eCertificate of Origin Data Exchange

Indonesia & Korea

June 2025 – Fachry R. Oemar



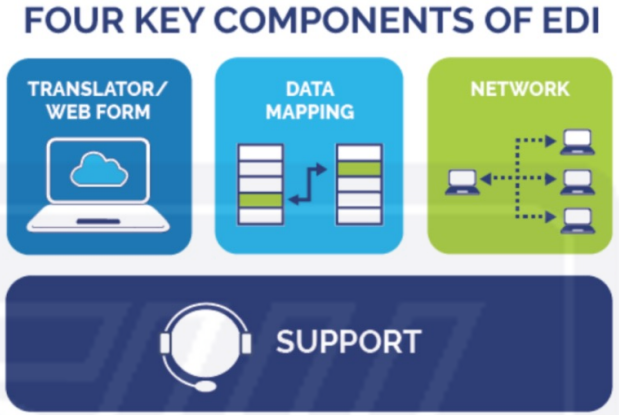
OUTLINE

- *Overview – Electronic Data Exchange*
- *Electronic Certificate of Origin Data Exchange (Indonesia & Korea)*

ELECTRONIC DATA EXCHANGE OVERVIEW







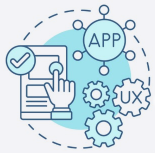
WHAT

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

INDONESIA NATIONAL SINGLE WINDOW

WHAT TO – EXCHANGE ELECTRONIC CERTIFICATE OF ORIGIN
MESSAGE IMPLEMENTATION GUIDE

Form AK



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)

FORM AK
Issued in INDONESIA
(Country)
See Notes Overleaf

2. Goods consigned to (Consignee's name, address, country)
LG INNOTEK CO.,LTD
26, HANAMSANDAN 5BEON-RO,
GWANGSAN-GU, GWANGJU, 62229, KOREA
NAME : KIM SEUNGJI
PHONE : 82-62-950-1988

3. Means of transport and route (as far as known)
Departure Date: OCTOBER 9, 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 Authorised 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	N/M	3 PALLETS= 34 BOX OF BRACKET 3PRB00178B 100,800 PCS 3PRB00333A 100,800 PCS 3PRB00334A 100,320 PCS HS: 8529.90	RVC 100 %	525.00 KGM USD 16,914.38	OSI-365/10/2018 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
REPUBLIC OF KOREA
(importing Country)
PT. OHSUNG ELECTRONICS INDONESIA
BEKASI, DECEMBER 9, 2018
Place and date, signature of authorised 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

Page 1 / 1

Form AK Serial : AK - FAR - 0127

E-Form AK :

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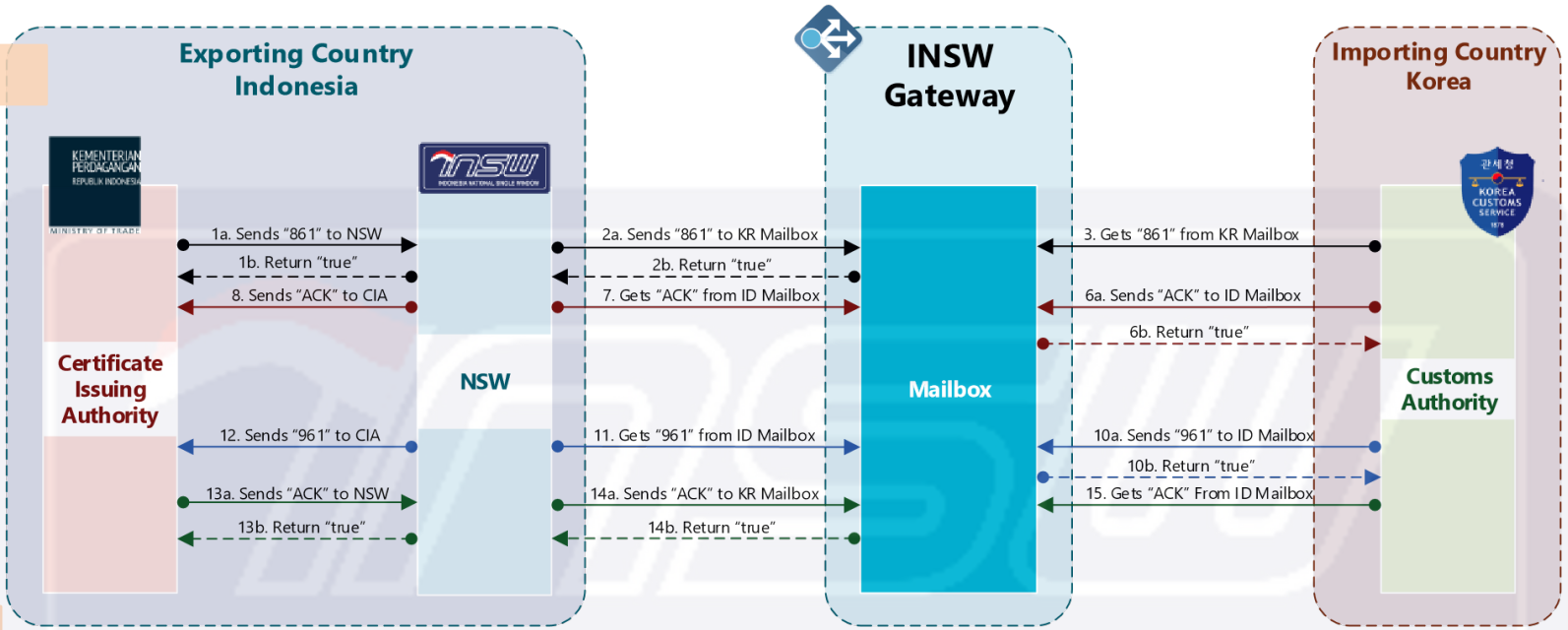
HOW TO – EXCHANGE ELECTRONIC CERTIFICATE OF ORIGIN
COMMUNICATION ARCHITECTURE

Message Flow



Data Elements

Certificate Of Origin:

1. Certificate Number
2. Issuing Body
3. Issue Date
4. Exporter's Name
5. Exporter's Address
6. Consignee's Name
7. Consignee's Address
8. Producer's Name
9. Producer's Address
10. Departure Date
11. Carrier Number
12. Port Of Discharge
13. Number & Date Of Invoice
14. Remarks
15. Item Number
16. Marks and Number on Package
17. Description Of Goods
18. HS Code (Six Digit Code)
19. Origin Criterion
20. Quantity
21. Quantity Unit

Feedback Information:

1. Certificate Number
2. Grant or Denial Code
3. Denial Detail
4. Customs Code
5. Preferential Quantity (If Granted)
6. Quantity Unit

Communication Method

Communication Method	Proposed By Korea	Proposed By Indonesia	Alternatives
Type	Web Service	Web Service	
Network	Public Internet	Public Internet	
Channel Encryption	HTTPS with TLS 1.0	HTTPS with TLS 1.0	Using HTTPS SSLv3
Certificate	X.509v3 PKI	X.509v3 PKI	
Electronic Signature	Web Service	Web Service	
Encryption	XML encryption SHA-2, 2048-bit RSA Key	XML encryption SHA-2, 2048-bit RSA Key	
SOAP	WSS v1.0	WSS v1.0	

TAKE OUT POINT
CROSS BORDER ELECTRONIC DATA EXCHANGE

WHAT

To Exchange

MESSAGE *IMPLEMENTATION GUIDE*

Electronic Form Certificate of Origin (COO)

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 pretaining to the goods being transported, may repeat 1-10,000 times	1..10000		Information pretaining to the goods being transported, may repeat 1-10,000 times	1..1000		Information pretaining to the goods being transported, may rep
		SequenceNumeric				Item Number	1..1	n..5	Item Number (NS) - Sequence number differentiating a specific goods item within a consignment.	1..1	n..5	Item Number - Sequence number differentiating a specific goods item within a consignment.	1..1	n..4	Item Number - Sequence number differentiating a specific good
		ImportTypeCode				HS Code / Tariff Code	1..1	an..10	HS Code of importing country - may be 8 digits or 10 digits depending on the importing coutnry 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 coutnry 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)	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 pai applicable trade delivery.
			currencyId			Currency code (FOB Value)	1..1	a3	Currency code - as defdined by ISO 4217 (3 char code), UN/ECE Rec. No. 9. Currency should be specified if FOB value is specified See Appendix A.7	1..1	a3	Currency code - as defdined 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 defdined by ISO 4217 (3 char code), UN/ECE specified if FOB value is specified - see Appendix A.7.
		GrossWeightMeasure				Gross Weight (or other quantity)	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)	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.	1..1	an..3	Code for Unit of measurement (UOM) of the gross weight See Appendix E.2
		SpecifiedQuantity				Quantity of Goods Item	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 c doing the packing.
			unitCode			Unit of measurement (quantity)	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	1..1	an..3	Code for Unit of measurement (UOM) - based on the full UNEC specified if quantity is specified See Appendix E.2
		GoodsCargoDescription					1..1			1..1			1..1		
			Identification			Description of Goods	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					1..1			1..1			1..1		
			Description			Mark and Numbers on Packages	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" 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..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 be set to "No Marks" In the situation where the number and type of the packages, ge are consolidated for the whole consignment instead of by indivi first occurrence of the IncludedConsignmentItem (tag 950) for th Shipping Marks may contain a free form description of the deta and / or shipping marks as they describe the whole consignmen importing customs, the free form descriptions. The following pr "Total Gross Weight=100 Tonnes; Packages for the whole Cons bundles; Shipping Marks on Packages - "Order 12345 for ABC C - Form E - increase length of the data element from 512 to 1024

ANNEX II Data Elements to be Exchanged

Information package: https://datamodel.wcoomd.org/#/infopack/scope/national/bceed8417e

Dataset: https://datamodel.wcoomd.org/#/mydataset/code/mapping/e448a5c010

WCO ID	Name	Definition	IWG USE	NEW	Path
D011	Document issuing date/time	Date and time the document was issued and, when appropriate, signed or otherwise authenticated.	X		LPCO/D011
D013	Document name code	Code specifying the name of a document.	X		LPCO/D013
61B	Authentication	Details related to the authentication of a document.	X		LPCO/Authentication
104	Authentication statement	Statement providing proof that the document has been authenticated.	X		LPCO/Authentication/104
539	Document authentication location name	Name of a location where a document was signed or otherwise authenticated.	X		LPCO/Authentication/539
12A	Authenticator	Details related to an authenticating party.	X		LPCO/Authentication/Authenticator
R007	Authenticator name	Name of the party which certifies that a document is authentic.	X		LPCO/Authentication/Authenticator/R007
03A	Additional Information	Details related to the special request from declarant to government to take or not to take action.	X		LPCO/Additionall nformation
369	Additional statement type	Code specifying the subject of the additional statement.	X		LPCO/Additionall nformation/369

HOW

To Exchange

BUSINESS *PROCESS SPESIFICATION*

INTERNATIONAL eCOO DATA EXCHANGE

Business Process Specification

Version No. 1.3

STANDARIZED

- Sending eCoO
- Returning Customs Response
- Cancellation
- Querying
- Tracking
- Contingency Plan

TBD

- Encryption**
- Digital Signature**

Thank You

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