ALI₄ESC

Adaptative Logistics Infrastructure For Extended Supply Chain

ABSTRACT

WHAT'S ALI₄ESC
It's an Adaptive Logistic Infrastructure For Extended Supply Chains.
It does all the functions the ERP system or ALI4ESC requires.

WHO NEEDS ALI₄ESC
His business market target are the PMI (Medium-Small Enterprises), into their extended supply chain.

WHAT ALI₄ESC DOES
It identifies and tracks any product, from the pallet to the single **piece**. It defines which activity has to be done and in the same time it test the results. It arriches the registration number with multimedia files and identification system like Barcode or RFId label**, dashboards** and data analysis by the Business Intelligence. Anti-tampering and brand protection.

APPLICATION PLATFORM
Web based and multifirm; pushed interaction with the user; Query & Reporting; Dashboards; Connector with ERP system; KPI (Key Performance Indicator); Alerting procedures by e-mail.

What's ALI₄ESC

The ALI4ESC platform has the purpose to comply the operatives logistic that a small-medium firm needs into its extended supply chain.

The platform wants to give a global solution to all the different situations, giving an high quality jump to the flexibility and managing attention of their supply chains. All this is due to two important peculiarity:

1- Continuos track&trace of all goods that run along the extended chain. This is possible matriculating all, from the pallet to the single piece, managing all the movement functions into and outto the warehouse.

2- IT adaptability pushed to the limit let us to realize a technical solution able to adapting easily, at low costs, to all the possible operative situations, without need great modifications.

The value proposition is:

1. **Process Innovation**, with the RFId labels applied to the goods, with readers and antennas located in the checking bound able to check the movement, the identify and the position into the warehouse.

2. **Product innovation**, with an adaptive technology infrastructure, web-based and integrated with all the mobile smartphones, ALI4ESC is able to satisfy all the Extended Supply Chain's needs.

Below are some scenarios of process that ALI4ESC improve the performances:

- **Identification**: You have not to count piece by piece the incoming goods. With a RFId reader or a RFId gate you have to turn on the far-reading function and checking immediately the list of the consignment.

- **Stocking**: You don't need to choose where to put the goods, because with the antennas located in the warehouse is possible to check every single movement of the selected good.

- **Picking**: at this process phase you do not need to pick and confirm every single items, so the human error is reduced to zero.

- **Inventory**: it is not necessary the manual counting. The system automatically knows which items is in the warehouse and his stock.

- **Shipment**: Once picked the items to ship, ALI4ESC is able to, for example, set up the delivery note in real time, recognizing the RFId product into the closed packaging.

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Who needs ALI₄ESC

The target market are the small-medium business firms, because, usually, the multinational companies are strong enough to create their intern own solutions.

The typical operative logistic situation in our target market are characterized by:

- The identify standard, in the best situations, is usually barcode, with a manual operation.

- The process is managed by a software that take the operators in the place where the good should be, in a certain quantity, but without any error-checking .

- The unregistered picking and the untracking of a good could be a problem, especially if the good picked is due to an expiration date.

- This problems get bigger if the supply chain is extended. This is the situation where the suppliers has his own software manager and all the checks has to be made hand by hand.

The scenario is completed by the lack of finances , technologies and experienced workers, into a reality un-inclined to innovations.

The targets and the advantages due to the use of ALI4ESC platform are:

- Increasing the production and logistic flows, using the RFId's characteristics. Reducing to zero the errors.

- Due to the point before, the productions and logistics costs are reduced.

- Instant identification.

- Real time warehouse inventory, location and stock.

- Anti-tampering, brand protection and certification for the final client.

An example: the client could go into the warehouse to pick what he needs: when he leaves the warehouse ALI4ESC can read the picking and immediately prepare the delivery documents.

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What ALI₄ESC does

ALI4ESC does jobs. This jobs are asked by the ERP system (un-direct functions) or by his own ALI4ESC (direct functions). So it's a manager-logistic stand-alone system able to create an own database created by Data Entry forms and with an own statistics system used then to build the KPI.

Here are explained the most important functions and characteristics of the ALI4ESC:

- Multi-firm management: Is possible to transfer automatically the movements between all the activated firms. Example: a good (with his own registration number) leave the first firm to go into the second, this movement could be completely automated.

- Registry management: the registry could be linked to the management system or managed in stand-alone.

- Registration number extension: with ALI4ESC is possible to extend a registration number with multimedia files, certification or other things like extra fields.

- Is possible to manage 5 units for each article.

- For each registration number is possible to define an activity list to actions to do on it. The system, with his final balance module could measure the results.

- The management system of the connectors between ERP and ALI4ESC has a checking system with alert for errors and anomalies.

- An alert email system manage a clear dashboard of the applications functions.

- The identification and tracking level could be defined, from the pallet to the good.

- Management of all the internal and external movements functions related to the tracked good.

- Parametric definition of the registry of registration number.

- Parametric choosing of the registration support, from the barcode to the RFId Tag.

- Consulting and data analysis with the business intelligence (Query & Reporting, Dashboards and KPI).

UN PRODOTTO FALSO DANNEGGIA LE IMPRESE.

CAMPAGNA PER LA LOTTA ALLA CONTRAFFAZIONE

E' PER QUESTO CHE CON LA CONTRAFFAZIONE PERDE TUTTA L'ITALIA

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Application Platform

ALI4ESC is Web based. We think it in this way because it can dialogue free and fast with all the users type, into the firm intranet than in internet. This means that you can launch the same functions of ALI4ESC from the office than a park, you need only your note-book. ALI4ESC is called by a browser (Safari, Firefox, Chrome, Explorer, etc.) and with it can go around into the ALI4ESC menu or functions.

ALI4ESC is Multifirm and the next version (released in 2013) will be multi-language. Every user is profiled with authorizations directly from the system administrator, that validate only the func-tions that the specified user is authorized to.

ALI4ESC has pushed interaction with the user:

- Data Entry Forms

- Grids to visualize the searches results

- Query & Reporting download-able in PDF, Excel, HTML, RTF, etc…

- Dash-boards with in-teractive and future looking graphs.

- KPI (Key Performance Indicator) to measure the system perform-ance.

All of this things make ALI4ESC like a Business Intelligent System for data analysis than an Adaptive Logistic Sys-tem.

Every report or dashboard could be redirect by e-mail to a qualified man-agement user every fixed interval. By e-mail is possible to receive the system/ process alert too.

ALI4ESC could feed its databases or, with the connectors could be feed by ERP system.