

Claims

1. System (100) for determining the transport routes and/or the position of goods, comprising:
 - at least one load carrier unit (10) for transporting and/or storing goods, wherein the at least one load carrier unit comprises data storage means configured to store at least identification data comprising at least information with respect to the type of goods and the amount of the goods transported by and/or stored on the load carrier unit;
 - at least one data collection point (20), wherein the at least one load carrier unit and the at least one data collection point comprise communication means configured to provide a data exchange between the at least one load carrier unit and the at least one data collection point and exchanging at least the identification data;
 - at least one route and/or position evaluation means (30) configured to determine the route and/or the position of the at least one load carrier unit based on the data exchange between the at least one data collection point and the at least one load carrier unit;
 - at least one triggering means (30) configured to trigger a predetermined operation on at least one computer unit (40) depending on the determined route and/or position of the at least one load carrier unit.
2. System (100) according to claim 1, wherein the system (100) comprises a plurality of automatic or manually triggered data collection points (20) each having a certain communication range, wherein the route and/or the position of the at least one load carrier unit (10) is determined by the data exchange with a respective data collection point (20).
3. System (100) according to claim 1 or claim 2, wherein the route and/or the position of the at least one load carrier unit (10) is determined by a triangulation method, in case a data exchange can be established with more than two data collection points (20).
4. System (100) according to any one of the preceding claims, wherein the route and/or the position of the at least one load carrier unit (10) is determined by means of a signal strength analysis or by using a positioning determination algorithm based on signals in a Low-Power Wide-Area Network (LPWAN).
5. System (100) according to any one of the preceding claims, wherein at least one load carrier unit further comprises a position determining unit, preferably a Global Positioning System (GPS), providing positioning data with respect to a position of the at least one load carrier unit (10) and wherein the positioning data are used by the at least one route and/or position evaluation means (30) for determining the route and/or the position of the at least one load carrier unit (10).
6. System (100) according to any one of the preceding claims, wherein the operation triggered on the at least one computer unit (40) is generating at least one of the following data:
 - goods receipt data or goods issue data;
 - inventory data;
 - order data;
 - master data

- identification data;
 - credit risk management data;
 - insurance data;
 - invoicing data;
 - banking data;
 - financing data;
 - factoring data;
 - tokenization data;
 - payment data;
 - clearing data;
 - tax data;
 - customs data;
 - accounting/ general ledger data;
 - official (trade) statistics data; and/or
 - quality data.
7. System (100) according to any one of the preceding claims, wherein the operation triggered on the at least one computer unit (40) is issuing at least one of the following messages:
- goods receipt message, goods outgoing message or goods issue message;
 - inventory message;
 - order message;
 - product master data message;
 - identification message;
 - credit risk management message;
 - insurance message;
 - invoicing message;
 - banking message;
 - financing message;
 - factoring message;
 - tokenization message;
 - payment message;
 - release message;
 - clearing message;
 - tax message;
 - customs message;
 - accounting/ general ledger message;
 - official (trade) statistics message; and/or
 - quality message
8. System (100) according to claim 7, wherein the system (100) further comprises display and/or printing means outputting the generated data and/or message.

9. System (100) according to any one of the preceding claims, wherein the load carrier unit (10) is a pallet unit, an intermediate bulk container (IBC), a tank unit, a silo unit, an overseas container, a railway car or a tank vessel.
10. System (100) according to any one of the preceding claims, wherein the system (100) further comprises data collection means configured to collect analysis data with respect to the identification data of the at least one load carrier unit (10), the determined route and/or positions of the at least one load carrier unit and/or the triggered predetermined operations.
11. Method for determining the transport routes and/or the position of goods, comprising the steps:
 - providing a system (100) for determining the transport routes and/or the position of goods according to any one of claims 1 to 10;
 - determining (S10) at least one route and/or position of at least one load carrier unit (10) by position evaluation means (30) based on a data exchange between at least one data collection point (20) and at least one load carrier unit (10);
 - triggering (S20) by at least one triggering means (30) a predetermined operation on at least one computer unit (40) depending on the determined route and/or position of the at least one load carrier unit (10).
12. Use of at least one load carrier unit (10) for transporting and/or storing goods, wherein the at least one load carrier unit (10) comprises data storage means configured to store at least identification data comprising at least information with respect to the type of goods and the amount of the goods transported by and/or stored on the load carrier unit (10) in a system (100) according to any one of claims 1 to 10.
13. Use of at least one data collection point (20) configured to provide a data exchange between at least one load carrier unit (10) in a system according to any one of claims 1 to 10.
14. Use of analysis data as input data for an analysis algorithm for estimating and/or predicting the stock quantities and/or transport times and/or required replenishment and/or for a simulation and/or optimization of a system (100) in a system (100) according to any one of claims 1 to 10.
15. A computer program element which when executed by a processor is configured to carry out the method of claim according to claim 11.