

Milos • Global Supply Chain Visibility

Milos® Global Supply Chain Visibility is an advanced suite designed for shippers, freight forwarders and customs operators to enable **full visibility and control over the entire supply chain** and to **increase their overall efficiency** through a complete **cargo and e-document tracking and tracing**.

Furthermore, the integration with Milos® IoT Platform and its connectors allows to share logistic and security information as **digital data flow**, exploiting the potential of **automated procedures** across the international global door to door supply chain, supporting **Blockchain applications** and **smart devices** integration (Tag, e-seals, Container Monitoring Units).

Milos® Global Supply Chain Visibility is quoted within the **“Supply Chain Operational Visibility Vendor Guide” 2019 by Gartner Inc.** as a highly innovative and strategic modular solution for optimising freight transport, with a particular focus on **digitalised port logistics** and **real time information** from intelligent nodes among supply chain.

The suite aims at enabling global supply chain visibility through a complete cargo and e-document tracking and tracing with the following specific objectives:

- *immediate data access and simplification of procedures*
- *significant reduction of operational and security costs*
- *document validation and certification through the process of “notarization” (blockchain based)*
- *optimisation of intermodal solutions*
- *efficient management of the invoicing process and of the related integration with customers’ ERP systems.*



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Customs innovative procedures

Milos® exploits simplified and digitalised customs procedures- such as the Italian “Fast Corridor”- fully compliant with the European Customs Code, exchanging services between national Customs Agencies, port and logistic operators. The goals are the reduction of costs concerning import / export cycle and the decrease of the permanence time of goods in the ports berth and storage area, almost resetting the related costs.

Emerging technologies

The combined use of smart devices, IoT and innovative technologies such as Artificial Intelligence, Digital Twin and Smart Contracts has the purpose to create digital flows, leaving traces of all operations and events occurring within the logistic chain.

Booking flow and Track & Trace solution

Milos® dashboard allows the booking request to the transport company (Inland carrier) and, thanks to the Milos PLN (National Logistic Platform) connector, the request is directly sent to the PLN system. The carrier accepts the transport by sending a booking confirmation to the PLN and Milos® dashboard receives the Track and Trace flows of the booking.

Notarisation and Blockchain

The objective is to support the "validation and certification" of documents with a customs & security value, throughout the entire logistic process, with a complete management of documentary flows in ONCE approach for the subsequent phases of customs verification, using the notarisation and new technologies based on distributed registers.

ERP integration & KPI dashboard

The Global Supply Chain Visibility connectors allow Milos® to be integrated with customers' ERP systems- the management software that gathers all the companies' relevant business processes- offering the possibility to manage cost / invoicing process creating also a KPI dashboard.

International Fast & Secure Trade Lane

The International Fast and Secure Trade Lane approach allows the digitalisation of European and international documentary flows between the actors involved in the logistics process through a direct dialogue between countries, European and non-European Customs and Importer-Exporter. This is possible thanks to the implementation of IoT devices and the application of notarisation (Blockchain- Smart Contract).

BENEFIT

- *Complete vision of the entire supply chain thanks to the implementation of a Digital Platform and IoT devices integration*
- *Operative, customs and security costs reduction thanks to the digitalisation of documental flows*
- *Reduction of costs connected to transport process monitoring activities and information and data control*
- *Improvement of the logistic process in terms of service quality and security level*
- *Transit and dwell time reduction*

MAIN SUCCESS CASE

Ikea | Milos® Global Supply Chain Visibility suite dialogues with ports (Port Community Systems and TOS), Customs and other National Single Windows guaranteeing **real time information** about **status and positioning of goods** - integrated with **Customs and Port Security information** - and **certified data** arising from the use of IoT devices.

Direct cost reduction per teu: -30%;

Paper reduction: -100%;

Shipped container's volume increased over 80%

Specific needs of Freight Forwarders and Customs Operators: MasterSPED® evolved platform and Supply Chain Federative Services.

MAIN SUCCESS CASE

GDT Logistic | Milos® Global Supply Chain Visibility suite provides the **automation and optimisation of information and documentary flows**: thanks to the new “Bill Listener” application, Customs documents received from the various parties involved in the logistic process are digitalised and the main functions are centralised on a single dashboard with a significant time and error reduction in the documental flow management.

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*Circle Group's products and software solutions are compliant with the requirements of the European GDPR