



THE WCO DATA MODEL

***CROSS-BORDER TRANSACTIONS
ON THE FAST TRACK***

Introduction to GOVCBR

World Customs Organization

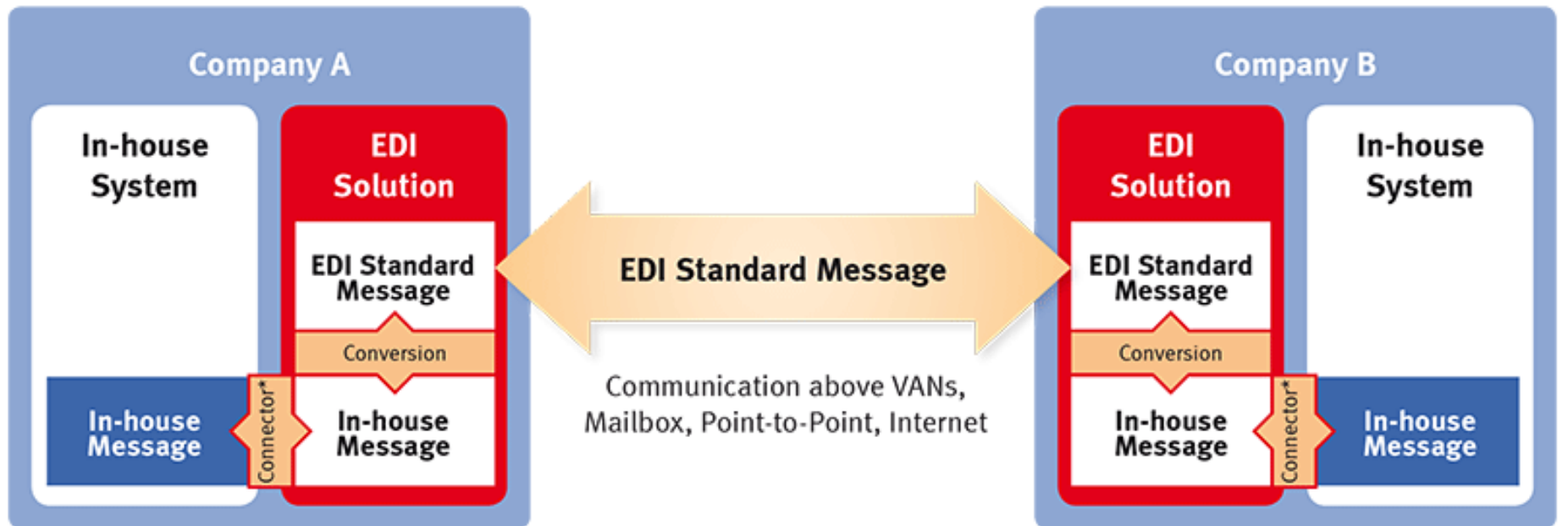


- GOVCBR
 - One of messaging standard
 - Based of EDIFACT
- Messaging: why is it needed?
- Why Messaging standards
 - Messaging → Interaction → speak-listen, I-O, write-read, send-receive
 - Human communication can be unstructured
 - Email, soc-med posting, text message
 - Machine to machine
 - Structure/ Format →
 - Rule → SYNTAX
 - Consistent →
- Known syntaxes: CSV, TSV, DELIMITERS, EDIFACT, XML, JSON.
- GOVCBR → Based on the EDIFACT



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Messaging





- EDIFACT
 - **EDI For Administration, Commerce and Transport**
 - **Consist:**
 - international EDI standard
 - set of syntax rules
 - data elements, segments and codes
 - Messages are made up of a collection of sequenced **segments**
 - within defined **areas**
 - Messages begin with the Message Header (UNH) Segment and end with the Message Trailer (UNT) Segment

UNH+ . . .	
BGM+ . . .	Header
MOA+ . . .	
. . .	
<hr/>	
DOC+ . . .	Detail
. . .	
<hr/>	
UNS+S'	
. . .	
MOA+ . . .	Summary
UNT+ . . .	



- “mono” functional messages EDIFACT standard:
 - CUSREP - Reporting Means of transport crossing the border (vessel, aircraft) entering and leaving
 - CUSCAR - Reporting of cargo export and import
 - CUSDEC - Declaration of goods export and import
 - CUSPED- Periodic goods declaration
 - SANCRT - Reporting of sanitary certificates
 - PAXLST- Passengers list
- The “multi” functional GOVCBR can serve the purpose of all messages except the PAXLST



- United Nations Standard Message according EDIFACT rules
- The first UN EDIFACT message developed from data model and a business information model
- A single message to make a Whole-of-Government Cross-Border Single Window feasible.
- To be used by all relevant Cross-Border Regulatory Agencies such as Customs (SW parties) .
- A multi functional message that can be used for Import, Export and Transit purposes and for Response messages.



- A flexible EDIFACT compliant message
- Helps compose specific messages for a specific purpose
- “Mini” message for a simplified procedure or a “compound message” for an export = import message)
- Submission of the legally required data only once (a key condition for a SW)
- The message can be transmitted in several parts.
- Caters for the legal requirements for:
 - Customs and Statistics.
 - Immigration (Crew),
 - Environment protection (Basel Convention),
 - Marine Safety,
 - Agriculture,
 - Food safety



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GOVCBR ~ WCO DM

WCO Data Model version 3.50 – Mapping to EDIFACT (GOVCBR)

EDIFACT	WCO Class Name	WCO ID	WCO Attribute Name	Unique Pos. ID	Format
1320 SG127 NAD-IFD-SG128 NAD Name and address					
3035 Party function code qualifier M an..3	<u>AUTHENTICATOR</u>	R005	Role code	5192	an..3
	Code value: AX		Authenticating party		
C082 Party identification details C					
3039 Party identifier M an..35	<u>AUTHENTICATOR</u>	R008	Authenticator - coded	3634	an..17
1131 Code list identification code C an..17					
3055 Code list responsible agency code C an..3	Code value: Various				
C058 Name and address C					
3124 Name and address description M an..35					
3124 Name and address description C an..35					
3124 Name and address description C an..35					
3124 Name and address description C an..35					
3124 Name and address description C an..35					
C080 Party name C					
3036 Party name M an..70	<u>AUTHENTICATOR</u>	R007	Authenticator - name	3633	an..70
3036 Party name C an..70					

R007	Authenticator - name	Name and address of the party which certifies that a document is authentic	Authenticator	an..70
R008	Authenticator - coded	Identification of a party which certifies that a document is authentic	Authenticator	an..17
R009	Buyer - name	Name [and address] of a party to which merchandise or services are sold	Buyer	an..70
R010	Buyer, coded	Identifier of a party to which merchandise or services are sold	Buyer	an..17



STRUCTURE OF GOVCBR

→ GOVCBR message represents the whole of the Data Model

→ GOVCBR covers several OGA requirements too:

→ GOVCBR can be stripped down to produce:

→ Import/Export Goods Declaration

→ Import/Export Cargo Reports

→ Transit Declaration

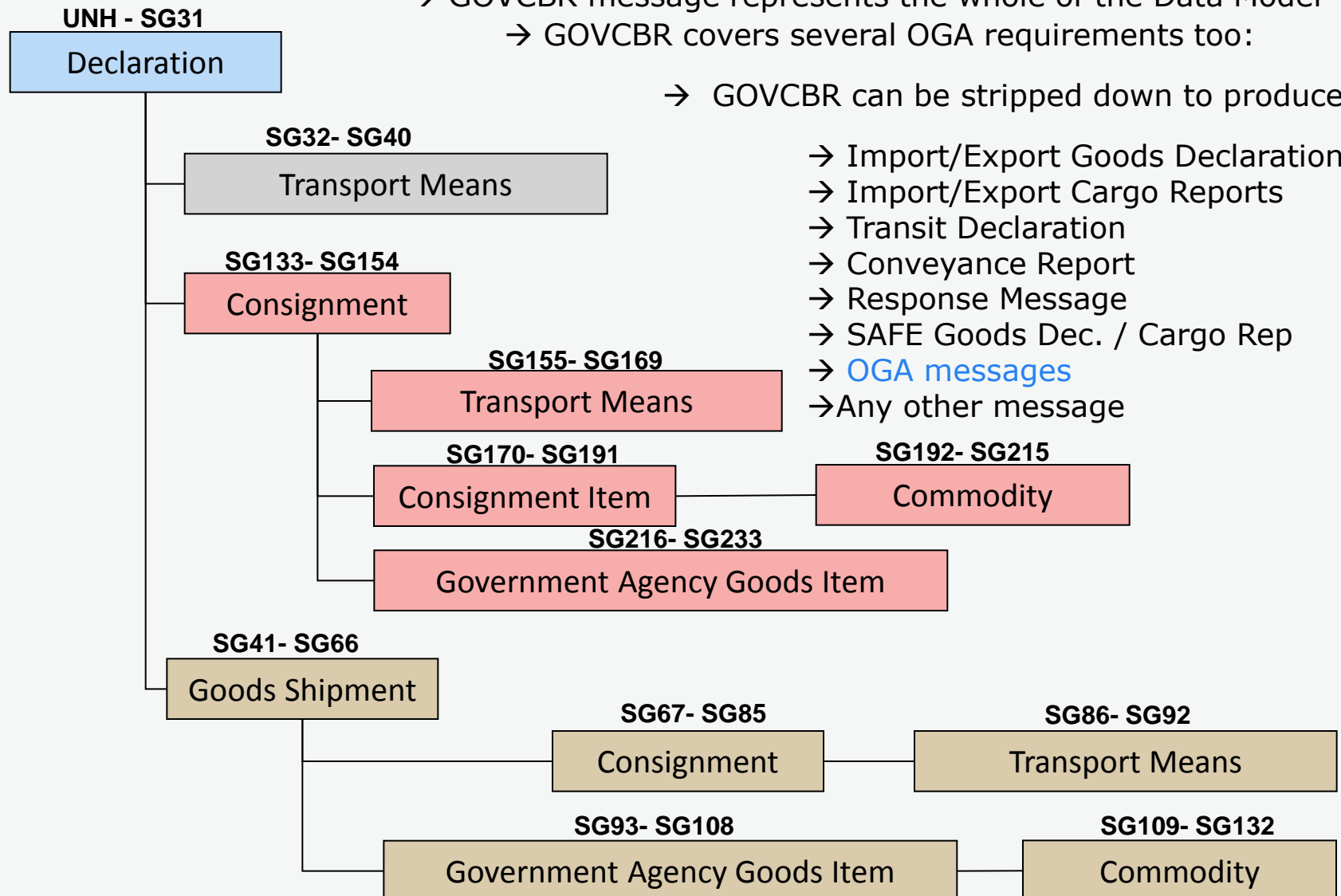
→ Conveyance Report

→ Response Message

→ SAFE Goods Dec. / Cargo Rep

→ **OGA messages**

→ Any other message





UNH - SG31

Declaration

Goods Declaration

Declaration/GoodShipment/Consignment/TransportMeans

SG41- SG66

Goods Shipment

SG67- SG85

Consignment

SG86- SG92

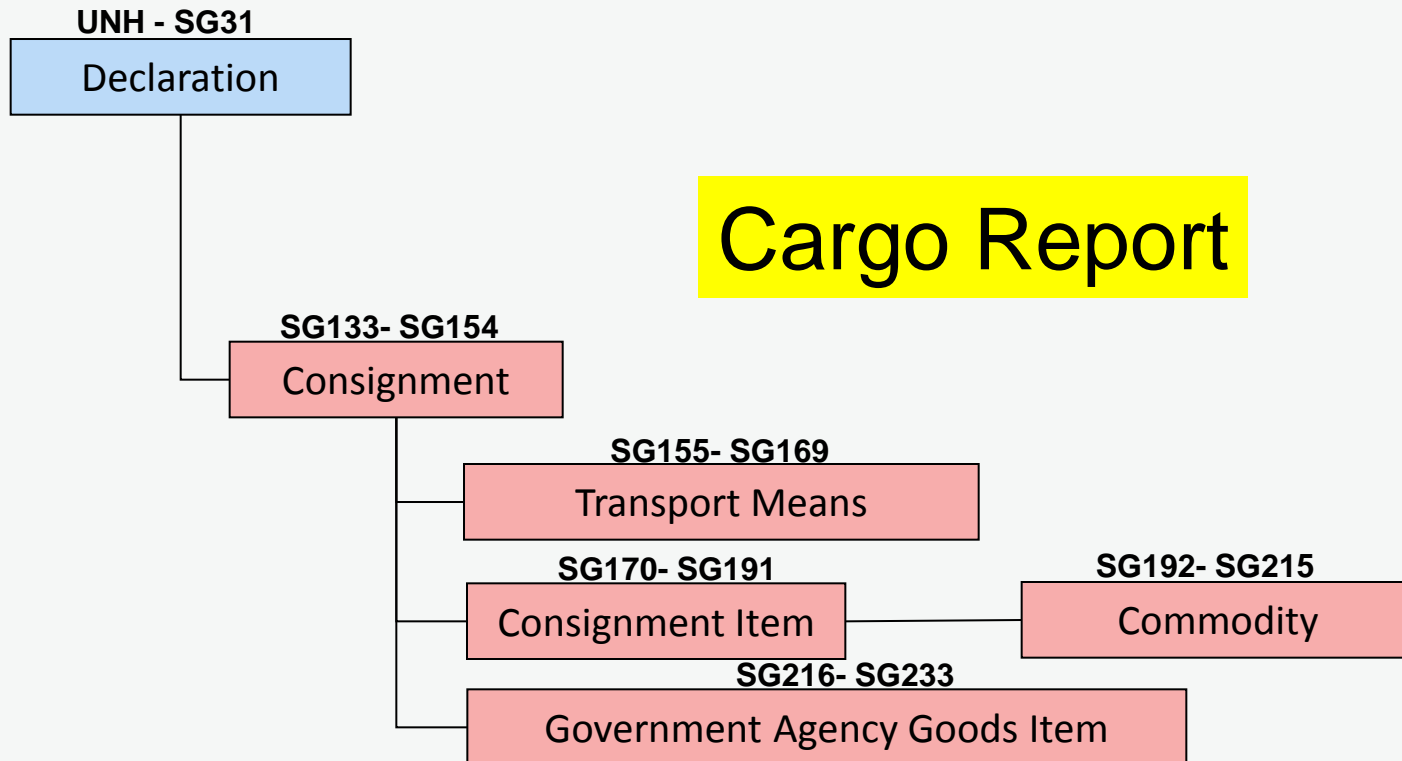
Transport Means

SG93- SG108

Government Agency Goods Item

SG109- SG132

Commodity





UNH - SG31

Declaration

SG32- SG40

Transport Means

Conveyance Report

Conveyance Report



- **Submit information only once:**
 - Submitted information in parts -
 - In 'small' messages – or snippets
 - At the earliest available opportunity
 - From the responsible party that has it first
 - Use of multiple transmissions
 - Use 'key fields' to link-up different transmissions
 - Maintain data integrity and authentication
 - Ensuring that legal requirements are met in this regard.
 - Time-variant data may be re-submitted
 - It may changes during the transaction



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Header / Document Metadata

Key Fields

Govt. Procedure (s)

Control & Status

Transport Movement

Transport Means

Transport Equipment

Transport Contract Info

Goods Shipment Info

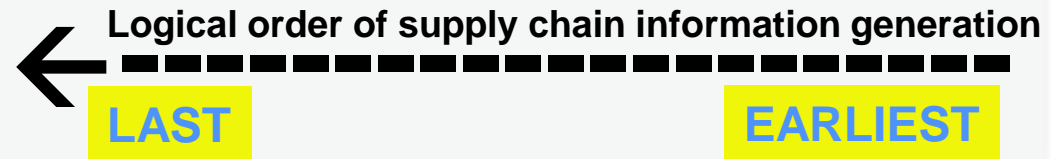
Transport Contract

Specific Regulatory Info

Invoice Information

Product / Product Instance

GOVCBR



- Implications for Information Management in a SW
- Ideas for SW business processes
- **Small Messages for SW using GOVCBR**



THE WCO DATA MODEL



- **Regulatory & tariff information**
 - Query on regulatory regimes for a commodity
 - Duties & taxes by duty/tax type
 - Regulatory requirements for import or export etc.
 - Vital part of “Informed regulatory compliance” strategy
 - Better to implement using web services



- “Pre-customs” processes
 - Pre-authorization of commodities
 - By cross-border regulatory Agencies
 - Application and issue of
 - Licenses, permits, certificates, others (LPCO)



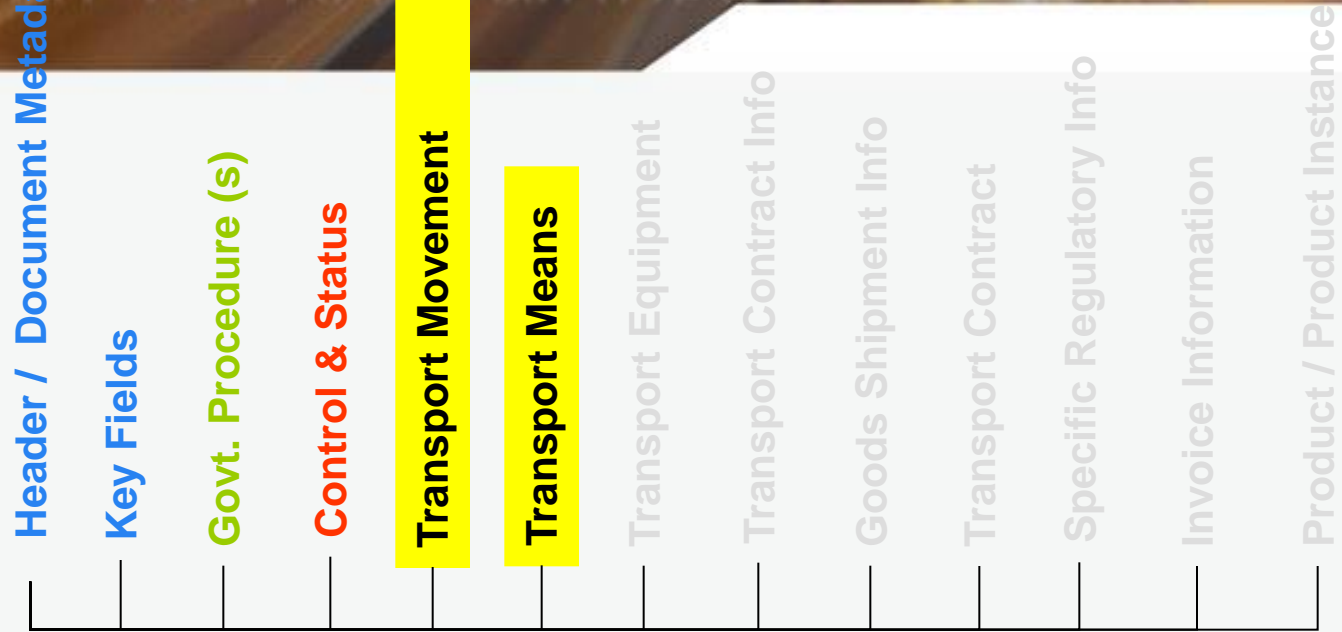
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- **Pre-customs” processes**
 - Some regulations may apply even before design, manufacture or production for export
 - Some regulatory processes may begin at pre-order stage or pre-shipment stage.
 - Some agencies may need more specific information e.g.

Commercial information – e.g. buyer seller

Transportation information – e.g. buyer seller



- Vessels Status Reports
 - Continuous monitoring of Vessel Movements



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Product / Product Instance

- **Container Status Reports**

- For what purpose?
 - Security- tracking of containers from booking to delivery
- Delivered by whom?
 - Carriers, container operators
- When?
 - Periodic. Every time there is a change in container status



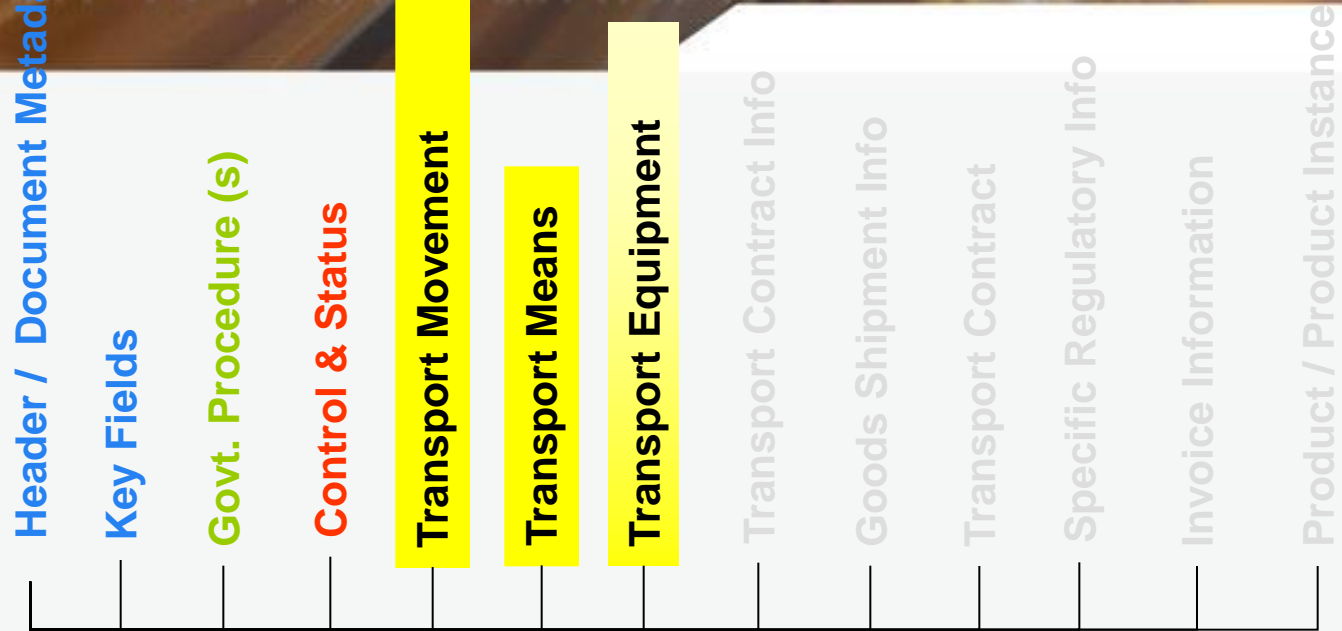
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- When goods are ready to move out of
 - Time to make export declaration !
 - Prior to goods being presented for export
- By whom?
 - By Exporter/ Agent
- At what stage?
 - As soon as there is an order and an intention to export



- **Cargo Report**
 - For regulatory control of cargo
 - For Inventory keeping
- By whom?
 - By Carrier/ Agent
- At what stage
 - At departure and arrival of vessels
 - Especially discharge of import and export cargo
 - Ship stores
 - At each stop in the route



- **Conveyance Report**
 - Regulating vessels movements into and out of Cargo facilities & Locations
 - By whom?
 - By Carrier/ Master/ Agent
 - When?
 - At departure and arrival.
 - At each stop in the route



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Product / Product Instance

- Whole 'export' GOVCBR is ready by the time conveyance moves out with goods
- Further transportation information is updated w.r.t.
 - Consolidation and deconsolidation
 - Transshipments along the route
 - Ship-to-ship activity
 - Route information for conveyance
- These updates can be sent incrementally to enable transit & import regulatory messages



Principles of Single Submission - revisited

- Above slides talk about:
 - What information can GOVCBR handle
 - Who can submit that information
 - At what stage can that information be submitted
- Above slides do not talk about:
 - How this information will be used in a single window?
 - How will it be shared between CBR agencies?
 - What is the legal basis for sharing?
 - Business to Business exchanges
 - Parts of the Single window also depends on B2B mechanisms
 - Sharing of export, transit and import information among regulatory agencies



- WCO Data Model provides
 - EDIFACT guidelines for
 - Import, Export, Cargo Report import, Cargo report export, conveyance report, Transit and Response.
 - All based on one single GOVCBR UN EDIFACT message
 - Users can derive additional guidelines for local use.
 - XML Guidelines for use Cross-border regulatory business processes



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Thank you for your attention !

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