stage of planning transport orders thanks to an extensive pricing mechanism that comprises various cost elements (distance, number of pallets, weight, fuel allowance, location of shipment). Implementation of this system enables the user to choose less expensive transport option and offers possibility to negotiate the price.

Significant Features:

- Optimization of deliveries: consolidation of orders, planning orders and deliveries, management of drivers, vehicle fleet and carriers, monitoring en route events
- Execution of unusual freight orders; the system enables the user to define qualities for various businesses according to their individual needs
- Identification of inefficient transport at the stage planning
- Service contracts for transport tasks and transport fleet
- Accounting for the cost of transportation:
    - the ability to assign prices for transport per kilometer, freight, pallets for the quantity or weight of goods
    - the ability the conversion of transport costs by currency exchange rates
    - the possibility of accounting for fixed routes
    - the possibility of settling inter-modal routes (for each of the stages of intermodal route created a separate order of transport)
    - the ability to split the cost of transport in several companies/Customers/products
- The possibility of defined pricing for transportation services and settlement of transportation services
- Managing your own transport costs and strangers, and to compare the costs from the planning stage to the actual costs
- Contract management on the route permanently
- Communication with suppliers of transport through the gate SMS, applications, and web-based e-mail notifications
- Communication systems logistics operators - Schenker, Raben, GLS, DHL, UPS, DPD, etc.
- Distribution of transportation costs to the appropriate cost center, account cost
- Invoicing module and generator invoices. Multicurrency
- Media economy (pallets, packaging, etc.)
- Creating reserves and transportation
- Powerful reporting module the cost of transport according to criteria eg. recipient, commodity, supplier transport point of origin
- Delivery tracking:
    - in the case of interface mechanisms through couriers track & trace
    - in case of transport of personal or external - SMS sent by the driver or application Android
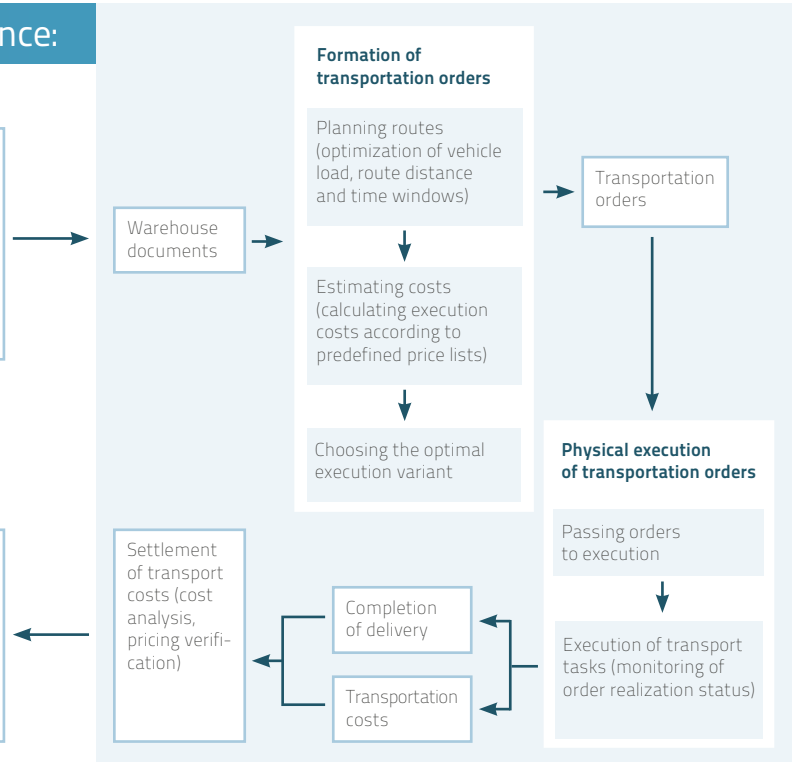- Verification of compliance routes planned with actual

OPTIDATA

Model description of system performance:

- The starting point for planning routes is defining warehouse documents and also defining parameters for the route planning algorithm and then choosing the option "Planning routes".

- The algorithm gives results as a collection of transport orders with visible estimated execution costs, route distance, degree of vehicle load and collective information such as total weight, number of pallets, number of stops en route or amount of warehouse documents to the order.

- Following approval of transportation orders, the system enables sending inquiries to defined carries via e-mail about their will to execute orders or sending the final order to execute transportation tasks.

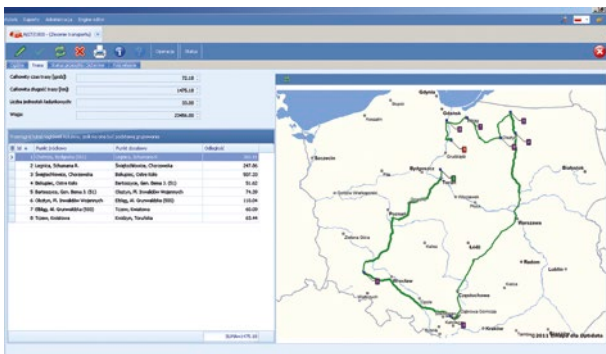Optional external source of data (ERP system, WWW interface, orders sent in by customers who use EDI)

Warehouse documents

Formation of transportation orders

Planning routes (optimization of vehicle load, route distance and time windows)

Estimating costs (calculating execution costs according to predefined price lists)

Choosing the optimal execution variant

Transportation orders

Physical execution of transportation orders

Passing orders to execution

Execution of transport tasks (monitoring of order realization status)

ERP systems, accounting systems, contractors (reporting on execution of orders, settlements)

Settlement of transport costs (cost analysis, pricing verification)

Completion of delivery

Transportation costs

User interface:

Print screen – transportation order

- view of collective data (vehicle load, route distance etc.)
- list of recipients on a particular route
- tracking route on a map

Print screen – list of transportation orders for a particular period of time

- route distance and costs
- degree of vehicle load
- degree of order execution

Advantages:

- minimization of delivery costs
- maximal use of loading space
- enhanced customer service quality
- selection of the best carrier
- reduction of transport planning costs – reduction of staff
- optimization of route distances
- tracking and identification of shipment
- integration with logistics systems
- settlement of invoices related to Transport Order
- management of own fleet
- scheduling of own transport
- planning working time for drivers
- integration with systems that supervise the fleet
- lower „social costs" – reducing the number of lorries, emission of exhaust fumes and accidents

Target recipients:

TMS Falcon is a tool created for all enterprises that deal with vehicle transportation in any way:

- logistics organizations
- transportation organizations
- distribution and trading organizations
- organizations that have their own or rented fleet