



Intelligent Transport Systems - iCargo

The Commercial Benefits of iCargo

Simplifying Multi-Modal Transport by Breaking Down Barriers

Agenda



- Role Definitions.
- What Is iCargo & How Does It Work?
- How Does Each Role Participate?
- What Are The Benefits of iCargo?
 - -Quantitative.
 - -Qualitative.
- Flexible Business Models.
- Deployment Model.
- Conclusion.



- LSC Logistics Service Client (responsible for purchasing of logistics services).
- LSP Logistics Service Provider (responsible for providing of transport and logistics services).
- FSI Freight Service Integrator (responsible for providing of combined logistics services).
- ISI Information Service Integrator (responsible for providing of the information infrastructure).
- TNM Transportation Network Manager (3rd level party which provides traffic and infrastructure status information).



Making use of iCargo developments-Application of Intelligent Cargo in Efficient and Sustainable Global Logistics Operations

iCargo will design and implement a decentralized ICT infrastructure allowing real world objects, new planning services including CO2 calculation capabilities and existing systems to co-exist and efficiently cooperate at an affordable cost for logistics stakeholders.

The **iCargo** project aims at supporting new logistics services that:

- Synchronize vehicle movements and logistics operations across various modes and actors to lower CO2 emissions
- Adapt to changing conditions through dynamic planning methods involving intelligent cargo, vehicle and infrastructure systems and
- Combine services, resources and information from different
 stakeholders, taking part in an open freight management ecosystem.





www.i-cargo.eu



- A network where LSPs / FSIs can publish their services and schedules and FSIs/LSCs can discover them.
- Easily compare options, including price, transit time, and carbon footprint reduction.
 - Leverage either list pricing or contract pricing.
- Book a shipment across all modes / legs of transport required to get from origin to destination.
- Track shipment from end-to-end, with automated rebooking if required.
 - Including updates from LSPs, FSIs, and TNMs.
- Simplification of invoicing, auditing, and payment.
- Enables alerts, reports, and analytics.

Booking Processes



	Login
Powered by	
Search Matching	Transport
Origin	BORLÄNGE
Destination	ZEEBRUGGE
Total Payload(T)	50 ton Tare Weight(T) 0 ton
Equipment Types	Container 20DV 🖉 Container 40HC 🖉 Semi Trailer
Product	Please Select 💌 🔲 Hazardous Material
Departure Date	16-05-2013
Required Delivery Date	22-05-2013
Sort By	Least CO2 💌 Search Reset

Returned 6 matches.

Route	Origin	Destination	Departure	Arrival	CO2/5a	aving*	Cost	Dist.	Equ	iip.	Product	Duration	Action
1	BORLÄNGE	ZEEBRUGGE	Thu 16 May 2013 12:08	Wed 22 May 2013 12:00	1,127K	g/250%	2,500 Euro	1,271 Km	Container [5]	r 20DV	Any	5d 23h 52m	Legs Book
Id	Origin	Destination	Departure	Arrival	Mode	CO2/5	aving	Cost	Dist.	Max Pl.		Carrier	
1191	BORLÄNGE	GOTEBORG	Thu 16 May 12:08	Thu 16 May 21:01	Rail	404Kg/	182%	2,500 Euro	367 Km	12t	Booking	System - Gree	1 Cargo
1072	GOTEBORG	ZEEBRUGGE	Mon 20 May 23:55	Wed 22 May 12:00	Sea	723Kg/	287%	0 Euro	904 Km	20t	Booking	System - Cobe	lfret
2	BORLÄNGE	ZEEBRUGGE	Thu 16 May 2013 12:08	Mon 20 May 2013 06:00	1,127K	g/250%	2,500 Euro	1,271 Km	Container [5]	r 20DV	Алу	3d 17h 52m	Legs Book
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4	BORLÄNGE	ZEEBRUGGE	Fri 17 May 2013 12:08	Wed 22 May 2013 12:00	1,127K	g/250%	2,500 Euro	1,271 Km	Container [5]	r 20DV	Алу	4d 23h 52m	Legs Book
5	BORLÄNGE	ZEEBRUGGE	Fri 17 May 2013 20:30	Wed 22 May 2013 12:00	1,127K	g/250%	2,500 Euro	1,271 Km	Container [5]	r 20DV	Any	4d 15h 30m	Legs Book
6	BORLÄNGE	ZEEBRUGGE	Sat 18 May 2013 12:08	Wed 22 May 2013 12:00	1,127K	g/250%	2,500 Euro	1,271 Km	Container [5]	r 20DV	Any	3d 23h 52m	Legs Book
				© Соруг	ight Inte	liTrans	2013						

- LSPs and FSIs publish schedules:
 - Transit times.

- Pricing.

- Automated carbon footprint calculator.
- Ease of comparison for LSCs and FSIs.

Simplification of Booking - Continued



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			/	Postcode:	40317		Postcode:	8380		
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azardous:				Contact Name:	Mr A Hood		Contact Name:	Mr J Baert		
DD Text: hipper Instr. 1:	_			Contact Phone:	+46 31 467 0830		Contact Phone:	one: +32 47 769 7807		
				Contact Email:	anthony.hood@int	ellitrans.co.uk	Contact Email:	jbaert@ontrackpaper.co	m	
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1 1800001					i 22 Mar 2013	Booking System - Cobe	fret COBEL	3.180 British	868Kg/288	

 LSC / FSI can book with multiple carriers used in the routing at one time.

 LSPs and FSIs receive bookings and transmit confirmations easily.

Simplification of Tracking



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- Transparency throughout the distribution chain.
- LSPs and TNMs provide status updates on shipments.
- Visibility for LSCs.

View

- Cargo known through booking process.
- Identification of onschedule and offschedule shipments.

Simplification of Tracking - Continued



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- Search by any parameter:
 - Shipment.
 - Status.
 - Calculated values.
- Configurable by customer.
- Look-ups for valid parameter values.
- Current leg and prior legs.
- Templates for repetitive use.

Simplification of Payment - Pricing

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- "List" price publication.
- "Contract" price availability.
- Flexible rate types.
- All-in or by carrier / leg rates.
- Effective periods.
- Multiple bunker / fuel surcharges.
- Transparency is key.

<u>Copy</u> | <u>View</u>

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Simplification of Payment - Auditing



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- Electronic invoice receipt from carriers, or self-invoicing.
- Manual entry of invoices.
- Matching logic shipments to invoices.
- Tolerance management.
- Resolution update.
- Trigger actual payment.

Quantitative Benefits of iCargo



- Lower transportation cost per tonne kilometer.
 - Lower cost modes are often avoided due to process complexity and longer and more variable transit times.
 - iCargo addresses these concerns:
 - One-step booking simplifies execution.
 - Tracking and pro-active alerting eliminates "black holes".
 - Support services mitigate transport variability.
 - Analytics allow for realistic calculation of impact of variability.
 - Typically results in lower total line-haul costs.
- Lower bunker (fuel) surcharges.
 - Ability to use modes that consume less fuel per tonne-kilometer.
- Lower carbon emissions:
 - Easily identify potential savings up-front.
 - Calculate actual emissions after completion.

Quantitative Benefits of iCargo



- Increased revenue for LSPs / TNMs.
 - Awarded business that otherwise would have gone to road.
 - Greater use of multi-modal within many industry segments.
- Improved payment cycles.
 - Integrated invoicing, auditing, and payment allows for more consistent payment processing.
- Increased capacity utilization.
 - Automated re-booking solution upon schedule changes enables LSPs to sell open capacity created.
 - Reduces "empty" hauls containers & power.
- Reduced technology costs.
 - iCargo ecosystem makes it much easier to collaborate with numerous trading partners.
 - "Virtual FSIs" will become more prevalent, allowing LSCs to enjoy the cost reduction enabled through SaaS solutions & ecosystem development.

Qualitative Benefits of iCargo



- Process automation and simplification.
 - Reduce workload for booking shipments.
 - This is true for all parties LSCs, LSPs, FSIs.
- Improved pro-active customer service.
 - Provide transparency throughout the supply chain, including to the LSC's customers.
 - Either direct access to iCargo solution, or provided with alerts & notifications.
- Improved responsiveness to demand and transport changes.
 - Ability to know about changes across the distribution chain allows for redeployment of inventory more efficiently.
 - Calculate required inventory based on actual data, not heuristics or tribal knowledge.
 - Divert product to meet customer promises more easily.
- Ability to utilize more LSPs / FSIs, if desired.
 - Increased ability to manage capacity when transportation supply is tight.

Qualitative Benefits of iCargo



- Improved data quality and completeness.
 - Because of the need for greater visibility and predictability, you end up with much more complete data.
 - Due to shorter, more consistent transit times, over-the-road shipments often have much lower POD completeness.
 - Improves overall analytics, including carrier scorecards and customer service dashboards.
- Improved ability to manage exceptions.
 - Ease of obtaining status updates makes it much easier to find shipments off-plan and address that with the carriers.
- Improved documentation management.
 - Ability to retrieve required booking, customs, etc. documents.
- Flexible business models.
 - Open network share standard pricing and schedules to be discoverable by all.
 - Closed network collaborate with only your contracted trading partners, but leverage the other advantages that iCargo brings.

Flexible Business Models



- Open platform for many users (Platform ownership and investors)
 - Publicize the platform existence for transport lanes destinations
 - LSP selection as a member/ partner of the platform
 - LSP request to join 'open partnerships'
 - What services will or should the platform provide invoicing, through booking?
- Published rate options
 - General usage
 - For specific or individual LSC negotiated rates with a supplier
- Closed platform used by partnership created by LSP -platform owned by LSP's
 - One to one LSP relationships
 - One to many LSP relationships
- Closed platform with partnership creation for LSC- platform owned by LSC
 - Contractual relationships and agreements
- Functionality of the platform
 - Information only
 - Booking from source to destination with a number of carriers
 - Used to book freight movements LSPs to confirm LSCs bookings requirements
 - Single freight invoice for a LSC

Rapid Deployment Model



- Decentralized infrastructure, cloud-based.
- Access Points are used to publish and subscribe.
- Open system with ease of connectivity to other systems.
- Co-exist with LSP / FSI / LSC existing systems.
- Solutions available to leverage iCargo ecosystem today.
- Ability to use older integration methods and manual updates.

Conclusion



- The iCargo ecosystem and associated solutions can deliver significant benefits to all members of the logistics chain:
 - Reduced transportation cost line haul & fuel.
 - Reduced carbon footprint.
 - Increased revenue & capacity utilization.
 - Increased transparency & improved pro-active customer service.
 - Automated business processes & reduced labor.
 - Reduced technology costs.
- Realization of 5-10% in cost savings through efficiency, not price.
- The iCargo ecosystem is flexible and open, allowing for participation at lower costs.
- Solutions exist in the ecosystem that provide integrated, endto-end booking, visibility, and payment solutions.





Intelligent Transport Systems - iCargo

The Commercial Benefits of iCargo

Simplifying Multi-Modal Transport by Breaking Down Barriers