

CROSS BORDER ELECTRONIC DATA EXCHANGE

Use Case : Electronic Certificate of Origin

November 2023 – Fachry R. Oemar



OUTLINE





Overview ELECTRONIC DATA EXCHANGE



FOUR KEY COMPONENTS OF EDI



WHAT

To Exchange

**MESSAGE
IMPLEMENTATION
GUIDE**

DATA STANDARDIZATION

Standardized and
Compatible data format
i.e. XML, JSON, EDI Format,
PDF

DATA VALIDATION & MAPPING

Properly validated and
mapped data to match
format and requirements in
both Systems (Sender and
Receiver)
i.e. MIG, XSD, JSD



HOW

To Exchange

**BUSINESS
PROCESS
SPESIFICATION**

TECHNOLOGY

The best suits method
or technology for
electronic data
exchange
i.e. Email, FTP, EDI,
APIs, WebServices

TRANSMISSION & ACKNOWLEDGMENT

Establish mechanism to
confirm and acknowledge
data's integrity during
completion of successful send,
receive, process and store the
data. i.e. MIG, XSD, JSD, ACK

CONNECTION & DATA SECURITY

Security measures to protect
data during transmission
i.e. Secure connection,
Encryption, ACL,
Authentication

ERROR HANDLING

Establish error-handling
procedures during
transmission
i.e. validation errors, system
failures, network disruptions

LOGGING & AUDITING

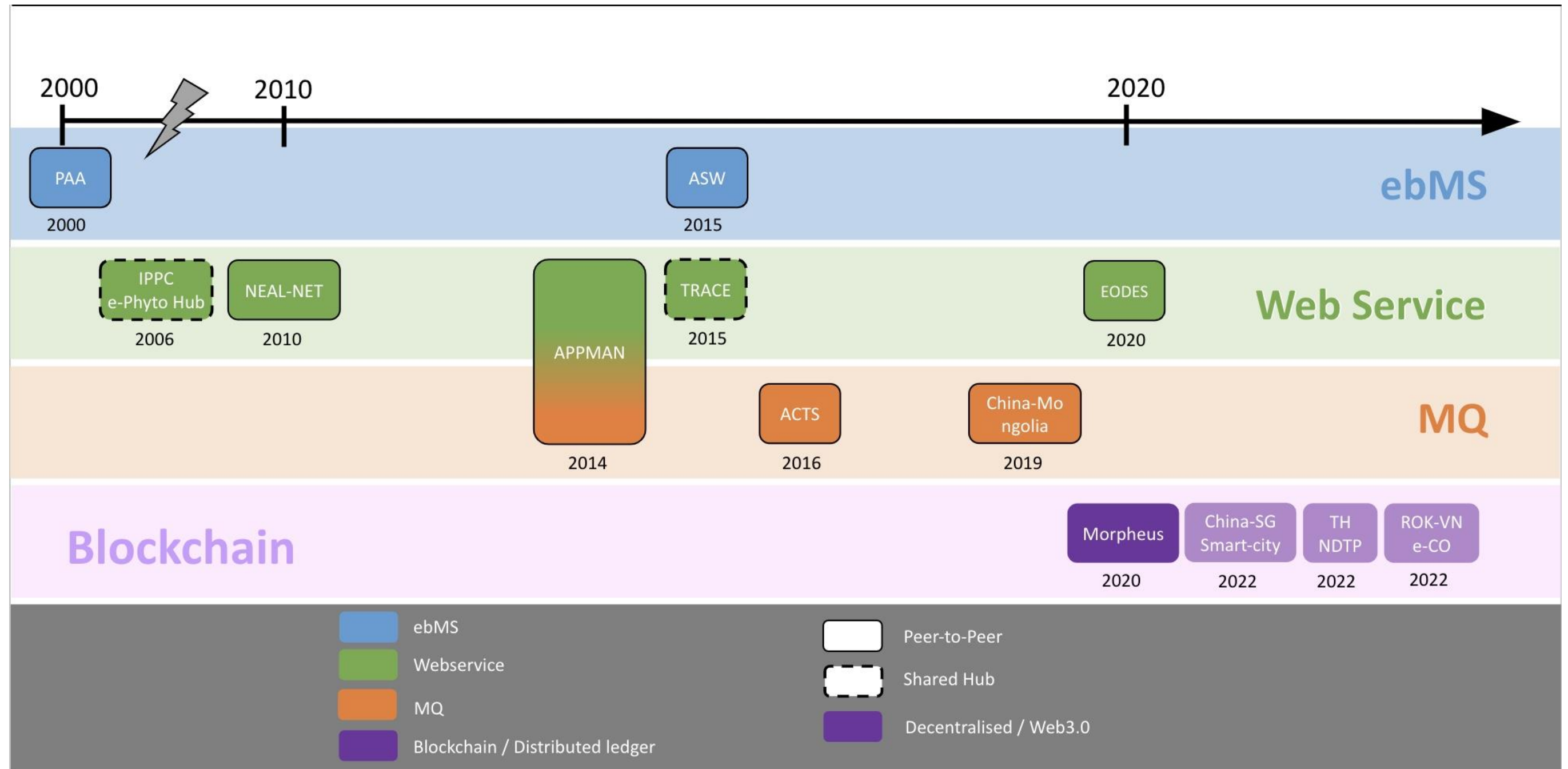
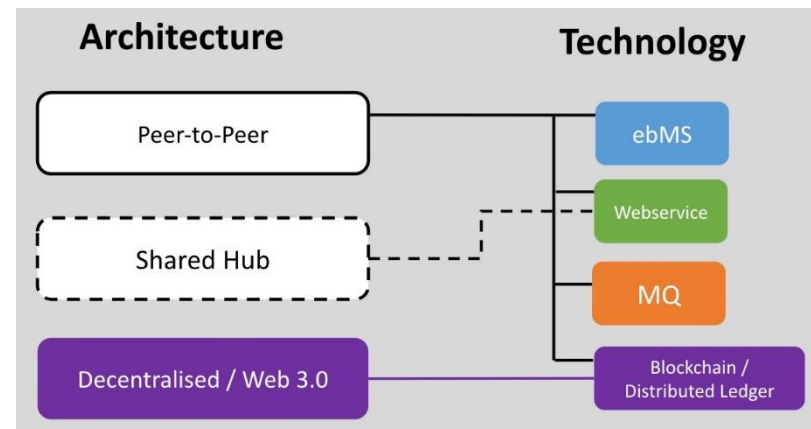
Maintaining logs and records
of transmissions for auditing,
traceability and compliance
purpose.
i.e. Logs, Transaction's History



TECHNICAL EVOLUTION OF HOW TO HOW TO - EXCHANGE DATA ELECTRONICALLY



Cross Border Trade Platform Evolution – the last 2 Decades



Reference :

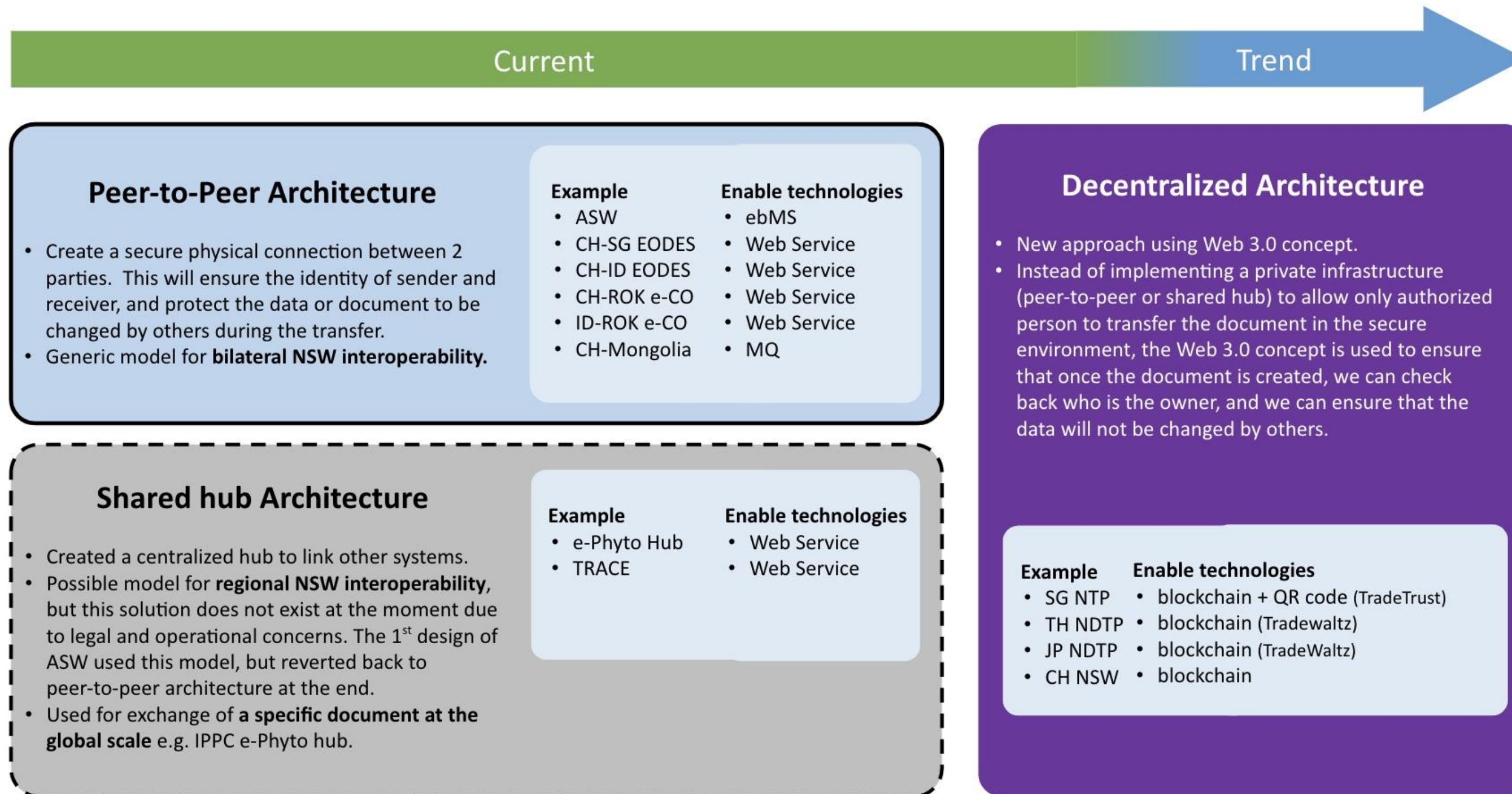
Initial Analysis for ASW Technical Enhancement, 2023



TECHNICAL EVOLUTION INITIAL ANALYSIS ELECTRONICALLY



Cross Border Trade Platform Evolution – the last 2 Decades

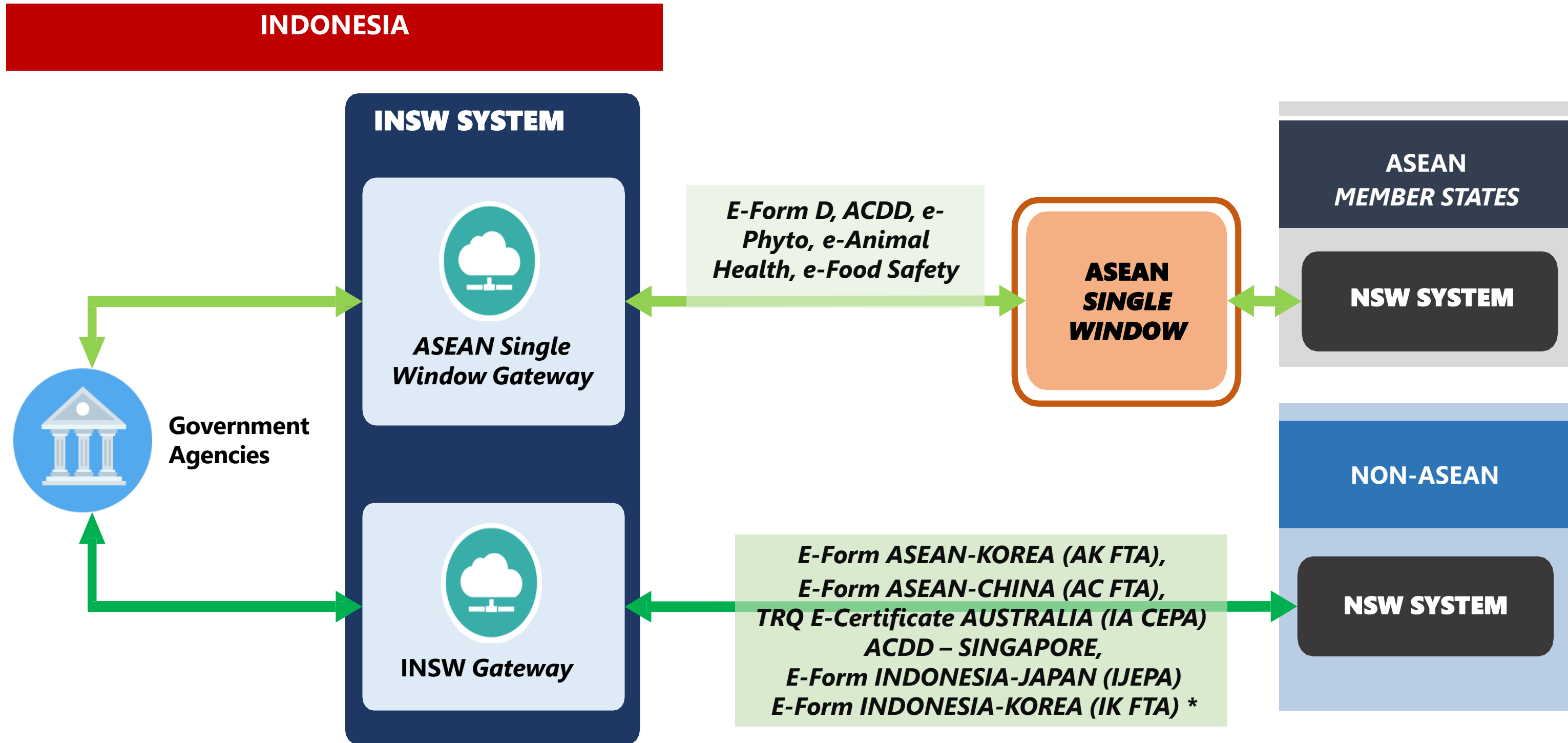


Reference :

Initial Analysis for ASW Technical Enhancement, 2023

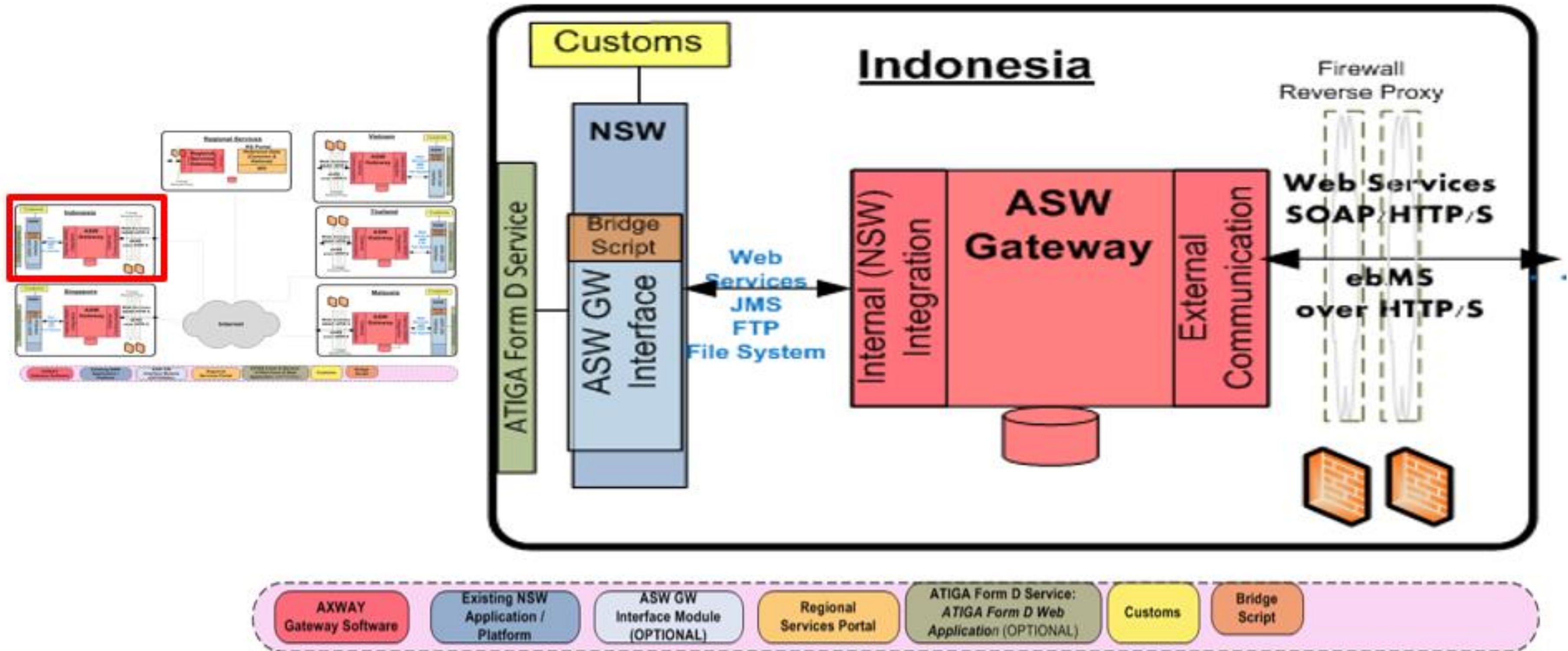


INDONESIA AND PARTNERS HOW TO - EXCHANGE DATA ELECTRONICALLY





ASEAN SINGLE WINDOW GATEWAY HOW TO - EXCHANGE DATA ELECTRONICALLY





ASEAN SINGLE WINDOW GATEWAY HOW TO - EXCHANGE DATA ELECTRONICALLY



Local server

Showing 1 - 100 of 1680 messages

Result page: [1](#) [2](#) [3](#) [4](#) [5](#) [6](#) [7](#) [8](#) [9](#) [10](#) [11](#) [Next](#) [Last](#)

Select an action... ▾

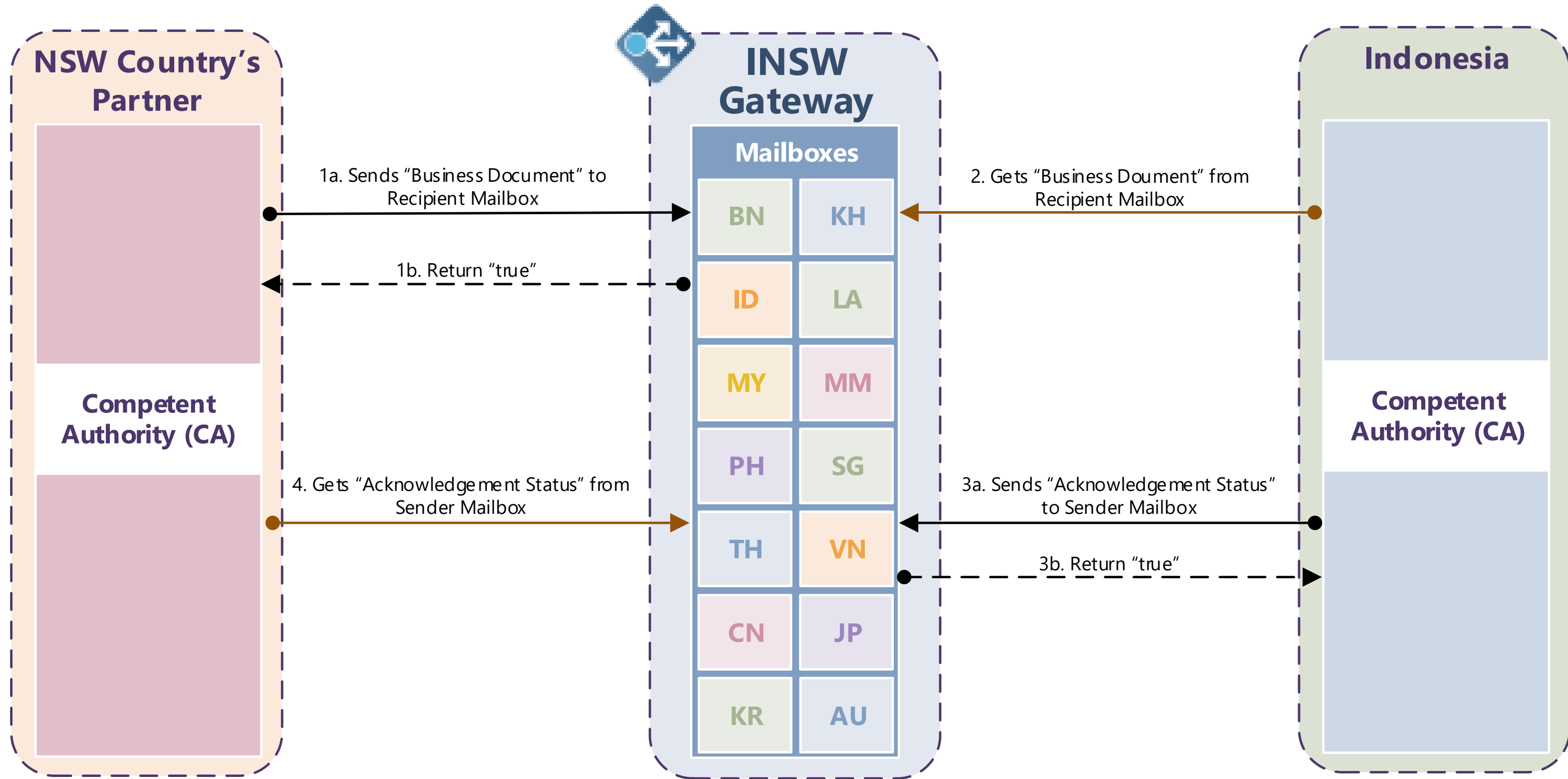
Click a table cell for more filtering options

Click Details to view message details. Or, place the cursor over the Details link for 2 seconds to display a pop-up of attributes.

<input type="checkbox"/>	Type	Origination ▼	From ID	To ID	Status
<input type="checkbox"/> Details	Payload	Jul 17, 2023 02:17:20 PM WIB	ASWIndonesia	ASWMalaysia	Delivered
<input type="checkbox"/> Details	Payload	Jul 17, 2023 02:17:20 PM WIB	ASWIndonesia	ASWMalaysia	Delivered
<input type="checkbox"/> Details	Payload	Jul 17, 2023 02:17:20 PM WIB	ASWIndonesia	ASWMalaysia	Delivered
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<input type="checkbox"/> Details	Payload	Jul 17, 2023 02:17:20 PM WIB	IDTRD080001	MYTRD080002	Delivered to processing
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<input type="checkbox"/> Details	Payload	Jul 17, 2023 02:16:59 PM WIB	IDTRD080001	MYTRD080002	Delivered to processing



INDONESIA NSW GATEWAY HOW TO - EXCHANGE DATA ELECTRONICALLY





INDONESIA NSW GATEWAY HOW TO - EXCHANGE DATA ELECTRONICALLY



INSW Gateway ≡ LOG OUT

admin Online

MAIN NAVIGATION

- Home
- User Management
- Tracking

Tracking Page

Document Q search

NO		SENDER	RECEIVER	DOCUMENT NUMBER	DOCUMENT TYPE	STATUS	START	ACTION
1	+	IDCOO001	ID120000	ACK.1045469/JKP/2023	ACK	QUEUED	2023-07-17 14:16:28	view_xml
2	+	ID010400	IDCOO001	961.0223112040058815	ACK	QUEUED	2023-07-17 14:16:23	view_xml
3	+	IDCOO001	ID120000	ACK.1025844/MDN/2023	ACK	QUEUED	2023-07-17 14:16:19	view_xml
4	+	IDCOO001	ID120000	AS2.1056587/SBY/2023.230717104910	AS2	READY	2023-07-17 11:32:44	view_xml
5	+	CNCOO001	IDCOO001	E2361872051X0621	861	READY	2023-07-17 15:15:59	view_xml
6	+	CNCOO001	IDCOO001	E2361872051X0619	861	READY	2023-07-17 15:15:59	view_xml
7	+	CNCOO001	IDCOO001	E2361872051X0620	861	READY	2023-07-17 15:15:59	view_xml
8	+	CNCOO001	IDCOO001	E2361872051X0622	861	READY	2023-07-17 15:15:59	view_xml
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Refresh << < 1 of 1.032.379 > >>



BUSINESS PROCESS SPECIFICATION HOW TO - EXCHANGE ELECTRONIC CERTIFICATE OF ORIGIN



ATIGA e-Form D

Business Process Specification

Version No. 1.3

20 December 2021

e-Form AK

Business Process Specification

Version No. 1.1 (Final)

9 Mei 2019

Tariff Rates Quota

Business Process Specification

Version No. 3.3

01 August 2022

e-CO IJEPA

Business Process Specification

Version No. 1.4

05 September 2022

e-CoO KI CEPA

Business Process Specification

Version No. 1.1

06 July 2023

ASEAN-Japan e-CO

Business Process Specification

Version No. 1.0

17 January 2023



BUSINESS PROCESS SPECIFICATION HOW TO - EXCHANGE ELECTRONIC CERTIFICATE OF ORIGIN



ATIGA eForm D

ATIGA e-Form D

Sending eCoO
Returning Customs Response
Cancellation
Querying

eCoO AK FTA

e-Form AK

Sending eCoO
Returning Feedback Information
Cancellation
Querying
Tracking
Encryption

TRQ eCert

Tariff Rates Quota

Sending TRQ eCert
Returning Feedback Information
Cancellation
TRQ eCert Amendment
Tracking
Encryption
Contingency Plan

eCoO IJEPA

Sending TRQ eCert
Returning Feedback Information
Cancellation
Querying
Tracking
Encryption
Contingency Plan

eCoO IK CEPA

Sending eCoO
Returning Feedback Information
Cancellation
Querying
Tracking
Encryption

eCoO AJEPA

Sending eCoO
Returning Feedback Information
Revocation
Contingency Plan



MESSAGE IMPLEMENTATION GUIDE WHAT TO - EXCHANGE ELECTRONIC CERTIFICATE OF ORIGIN



Form AK :

Original

7756114649

Reference No. 0036744/BK/2018

ASEAN-KOREA FREE TRADE AREA
PREFERENTIAL TARIFF
CERTIFICATE OF ORIGIN
(Combined Declaration and Certificate)

FORM AK
Issued in INDONESIA
(Country)
See Notes Overleaf

1. Goods consigned from (Exporter's business name, address, country)
PT OHSUNG ELECTRONICS INDONESIA
JL. SELAYAR BLOK D7 KAWASAN INDUSTRI MM100,
CIKARANG BARAT BEKASI, JAWA BARAT, INDONESIA

2. Goods consigned to (Consignee's name, address, country)
LG INNOVATEK CO., LTD
26, HANNAKSHINDAN STREET-RO,
GWANGSAN-GU, GWANGJU, 6226, KOREA
NAME : KIM SELLG
PHONE : 82-63-960-1998

3. Means of transport and route (as far as known)
Departure Date: OCTOBER 8, 2018
Vessel's name/Aircraft etc.: OZ762
Port of Discharge: INCHEON

4. For Official Use
 Preferential Treatment Given Under ASEAN-Korea Free Trade Area (Preferential Tariff)
 Preferential Treatment Not Given (Please state reason(s))

Signature of authorized Signatory of the Importing Country

5. Item number	6. Marks and numbers on packages	7. Number and type of packages, description of goods (including quantity where appropriate and HS number of the importing country)	8. Origin criterion (see Notes Overleaf)	9. Gross weight or other quantity and value (FOB only when RVC criterion is used)	10. Number and date of invoices
1	NM	3 PALLETS- 04 BOX OF BRACKET 3PRB00178B 100.000 PCS 3PRB00383A 100.000 PCS 3PRB00384A 100.000 PCS HS: 8529.00	RVC 100%	525.00 KGM USD 18.014,38	OSI-385102018 OCTOBER 8, 2018

11. Declaration by the exporter
The undersigned hereby declares that the above details and statements are correct; that all the goods were produced in
INDONESIA
(country)
and that they comply with the origin requirements specified for these goods in the ASEAN-KOREA Free Trade Area Preferential Tariff for the goods exported to
PT. OHSUNG ELECTRONICS INDONESIA
REPUBLIC OF KOREA
(Importing Country)
BEKASI, DECEMBER 8, 2018
Place and date, signature of authorized signatory

12. Certification
It is hereby certified, on the basis of control carried out, that the declaration by the exporter is correct.
ISSUED RETROACTIVELY
ISSUING OFFICE IN KABUPATEN BEKASI
10.16
YULIATI
BEKASI, DECEMBER 5, 2018
Place and date, signature and stamp of certifying authority

13. Third Country Invoicing Exhibition Back-to-Back CO

Form AK Serial : AK - FAR - 0127

Form AK vs Form D



Differences :

- Box 4 : For Official Use
- Box 13 : Category

Form D :

Original

8061622620

Reference No. 0002845/SBY/2019

ASEAN TRADE IN GOODS AGREEMENT
ASEAN INDUSTRIAL COOPERATION SCHEME
CERTIFICATE OF ORIGIN
(Combined Declaration and Certificate)
FORM D
Issued in INDONESIA
(Country)

1. Goods consigned from (Exporter's business name, address, country)
PT. SUKSES LAUTAN INDONESIA
JL. TANJUNG TEMBAGA BARAT PELABUHAN PROBOLINGGO EAST JAWA - INDONESIA

2. Goods consigned to (Consignee's name, address, country)
S.K. GLOBAL SUPPLY CHAIN CO., LTD.
23/56 501 BANGKADI 32, BANGKADI RD., SAMAEADAM, BANGKOKIUNTEN,
BANGKOK 10150, THAILAND
TEL: +66(6) 712 9136
FAX: +66(2) 405-0125

3. Means of transport and route (as far as known)
Departure Date: JANUARY 7, 2019
Vessel's name/Aircraft etc.: ST EVER 0809-037A
Port of Discharge: LAT KRABANG, THAILAND

4. For Official Use
 Preferential Treatment Given Under ASEAN Trade in Goods Agreement
 Preferential Treatment Given Under ASEAN Industrial Cooperation Scheme
 Preferential Treatment Not Given (Please state reason(s))

Signature of Authorized Signatory of the Importing Country

5. Item number	6. Marks and numbers on packages	7. Number and type of packages, description of goods (including quantity where appropriate and HS number of the importing country)	8. Origin criterion (see Notes Overleaf)	9. Quantity and Value (FOB) where RVC is applied	10. Number and date of invoices
1		550 BQ 550 BAGS OF FROZEN SPOTTED GROUPEUR HEAD HS: 0303890000	"WO"	11,275.00 KGM	SLDTHASK-01A/2 019 JANUARY 4, 2019

11. Declaration by the exporter
The undersigned hereby declares that the above details and statements are correct; that all the goods were produced in
INDONESIA
(Country)
and that they comply with the origin requirements specified for these goods in the ASEAN Trade in Goods Agreement for the goods exported to
THAILAND
(Importing Country)
PROBOLINGGO, JANUARY 8, 2019
Place and date, signature of authorized signatory

12. Certification
It is hereby certified, on the basis of control carried out, that the declaration by the exporter is correct.
ISSUING OFFICE IN PROVINSI JAWA TIMUR
13.00
NURING RETNOWATI
SURABAYA, JANUARY 8, 2019
Place and date, signature and stamp of certifying authority

13. Third Country Invoicing Exhibition
 Accumulation De Minimis
 Back-to-Back CO Issued Retroactively
 Partial Cumulation

Form D Serial : D - G B O - 4568



MESSAGE IMPLEMENTATION GUIDE WHAT TO - EXCHANGE ELECTRONIC CERTIFICATE OF ORIGIN



Hardcopy CoO

Original

1. Goods consigned from (Exporter's business name, address, country) PT OH SUNG ELECTRONICS INDONESIA JL. SELAYAR BLOK D7 KAWASAN INDUSTRI MM2100, CIKARANG BARAT BEKASI, JAWA BARAT, INDONESIA		Reference No. 0036744/BKI/2018 ASEAN-KOREA FREE TRADE AREA PREFERENTIAL TARIFF CERTIFICATE OF ORIGIN (Combined Declaration and Certificate)	
2. Goods consigned to (Consignee's name, address, country) LG INNOTEK CO.,LTD 28, HANAMSANDAN 5BEON-RO, GWANGSAN-GU, GWANGJU, 62229, KOREA NAME : KIM BELLU PHONE : 82-82-950-1988		FORM AK Issued in INDONESIA (Country) See Notes Overleaf	
3. Means of transport and route (as far as known) Departure Date: OCTOBER 5, 2018 Vessel's name/Aircraft etc.: OZ762 Port of Discharge: INCHEON		4. For Official Use <input type="checkbox"/> Preferential Treatment Given Under ASEAN-Korea Free Trade Area Preferential Tariff <input type="checkbox"/> Preferential Treatment Not Given (Please state reason(s)) Signature of authorized signatory of the Issuing Country	
5. Item number	6. Marks and numbers on packages	7. Number and type of packages, description of goods (including quantity where appropriate and HS number of the importing country)	8. Origin criterion (see Notes Overleaf)
1	N/M	3 PALLETS= 34 BOX OF BRACKET 3PRB00178B 100,800 PCS 3PRB00333A 100,800 PCS 3PRB00334A 100,320 PCS HS: 8529.30	RVC 100 %
		9. Gross weight or other quantity and value (FCB only when RVC criterion is used)	10. Number and date of invoices
		525.00 KGM USD 18,914.38	OSI-365/10/2018 OCTOBER 5, 2018
11. Declaration by the exporter The undersigned hereby declares that the above details and statements are correct; that all the goods were produced in INDONESIA (country) and that they comply with the origin requirements specified for these goods in the ASEAN-KOREA Free Trade Area Preferential Tariff for the goods exported to REPUBLIC OF KOREA (importing country) BEKASI, DECEMBER 5, 2018 Place and date, signature of authorized signatory		12. Certification It is hereby certified, on the basis of control carried out, that the declaration by the exporter is correct ISSUED RETROACTIVELY ISSUING OFFICE IN KABUPATEN BEKASI YULIATI BEKASI, DECEMBER 5, 2018 Place and date, signature and stamp of certifying authority	
13. <input type="checkbox"/> Third Country Invoicing <input type="checkbox"/> Exhibition <input type="checkbox"/> Back-to-Back CoO			

Form AK Serial : AK - FAR - 0127

Electronic CoO

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        26, HANAMSANDAN 5BEON-RO, GWANGSAN-GU, GWANGJU, 62229, KOREANAME : KI
      </LineOne>
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  </ImporterParty>
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  <-ExporterParty>
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    <Name>PT OH SUNG ELECTRONICS INDONESIA</Name>
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    <LineTwo>AWA BARAT, INDONESIA</LineTwo>
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    <GrossWeightMeasure unitCode="KGM">525.00</GrossWeightMeasure>
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      3 PALLETS= 34 BOX OF BRACKET3PRB00178B 100,800 PCS3PRB00333A 100,800 PCS3PRB00334A 100,320 PCS
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      <Name>INCHON</Name>
    </UnloadingLocation>
    </UsedTransportMeans>
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  </FinalDestinationCountry>
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    <-LineOne>
      JL. SELAYAR BLOK D7 KAWASAN INDUSTRI MM2100, CIKARANG BARAT BEKASI, J
    </LineOne>
    <LineTwo>AWA BARAT, INDONESIA</LineTwo>
  </SpecifiedAddress>
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  <-IncludedConsignmentItem>
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    <FreeOnBoardValueAmount currencyId="USD">16914.38</FreeOnBoardValueAmount>
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    </Identification>
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  <-AtBorderTransportMovement>
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      <Name>OZ762</Name>
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      <Name>INCHON</Name>
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    <IdentificationId schemeId="ISO 3166" schemeAgencyId="5" schemeVersionId="A2">KR</IdentificationId>
    <Name>REPUBLIC OF KOREA</Name>
  </FinalDestinationCountry>
  <-rsm:TransportContractConsignment>
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```




MESSAGE IMPLEMENTATION GUIDE

WHAT TO - EXCHANGE ELECTRONIC CERTIFICATE OF ORIGIN



Electronic Form Certificate of Origin (COO)													
XML Tag Name (including level)					Form D (update)		Guideline	Form AK		Guideline	Form E		Guideline
0	1	2	3	4	5	Cardinality		Format	Cardinality		Format	Cardinality	
			IncludedConsignmentItem			1..10000		1..10000		Information pertaining to the goods being transported, may repeat 1-10,000 times	1..1000		Information pertaining to the goods being transported, may repeat 1-10,000 times
			SequenceNumeric	Item Number		1..1	n..5	1..1	n..5	Item Number (N5) - Sequence number differentiating a specific goods item within a consignment.	1..1	n..4	Item Number - Sequence number differentiating a specific goods item within a consignment.
			ImportTypeCode	HS Code / Tariff Code		1..1	an..10	1..1	an..10	HS Code of importing country - may be 8 digits or 10 digits depending on the importing country requirements. This is the code specifying a type of goods for Customs, transport or statistical purposes (generic term).	1..1	an..6	HS Code of importing country - may be 8 digits or 10 digits depending on the importing country requirements. This is the code specifying a type of goods for Customs, transport or statistical purposes (generic term).
			FreeOnBoardValueAmount	Value (FOB)		0..1	n..13.n3	0..1	n..27.n5	Value (FOB) - Monetary amount that has to be or has been paid as calculated under the applicable trade delivery.	0..1	n..13.n3	Value (FOB) - Monetary amount that has to be or has been paid as calculated under the applicable trade delivery.
				currencyId	Currency code (FOB Value)	1..1	a3	1..1	a3	Currency code - as defined by ISO 4217 (3 char code), UN/ECE Rec. No. 9. Currency should be specified if FOB value is specified See Appendix A.7	0..1	a3	Currency code - as defined by ISO 4217 (3 char code), UN/ECE Rec. No. 9. Currency should be specified if FOB value is specified - see Appendix A.7.
			GrossWeightMeasure	Gross Weight (or other quantity)		0..1	n..13.n3	0..1	n..18.n4	Gross weight - Weight(mass) of goods item including packaging but excluding the carrier's equipment. Either gross weight or quantity must be filled in	1..1	n..13.n3	Gross weight - Weight(mass) of goods item including packaging equipment. Either gross weight or quantity must be filled in
				unitCode	Unit of measurement (Gross weight)	1..1	an..3	1..1	an..3	Code for Unit of measurement (UOM) of the gross weight - according to UNECE UOM code (UN Rec.No.20). Code should be specified if weight is specified See Appendix A.8	1..1	an..3	Code for Unit of measurement (UOM) of the gross weight - based on a subset of UNECE Rec. No. 20. Code should be specified if weight is specified - see Appendix A.8. See Appendix E.2
			SpecifiedQuantity	Quantity of Goods Item		0..1	n..13.n3	0..1	n..18.n4	Quantity of goods item - Either gross weight or quantity must be filled in	1..1	n..13.n3	Number of individual items packaged in such a way that they can do the packing.
				unitCode	Unit of measurement (quantity)	1..1	an..3	1..1	an..3	Code for Unit of measurement (UOM) - according to UNECE UOM code (UN Rec.No.20). Code should be specified if weight is specified See Appendix A.9	1..1	an..3	Code for Unit of measurement (UOM) - based on the full UNECE Rec. No. 20. Code should be specified if quantity is specified - see Appendix A.9 See Appendix E.2
			GoodsCargoDescription			1..1		1..1			1..1		
				Identification	Description of Goods	1..10	an..512	1..10	an..3000	Goods description - Plain language description of the nature of a goods item sufficient to identify it for Customs, statistical or transport purposes.	1..10	an..512	Goods description - Plain language description of the nature of a goods item sufficient to identify it for Customs, statistical or transport purposes.
			PhysicalShippingMarks			1..1		1..1			1..1		
				Description	Mark and Numbers on Packages	1..12	an..512	1..12	an..900	Free form description of the marks and numbers on a transport unit or package. If blank, should be set to "No Marks" In the situation where the number and type of the packages, gross weight or shipping marks are consolidated for the whole consignment instead of by individual consignment items, the first occurrence of the IncludedConsignmentItem (tag 950) for the Description of the Physical Shipping Marks may contain a free form description of the details of the packages, total weight and / or shipping marks as they describe the whole consignment. To help identify this to the importing customs, the free form descriptions. The following provides an example: "Total Gross Weight=100 Tonnes; Packages for the whole	1..1	an..1024	Free form description of the marks and numbers on a transport unit or package. If blank, should be set to "No Marks" In the situation where the number and type of the packages, gross weight or shipping marks are consolidated for the whole consignment instead of by individual consignment items, the first occurrence of the IncludedConsignmentItem (tag 950) for the Shipping Marks may contain a free form description of the details and / or shipping marks as they describe the whole consignment importing customs, the free form descriptions. The following provides an example: "Total Gross Weight=100 Tonnes; Packages for the whole Consignments; Shipping Marks on Packages - "Order 12345 for ABC C - Form E : increase length of the data element from 512 to 1024
			InvoiceAssociatedDocument			1..1		0..1		Information about related invoice documents, may repeat 1 time	1..1		Information about related invoice documents, may repeat 1 time



MESSAGE IMPLEMENTATION GUIDE

WHAT TO - EXCHANGE ELECTRONIC CERTIFICATE OF ORIGIN



Electronic Form Certificate of Origin (COO)																			
Form D (update)					Form AK					Form E									
XML Tag Name (including level)					Guideline					Guideline					Guideline				
0	1	2	3	4	5	Cardinality	Format	Cardinality	Format	Cardinality	Format	Cardinality	Format	Cardinality	Format				
	IncludedConsignmentItem					1..10000		1..10000		1..1000		1..1000		1..1000					
	SequenceNumeric	Item Number				1..1	n..5	1..1	n..5	1..1	n..4	1..1	n..4	1..1	n..4				
	ImportTypeCode	HS Code / Tariff Code				1..1	an..10	1..1	an..10	1..1	an..6	1..1	an..6	1..1	an..6				
	FreeOnBoardValueAmount	Value (FOB)				0..1	n..13.n3	0..1	n..27.n5	0..1	n..13.n3	0..1	n..13.n3	0..1	n..13.n3				
	currencyId	Currency code (FOB Value)				1..1	an..3	1..1	an..3	0..1	an..3	0..1	an..3	0..1	an..3				
	GrossWeightMeasure	Gross Weight (or other quantity)				0..1	n..13.n3	0..1	n..18.n4	1..1	n..13.n3	1..1	n..13.n3	1..1	n..13.n3				
	unitCode	Unit of measurement (Gross weight)				1..1	an..3	1..1	an..3	1..1	an..3	1..1	an..3	1..1	an..3				
	SpecifiedQuantity	Quantity of Goods Item				0..1	n..13.n3	0..1	n..18.n4	1..1	n..13.n3	1..1	n..13.n3	1..1	n..13.n3				
	unitCode	Unit of measurement (quantity)				1..1	an..3	1..1	an..3	1..1	an..3	1..1	an..3	1..1	an..3				
	GoodsCargoDescription					1..1		1..1		1..1		1..1		1..1					
	Identification	Description of Goods				1..10	an..512	1..10	an..3000	1..10	an..512	1..10	an..512	1..10	an..512				
	PhysicalShippingMarks					1..1		1..1		1..1		1..1		1..1					
	Description	Mark and Numbers on Packages				1..12	an..512	1..12	an..900	1..1	an..1024	1..1	an..1024	1..1	an..1024				



MESSAGE IMPLEMENTATION GUIDE

WHAT TO - EXCHANGE ELECTRONIC CERTIFICATE OF ORIGIN

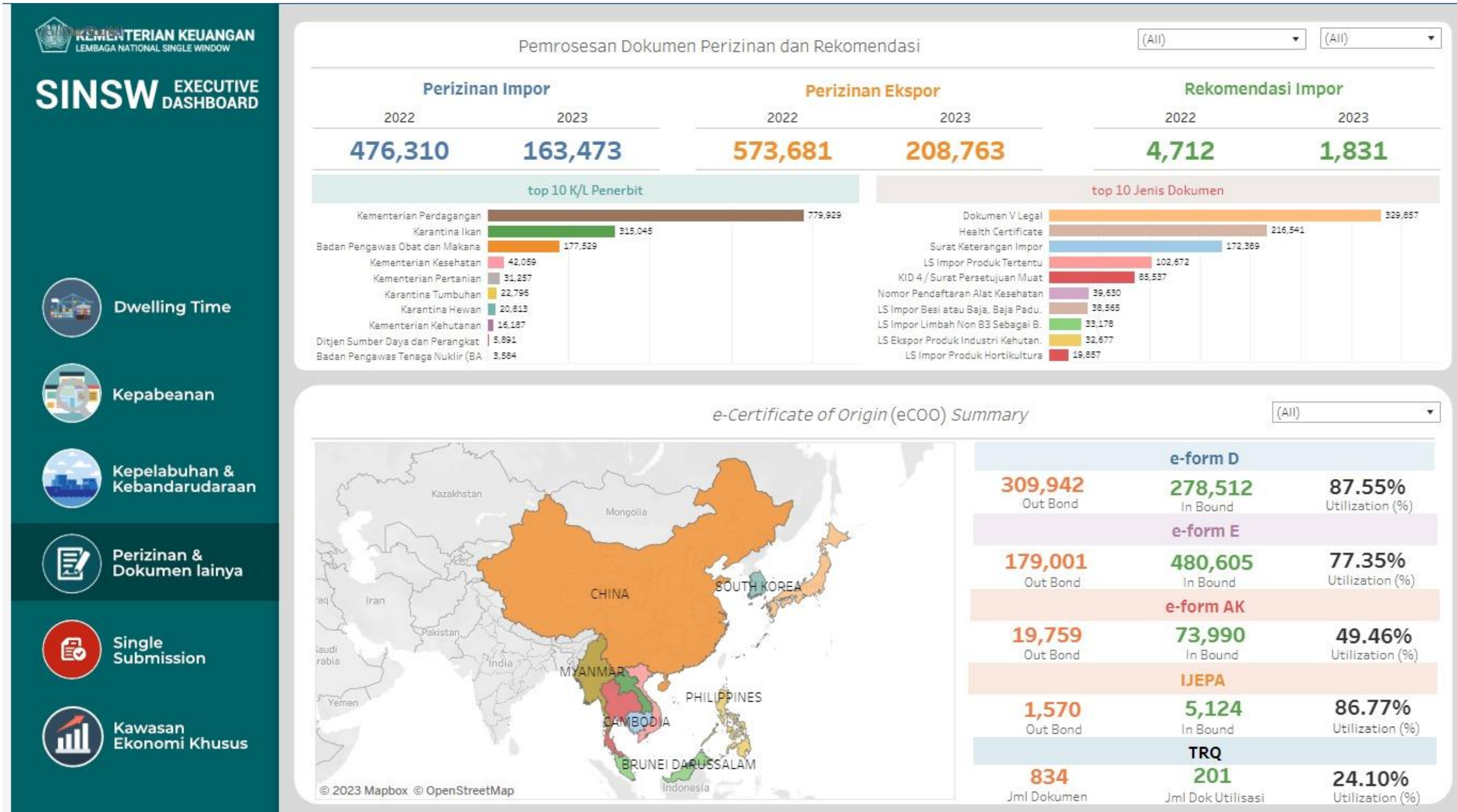


LNSW
LEMBAGA NATIONAL SINGLE WINDOW

XML Tag Name (including level)					Form D (update)			Form AK			Form E				
0	1	2	3	4	5	Description	Cardinality	Format	Guideline	Cardinality	Format	Guideline	Cardinality	Format	Guideline
			IncludedConsignmentItem				1..10000		Information pertaining to the goods being transported, may repeat 1-10,000 times	1..10000		Information pertaining to the goods being transported, may repeat 1-10,000 times	1..1000		Information pertaining to the goods being transported, may rep
			SequenceNumeric	Item Number		Item Number	1..1	n..5	Item Number (N5) - Sequence number differentiating a specific goods item within a consignment.	1..1	n..5	Item Number - Sequence number differentiating a specific good item within a consignment.	1..1	n..4	Item Number - Sequence number differentiating a specific good
			ImportTypeCode	HS Code / Tariff Code		HS Code of importing country - may be 8 digits or 10 digits depending on the importing country requirements. This is the code specifying a type of goods for Customs, transport or statistical purposes (generic term).	1..1	an..10	HS Code of importing country - may be 8 digits or 10 digits depending on the importing country requirements. This is the code specifying a type of goods for Customs, transport or statistical purposes (generic term).	1..1	an..10	HS Code of importing country - may be 8 digits or 10 digits depending on the importing country requirements. This is the code specifying a type of goods for Customs, transport or statistical purposes (generic term).	1..1	an..6	HS Code of importing country - may be 8 digits or 10 digits depe requirements. This is the code specifying a type of goods for Cu purposes (generic term).
			FreeOnBoardValueAmount	Value (FOB)		Value (FOB) - Monetary amount that has to be or has been paid as calculated under the applicable trade delivery.	0..1	n..13.n3	Value (FOB) - Monetary amount that has to be or has been paid as calculated under the applicable trade delivery.	0..1	n..27.n5	Value (FOB) - Monetary amount that has to be or has been paid as calculated under the applicable trade delivery.	0..1	n..13.n3	Value (FOB) - Monetary amount that has to be or has been paic applicable trade delivery.
			currencyId	Currency code (FOB Value)		Currency code - as defined by ISO 4217 (3 char code), UN/ECE Rec. No. 9. Currency should be specified if FOB value is specified	1..1	an..3	Currency code - as defined by ISO 4217 (3 char code), UN/ECE Rec. No. 9. Currency should be specified if FOB value is specified	1..1	an..3	Currency code - as defined by ISO 4217 (3 char code), UN/ECE Rec. No. 9. Currency should be specified if FOB value is specified	0..1	an..3	Currency code - as defined by ISO 4217 (3 char code), UN/ECE specified if FOB value is specified - see Appendix A.7.
			GrossWeightMeasure	Gross Weight (or other quantity)		Gross weight - Weight(mass) of goods item including packaging but excluding the carrier's equipment. Either gross weight or quantity must be filled in	0..1	n..13.n3	Gross weight - Weight(mass) of goods item including packaging but excluding the carrier's equipment. Either gross weight or quantity must be filled in	0..1	n..18.n4	Gross weight - Weight(mass) of goods item including packaging but excluding the carrier's equipment. Either gross weight or quantity must be filled in	1..1	n..13.n3	Gross weight - Weight(mass) of goods item including packaging equipment. Either gross weight or quantity must be filled in
			unitCode	Unit of measurement (Gross weight)		Code for Unit of measurement (UOM) of the gross weight - according to UNECE UOM code (UN Rec.No.20). Code should be specified if weight is specified	1..1	an..3	Code for Unit of measurement (UOM) of the gross weight - according to UNECE UOM code (UN Rec.No.20). Code should be specified if weight is specified	1..1	an..3	Code for Unit of measurement (UOM) of the gross weight - based on a subset of UNECE Rec. No. 20. Code should be specified if weight is specified - see Appendix A.8.	1..1	an..3	Code for Unit of measurement (UOM) of the gross weight
			SpecifiedQuantity	Quantity of Goods Item		Quantity of goods item - Either gross weight or quantity must be filled in	0..1	n..13.n3	Quantity of goods item - Either gross weight or quantity must be filled in	0..1	n..18.n4	Quantity of goods item - Either gross weight or quantity must be filled in	1..1	n..13.n3	Number of individual items packaged in such a way that they ca along the packing.
			unitCode	Unit of measurement (quantity)		Code for Unit of measurement (UOM) - according to UNECE UOM code (UN Rec.No.20). Code should be specified if weight is specified	1..1	an..3	Code for Unit of measurement (UOM) - according to UNECE UOM code (UN Rec.No.20). Code should be specified if weight is specified	1..1	an..3	Code for Unit of measurement (UOM) - based on the full UNECE Rec. No. 20. Code should be specified if quantity is specified - see Appendix A.9	1..1	an..3	Code for Unit of measurement (UOM) - based on the full UNECE specified if quantity is specified
			GoodsCargoDescription	Description of Goods		Goods description - Plain language description of the nature of a goods item sufficient to identify it for Customs, statistical or transport purposes.	1..10	an..512	Goods description - Plain language description of the nature of a goods item sufficient to identify it for Customs, statistical or transport purposes.	1..10	an..3000	Goods description - Plain language description of the nature of a goods item sufficient to identify it for Customs, statistical or transport purposes.	1..10	an..512	Goods description - Plain language description of the nature of a identify it for Customs, statistical or transport purposes.
			PhysicalShippingMarks	Mark and Numbers on Packages		Free form description of the marks and numbers on a transport unit or package. If blank, should be set to "No Marks"	1..12	an..512	Free form description of the marks and numbers on a transport unit or package. If blank, should be set to "No Marks"	1..12	an..900	Free form description of the marks and numbers on a transport unit or package. If blank, should be set to "No Marks"	1..1	an..1024	Free form description of the marks and numbers on a transport e set to "No Marks"
						In the situation where the number and type of the packages, gross weight or shipping marks are consolidated for the whole consignment instead of by individual consignment items, the first occurrence of the IncludedConsignmentItem (tag 950) for the Description of the Physical Shipping Marks may contain a free form description of the details of the packages, total weight and / or shipping marks as they describe the whole consignment. To help identify this to the importing customs, the free form descriptions. The following provides an example: "Total Gross Weight=100 Tonnes; Packages for the whole			In the situation where the number and type of the packages, gross weight or shipping marks are consolidated for the whole consignment instead of by individual consignment items, the first occurrence of the IncludedConsignmentItem (tag 950) for the Description of the Physical Shipping Marks may contain a free form description of the details of the packages, total weight and / or shipping marks as they describe the whole consignment. To help identify this to the importing customs, the free form descriptions. The following provides an example: "Total Gross Weight=100 Tonnes; Packages for the whole			In the situation where the number and type of the packages, gross weight or shipping marks are consolidated for the whole consignment instead of by individual consignment items, the first occurrence of the IncludedConsignmentItem (tag 950) for the Shipping Marks may contain a free form description of the details and / or shipping marks as they describe the whole consignment importing customs, the free form descriptions. The following provides an example: "Total Gross Weight=100 Tonnes; Packages for the whole Cons bundles; Shipping Marks on Packages - "Order 12345 for ABC - Form E : increase length of the data element from 512 to 1024			



OPPORTUNITIES ELECTRONIC CERTIFICATE OF ORIGIN DATA EXCHANGE





Overview ELECTRONIC DATA EXCHANGE



FOUR KEY COMPONENTS OF EDI



WHAT To Exchange

**MESSAGE
IMPLEMENTATION
GUIDE**

DATA STANDARDIZATION

Standardized and
Compatible data format
i.e. XML, JSON, EDI Format,
PDF

DATA VALIDATION & MAPPING

Properly validated and
mapped data to match
format and requirements in
both Systems (Sender and
Receiver)
i.e. MIG, XSD, JSD



HOW To Exchange

**BUSINESS
PROCESS
SPESIFICATION**

TECHNOLOGY

The best suits method
or technology for
electronic data
exchange
i.e. Email, FTP, EDI,
APIs, WebServices

TRANSMISSION & ACKNOWLEDGMENT

Establish mechanism to
confirm and acknowledge
data's integrity during
completion of successful send,
receive, process and store the
data. i.e. MIG, XSD, JSD, ACK

CONNECTION & DATA SECURITY

Security measures to protect
data during transmission
i.e. Secure connection,
Encryption, ACL,
Authentication

ERROR HANDLING

Establish error-handling
procedures during
transmission
i.e. validation errors, system
failures, network disruptions

LOGGING & AUDITING

Maintaining logs and records
of transmissions for auditing,
traceability and compliance
purpose.
i.e. Logs, Transaction's History



Thank you.