



UNCTAD / 8 February 2024

Use of international standards in ASYCUDA
Digitalization standards for interoperability between
multimodal transport data exchange and regulatory systems

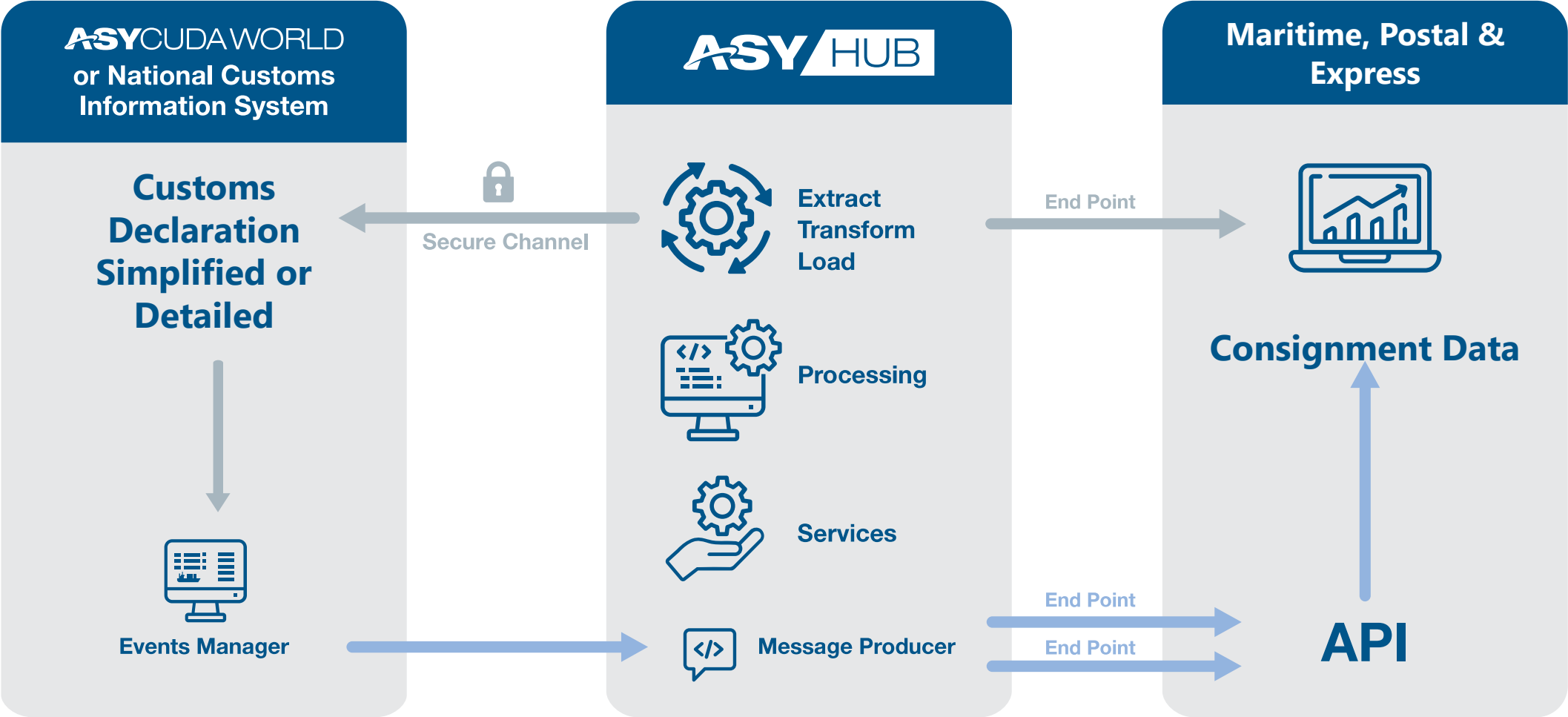
Improved coordination between stakeholders in trade & Better risk management

Focus areas

- ▶ **Facilitate collecting information from different actors & Re-use of supply chain data:** Providing Customs authorities with a 360-degree overview of the movements of goods and their supply chains
- ▶ **Advance cargo information on all goods brought to the customs territory:** Facilitate the process of entry of goods, presentation of goods to customs only where the customs authorities so request or where other legislation applied by the customs authorities so requires
- ▶ **Pre-arrival/Pre-departure processing:** Facilitate submission and *processing of declarations*, notifications, supporting documents prior to the presentation of goods
- ▶ **Enhanced cooperation between customs and non-customs authorities:** Interoperability/information exchange, operational coordination, improved enforcement of prohibitions and restrictions
- ▶ **eCommerce flows:** Providing support to Customs authorities in facilitating cross-border e-commerce through the digitisation of pre-arrival processing for postal and express consignments
- ▶ **Better risk management:** Providing Customs authorities with access to real-time data and with richer information to support a more informed risk assessment for a better targeting and more effective decision on which shipments to inspect

Building ASYCUDA Data Ecosystem

Tools and standards for interoperability between multimodal transport data exchange and regulatory systems



ASYHUB – New Data Exchange and Data Integration platform with 3rd party platforms



- ▶ **ASYHUB** is an open **standardized platform** that facilitates the Data processing and Data Integration between Customs Information System and Other external systems/platforms
- ▶ It is designed to be **cloud-native** using **microservices** centered principles
- ▶ It is **fully Integrated** with **ASYCUDAWorld System**
- ▶ It is **Integrated** with **Ship Data Providers (DCSA/IMO/WCO), Postal Data Providers (UPU/WCO), Express Consignment Data Providers (GEA/WCO)**
- ▶ It is a **multi-connectors extendable** platform that receives data from different sources
- ▶ It works fully with **Open-Source Technologies**
- ▶ Enables **Pre-Arrival** and **Pre-Departure Processing** for Maritime, Postal & Express Consignments
- ▶ Enhances UX and facilitates Users' access to information using **modern web browsers** and **mobile devices**
- ▶ Provides Customs authorities with **richer information** to support a more informed risk assessment for a better targeting and more effective decision on which consignment to inspect

Maritime - International Standards



1. UN/CEFACT

- ▶ Core Component Library, Multi-Modal Transport Reference Data Model (MMT RDM)
- ▶ Standards on electronic documents e.g. Booking confirmation, Shipping instructions, Container list, Bill of Lading etc.
- ▶ Smart Containers

2. WCO

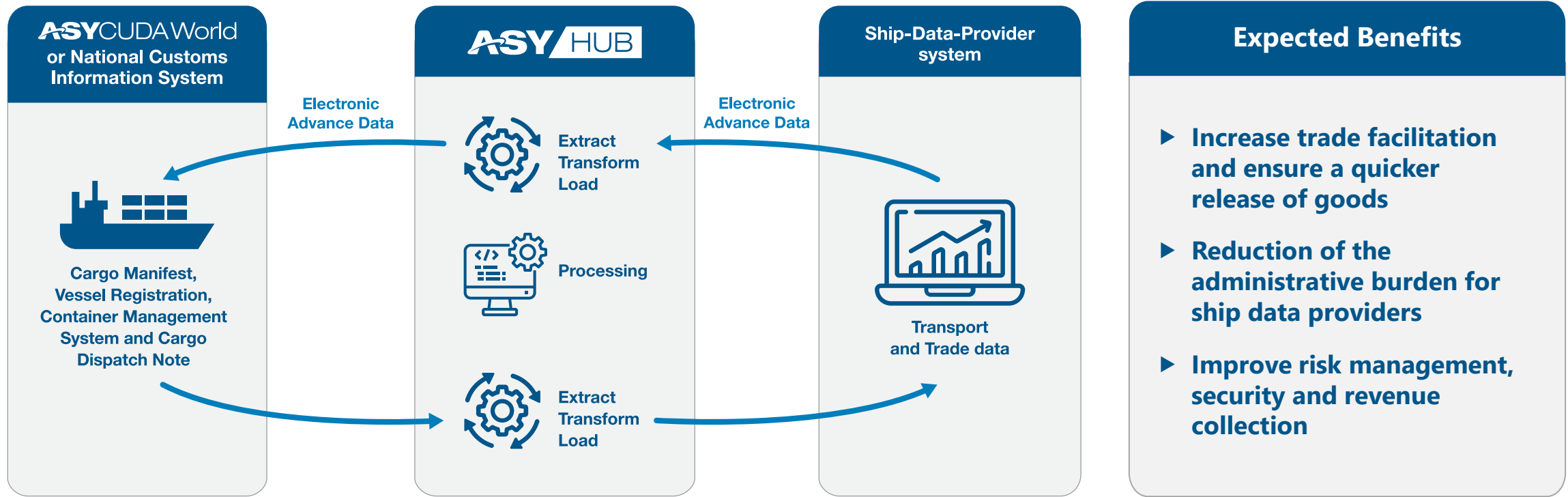
- ▶ WCO DM 4.0 Derived Information Package(DIP) Advanced Electronic Information (based on SAFE Framework FoS),
- ▶ WCO DM 4.0 MSW Derived Information Package (Customs formalities)

3. IMO

- ▶ IMO Reference Data model, Compendium, Maritime Single Window

4. Digital Container Shipping Association (DCSA)

- ▶ DCSA Information Model, Interface Standard for Track and Trace, eBL etc.



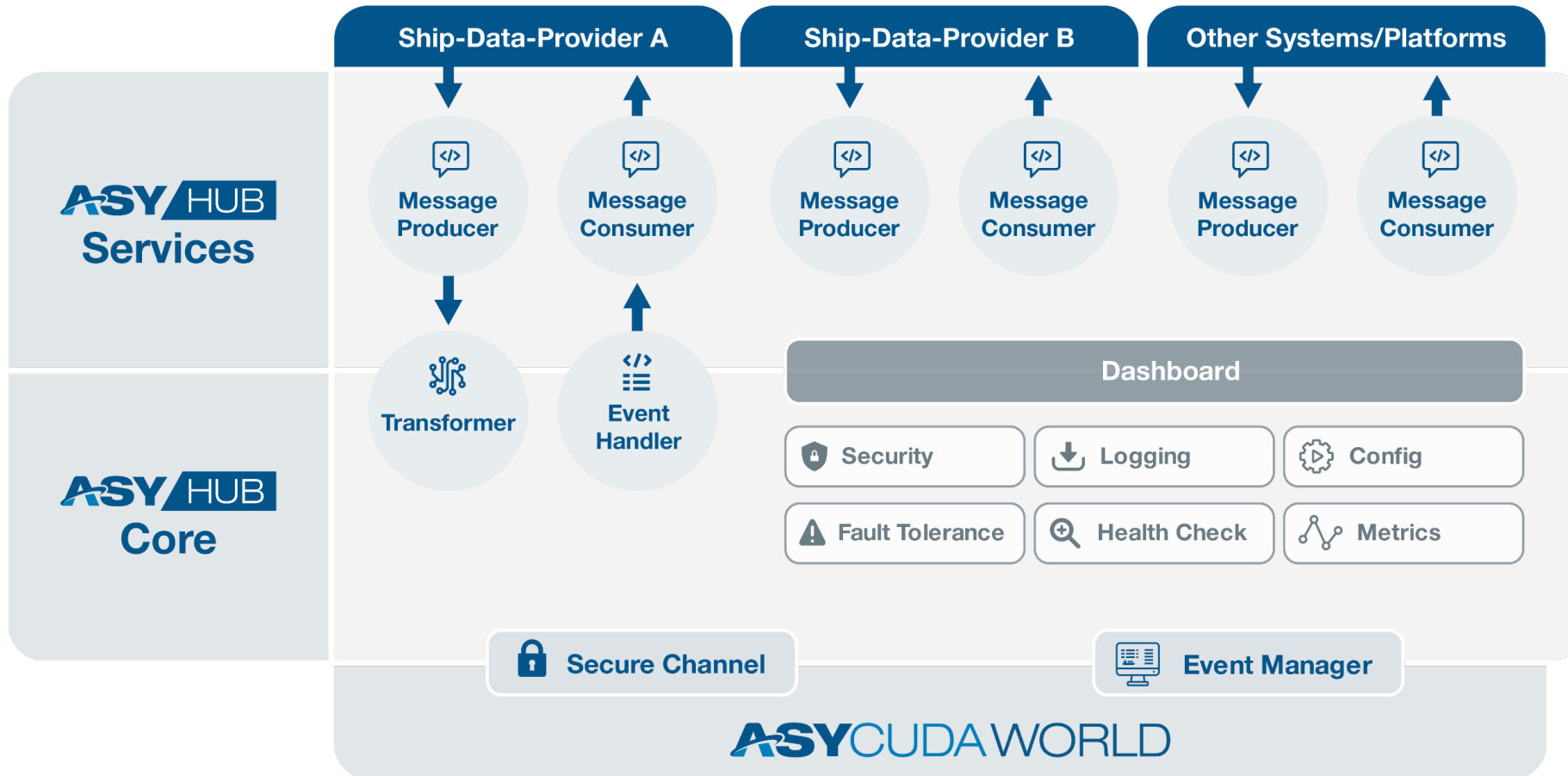
- Enable **automatic data exchange** between Ship-data-providers and Customs administrations
- **Streamline submission** and **information sharing** in relation with **Vessel** clearance, **Cargo** clearance and **Goods** clearance. Automate the **risk analysis** process
- Enabling Shipping agents and Customs authorities to gain digital access to **Advance Cargo Information**
- Further automate the processes of **Arrival, Presentation and Temporary storage (Entry), Exit**
- Introduce **Pre-arrival Processing (PaP)** and **Pre-departure Processing (PdP)**

SHIP-DATA-PROVIDERS

- All parties/persons who have to submit reporting formalities

OTHER SYSTEMS/PLATFORMS

- Terminal operators
- Port Community Systems (**PCS's**)
- Maritime Single Windows (**MSW's**)





Advance Cargo Information

- Enabling access to Advanced Cargo Information facility to re-use data as to complete formalities in relation with entry into Customs territory



Container Status Messages

- Additional supply chain visibility provided by container status messages capability to track and trace movement of containers – End-to-End visibility



System-to-System interface

- Complementary way of submission of Advance Cargo Information to further simplify and automate the process of submission of Sea Cargo Manifest information



Pre-Arrival Processing

- Submission and processing of declarations, notifications, supporting documents, prior to the presentation of goods



- ▶ Implementation of ASYHUB Data Exchange and Data Integration platform between ASYCUDA System and ship data provider's ICT systems to facilitate the processing of electronic Sea Cargo Manifest pre-arrival (Entry) and pre-departure (Exit).

Enabling the re-use of supply chain data



- ▶ Facilitate submission and processing of declarations, notifications, supporting documents prior to the presentation of goods.

Introducing Pre-arrival Processing (PaP) and Pre-departure Processing (PdP)

END-2-END Supply Chain Visibility



ASY HUB



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Documents / Consignments Filter Reload Export CSV + New [Refresh] [Close]

Reference	Carrier	Loading Place	Discharge Place	Office Code	Departure Port	Voyage Number	Departure Date	Transport Status	Transport Means	Document Status	Updated At
	MAEU	MYTPP	KHKOS	SHV11	MYTPP	401N	2024-01-03	In Transit	HANSA BREITENBURG	B/L Issued	11/01/2023:00:42
	MAEU	MYTPP	KHKOS	SHV11	MYTPP	401N	2024-01-03	In Transit	HANSA BREITENBURG	B/L Issued	11/01/2023:00:41
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	MAEU	MYTPP	KHKOS	SHV11	MYTPP	401N	2024-01-03	In Transit	HANSA BREITENBURG	B/L Issued	11/01/2023:00:39
	MAEU	MYTPP	KHKOS	SHV11	MYTPP	401N	2024-01-03	In Transit	HANSA BREITENBURG	B/L Issued	11/01/2023:00:38
	MAEU	SGSIN	KHKOS	SHV11	MYTPP	401N	2024-01-03	In Transit	HANSA BREITENBURG	B/L Issued	11/01/2023:00:37
	MAEU	MYTPP	KHKOS	SHV11	MYTPP	401N	2024-01-03	In Transit	HANSA BREITENBURG	B/L Issued	11/01/2023:00:37
	MAEU	MYTPP	KHKOS	SHV11	MYTPP	401N	2024-01-03	In Transit	HANSA BREITENBURG	B/L Issued	11/01/2023:00:36
	MAEU	MYTPP	KHKOS	SHV11	MYTPP	401N	2024-01-03	In Transit	HANSA BREITENBURG	B/L Issued	11/01/2023:00:35
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	MAEU	MYTPP	KHKOS	SHV11	MYTPP	401N	2024-01-03	In Transit	HANSA BREITENBURG	B/L Issued	11/01/2023:00:31

Cargo Declarations | 2024/01/0003
Maritime Cargo / Cargo Declarations / Cargo Declarations / View / 2024/01/0003

Form Actions History [Icons]

Address
V-Trust Tower Building, 7th Floor, St. 169, Phum 12 Sangkat Val Vong, Khan 7 Makara, Phnom Penh Cambodia

Transport Means

Name	IMO Number
HANSA BREITENBURG	9155391
Nationality	Captain
LR	NA
Gross Tonnage	Net Tonnage
3525266.91	2862356.91

Totals

Consignments	Packages
87	115345
Equipments	Gross Weight
193	3525266.91

Related Consignments Filter Reload + New ↗

Transport Document Reference ↑ 1	Loading Place	Discharge Place	Transport Status	Document Status	Updated At
231686736	MYTPP	KHKOS	In Transit	B/L Issued	11/01/2024 22:59:14
232381407	MYTPP	KHKOS	In Transit	B/L Issued	11/01/2024 22:59:54
232382286	MYTPP	KHKOS	In Transit	B/L Issued	11/01/2024 22:58:58
232382398	MYTPP	KHKOS	In Transit	B/L Issued	11/01/2024 22:59:17
232408921	SGSIN	KHKOS	In Transit	B/L Issued	11/01/2024 23:00:22

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Events ↑ ↗

Event ID	Occurrence Time	Event Type	Event Name	Originator	Location	Terminal
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eCommerce – Postal

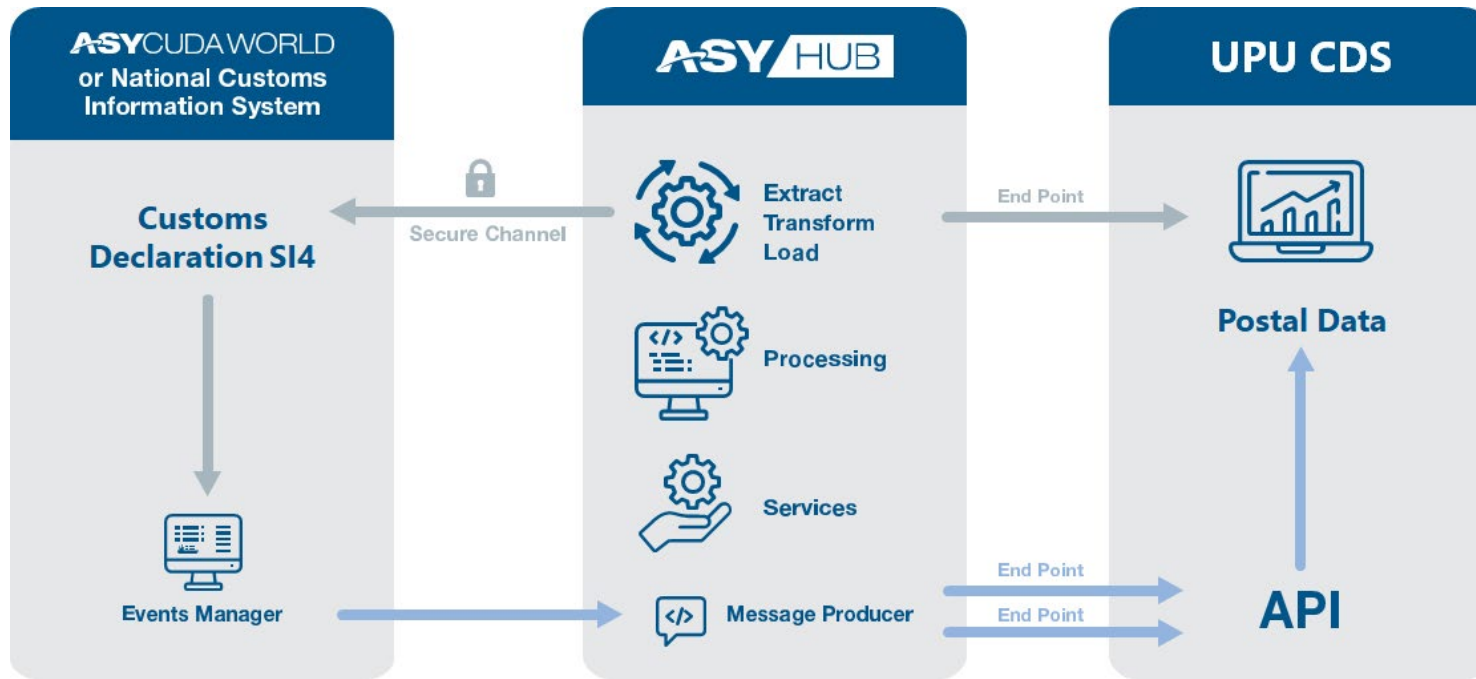


eCommerce – Express



Effective and efficient management of cross-border E-Commerce

Addressing the need for the exchange of electronic advance data (EAD) between Posts (**CDS/IPS system**) and Customs (ASYHUB/ASYCUDA system) to enable an efficient customs clearance process and the timely delivery of postal items **Joint WCO-UPU standard CUSITM/CUSRSP**



Proof of Concept - Gibraltar (UK) outgoing mail - August 2018



Ongoing projects:

Cambodia - Swisscontact funded



Georgia - UPU funded



Moldova - EBRD eCommerce Project



Mongolia - EBRD eCommerce Project



Vanuatu - EIF funded



ASYCUDA/ASYHUB – CDS/IPS interface implementation in Cambodia & Vanuatu



Integration and customization of ASYHUB Post to operate in the national ASYCUDAWorld/ASYCUDA Single Window environment

- Customisation of the ASYHUB Post to ensure its full technical and functional compatibility with the operational ASYCUDAWorld version and Single Window environment in the country
 - **Automatic S2S information exchange between Post (CDS/IPS) and Customs (ASYHUB/AW)**
 - Electronic Advance Data (EAD) – CUSITM
 - Customs decisions – CUSRSP (preliminary & final)
 - Postal item tracking and tracing events – e.g. EMD (Arrival at OE), EMC (Departure from OE)
 - **Automatic categorisation of postal consignments (De minimis threshold)**
 - **Reuse of supply chain data**
 - **Simplified declaration tailored specifically to postal consignments**
 - **Pre-Arrival Processing**
 - **Risk Management**





Inbound processes – Prior to arrival and presentation of goods



Electronic Advance Data (EAD) received from Designated Postal Operator CDS system in the form of CUSITM messages

- ▶ CDS.API – Load method to retrieve declarations (electronic version of paper customs declaration forms CN22,CN23,CP72). CUSITM processed in ASYHUB Post
- ▶ Pre-arrival risk analysis with selectivity criteria set specifically for postal consignments
- ▶ Upon completion of pre-arrival risk analysis, ASYHUB will trigger automatic categorization of postal consignment, automatic/manual control decision, including workflow and types of customs declarations to be used for the clearance of postal consignments i.e.:
 - Cat.1 and 2 - CN22/23 customs postal declaration processed in ASYHUB,
 - Cat.3 - Simplified Declaration (SD) processed in ASYCUDAWorld, or
 - Cat. 4 - Detailed Declaration (SAD) processed ASYCUDAWorld

Designated Postal Operator



Customs



МОНГОЛЫН ГААЛЬ



UNIVERSAL POSTAL UNION





Inbound processes – Upon arrival and presentation of goods



Designated Postal Operator



Customs



МОНГОЛЫН ГААЛЬ



Arrival notification received from Designated Postal Operator IPS system using IPS.API event **30 - Receive item at office of exchange** (equivalent EDI event message **EMD – Arrival at Inbound – Destination - Office of Exchange**)

- ▶ Arrival and presentation notification will trigger
 - Automatic release of all declarations on Green-standby (CN22/23, SDs and SADs)
 - Initiation of physical examination (& doc. control not completed prior to arrival)
 - Calculation of duties and taxes

Electronic Customs Response sent by Customs to Designated Postal Operator CDS system in the form of CUSRSP messages using the same CDS.API

- ▶ Final decision Customs/OGA (upon completion of controls, if any)
 - Goods Released
 - Goods Not Released



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POSTAL
UNION



Postal Consignments
Postal Cargo / Postal Consignments

Column Visibility | Filter | Reset Filter | Reload | Export CSV | Scan | [Grid]

Flow	Type	SSAD\SAD status	Number of Items	Weight (Kgs)	Arrival\Departure Status	Customs Timer	System Risk	Sender	Is Individual	Recipient	System Category	Officer Category
IM	LETTER		3	1.99	Not Arrived	Expired	No risk		true		CATEGORY_1	
IM	PARCEL		3	20	Not Arrived	Expired	High		true		CATEGORY_4	
IM	LETTER		2	0.1	Not Arrived	Expired	No risk		false		CATEGORY_2	
EX	EMS		1	1	Not Departed	Expired	No risk		true		CATEGORY_1	
IM	PARCEL		4	0	Not Arrived	Running	High		true		CATEGORY_1	
EX	EMS		2	6.92	Not Departed	Expired	No risk		true		CATEGORY_1	
EX	PARCEL		3	0.8	Departed	Expired	No risk		true		CATEGORY_1	
EX	EMS		1	0.56	Not Departed	Expired	No risk		true		CATEGORY_1	
IM	LETTER		2	0.37	Not Arrived	Expired	High		true		CATEGORY_1	
EX	PARCEL	Stored	1	2.38	Not Departed	Expired	No risk		true		CATEGORY_1	
EX	EMS		2	2.3	Not Departed	Expired	No risk		true		CATEGORY_2	
IM	PARCEL		2	0	Not Arrived	Running	No risk		true		CATEGORY_2	

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- View
- Customs Response
- Manual Arrival
- Update Consignment
- Risk Analysis Report
- Customs Timer

ASYCUDA

Automated System for Customs Data

ASYCUDA
40
YEARS

THANK YOU!

QUESTIONS & ANSWERS



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