MixMoveMatch (M3)

KeyWords:
Freight consolidation and transhipment; IT-technologies and solutions; ICT, transport optimisation; Business to business (B2B) solutions, cooperation; Competitive aspects: collaboration, prioritisation; Innovative operational solutions; Transport management, fleet management; Monitoring and benchmarking of processes

Description:
The MixMoveMatch concept intends to improve its delivery strategy and to improve the efficiency of transport through enhanced cargo bundling. According to the MixMoveMatch logistical concept, production sites ship their products to the next warehouse or distribution centre where the loads of different transport orders are mixed (Mix) and loaded onto trucks for long-distance transport (Move). Then, in a warehouse or distribution centre in the area of destination they are unloaded, sorted and palletised for final delivery to the customers (Match).

Benefits:
The increased transparency along the supply chain could allow for a fair redistribution of cost savings and benefits among the partners, which is decisive for the partners’ willingness to collaborate.
Fewer vehicle trips mean reduced traffic noise.
There are essentially no investments beyond having ICT solutions that can feed the MixMoveMatch service with information.

Starting Point/Objectives/Motivation:
What was the main problem, idea or motivation that led to the development and introduction of the new practice?
As there used to be a large diversity of shapes of the picked pallets destined for a single customer (varying orders, different products), in many cases, these customer friendly pallets could not be stacked in the loading space of the trucks. For this reason, the capacity usage of the trucks used for long-distance customer delivery was poor. The load factor was reported to be in the range of only 14-35%.

What was the common practice before the implementation?
Before the implementation of MixMoveMatch, customer deliveries of a big shipper originated in production sites or distribution centres. There used to be picking by order and a direct delivery of the palletised loads to the customers.

What was the purpose and the sustainability objective of the case?
Using MixMoveMatch high benefits can be achieved in case of a large variety of products that are to be shipped, a heterogeneous structure of shipments (customer orders containing various articles in varying numbers) and customers that are spread over Europe.

Solution:
MixMoveMatch provides a distribution management and order reconstruction service.
With this IT service, shippers create integrated distribution and order delivery plans on the cloud. Shippers electronically provide MixMoveMatch.com with information on shipments and customers (consignees). The software then mixes up the loads of different transport orders and identifies an ideal arrangement of boxes from the bottom to the top of the loading space in order to exhaust vehicle capacity.

Involved actors are the shippers, the logistic service provider and MARLO as MixMoveMatch provider. MixMoveMatch.com has been implemented, and the real operation which started at DHL's hub in Brussels is reported to have commenced without any problems. Basically, the software service can be used everywhere where is access to internet.

MixMoveMatch.com is provided online as SaaS (Software as a Service). It is running on remote servers hosted by the Internet. Key components include:

- Order reception and reconstruction
- Production of key performance indicators (KPI) for operations
- Supply chain integration
- Applications for mobile devices such as PDA’s
- Conveyor belt interfaces
- Print agent for label and page printing

Each box is provided by the relevant shipper with a standardised barcode (GS1 SSCC = Serial Shipping Container Code).

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List the relevant transport modes or supply chain elements
- initially long distance road transport
- Packing, Loading, Transport, Transfer points

There are plans for a further rollout of MixMoveMatch.com provided by MARLO regarding to these logistics service providers:
- DHL - Brucargo, Värnamo, Den Haag, Duisburg, Ostrava, Vienna, Ostrava
- Kleine
- CEVA
- Gebrüder Weiss – Hall in Tirol
- Siedler
- 3M – Rivas, Paris SOA

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