



Electronic Data Exchange *Requirement and Specification*

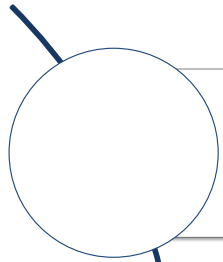
(Structured Data)

February 2025 – Fachry R. Oemar

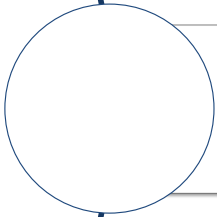




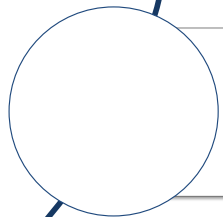
OUTLINE



Overview – Electronic Data Exchange



WHAT To Exchange – Electronic Message Payload (Structured Data)



HOW To Exchange – Business Process Specification



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

FOUR KEY COMPONENTS OF EDI



HOW

To Exchange

BUSINESS PROCESS SPECIFICATION

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

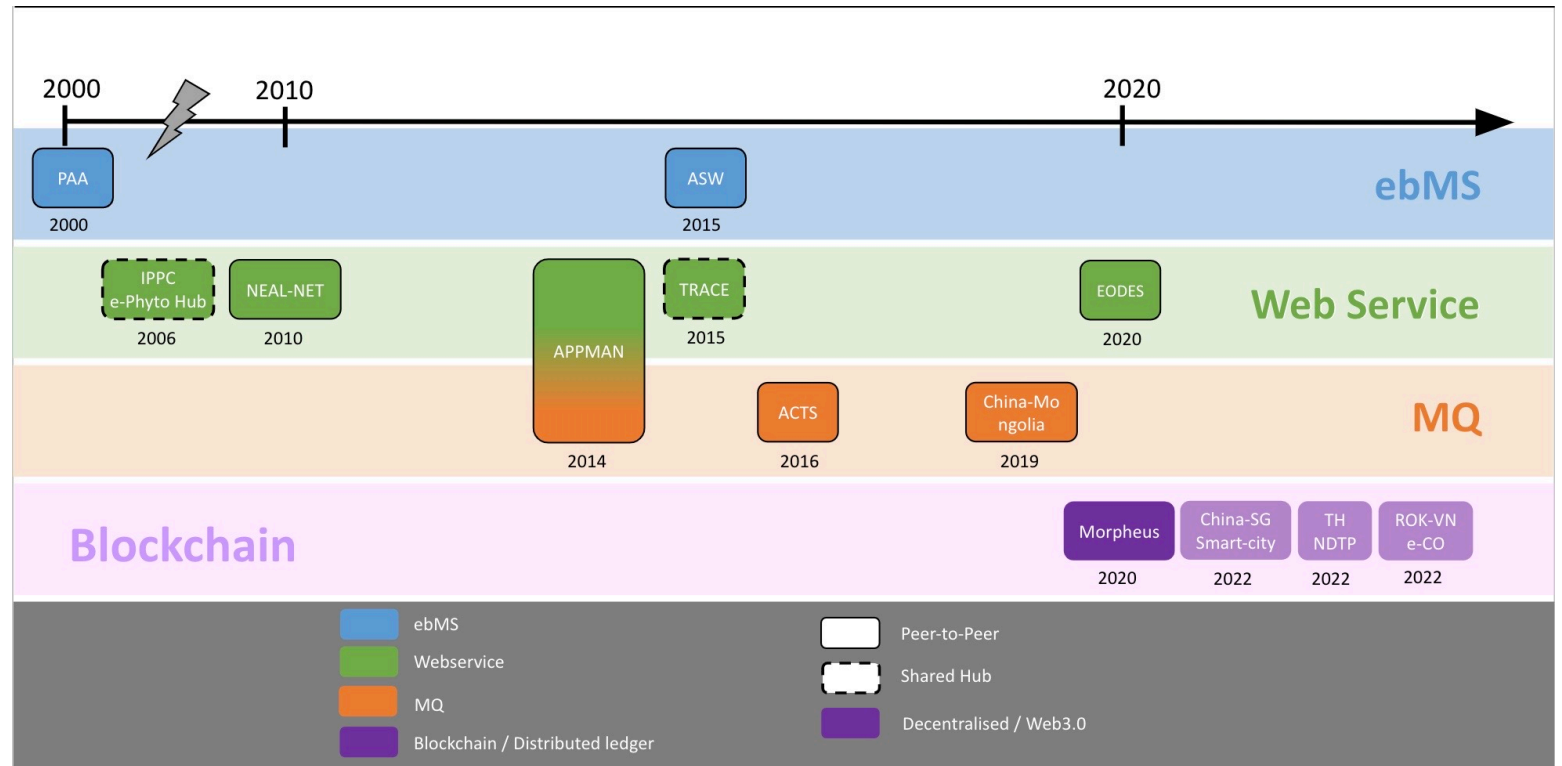
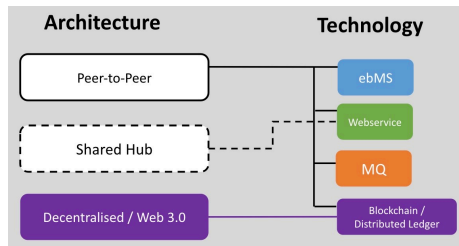
LOGGING & AUDITING

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



ELECTRONIC DATA EXCHANGE TECHNOLOGY EVOLUTION

Cross Border Trade Platform Evolution – the last 2 Decades

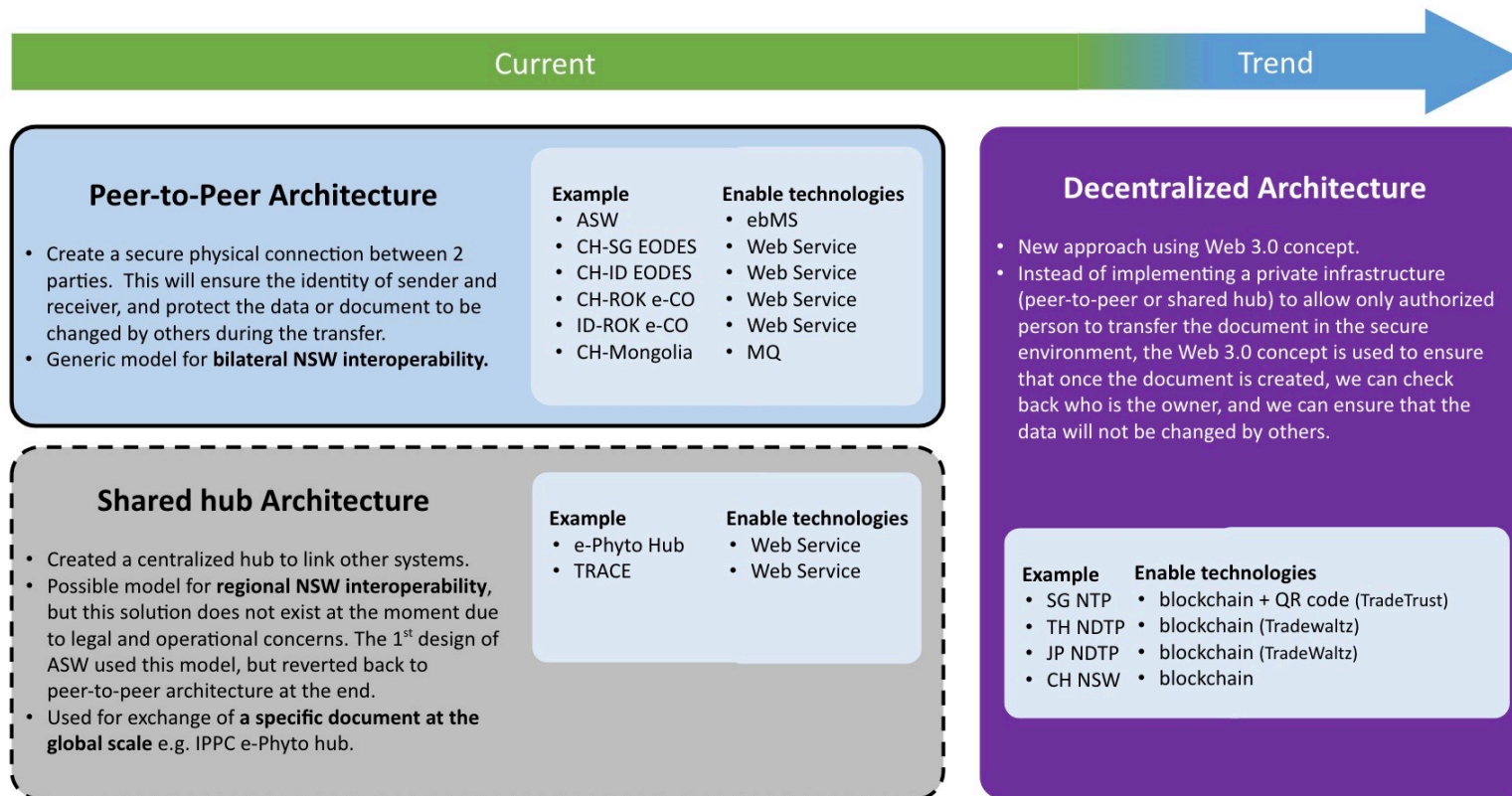


Reference :
Initial Analysis for ASW Technical Enhancement, 2023



ELECTRONIC DATA EXCHANGE TECHNOLOGY EVOLUTION

Cross Border Trade Platform Evolution – the last 2 Decades

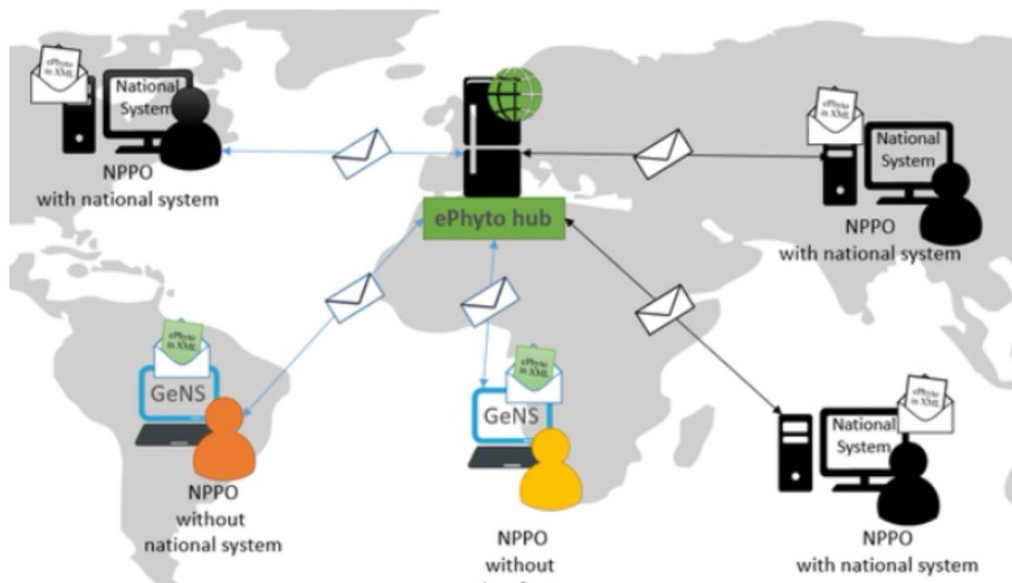


Reference :
Initial Analysis for ASW Technical Enhancement, 2023

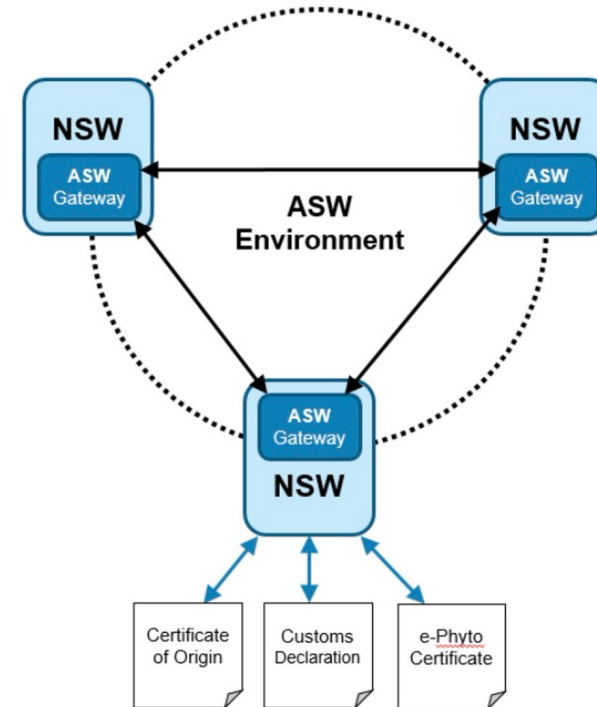


ELECTRONIC DATA EXCHANGE TECHNOLOGY EVOLUTION

Cross Border Trade Platform Evolution – the last 2 Decades



**Share Hub
Architecture**



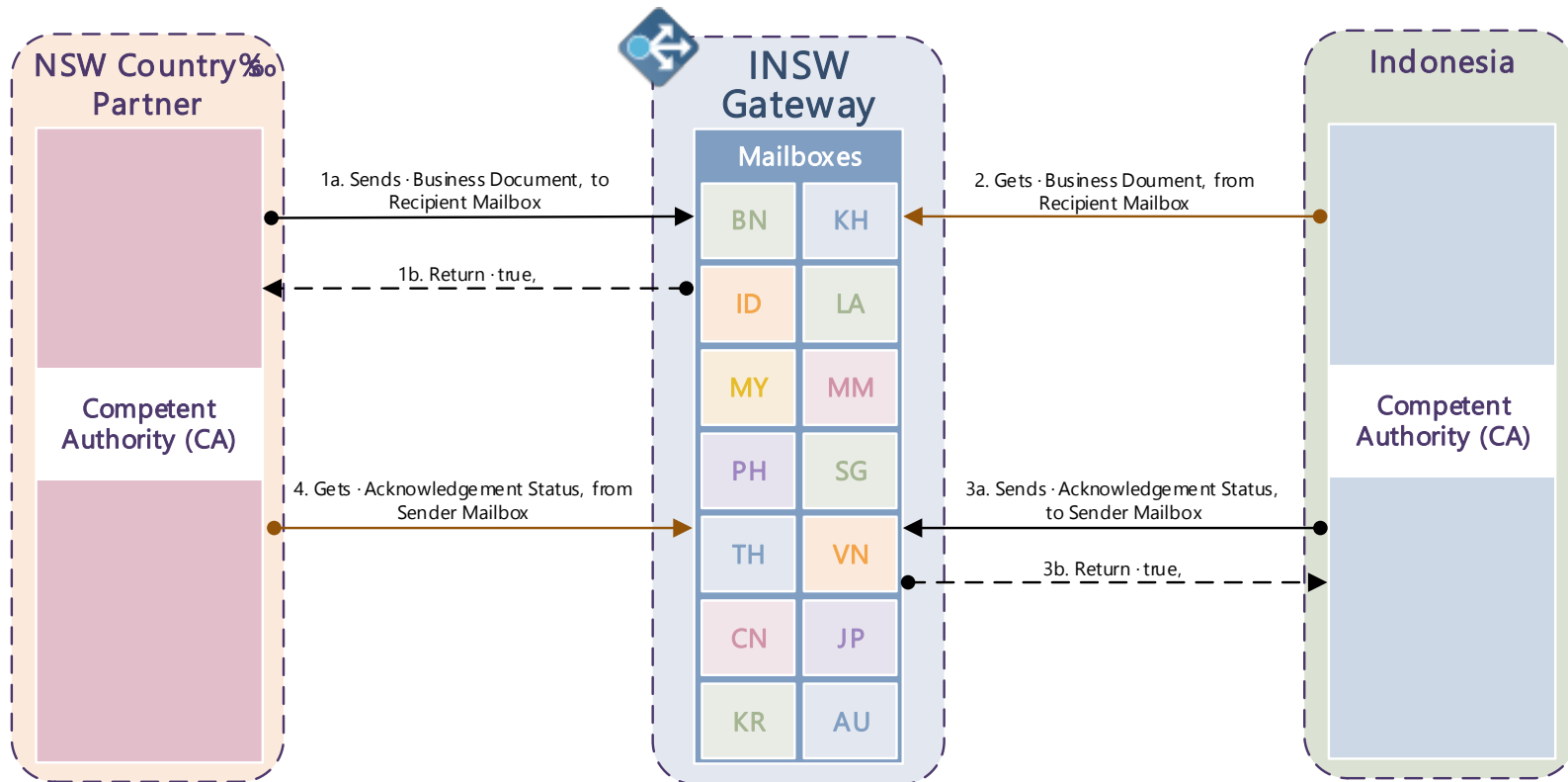
**Peer to Peer
Architecture**

Reference :
Initial Analysis for ASW Technical Enhancement, 2023



ELECTRONIC DATA EXCHANGE TECHNOLOGY EVOLUTION

INSW Gateway

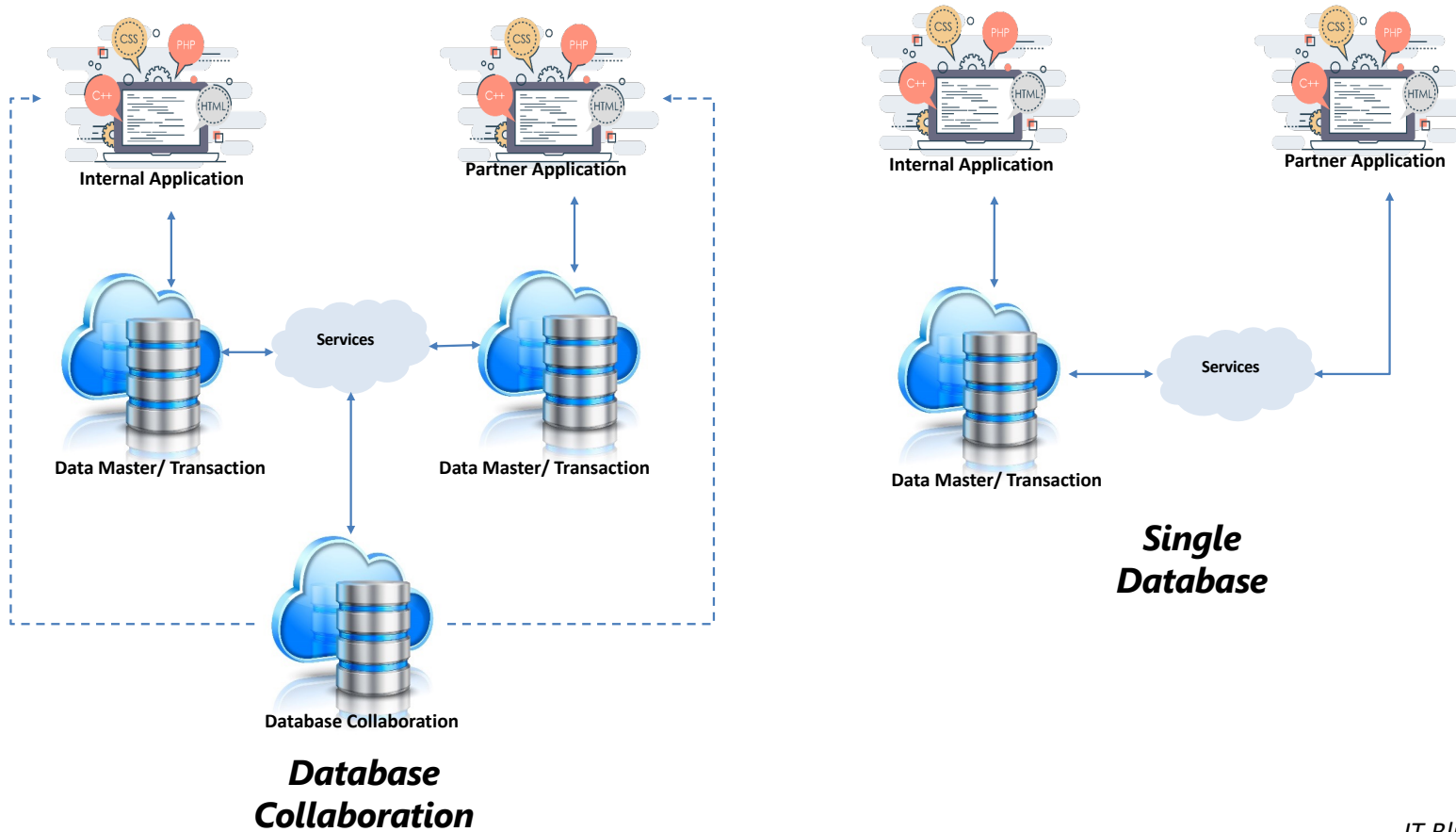


Reference :
Indonesia National Single Window Gateway



ELECTRONIC DATA EXCHANGE TECHNOLOGY EVOLUTION

Data Integration Approach



Reference :
IT Blue Print of INSW, 2023



WHAT TO EXCHANGE ELECTRONIC MESSAGE PAYLOAD

Hardcopy CoO

Original

772219464

| | | | |
|--|--------------------------------|---|--|
| 1. Goods consigned from (Exporter's business name, address and city) PT OH SUNG ELECTRONICS INDONESIA JL. SELAYAR BLOK D7 KAWASAN INDUSTRI MM2100, CIKARANG BARAT BEKASI, JAWA BARAT, INDONESIA | | Reference No. 0036744/BK1/2018 ASEAN-KOREA FREE TRADE AREA PROVISIONAL DRAFT CERTIFICATE OF ORIGIN (Controlled Document and Certificate) | |
| 2. Goods consigned to (Consignee's name, address, country) LG ELECTRIC CO., LTD 26, HANAMSANDAN 5BEON-RO, GWANGJU, 62229, KOREA NAME: YUM BULLU PHONE: 82-62-950-1988 | | FORM AK Issued in INDONESIA (Country) See Notes: Original | |
| 3. Mode of transport and route (as for sea/air) Departure Date OCTOBER 5, 2018 Vessel's name/aircraft etc. QZ782 Port of Discharge INCHEON | | 4. For ORIGIN Use <input type="checkbox"/> Herein the Treatment Shown Under ASEAN-Korea Free Trade Area Pre-shipment Form <input type="checkbox"/> Herein the Treatment Shown Under ASEAN-Korea Free Trade Area Pre-shipment Form (Please state reason) | |
| 5. Item number | 6. Name and number of packages | 7. Number and type of packages, description of goods including quantity where appropriate and HS number of the importing country | 8. Origin criteria (see Notes: Overview) |
| 1 | NM | 3 PALLETS= 34 BOX OF BRACKET SPR390 788 100.000 PCS SPR390333A 100.000 PCS SPR390333A 100.000 PCS HS: 8539.30 | RVC 100 % 025.50 KGM USD 18.014.38 001 9851 9211 9 OCTOBER 5, 2018 |
| 10. Number and date of invoice | | 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) | |
| 12. Declaration: I/We hereby certify, on the basis of records carried out, that the declaration by the exporter is correct: ISSUED RETROACTIVELY ISSUING OFFICE IN KABUPATEN BEKASI BEKASI, DECEMBER 5, 2018 Place and date, signature and stamp of certifying authority | | 13. <input type="checkbox"/> Third Country Importing <input type="checkbox"/> Exhibition <input type="checkbox"/> Back-to-Back O/O | |

Form AK Serial : AK - FAR - 0127

Electronic CoO

This XML file does not appear to have any style information associated with it. The document tree is shown below.

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        26, HANAMSANDAN 5BEON-RO, GWANGSAN-GU, GWANGJU, 62229, KOREA
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  <SpecifiedAddress>
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      JL. SELAYAR BLOK D7 KAWASAN INDUSTRI MM2100, CIKARANG BARAT BEKASI, J
    </LineOne>
    <LineTwo>AWA BARAT, INDONESIA</LineTwo>
  </SpecifiedAddress>
  <ExportationDateTime>
  </IncludedConsignmentItem>
  <SequenceNumeric>1</SequenceNumeric>
  <ImportTypeCode>852990</ImportTypeCode>
  <FreeOnBoardValueAmount currencyId="USD">16914.38</FreeOnBoardValueAmount>
  <GrossWeightMeasure unitCode="KGM">523.00</GrossWeightMeasure>
  <SpecifiedQuantity unitCode="C62">301920.00</SpecifiedQuantity>
  <GoodsCargoDescription>
    <IdentificationId>
      3 PALLETS= 34 BOX OF BRACKET3PRB00178B 100,800 PCS3PRB00333A 100,800 PCS3PRB00334A 100,320 PCS
    </IdentificationId>
    <GoodsCargoDescription>
      <Description>NM</Description>
    </PhysicalShippingMarks>
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  </FinalDestinationCountry>
  </rs:TransportContractConsignment>
</rs:UNeDocsShipBIM>
```



www.insw.go.id



LNSWKemenkeu



officialinsw



Call Center
150-679



info@insw.go.id



officialinsw



Lembaga Nasional Single Window



WHAT TO EXCHANGE ELECTRONIC MESSAGE PAYLOAD

Electronic Form Certificate of Origin (COO)

| XML Tag Name (including level) | | | | | | Form D (update) | | | Form AK | | | |
|--------------------------------|---|-------------------------|------------|---|---|-----------------|----------|---|-------------|----------|-----------|---|
| 0 | 1 | 2 | 3 | 4 | 5 | Cardinality | Format | Guideline | Cardinality | Format | Guideline | |
| | | StreetName | | | | | | | | | | |
| | | 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 |
| | | SequenceNumeric | | | | 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 goods item within a consignment. |
| | | ImportTypeCode | | | | 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). |
| | | FreeOnBoardValueAmount | | | | 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. |
| | | | currencyId | | | 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 | 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. |
| | | GrossWeightMeasure | | | | 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 |
| | | | unitCode | | | 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. |
| | | SpecifiedQuantity | | | | 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 |
| | | | unitCode | | | 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 |



HOW TO EXCHANGE BUSINESS PROCESS SPECIFICATION

ATIGA eForm D

ATIGA e-Form D

Sending eCoO
Returning Customs Response

Cancellation

Querying

Tracking**

Encryption**

Digital Signature**

Contingency Plan

eCoO AK FTA

e-Form AK

Sending eCoO
Returning Feedback Information*

Cancellation*

Querying*

Tracking

Encryption

Contingency Plan

TRQ eCert

Tariff Rates Quota

Sending TRQ eCert
Returning Feedback Information

Cancellation

TRQ eCert Amendment

Tracking

Encryption

Contingency Plan

eCoO AC FTA

e-CO IJEPA

Sending eCoO
Returning Feedback Information*

Cancellation*

Querying*

Tracking

Encryption

Digital Signature

Contingency Plan

eCoO IK CEPA

e-CoO IK CEPA

Sending eCoO
Returning Feedback Information*

Cancellation*

Querying*

Tracking

Encryption

Contingency Plan

eCoO IJEPA

Sending eCoO
Returning Feedback Information*

Revocation

Digital Signature

Contingency Plan



HOW TO EXCHANGE PAYLOAD

eCoO AK FTA

```
<?xml version="1.0" encoding="UTF-8" standalone="no"?>
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:ser="http://services.insw.com/">
  <!-- Credential Information -->
  <soapenv:Header>
    <UserName xmlns="gateway.insw.go.id">{...}</UserName>
    <Password xmlns="gateway.insw.go.id">{...}</Password>
  </soapenv:Header>
  <ser:PostDocument>
    <HeaderDocument>
      <!-- Envelope -->
      <Envelope>
        <SenderParty>
          <IdentificationId>KRC00001</IdentificationId>
        </SenderParty>
        <RecipientParty>
          <IdentificationId>IDC00001</IdentificationId>
        </RecipientParty>
        <Document>
          <IdentificationId>C023240000772</IdentificationId>
          <SequenceNo>1</SequenceNo>
          <TypeCode>861</TypeCode>
          <SubTypeCode>AKFTA</SubTypeCode>
          <FunctionCode>9</FunctionCode>
          <SubmissionDateTime>2024-02-28T13:42:17.653+07:00</SubmissionDateTime>
          <PayloadType>XML</PayloadType>
        </Document>
        <!-- Message Routing -->
        <MessageRouting>
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          <RecipientId>IDC00001</RecipientId>
          <BusinessDocumentId>C023240000772</BusinessDocumentId>
          <BusinessTypeCode>861</BusinessTypeCode>
          <BusinessSubTypeCode>AKFTA</BusinessSubTypeCode>
          <SubmissionDateTime>2024-02-28T13:42:17.653+07:00</SubmissionDateTime>
        </MessageRouting>
        <!-- Signature Key -->
        <SignatureKey>
          <![CDATA[p0JFoDpLR6jqQNP09x9/sJfdMI15sw7ymIjkkLEEG...]]>
        </SignatureKey>
        <!-- Encrypted Payload -->
        <Payload>
          <![CDATA[UVsNUyijnoA88hcYpvZjhlwb8ixgjubm7VLjZ+soFro...]]>
        </Payload>
      </Envelope>
    </HeaderDocument>
  </ser:PostDocument>
</soapenv:Body>
</soapenv:Envelope>
```

Credential Information

Envelope

Message Routing

Signature Key

Encrypted Payload

Algorithm:
AES + RSA OAEP

eCoO IJEPA

```
<?xml version="1.0" encoding="UTF-8" standalone="no"?>
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:ser="http://services.insw.com/">
  <!-- Credential Information -->
  <soapenv:Header>
    <UserName xmlns="http://gateway.insw.co.id" xmlns:insw="http://insw.gateway.co.id">{...}</UserName>
    <Password xmlns="http://gateway.insw.co.id" xmlns:insw="http://insw.gateway.co.id">{...}</Password>
  </soapenv:Header>
  <ser:PostDocument>
    <HeaderDocument>
      <!-- Envelope -->
      <Envelope>
        <SenderParty>
          <IdentificationId>JPC00001</IdentificationId>
        </SenderParty>
        <RecipientParty>
          <IdentificationId>IDC00001</IdentificationId>
        </RecipientParty>
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          <SubTypeCode>IJEPA</SubTypeCode>
          <FunctionCode>9</FunctionCode>
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        </Document>
        <!-- Message Routing -->
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          <RecipientId>IDC00001</RecipientId>
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          <BusinessTypeCode>861</BusinessTypeCode>
          <BusinessSubTypeCode>IJEPA</BusinessSubTypeCode>
          <SubmissionDateTime>2023-06-05T17:22:17+09:00</SubmissionDateTime>
        </MessageRouting>
        <!-- Unencrypted Payload -->
        <Payload><![CDATA[
          <?xml version="1.0" encoding="UTF-8"?>
          ...]]>
        </Payload>
      </Envelope>
    </HeaderDocument>
  </ser:PostDocument>
  <!-- Digital Signature -->
  <Signature xmlns="http://www.w3.org/2000/09/xmldsig#">
    <CanonicalizationMethod Algorithm="http://www.w3.org/TR/2001/REC-xm1-c14n-20010315#WithComments"/>
    <SignatureMethod Algorithm="http://www.w3.org/2001/04/xmldsig-more#rsa-sha256"/>
    <Reference URI="">
      <Transforms>
        <Transform Algorithm="http://www.w3.org/2000/09/xmldsig#enveloped-signature"/>
      </Transforms>
    </Reference>
    <DigestMethod Algorithm="http://www.w3.org/2001/04/xm1enc#sha256"/>
    <DigestValue>+310wZI6AaTHZ37E9ARR/8xg9wAhoYvPm9dX...</DigestValue>
  </Signature>
</soapenv:Body>
</soapenv:Envelope>
```

Credential Information

Envelope

Message Routing

Unencrypted Payload

Algorithm:
RSA SHA256

Digital Signature



TAKE OUT POINT ELECTRONIC DATA EXCHANGE



| Data Element Name (Including level) | | Form D (United Certificate of Origin) | | Form AC (Certificate of Origin) | | Form E (Certificate of Origin) | | |
|-------------------------------------|--------------------------|---------------------------------------|---------------------------------------|--|---|--|--------------------------------|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | |
| WCO ID | Name | Description | Form D (United Certificate of Origin) | Guideline | Form AC (Certificate of Origin) | Guideline | Form E (Certificate of Origin) | Guideline |
| | Include/Consignement | | 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 repeat 1-10,000 times |
| | Sequence/Number | Item Number | 1.1 | n.5 | Item Number - 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. |
| | 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 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). |
| | FreeOnBoard/ValueAmount | Value (FOB) | 0.1 | n.13.n3 | Value (FOB) - Monetary amount that has to be or has been paid as indicated under the applicable trade delivery. | 0.1 | n.27.n3 | Value (FOB) - Monetary amount that has to be or has been paid as indicated under the applicable trade delivery. |
| | CurrencyId | Currency code (FOB Value) | 1.1 | n3 | Currency code - as defined by ISO 4217 (3) (see code), UN/EDIFACT No. 3. Currency should be specified if FOB value is specified. | 1.1 | n3 | Currency code - as defined by ISO 4217 (3) (see code), UN/EDIFACT No. 3. Currency should be specified if FOB value is specified. |
| | GrossWeightMeasure | Gross Weight (or other quantity) | 0.1 | n.13.n3 | See Appendix A.7 | 0.1 | n.18.n3 | Gross weight - Weight (mass) of goods item including packaging but excluding the carrier's equipment. Either gross weight or quantity must be filed in. |
| | UnitCode | Unit of measurement (Gross weight) | 1.1 | an.3 | Code for Unit of measurement (UCOM) of the gross weight according to UN/EDIFACT No. 20. Code should be specified if weight is specified. | 1.1 | an.3 | Code for Unit of measurement (UCOM) of the gross weight based on a subset of UN/EDIFACT No. 20. Code should be specified if weight is specified - see Appendix A.8. |
| | SpecificCountry | Quantity of Goods Item | 0.1 | n.13.n3 | Quantity of goods item - Either gross weight or quantity must be filed in. | 0.1 | n.18.n3 | Quantity of goods item - Either gross weight or quantity must be filed in. |
| | UnitCode | Unit of measurement (quantity) | 1.1 | an.3 | Code for Unit of measurement (UCOM) - according to UN/EDIFACT No. 20. Code should be specified if weight is specified. | 1.1 | an.3 | Code for Unit of measurement (UCOM) - based on the full UN/EDIFACT No. 20. Code should be specified if quantity is specified. |
| | GoodsLanguageDescription | Description of Goods | 1.1 | an.512 | Goods description - Plain language description of the nature of a goods item sufficient to identify it for Customs, statistical or transport purposes. | 1.1 | 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 | 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". | 1.12 | an.1024 | Free form description of the marks and numbers on a transport unit or package - if blank, should be set to "No Marks". |

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 | | LP/CO/D011 |
| D013 | Document name code | Code specifying the name of a document. | X | | LP/CO/D013 |
| 61B | Authentication | Details related to the authentication of a document. | X | | LP/CO/Authentication |
| 104 | Authentication statement | Statement providing proof that the document has been authenticated. | X | | LP/CO/Authentication/104 |
| 539 | Document authentication location name | Name of a location where a document was signed or otherwise authenticated. | X | | LP/CO/Authentication/539 |
| 12A | Authenticator | Details related to an authenticating party. | X | | LP/CO/Authentication/Authenticat or |
| R007 | Authenticator name | Name of the party which certifies that a document is authentic. | X | | LP/CO/Authentication/Authenticat or/R007 |
| 03A | Additional Information | Details related to the special request from declarant to government to take or not to take action. | X | | LP/CO/Additional Information |
| 369 | Additional statement type | Code specifying the subject of the additional statement. | X | | LP/CO/Additional Information/369 |

WHAT To Exchange

MESSAGE
IMPLEMENTATION
GUIDE

HOW To Exchange

BUSINESS
PROCESS
SPECIFICATION

INTERNATIONAL eCOO DATA EXCHANGE

Business Process Specification

Version No. 1.3

STANDARDIZED

Sending eCoO
Returning Acknowledge Message
Cancellation
Querying
Tracking
Contingency Plan

TBD

Encryption**
Digital Signature**



Thank You

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