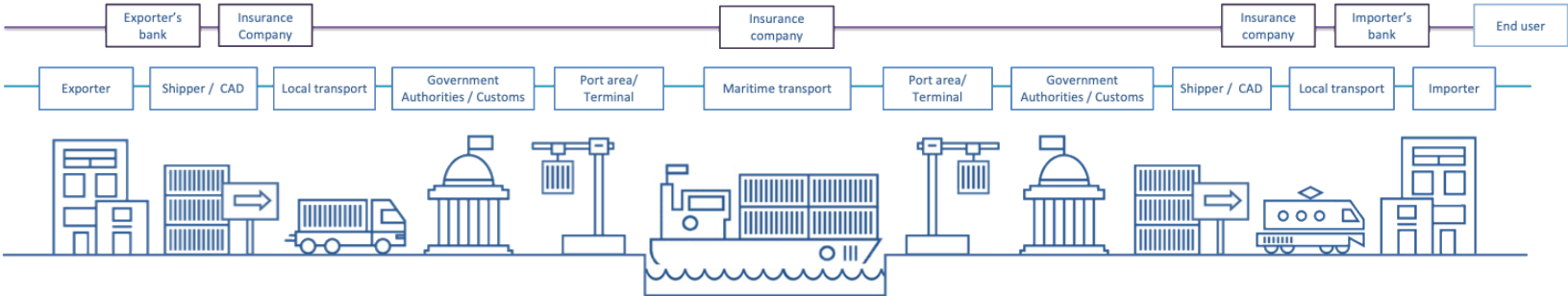


e-CMR: come funziona

Relatore: Michele Checchin
CEO CHEMEX

GESTIRE LA COMPLESSITÀ DOCUMENTALE LUNGO LE FILIERE



Packing list



Carriage contracts



Shipping instructions



KYC | AML restrictions



Shipping documents (DDT | CMR | ADR)



Sales invoices



Export documentation



Certificates, licenses, permits



Ministerial authorizations



Certificate of origin



Free export declaration



Accompanying documents / excise duties



Export customs clearance



Bill of lading



Import documentation

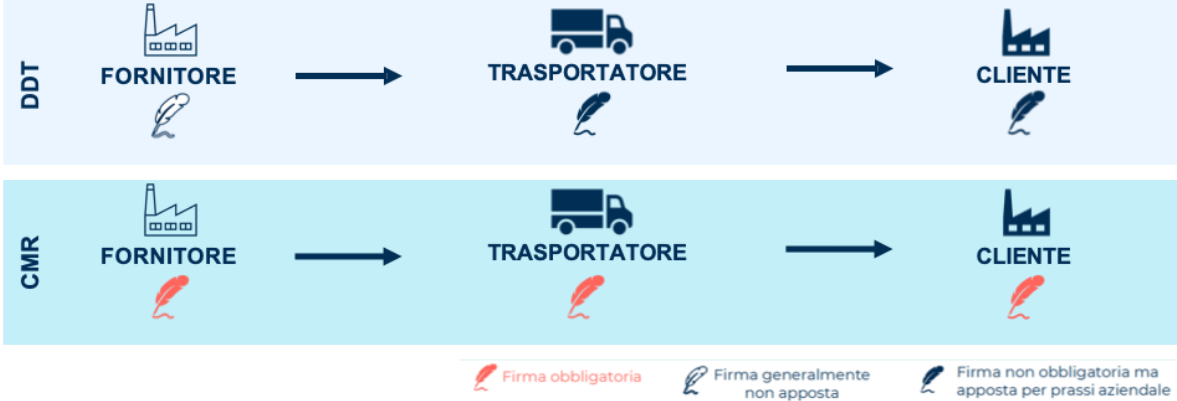


Import customs clearance



Payment confirmation or letter of credit

DOCUMENTI, OBBLIGHI DI FIRMA E VALENZA LEGALE



DOCUMENTI NORMATI	DDT	CMR	Bolla di accompagnamento
	Documento che accompagna la merce. Ha validità fiscale	Documento utilizzato per le spedizioni internazionali di merci su strada	<i>Sostituita dal DDT</i> Obbligatorio solo per prodotti soggetti ad accise, ad imposte di consumo o al regime di vigilanza fiscale

Fonte: Politecnico Milano, Osservatorio Digital B2B (workshop "La digitalizzazione della fase di consegna", 2024)

CMR, PRIMA



1 Envoi de l'expéditeur / Copy for sender		LETTRÉ DE VECTURE INTERNATIONALE (CMR) INTERNATIONAL CONSIGNMENT NOTE		Pays/Country No 24380	
2 Destinataire (nom, adresse, pays) / Consignee (name, address, country)		7 Transporteurs successifs / Successive carriers		8 Réserve et observations de transporteur lors de la prise en charge de la marchandise / Carrier's reservations and observations on taking over the goods	
3 Prise en charge de la marchandise / Taking over the goods		8 Réserve et observations de transporteur lors de la prise en charge de la marchandise / Carrier's reservations and observations on taking over the goods		9 Documents remis au transporteur par l'expéditeur / Documents handed to the carrier by the sender	
4 Date / Date		9 Documents remis au transporteur par l'expéditeur / Documents handed to the carrier by the sender		10 Masse et nombre / Weight and number	
5 Heures d'arrivée / Time of arrival		10 Masse et nombre / Weight and number		11 Nombre de colis / Number of packages	
6 Heures de départ / Time of departure		11 Nombre de colis / Number of packages		12 Mode d'emballage / Method of packing	
6 Heures de départ / Time of departure		12 Mode d'emballage / Method of packing		13 Nature de la marchandise / Nature of the goods	
6 Heures de départ / Time of departure		13 Nature de la marchandise / Nature of the goods		14 Poids net, kg / Gross weight in kg	
6 Heures de départ / Time of departure		14 Poids net, kg / Gross weight in kg		15 Colonne n° / Volume in m³	
6 Heures de départ / Time of departure		15 Colonne n° / Volume in m³		16 Numéro ONU / UN Number	
6 Heures de départ / Time of departure		16 Numéro ONU / UN Number		17 À régler par / To be paid by	
6 Heures de départ / Time of departure		17 À régler par / To be paid by		18 Frais de transport / Carriage charges	
6 Heures de départ / Time of departure		18 Frais de transport / Carriage charges		19 Remarque(s) / Remark(s)	
6 Heures de départ / Time of departure		19 Remarque(s) / Remark(s)		20 Ce transport est assujéti à toutes les clauses de la Convention relative au contrat de transport international de marchandises par route (CMR) / This transport is subject to all clauses of the Convention on the Contract for the International Carriage of Goods by Road (CMR)	
6 Heures de départ / Time of departure		20 Ce transport est assujéti à toutes les clauses de la Convention relative au contrat de transport international de marchandises par route (CMR) / This transport is subject to all clauses of the Convention on the Contract for the International Carriage of Goods by Road (CMR)		21 Date / Date	
6 Heures de départ / Time of departure		21 Date / Date		22 Lieu / Place	
6 Heures de départ / Time of departure		22 Lieu / Place		23 Signature et timbre du destinataire / Signature and stamp of the consignee	
6 Heures de départ / Time of departure		23 Signature et timbre du destinataire / Signature and stamp of the consignee		24 Marchandises reçues / Goods received	
6 Heures de départ / Time of departure		24 Marchandises reçues / Goods received		25 Signature et timbre du destinataire / Signature and stamp of the consignee	
6 Heures de départ / Time of departure		25 Signature et timbre du destinataire / Signature and stamp of the consignee		26 Signature et timbre du destinataire / Signature and stamp of the consignee	

La Lettera di Vettura è stampata in 4 copie di diversi colori:

Rosso: copia per il mittente

Blu: copia per il destinatario (questa copia accompagna le merci lungo l'intero trasporto)

Verde: copia per il vettore

Nero: copia riservata per le procedure amministrative

Box 22: Firma o timbro del mittente (scelta lasciata al mittente)

Box 23: Firma o timbro del vettore (scelta lasciata al vettore)

Box 24: Firma o timbro del destinatario
 firma o timbro del destinatario attestante la consegna delle merci, indicando il luogo, la data e in particolare citando l'ora di arrivo del veicolo al luogo di consegna e la successiva partenza a seguito dello scarico. Tali annotazioni sono utili nel caso in cui il veicolo rimanga fermo a causa del destinatario della merce, al fine di remunerare, se necessario, il vettore.

e-CM₁, ADESSO

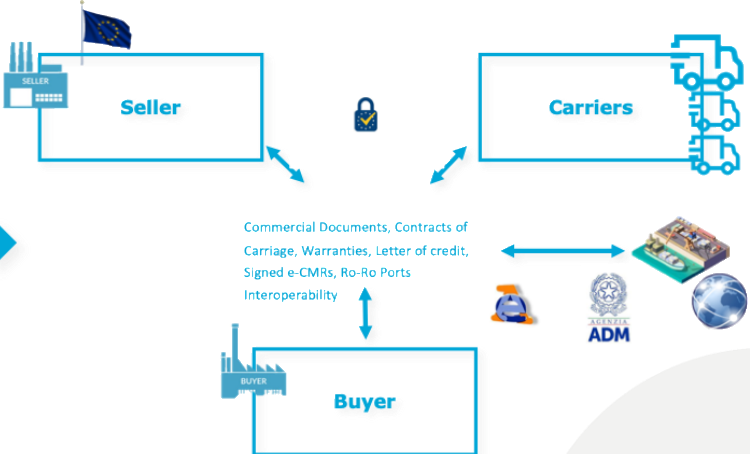
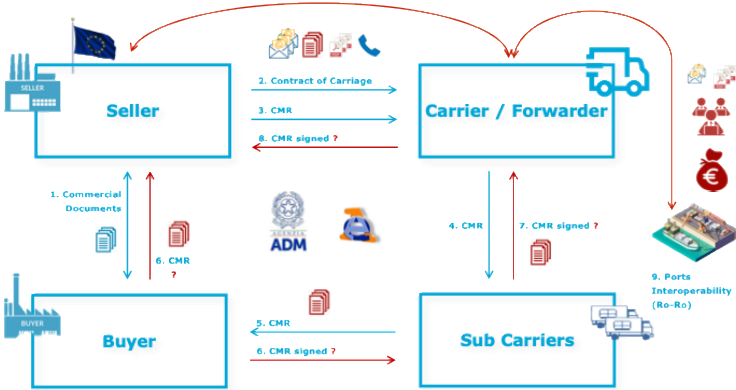


Business Name	RDM Definition	TDED	Cardinality Min	Cardinality Max	RDM Dictionary Entry Name	RDM Path
eCMR					BSP Master: Details	BSP Master
Document Context	The set of context parameters specified for a use of this master message assembly.		0	1	BSP Master: Exchanged Document_ Context	BSP Master/Exchanged Document_ Context
Transaction ID	The identifier of a specified transaction in this exchanged document context.		0	1	Exchanged Document_ Context: Specified Transaction Identifier	BSP Master/Exchanged Document_ Context/Specified Transaction Identifier
Business Process	A business process context parameter specified for this exchanged document context.		0	unbounded	Exchanged Document_ Context: Business Process_ Specified Document Context_ Parameter	BSP Master/Exchanged Document_ Context/Business Process_ Specified Document Context_ Parameter
ID	The unique identifier of this document context parameter.		1	1	Document Context_ Parameter Identification Identifier	BSP Master/Exchanged Document_ Context/Business Process_ Specified Document Context_ Parameter/Identification Identifier
Guideline	A guideline context parameter specified for this exchanged document context.		0	unbounded	Exchanged Document_ Context: Guideline_ Specified Document Context_ Parameter	BSP Master/Exchanged Document_ Context/Guideline_ Specified Document Context_ Parameter
ID	The unique identifier of this document context parameter.		1	1	Document Context_ Parameter Identification Identifier	BSP Master/Exchanged Document_ Context/Guideline_ Specified Document Context_ Parameter/Identification Identifier
eCMR Header Details	The header document information for a use of this master message assembly.		0	1	BSP Master: Exchanged_ Document	BSP Master/Exchanged_ Document
eCMR ID	The unique identifier of this exchanged document.	1004	0	1	Exchanged_ Document Identification Identifier	BSP Master/Exchanged_ Document/Identification Identifier
Type Code	The code specifying the type of exchanged document.	1001	0	1	Exchanged_ Document Type Code	BSP Master/Exchanged_ Document/Type Code
eCMR Issue Date Time	The date, time, date time or other date time value for the issuance of this exchanged document.	2007	0	1	Exchanged_ Document Issue Date Time	BSP Master/Exchanged_ Document/Issue Date Time
Contractual Remarks			0	unbounded	Exchanged Document Remarks Text	BSP Master/Exchanged_ Document/Remarks Text
Additional Particulars Note	A note included in this exchanged document.		0	unbounded	Exchanged_ Document Included Note	BSP Master/Exchanged_ Document/Included Note
Subject Text	The subject, expressed as text, of this note.		0	1	Note Subject Text	BSP Master/Exchanged_ Document/Included Note/Subject Text
Content Code	A code specifying the content of this note.	4441	0	unbounded	Note Content Code	RSP Master/Exchanged_ Document/Included Note/Content Code
Content Text	A content, expressed as text, of this note.	4440	0	unbounded	Note Content Text	BSP Master/Exchanged_ Document/Included Note/Content Text
Subject Code	A code specifying the subject of this note.	4451	0	unbounded	Note Subject Code	BSP Master/Exchanged_ Document/Included Note/Subject Code
Issue Location	The location where this exchanged document has been issued.		0	1	Exchanged_ Document Issue Logistics Location	BSP Master/Exchanged_ Document/Issue Logistics Location
ID	A unique identifier for this logistics related location, such as a United Nations Location Code (UNLOCODE) or GS1 Global Location Number (GLN).	3225	0	1	Logistics Location Identification Identifier	BSP Master/Exchanged_ Document/Issue Logistics Location/Identification Identifier
Name	A name, expressed as text, of this logistics related location.	3224	0	unbounded	Logistics Location Name Text	BSP Master/Exchanged_ Document/Issue Logistics Location/Name Text
Country Code	The unique identifier of a country for this logistics location.		0	1	Logistics Location Country Identifier	BSP Master/Exchanged_ Document/Issue Logistics Location/Country Identifier
Message Issuer	The party that issues this exchanged document.		0	1	Technical Issuer of the message (non-contractual)	BSP Master/Exchanged_ Document/Issuer Trade Party
ID	A unique identifier of this trade party.	3039	0	unbounded	Trade Party Identification Identifier	BSP Master/Exchanged_ Document/Issuer Trade Party/Identification Identifier
Name	A name, expressed as text, for this trade party.	3038	0	unbounded	Trade Party Name Text	RSP Master/Exchanged_ Document/Issuer Trade Party/Name Text
Defined Contact Details	A trade contact defined for this trade party.		0	unbounded	Trade Party Defined Trade Contact	BSP Master/Exchanged_ Document/Issuer Trade Party/Defined Trade Contact
Message Recipient	A trade party that receives this exchanged document.		0	unbounded	Technical Recipient of the message (non-contractual)	BSP Master/Exchanged_ Document/Recipient Trade Party
ID	A unique identifier of this trade party.	3039	0	unbounded	Trade Party Identification Identifier	BSP Master/Exchanged_ Document/Recipient Trade Party/Identification Identifier
Name	A name, expressed as text, for this trade party.	3038	0	unbounded	Trade Party Name Text	BSP Master/Exchanged_ Document/Recipient Trade Party/Name Text
Defined Contact Details	A trade contact defined for this trade party.		0	unbounded	Trade Party Defined Trade Contact	BSP Master/Exchanged_ Document/Recipient Trade Party/Defined Trade Contact
Load Consignment	A supply chain consignment specified for a use of this master message assembly.		1	1	BSP Master: Specified Supply Chain Consignment	BSP Master/Specified Supply Chain Consignment
ID	A unique identifier for this supply chain consignment.	1202	0	1	Supply Chain Consignment Identification Identifier	BSP Master/Specified Supply Chain Consignment/Identification Identifier
Consignor Assigned ID	The unique identifier assigned by the consignor to this supply chain consignment.	1140	0	1	Supply Chain Consignment Consignor Assigned Identifier	RSP Master/Specified Supply Chain Consignment/Consignor Assigned Identifier
Carrier Assigned ID	The unique identifier assigned by the carrier to this supply chain consignment, such as a booking reference number when cargo space is reserved prior to loading.	1016	0	1	Supply Chain Consignment Carrier Assigned Identifier	BSP Master/Specified Supply Chain Consignment/Carrier Assigned Identifier
Freight Forwarder Assigned ID	The unique identifier assigned by the freight forwarder to this supply chain consignment.	1460	0	1	Supply Chain Consignment Freight Forwarder Assigned Identifier	RSP Master/Specified Supply Chain Consignment/Freight Forwarder Assigned Identifier
Gross Weight	A measure of the gross weight (mass) of the supply chain consignment which includes the weight of packaging but which excludes the weight of any transport equipment.	6012	0	unbounded	Supply Chain Consignment Gross Weight Measure	BSP Master/Specified Supply Chain Consignment/Gross Weight Measure
Gross Volume	A measure of the gross volume, normally calculated by multiplying the maximum length, width and height of the supply chain consignment.	6422	0	unbounded	Supply Chain Consignment Gross Volume Measure	BSP Master/Specified Supply Chain Consignment/Gross Volume Measure
Associated Invoice Amount	A monetary value of an invoice associated with this supply chain consignment.	5444	0	unbounded	Supply Chain Consignment Associated Invoice Amount	RSP Master/Specified Supply Chain Consignment/Associated Invoice Amount
COO Amount	The monetary value of the COO (Cash On Delivery) amount to be collected by the carrier upon delivery of this supply chain consignment.	5017	0	unbounded	Paper CARR Box 19 Cash or Delivery	BSP Master/Specified Supply Chain Consignment/COO Amount
Consignment Item Quantity	The number of consignment items separately defined for transport or customs purposes within this supply chain consignment.	6056	0	1	Supply Chain Consignment Consignment Item Quantity	BSP Master/Specified Supply Chain Consignment/Consignment Item Quantity
Cargo Insurance Instructions	Cargo insurance instructions, expressed as text, for this supply chain consignment.	4070	0	1	Supply Chain Consignment Cargo Insurance Instructions Information Text	BSP Master/Specified Supply Chain Consignment/Cargo Insurance Instructions Information Text

- Sostituzione delle copie cartacee
- Flusso di dati strutturati (xml, API)
- Identificazione digitale del soggetto firmatario
- Firme elettroniche avanzate (basta timbro e firma grafometrica)
- Geolocalizzazione
- Nuove tecnologie (blockchain)
- Garanzia di integrità e di non contraffazione delle informazioni
- Dati disponibili in tempo reale
- Archiviazione digitale dei documenti



e-CMR, INFORMAZIONI CRIPTATE, TRACCIATE E ACCESSIBILI DAI SOGGETTI COINVOLTI



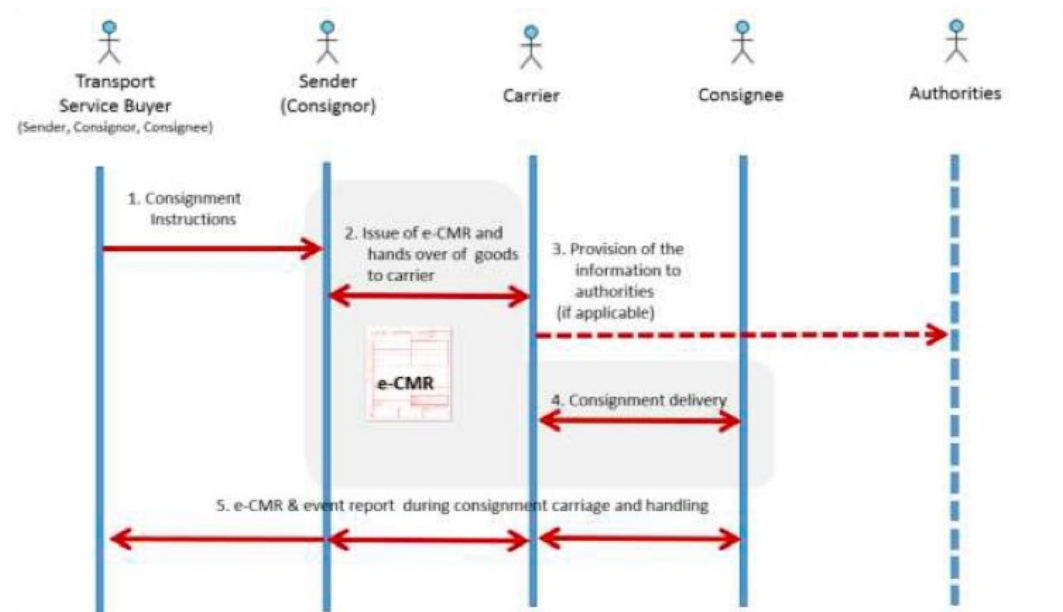
e-CMR, LE SPECIFICHE DEI REQUISITI BUSINESS



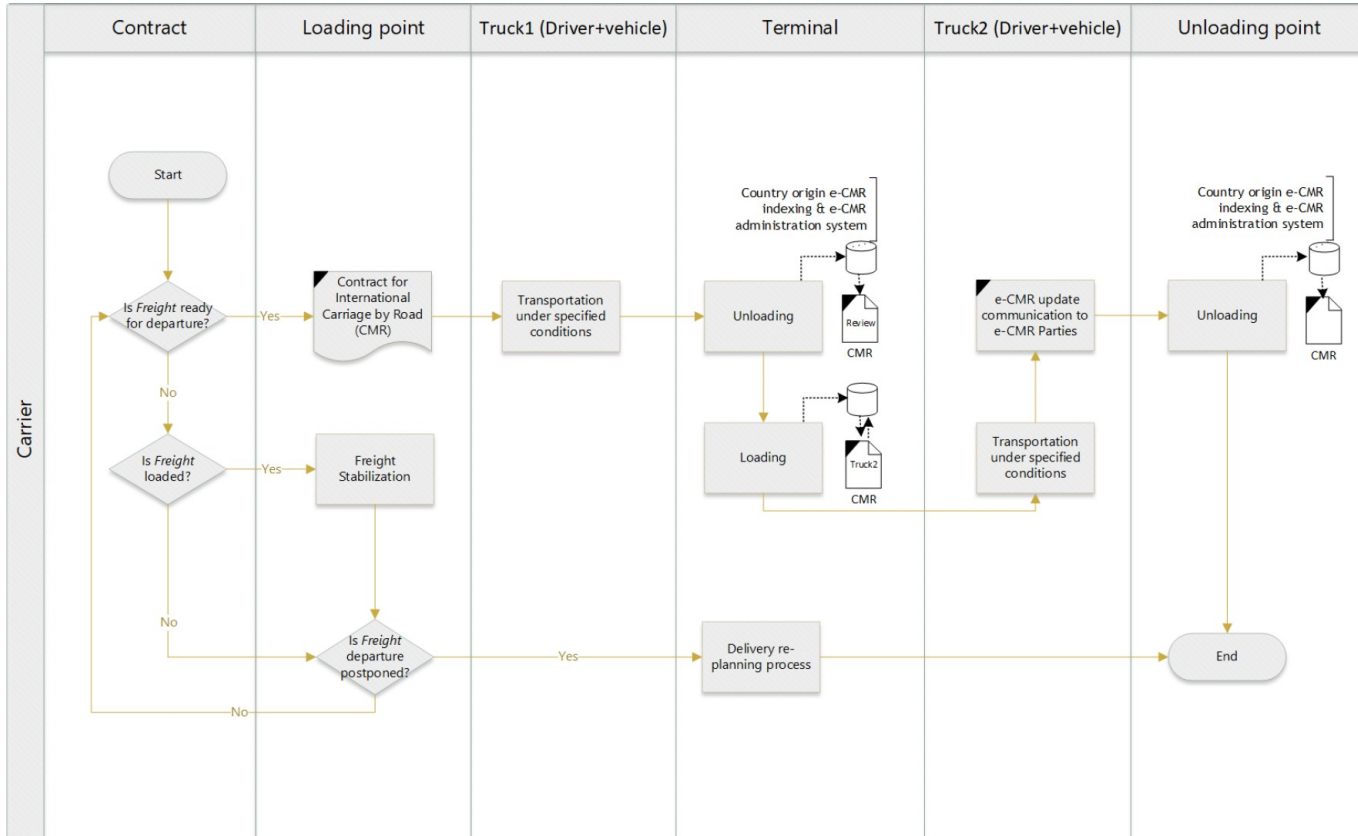
UNITED NATIONS ECONOMIC COMMISSION FOR EUROPE

UNITED NATIONS CENTRE FOR TRADE FACILITATION
AND ELECTRONIC BUSINESS (UN/CEFACT)

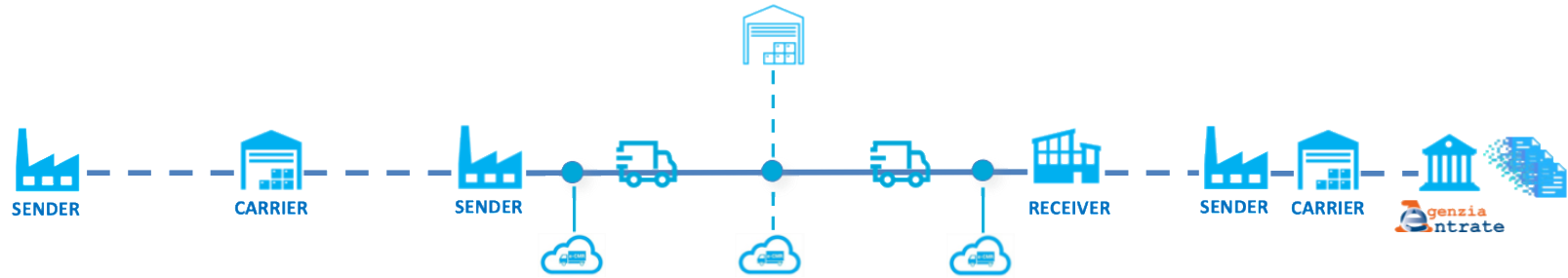
- Il protocollo aggiuntivo alla Convenzione sul Contratto di trasporto internazionale di merci su strada (CMR) riguardante la lettera di vettura elettronica è stato aggiunto alla Convenzione CMR, che ha richiesto che la CMR potesse essere gestita elettronicamente, tramite "e-CMR"
- Il diagramma seguente mostra in dettaglio le varie parti coinvolte nel trasporto di merci su strada e **l'interattività tra loro per quanto riguarda i messaggi che devono essere scambiati**. Anche altri scenari sono coperti dal modello di dati e-CMR



e-CMR, I SINGOLI PASSAGGI OPERATIVI



e-CMR, IL FLUSSO DELLE FIRME



ERP/WMS/TMS

- consignment instructions
 - CMR data

e-CMR

- e-signature workflow
 - e-CMR

ERP/WMS/TMS

e-CMR

- signed e-CMR & attachments
- report & transport order completion

E-CMR, LA VALIDITÀ DELLE FIRME

La CMR elettronica è un documento emesso dal mittente o dallo spedizioniere, tramite una trasmissione elettronica, cioè informazioni generate, inviate, ricevute o memorizzate tramite strumenti digitali e deve essere autenticata dalle parti contrattuali mediante una **firma elettronica affidabile**.

L'affidabilità della firma elettronica è presunta, salvo prova contraria, se la firma elettronica:

- **è connessa univocamente al firmatario** ed è idonea a identificare il firmatario
- è creata tramite **strumenti che il firmatario può mantenere sotto il proprio esclusivo controllo**
- è collegata ai dati a cui si riferisce in modo che **ogni eventuale modifica sia identificabile**

La **CMR elettronica contenente le stesse informazioni di quella cartacea** e rispettosa delle modalità di raccolta della firma da parte di Mittente, Trasportatori e Destinatario **costituisce un mezzo idoneo a provare che le merci hanno lasciato il territorio nazionale** e che sono state effettivamente consegnate in un Paese diverso da quello in cui si è originata la spedizione della merce.



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