

Single-Window e-Logistics: Policy Initiatives and Projects in Thailand



Dr. Somnuk Keretho
Director, Institute for IT Innovation
Kasetsart University
Advisor, Ministry of Transport and Minister of ICT
for Thailand Single Window e-Logistics Projects

**UNECE/UNESCAP Workshop on UNeDocs for
Single Window Facilities in Asia and the Pacific
10-11 December 2007, Bangkok**

Agenda

- ❑ A National Strategic Agenda –
Trade Facilitation Enhancement with
Single Window e-Logistics
- ❑ Needs and Requirements of Single Window
- ❑ Technical Interoperability
- ❑ Data Interoperability
- ❑ Case Examples & Proof-of-Concept
- ❑ Recommendations



(updated) Logistics Development Master Plan (2007 -2011)

endorsed by the Cabinet on Feb 2007



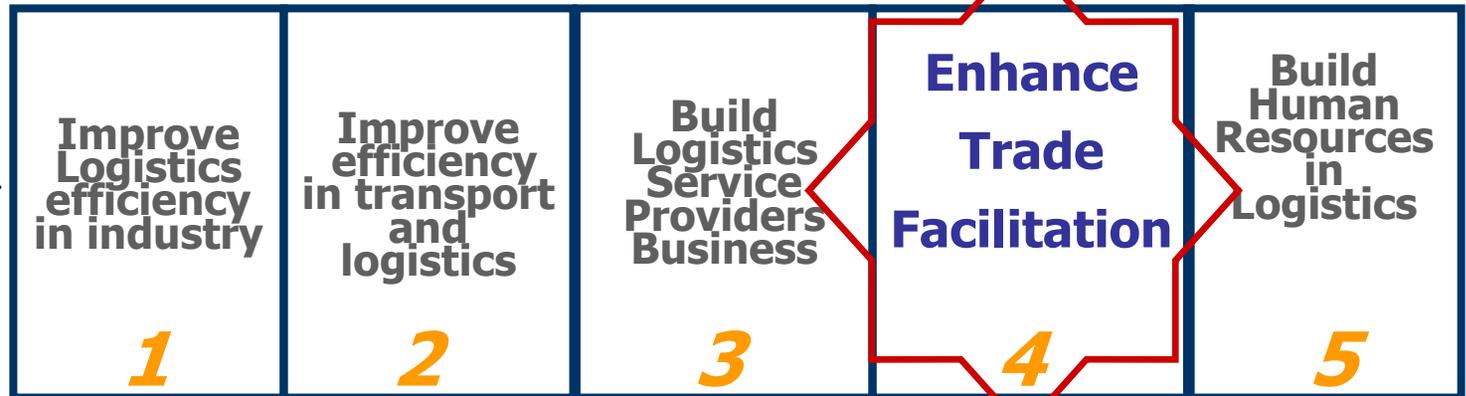
Vision

Having World-class National Logistics Environments to become a Trade Hub for Indochina

Objectives

- 1.Reducing logistics cost (*Cost Efficiency*), increase business *Responsiveness*, and *Reliability* and *Security*
- 2.Create *Value-Added* on logistics industry and related business

Strategic Agenda



To reduce the trade logistics cost from 19% (2007) to 16% (2011) (comparing to GDP)

Single Window e-Logistics

Action Plan to develop data exchange platform among different government agencies and business related to import/export procedures

A National Logistics Committee chaired by the Prime Minister, including Economic Ministries, & Industry Associations spearheads and leads the development of this Logistics master plan.

Strategic Agenda - 4

Trade Facilitation Enhancement*



□ Government & Private Stakeholders

(e-Logistics National Sub-committee is formulated)

- Ministry of Finance, Ministry of Commerce, Ministry of Agriculture, Ministry of Science and Technology, Ministry of ICT, Ministry of Transport, Ministry of Health, NESDB**
- Thai Chamber of Commerce, The Federation of Thai Industries, and Bankers Association

□ Key Strategies

- Development of Single Window Data Entry, and National Single Window Exchange related to import/export trade and transport procedures and document requirements
- Promoting electronic transaction with e-document exchange and interoperability between G2G, G2B and B2B
 - KPI - Define common standard data set
 - KPI - Improve laws and regulations to enable to adopt of paperless environments.
 - KPI – Interoperability (common open protocols)

□ Goal: reducing numbers of days for exporting from 24 to 14 days by 2011 (world bank statistics)

* as mandated by the Cabinet

** NESDB = National Economic and Social Development Board

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Trading Across Borders

Procedures and documents necessary to import and exports a standardized cargo of goods

Region or Economy	Documents for export (number)	Time for export (days)	Cost to export (US\$ per container)	Documents for import (number)	Time for import (days)	Cost to import (US\$ per container)
OECD	4.5	9.8	905.0	5.0	10.4	986.1
Latin America & Caribbean	7.0	22.2	1,107.5	7.6	25.8	1,228.4
East Asia & Pacific	6.9	24.5	885.3	7.5	25.8	1,014.5
Middle East & North Africa	7.1	24.8	992.2	8.0	28.7	1,128.9
Eastern Europe & Central Asia	7.0	29.3	1,393.4	8.3	30.8	1,551.4
South Asia	8.6	32.5	1,179.9	9.1	32.1	1,417.9
Sub-Saharan Africa	8.1	35.6	1,660.1	9.0	43.7	1,985.9
Denmark	4	5	540	3	5	540
Estonia	3	5	675	4	5	675
Singapore	4	5	416	4	3	367
Hong Kong, China	4	6	525	4	5	525
Luxembourg	5	6	1,250	4	6	1,250
Netherlands	4	6	880	5	6	1,005
United States	4	6	960	5	5	1,160
Canada	3	7	1,385	4	11	1,425
Germany	4	7	740	5	7	765
Ireland	4	7	1,090	4	12	1,139
Norway	4	7	518	4	7	468
Austria	4	8	843	5	8	843
Belgium	4	8	1,600	5	9	1,600
Finland	4	8	420	5	8	420
Sweden	4	8	561	3	6	619
Thailand	7	17	615	9	14	786
Indonesia	5	21	667	6	27	623
Lao PDR	9	50	1,750	10	50	1,930
Kazakhstan	12	89	2,730	14	76	2,780

By World Bank www.doingbusiness.org Dec 2008

Trading across borders in Thailand

World Bank: www.doingbusiness.org - Oct 2007

Trading Across Borders data	Doing Business 2006	Doing Business 2007	Doing Business 2008
Rank		108	50
Documents for export (number)	9	9	7
Time for export (days)	24	24	17
Cost to export (US\$ per container)	848	848	615
Documents for import (number)	12	12	9
Time for import (days)	22	22	14
Cost to import (US\$ per container)	1042	1042	786

The improvement is mainly because of Thailand reforms on trade facilitation particularly by establishing **single window paperless Customs operations.**

Trading across borders in Hong Kong, China

World Bank: www.doingbusiness.org - Oct 2007

Trading Across Borders data	Doing Business 2006	Doing Business 2007	Doing Business 2008
Rank		3	3
Documents for export (number)	6	4	4
Time for export (days)	13	6	6
Cost to export (US\$ per container)	425	525	525
Documents for import (number)	8	4	4
Time for import (days)	16	5	5
Cost to import (US\$ per container)	425	525	525

Hong Kong – Single Window Systems, namely Digital Trade and Transportation Network (DTTN) and TradeLink play an important role on this trade facilitation improvement [personal observation].

Time and Procedure Needed for Exportation of Frozen Shrimp from Thailand

Time-Procedure Chart Exportation of Frozen Shrimp

Time (Days)

35

30

25

20

15

10

5

0

1

2

3

4

5

6

7

8

9

10

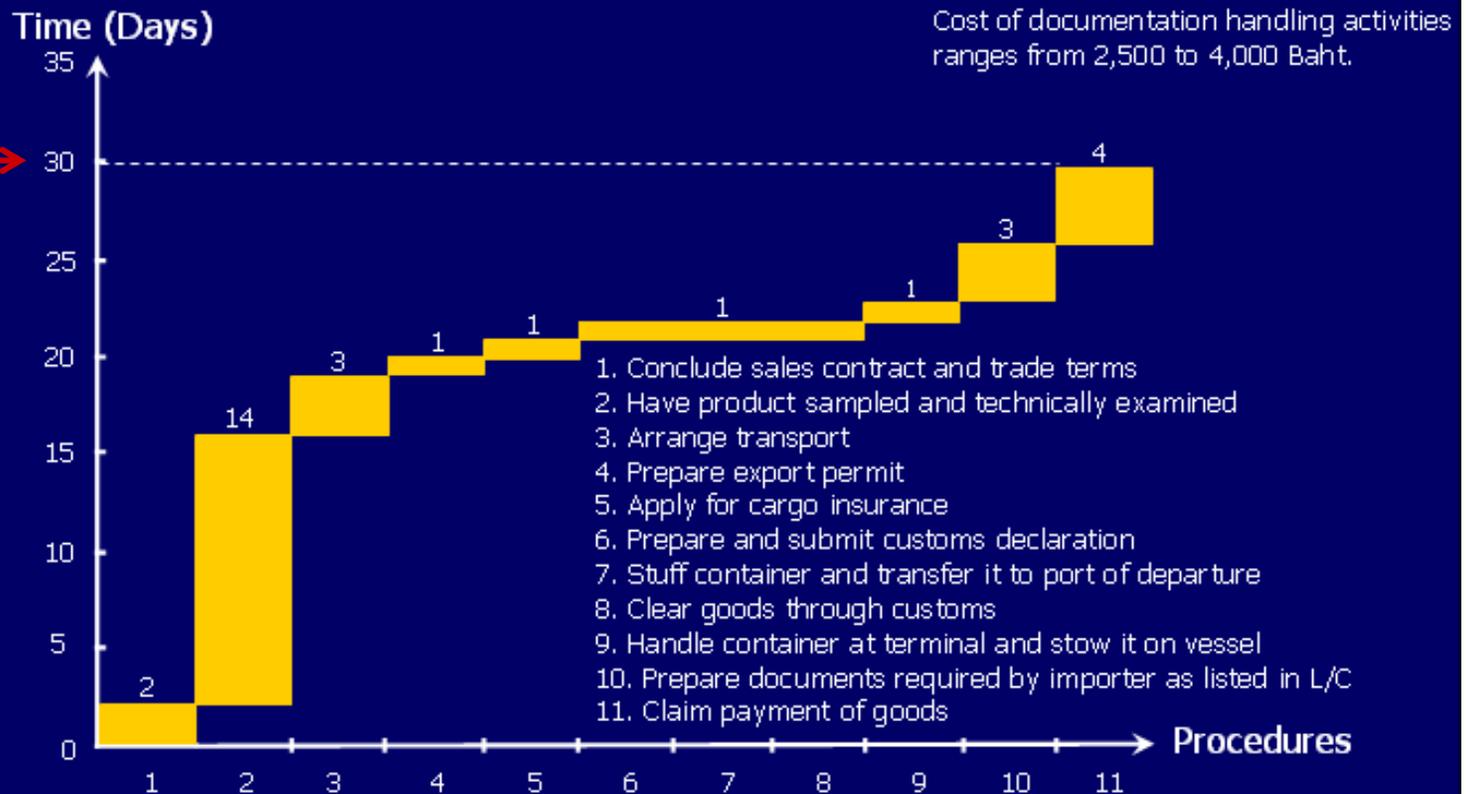
11

Procedures

**30 Days
needed
for exporting
frozen shrimp**

**(30 documents
15 orgs
involved)**

Cost of documentation handling activities ranges from 2,500 to 4,000 Baht.



1. Conclude sales contract and trade terms
2. Have product sampled and technically examined
3. Arrange transport
4. Prepare export permit
5. Apply for cargo insurance
6. Prepare and submit customs declaration
7. Stuff container and transfer it to port of departure
8. Clear goods through customs
9. Handle container at terminal and stow it on vessel
10. Prepare documents required by importer as listed in L/C
11. Claim payment of goods

Exportation of Frozen Shrimps (Thailand)

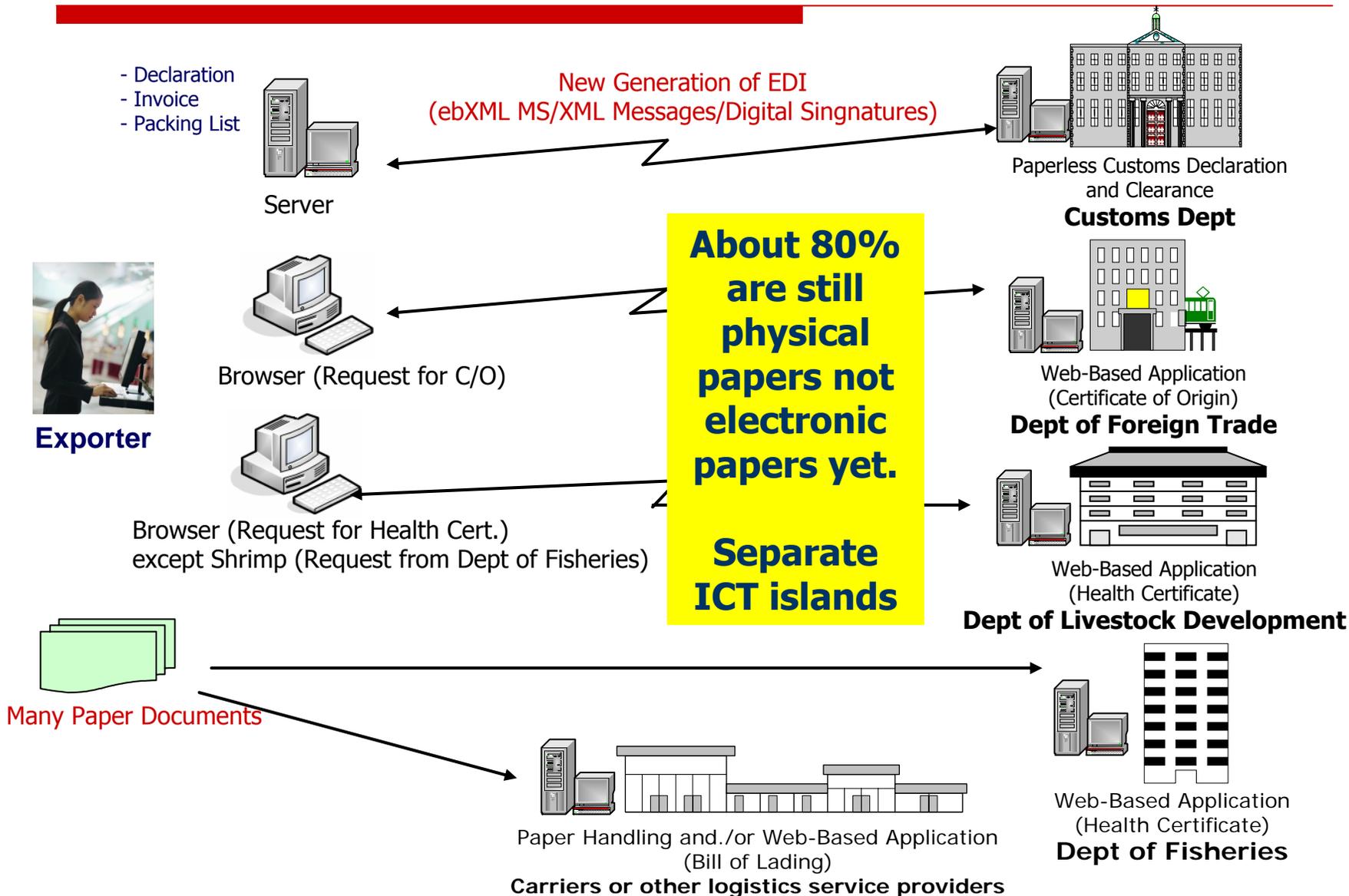
15 Parties involved

30 documents & 788 data elements needed to be filled in
(~6 e-docs, and most data elements are filled 30 times!)

- 1. Proforma Invoice**
- 2. Purchase Order**
- 3. Request for Sampling**
- 4. Test Report**
- 5. Shipping Particulars**
- 6. Booking Confirmation**
- 7. Inland Haulage Booking Form**
- 8. Inland Haulage Booking Confirmation**
- 9. Commercial Invoice**
- 10. Packing List**
- 11. Application Form for Import, Export, Pass Animals/Animal Remains Through Thailand (R. 1/1)**
- 12. Export License (R. 9)**
- 13. Insurance Request Form**
- 14. Cover Note**
- 15. Insurance Policy**
- 16. *Export Declaration***
- 17. Goods Transition Control List**
- 18. Request for Port Entry (TKT 308.2)**
- 19. Equipment Interchange Receipt**
- 20. *Container Loading List***
- 21. *Manifest***
- 22. Outward Container List**
- 23. Bill of Lading**
- 24. Request for Health Certificate**
- 25. Health Certificate**
- 26. Request for C/O**
- 27. *Certificate of Origin***
- 28. Halal Certificate 2**
- 29. Application for Irrecoverable Documentary Letter of Credit**
- 30. Letter of Credit**

Current Situation

(still several islands to be gradually connected)



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Needs to expand the scope of the National Single Window as defined under *ASEAN Single Window Agreement*



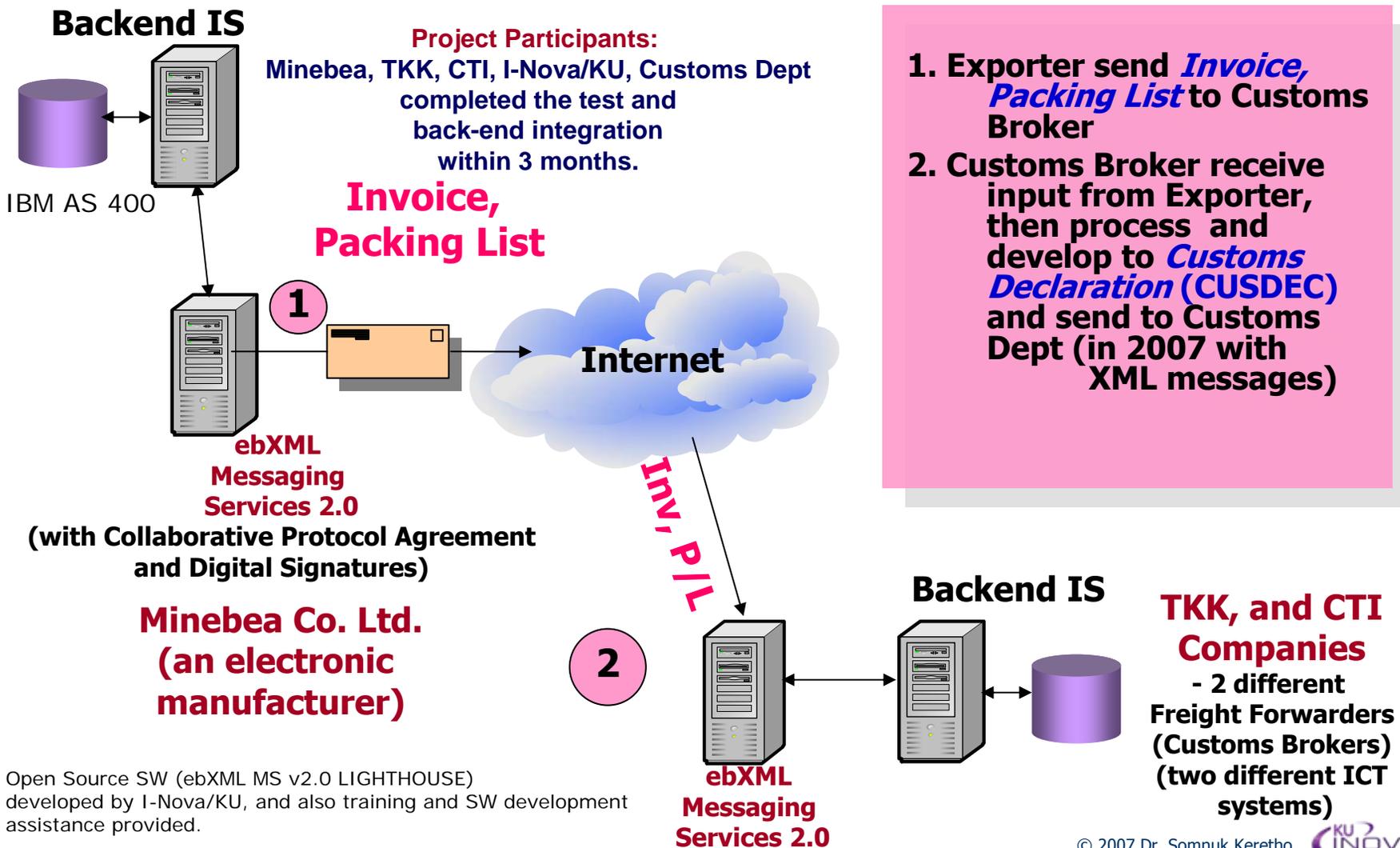
In 2007,
Customs Department
has provided
Paperless Customs
Environment
with e-Export,
e-Import/e-Manifest/
e-Container
based on
ebXML Messaging Services
& XML Messages,

and getting
Other Government Agencies
and *other parties*
to *interoperate*
electronically.

Technical Interoperability

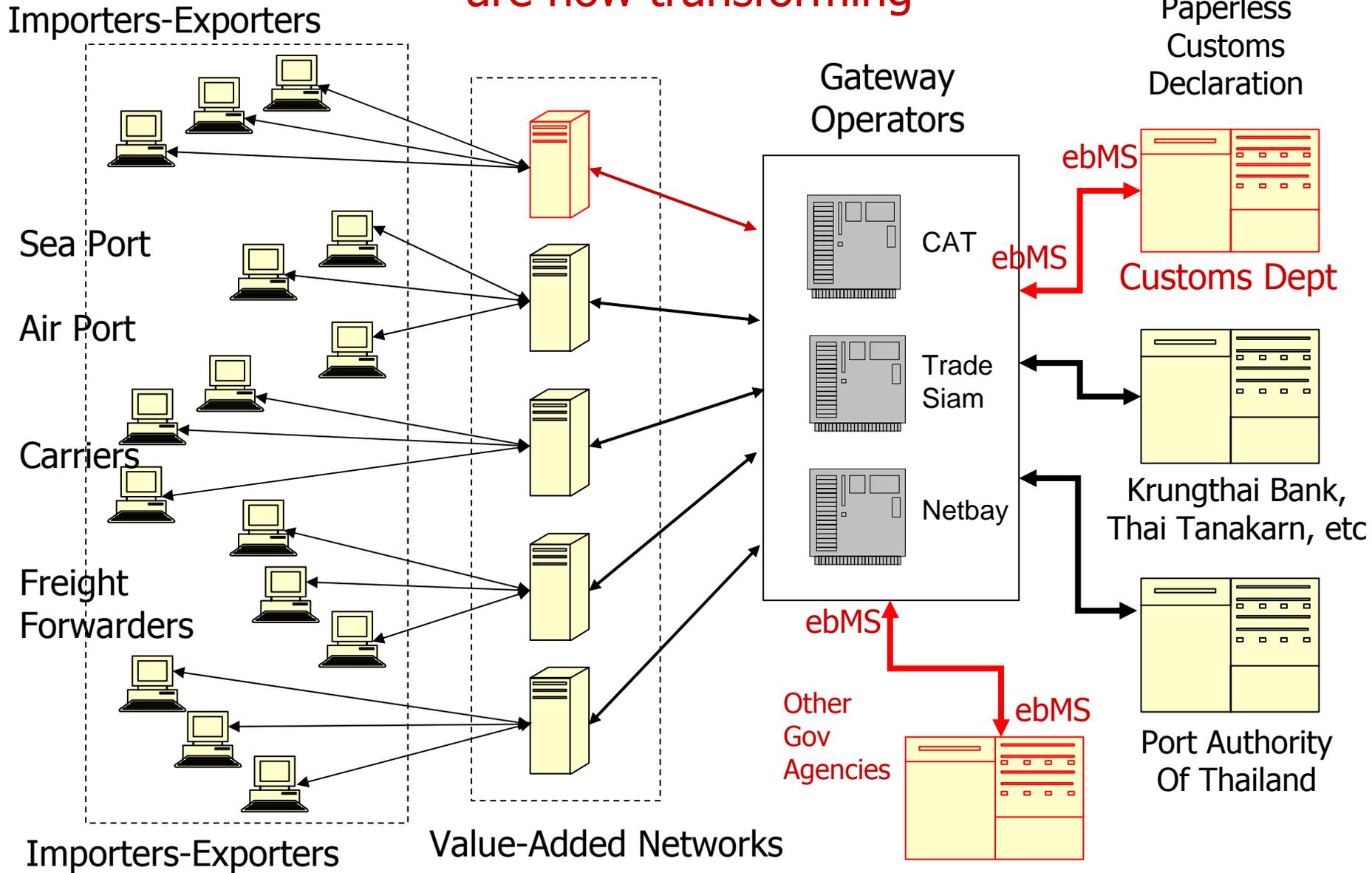
based on ebXML Messaging Protocol, Digital Signature and Security Features

An ebXML Pilot Project since 2003 - replacing 2 dump terminals connecting with 2 leased lines to 2 different freight forwarders by only one Internet line without any data elements re-keyed.



Open Source SW (ebXML MS v2.0 LIGHTHOUSE) developed by I-Nova/KU, and also training and SW development assistance provided.

Current EDI/ebXML systems in Thailand [1998-2007] are now transforming



ebMS = ebXML Messaging Services, an open protocol for secured technical interoperability.

National Single Window Vision

(gradually expand its scope)

Now, technical interoperability standard (e.g. based on ebXML MS) is needed, and common definitions of data elements, and semantic data structures (common data models) among different documents required by different organizations are required also.

New Generation of EDI (ebXML/XMLMessages)

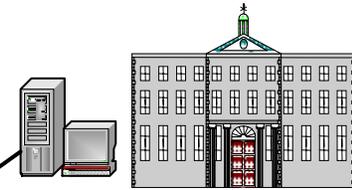


Exporter

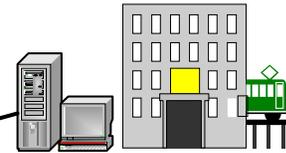


National Single Window

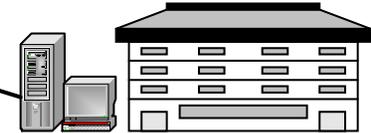
Data Harmonization



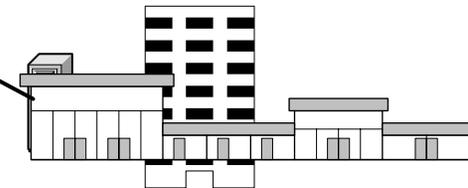
Paperless Customs Declaration and Clearance
Customs Dept



Web-Services (ebXML) Application (Certificate of Origin)
Dept of Foreign Trade



Web-Services (ebXML) Application (Health Certificate)
Dept of Livestock Development



Web-Services (ebXML) Application (Health Certificate)
Dept of Fisheries



Web-Services Applications (e.g. Bill of Lading, and other documents)

Carriers or other logistics service providers

Goal - Single Window/e-Documents

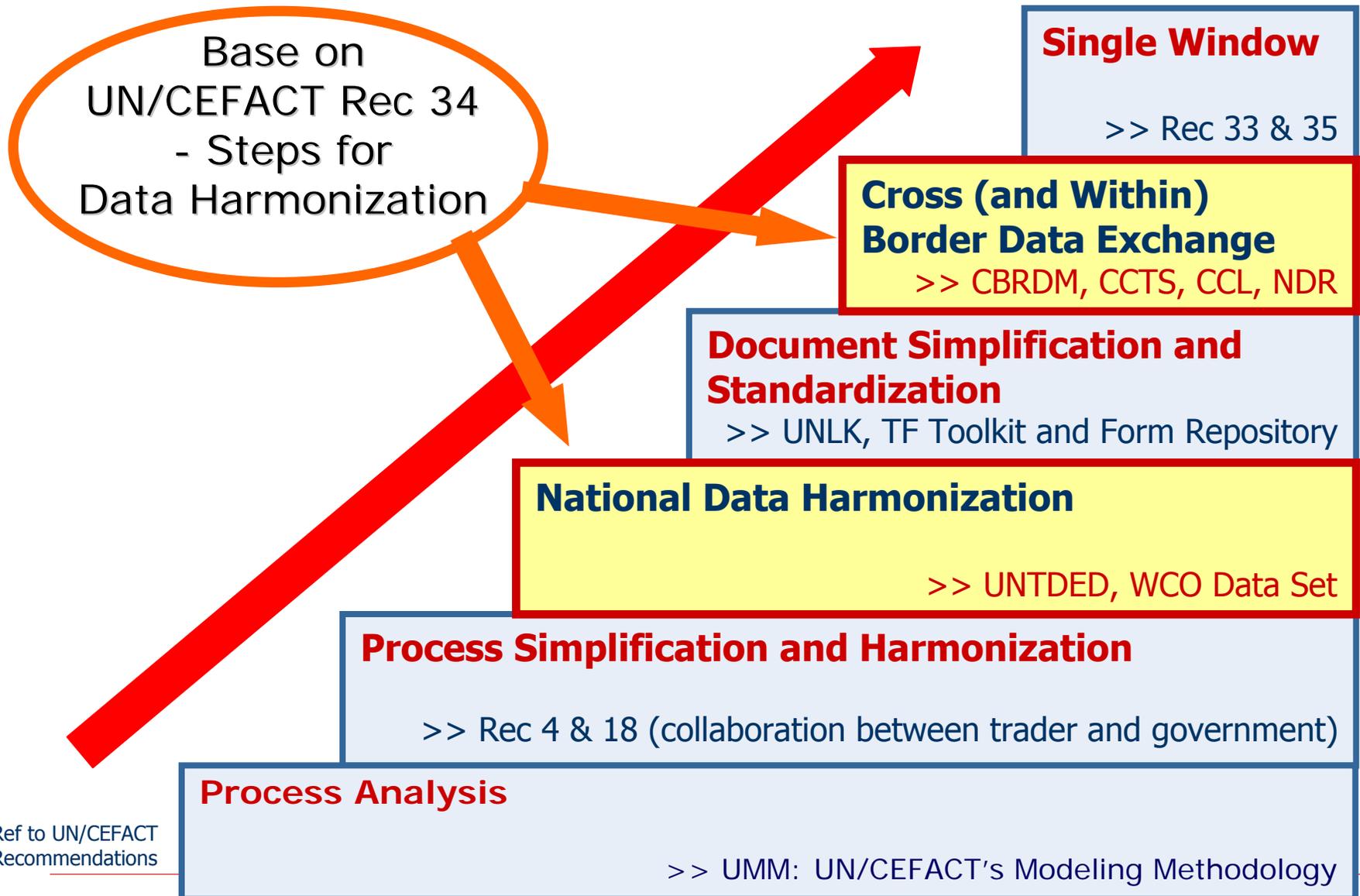
One time submission for each data element but multiple usage for different purposes on different ICT platforms

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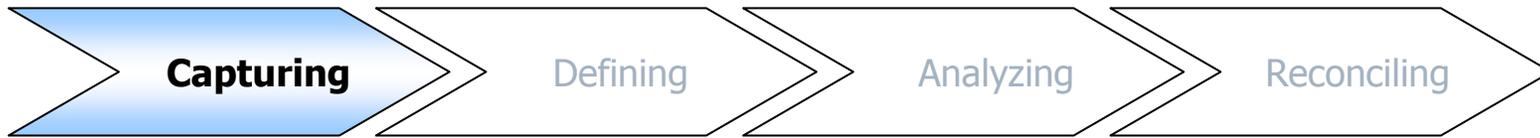


Step by Step Path to Single Window



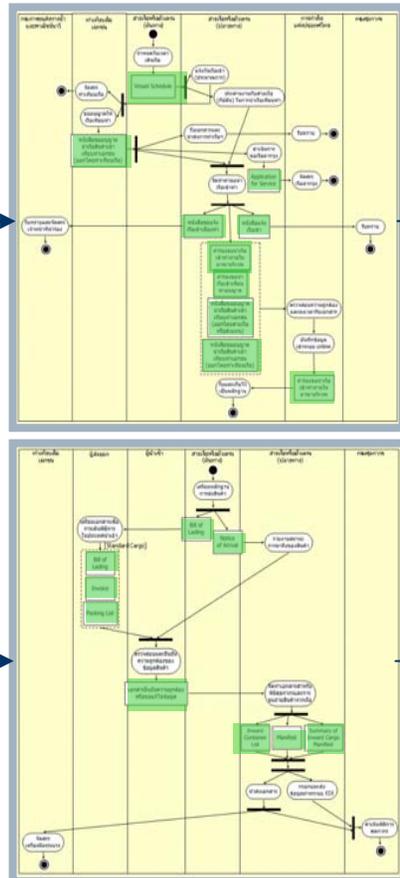
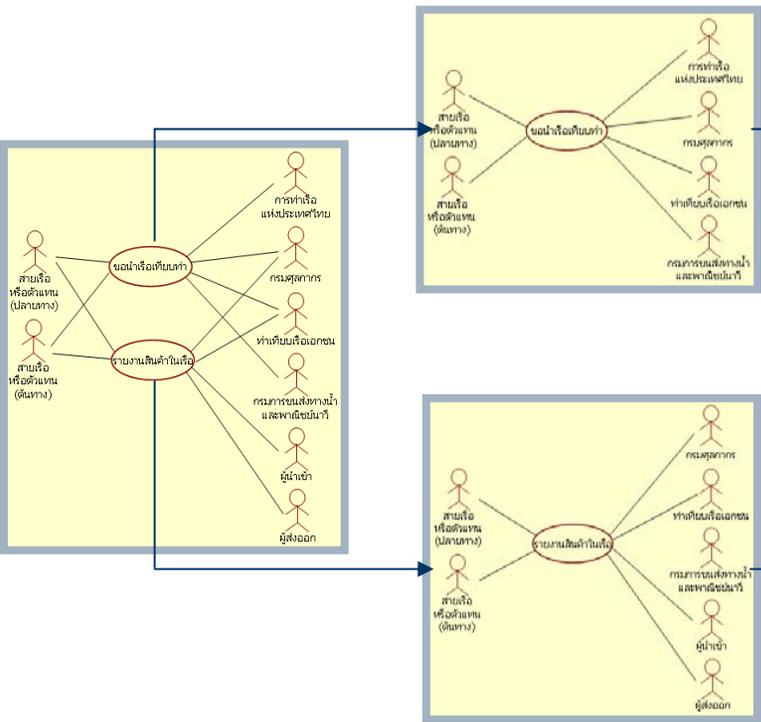
Ref to UN/CEFACT Recommendations

Capture business processes to identify information flow and extract data elements from each document



Business Requirement View: Activity Diagram

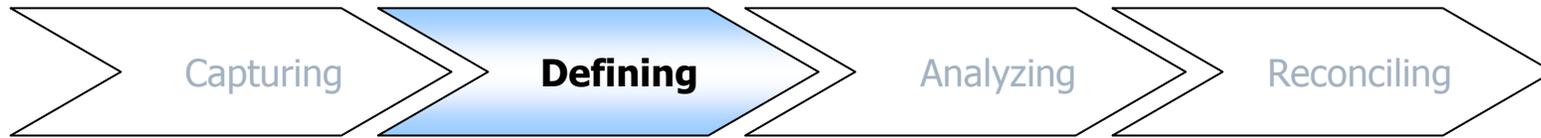
Business Domain View: Use Case Diagram



1. Vessel Schedule
2. หนังสือขออนุญาตนำเรือสินค้าเข้าเทียบท่าเอกชน (ออกโดยท่าเทียบเรือ)
3. Application for Service
4. หนังสือขอแจ้งเรือเข้าเมืองท่า
5. หนังสือแจ้งเรือเข้า
6. คำร้องขอนำเรือเข้าท่าภายในอาณาบริเวณ
7. คำร้องขอนำเรือเข้าเทียบท่าอนุญาต
8. หนังสือขออนุญาตนำเรือสินค้าเข้าเทียบท่าเอกชน (ออกโดยสายเรือหรือตัวแทน)
9. Bill of Lading
10. Notice of Arrival
11. Invoice
12. Packing List
13. Inward Container List
14. Manifest
15. Summary of Inward Cargo Manifest

Example of procedures and documents Required for a cargo vessel coming to a sea port in Thailand.

Define each collected data element against WCO Data Set/UNTDED/other relevant standards



Required Data Element	WCO ID	WCO Name	WCO Definition	TDED ID	TDED (Old) Name	TDED Definition
Reference No.				1004	Document/message number	Reference number identifying specific document
Date of issue				2007	Document date	Date that a document was issued and when appropriate signed or otherwise authenticated
Carrier	049	Carrier - name	Name of party providing the transport of goods between named points			
Carrier's Agent	060	Agent - name	Name of a party authorized to act on behalf of another party			
Address	060		Address of a party authorized to act on behalf of another party			
Inward Container List for	160	Identification of means of transport crossing the border	Name to identify the means of transport used in crossing the border			
Voy	149	Conveyance reference number	To identify a journey of a means of transport, for example voyage number, flight number, trip number			
เที่ยววันที่	158	Departure date and time	Date and time of departure of the means of transport			
เครื่องหมาย/เลขหมาย	159	Equipment identification number	Marks (letters and/or numbers) which identify equipment e.g. unit load device			
Item	006	Sequence number	Number indicating the position in a sequence			
Type	152	Equipment size and type identification	Code specifying the characteristics, i.e. size and type of a piece of transport equipment.			
Size	152	Equipment size and type identification	Code specifying the characteristics, i.e. size and type of a piece of transport equipment			
Consignee (ตัวแทนเรือ)	051	Consignee name	Name of party to which goods are consigned			
Gross Weight				6294	Container gross weight	Weight (mass) of transport equipment, such as container or similar unit load device, with goods, including packing and carrier's equipment
Status				8168	Container/package status	Free format text specifying how full a piece of transport equipment is
หมายเหตุ	105	Free Text	Free text field available to the message sender for information			

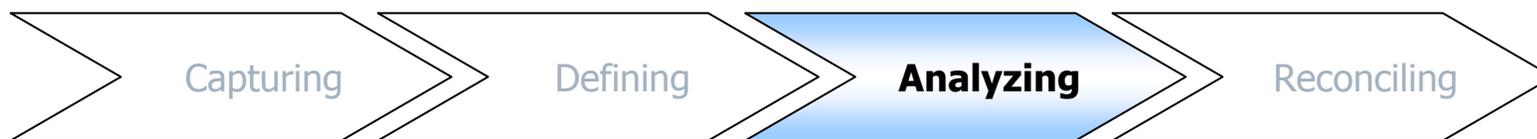
WCO Data Set for V2.0 of WCO Customs Data Model

WCO details				UNTDDED details		Usage indicators for the WCO Customs Data Model														WCO details				
WCO ID	Name	Definition	Data model classes	UID	Name	IM1		IM2		EX1		EX2		EX22		CRI		CONV		TRT		Format	Code remarks	Synonyms
						Stat.	Occ.	Stat.	Occ.	Stat.	Occ.	Stat.	Occ.	Stat.	Occ.	Stat.	Occ.	Stat.	Occ.	Stat.	Occ.			
001	Declaration name, coded	Code specifying the name of a document.	Declaration	1001	Document.Type.Code	M	1	M	1	M	1	M	1	M	1	M	1	M	1	M	1	an..3	EDIFACT codes	
002	Declaration reference number	Reference number identifying a specific document.	Declaration	1004	Document.Identifier	M	1	M	1	M	1	M	1	M	1	M	1	M	1	M	1	an..35		
003	Additional document reference number	Identifier of a document providing additional information.	AdditionalDocument	1004	Document.Identifier	C	1	C	1	C	1	C	1	C	1						an..35			
004	Reservation No. of shipment	Reference number assigned by a carrier or its agent to identify a specific consignment.	Consignment	1018	Consignment.CarrierAssigned.Identifier																an..30		Booking reference number	
005	Type of invoice, coded	Code specifying the type of an invoice.	Invoice	1001	Document.Type.Code	C	1			C	1	C	1								an..3	EDIFACT codes		
006	Sequence number	Number indicating the position in a sequence.	Consignment ConsignmentItem CustomsGoodsItem GoodsShipment Invoice	1060	Sequence.Position.Identifier	M	1	M	1	M	1	M	1	M	1	M	1				C	1	n..5	Invoice sequence number
007	Previous Customs document number	The number of a previous Customs document.	PreviousCustomsDocument	1004	Document.Identifier	C	1	C	1	C	1	C	1	C	1	C	1	C	1	C	1	an..35		Initial transaction number
008	Export classification control number	Export licence classification for control purposes, for example as per the Wassenaar agreement concerning trade in weapons and dual-use goods and technologies.	Commodity	1154	Reference.Identifier					C	1										an..5	Wassenaar codes		
009	Trader reference	Reference assigned by a trader to a declaration.	UCR	1007	CustomsDeclarationDocument.TraderAssigned.Identifier	C	1	C	1	C	1	C	1	C	1	C	1	C	1		an..35			
010	Ships stay reference	Identifier of the stay of a means of transport in a port or airport.	BorderTransportMeans	1099	TransportMeans.Stay.Identifier											C	1	C	1	C	1	an..35		Call reference number
011	Carrier split consignment indicator	Indication assigned by the carrier for each load of a split consignment.	Consignment	1103	SplitConsignment.CarrierAssigned.Identifier											C	1	C	1		n1	0 = no, 1 = yes		
012	Invoice line number	To identify a line of a document.	InvoiceLine	1158	Document.Line.Identifier	C	1			C	1	C	1								n..4			
013	Number of loading lab	The number of loading labs, manifests or similar documents.	Declaration	8081	Quantity.Quantity	C	1					C	1								n..5			
014	Payment reference number	Reference number specifying a payment of a duty or tax.	Payment	1168	Tax.Payment.Identifier	C	1	C	1	C	1	C	1			C	1				an..20			
015	Transport document number	Reference number to identify a document evidencing a transport contract.	TransportContractDocument	1004	Document.Identifier	C	1	C	1	C	1	C	1			C	1	C	1		an..35			
016	Unique consignment reference number	Unique number assigned to goods, both for import and export.	UCR	1202	Consignment.Identifier	C	1	C	1	C	1	C	1	C	1	C	1	C	1		an..35	WCO (ISO15459) or equivalent		
017	Message function, coded	Code indicating the function of a document.	Declaration	1225	Document.Function.Code	C	1	C	1	C	1	C	1	C	1	C	1	C	1	C	1	n..2	EDIFACT codes	
018	Invoice number	Reference number to identify an invoice.	Invoice	1004	Document.Identifier	C	1	C	1	C	1	C	1	C	1						an..35			
019	Document/message status, coded	Code specifying the status of a document.	Declaration	1373	Document.Status.Code											C	1	C	1		an..3	EDIFACT codes		
020	Goods declaration number (Customs)	Reference number, assigned or accepted by Customs, to identify a goods declaration.	Declaration	1428	GoodsDeclarationDocument.Customs.Identifier	C	1	C	1	C	1	C	1	C	1	C	1	C	1	C	1	an..35		
021	Consignment item number	Sequence number differentiating a specific goods item within a consignment.	See 505 M.T.D.	1060	Sequence.Position.Identifier	M	?	M	?	M	?	M	?	M	?	C	?	C	?	?	?	n..4		
022	Declaration issuing date	Date at which a declaration was issued and when appropriate, signed or otherwise authenticated.	Declaration	2001	Date.Date.DateTime	C	1	C	1			C	1	C	1						C	1	n8 (CCYYMMDD)	
023	Goods declaration acceptance date (Customs), coded	Date on which a Goods declaration has been or will be accepted by Customs in accordance with Customs legislation.	Declaration	2001	Date.Date.DateTime	C	1	C	1	C	1	C	1	C	1							n8 (CCYYMMDD)		
024	Exit date	Date when the goods departs from last port, airport, or border post of customs territory whence consigned (country of export).	GoodsShipment	2001	Date.Date.DateTime	C	1			C	1	C	1			C	1					n8 (CCYYMMDD)		
025	Date of vaning	Date when the goods were containerized / Date when traders intend to stuff their goods into container at their premises, coded.	StuffingEstablishment	2001	Date.Date.DateTime					C	1											n8 (CCYYMMDD)		
026	Date of previous Customs document	Date of the previous Customs document (007) in accordance with national legislation, coded.	PreviousCustomsDocument	2001	Date.Date.DateTime	C	1	C	1	C	1	C	1	C	1							n8 (CCYYMMDD)		
027	Duration of stay	The number of days consignment is under transit control.	TransitControl	8081	Quantity.Quantity											C	1				n..2			
028	Birth date of Master/operator	Birth date of master of means of transport e.g. vessel master, pilot or driver.	Master	2401	Person.Birth.Date/Time											C	1	C	1		n8 (CCYYMMDD)			

Trade Data Elements Directory (UNTDDED – ISO 7372: 2005)

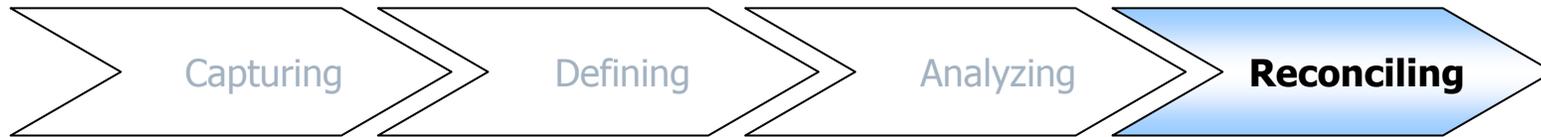
Change indic.	Tag UID	New Name	Description	repr.	Old name	Business Term	Notes	Locations, Bridges
[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]
ond	1000	Document. Type.Name.Text	Free text name of a document such as 'Proforma invoice', 'Commercial invoice'.	an..35	Document/m essage name	Document/ message name		UNLK: L 02, P 45-80 MAR: IMO/FAL 1-7
ondr	1001	Document. Type.Code	Code specifying the name of a document such as 352 for proforma invoice, 380 for commercial invoice.	an..3	Document/m essage name, coded	Document/ message name code		UNLK: L 04, P 41-45 CIMP: (120): a1 SAD: (SAD 1(first to third subdivision))
x	1002	.	.		Message name		DE to use instead - 1000	
ond	1003	Document. Type.Identifier	Document type identifier such as INVOIC. See also 0065	an..6	Message name, coded	Message name code		CIMP: (101): a3
ond	1004	Document. Identifier	Reference number identifying a specific document.	an..35	Document/m essage number	Document/ message number		CIMP: (112) n3 and (114) an6 or (805) n8 and (118) n6 MAR: IMO/FAL 2 UNLK: an..17 L 04, P 63- 80 SAD:
add	1007	Event. Identifier	Reference number identifying an event.	an..35				
add	1008	Event. Sequence.Identifier	Sequence number differentiating a specific event amongst others	n..5				
ond	1010	Additional Document. Identifier	Identifier of a document providing additional information.	an..35	Additional document reference			SAD: (SAD 44)
add	1012	Packing List Document. Item Sequence.Identifier	Sequence number differentiating a specific packing list item within a packing list.	n..5				
ondr	1014	Packing List Document. Identifier	Reference number to identify a packing list	an..35	Packing List number			UNLK: an..17, L 04 P 63- 80
ondr	1016	Consignment. Carrier Assigned.Identifier	Reference number assigned by a carrier or its agent to identify a specific consignment such as a booking reference number when cargo space is reserved prior to loading.	an..35	Booking reference number	Reservation number of shipment		CIMP: (117): an..15 MAR: IMO/FAL 7 UNLK: an..17 L 04, P 63- 80
ondr	1018	Order Acknowledgement Document. Identifier	Reference number identifying the acknowledgement of an order.	an..35	Acknowledg ement of Order number	Purchase order response number		UNLK: L 04, P 63-80
ondr	1022	Order Document. Buyer Assigned.Identifier	Identifier assigned by the buyer to an order.	an..35	Order number	Purchase Order Number		UNLK: L 04, P 63-80 CIM: n..7; L 62, P 13-19
add	1024	Additional Document. Name.Text	Free text name of an additional document.	an..35				

Compare data element names extracted from collected documents



Required Data Element	WCO Name	WCO ID	WCO Definition	Data Element Source	Document Owner
Name of Vessel	Identification of means of transport crossing the border	160	Name to identify the means of transport used in crossing the border	คำร้องขอเข้าเรือเข้าท่าภายในอาณาบริเวณ	การทำเรือแห่งประเทศไทย
เรือชื่อ	Identification of means of transport crossing the border	160	Name to identify the means of transport used in crossing the border	คำร้องขอเข้าเรือเข้าเทียบท่าอนุญาต	การทำเรือแห่งประเทศไทย
Name of Ship	Identification of means of transport crossing the border	160	Name to identify the means of transport used in crossing the border	หนังสือขอแจ้งเรือเข้าเมืองท่า	กรมการขนส่งทางน้ำและพาณิชยนาวี
Vessel Name	Identification of means of transport crossing the border	160	Name to identify the means of transport used in crossing the border	Vessel/Flight Schedule Message	กรมศุลกากร
Inward Container List for	Identification of means of transport crossing the border	160	Name to identify the means of transport used in crossing the border	Inward Container List	สายเรือ/ตัวแทนเรือ

Rename data element names (business term) of similar definition to standard compliant names



Required Data Element	WCO Name	WCO ID	WCO Definition	Data Element Source	Document Owner
Name of Vessel	Identification of means of transport crossing the border	160	Name to identify the means of transport used in crossing the border	คำร้องขอเข้าเรือเข้าท่าภายในอาณาบริเวณ	การทำเรือแห่งประเทศไทย
เรือชื่อ	Identification of means of transport crossing the border	160	Name to identify the means of transport used in crossing the border	คำร้องขอเข้าเรือเข้าเทียบท่าอนุญาต	การทำเรือแห่งประเทศไทย
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Name of Vessel
เรือชื่อ
Name of Ship
Vessel Name
Inward Container List for

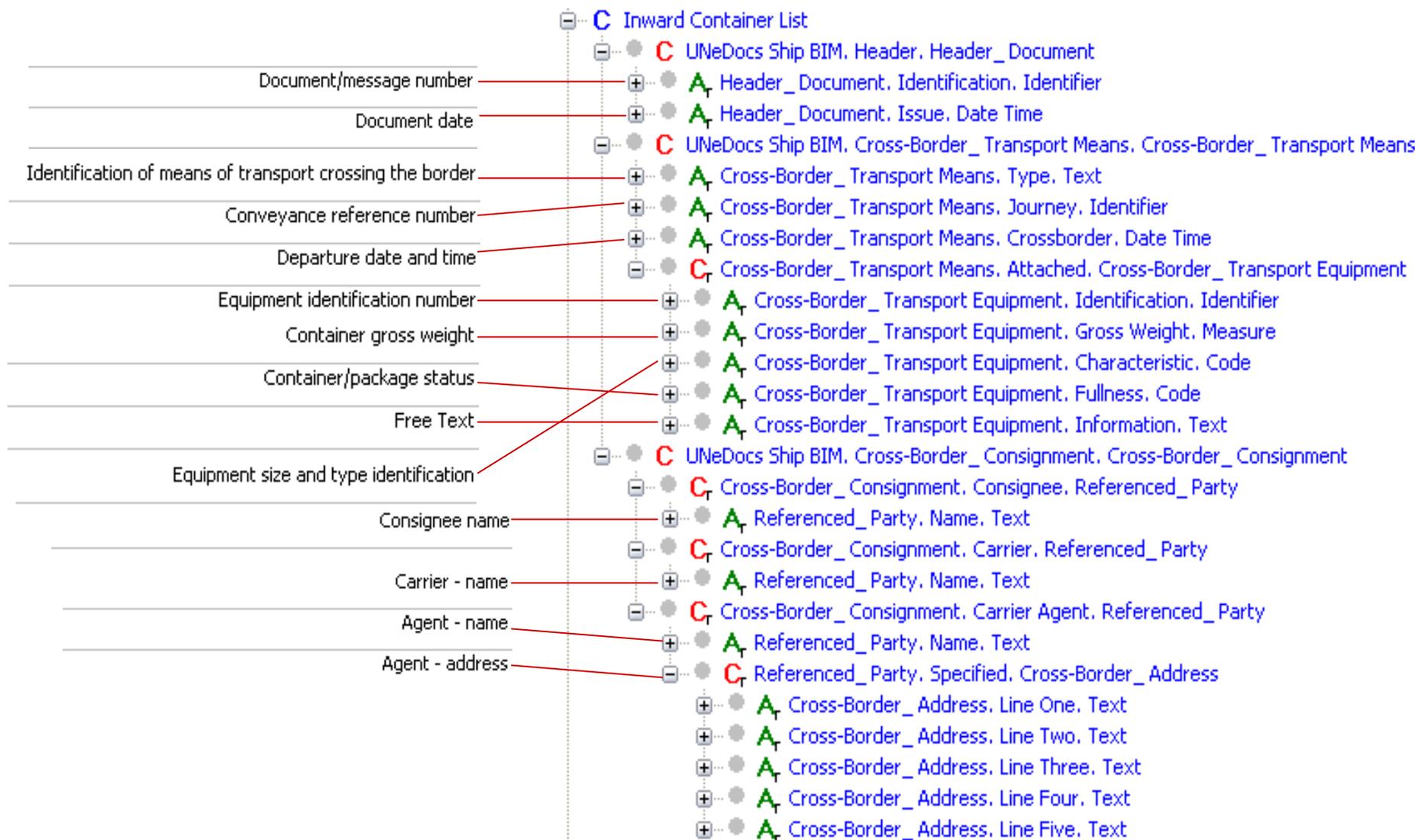


WCO 160
Identification of means of transport crossing the border



Standardized data element to be included in National "Standardized Data Set"

Message Assembly with UNeDocs

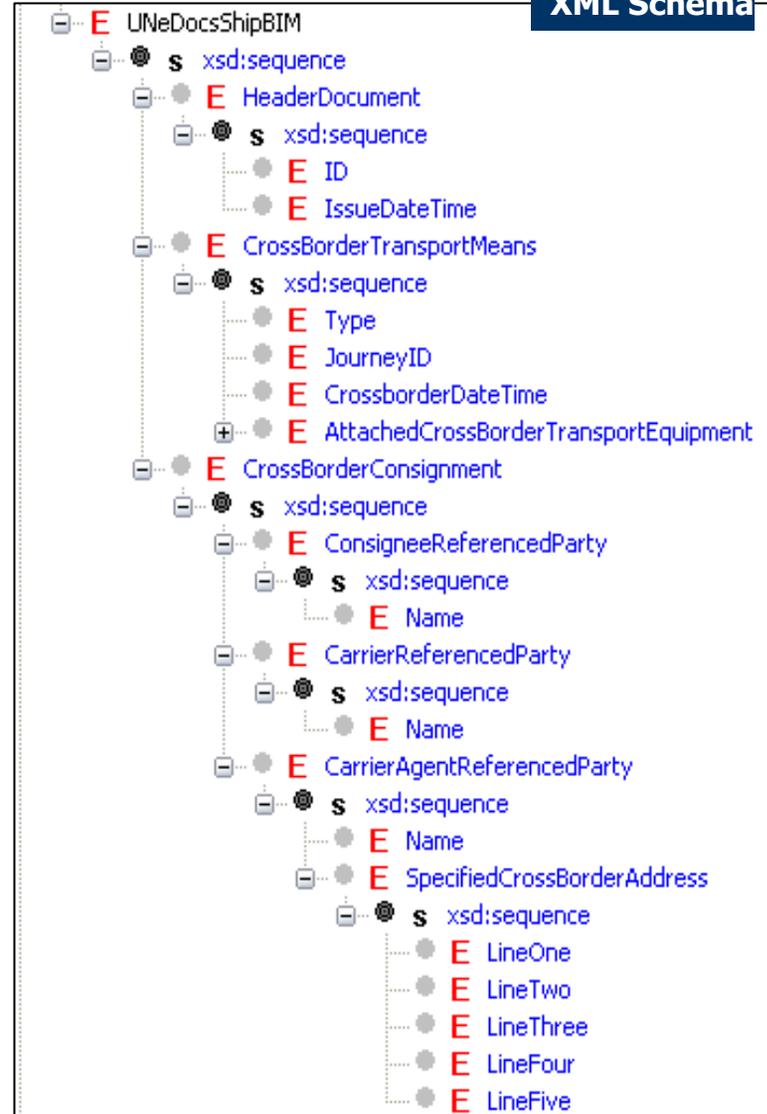


XML Schema for Automatic e-Document Exchange

Message Guideline



XML Schema



Agenda

- ❑ A National Strategic Agenda –
Trade Facilitation Enhancement with
Single Window e-Logistics
- ❑ Needs and Requirements of Single Window
- ❑ Technical Interoperability
- ❑ Data Interoperability
- ❑ Case Examples & Proof-of-Concept
- ❑ Recommendations



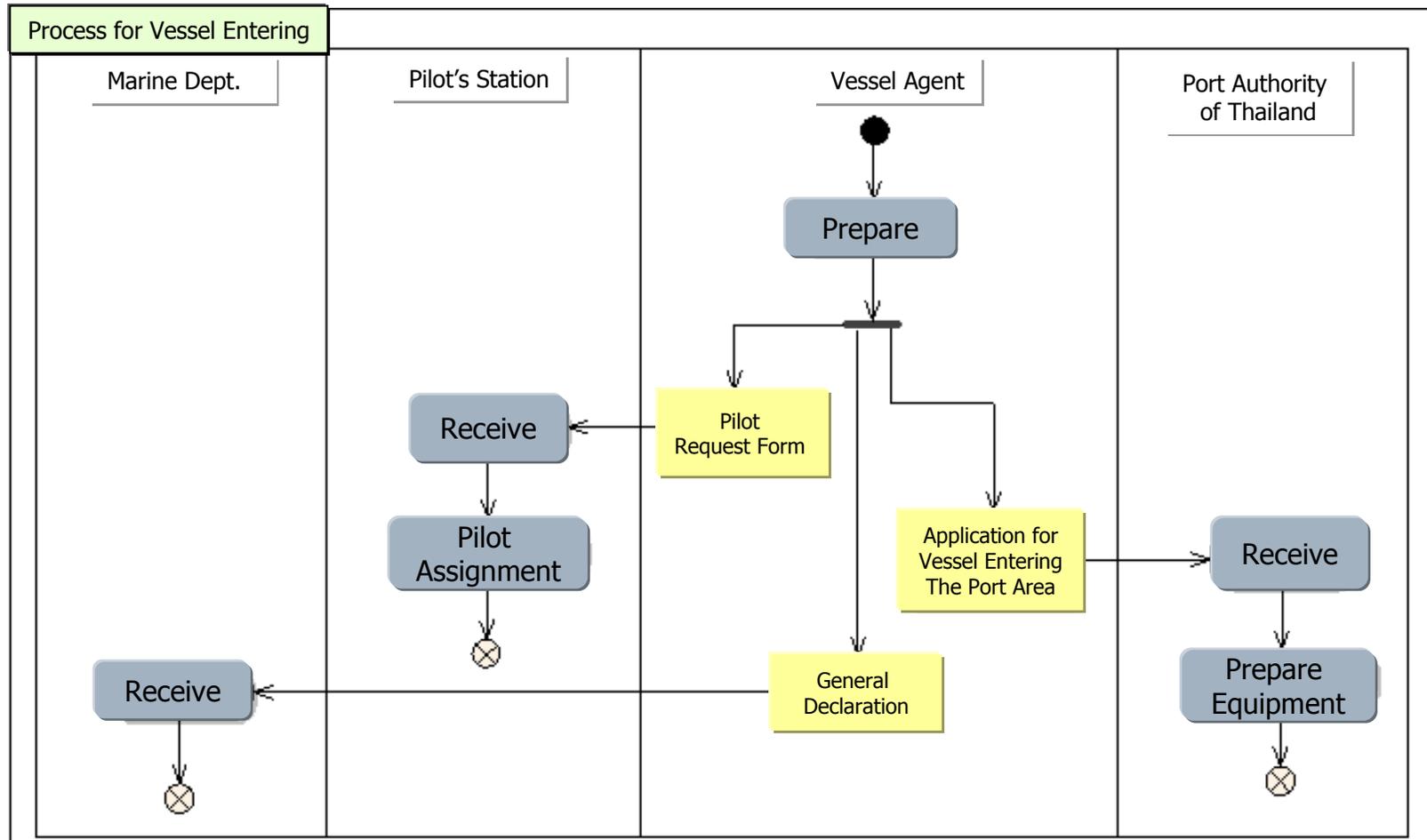
Case Example

Data Exchange Proof of Concept Project

Data Exchange between

Vessel Owners/Agents,
Marine Department,
The Port Authority of Thailand
and
Royal Thai Customs Department

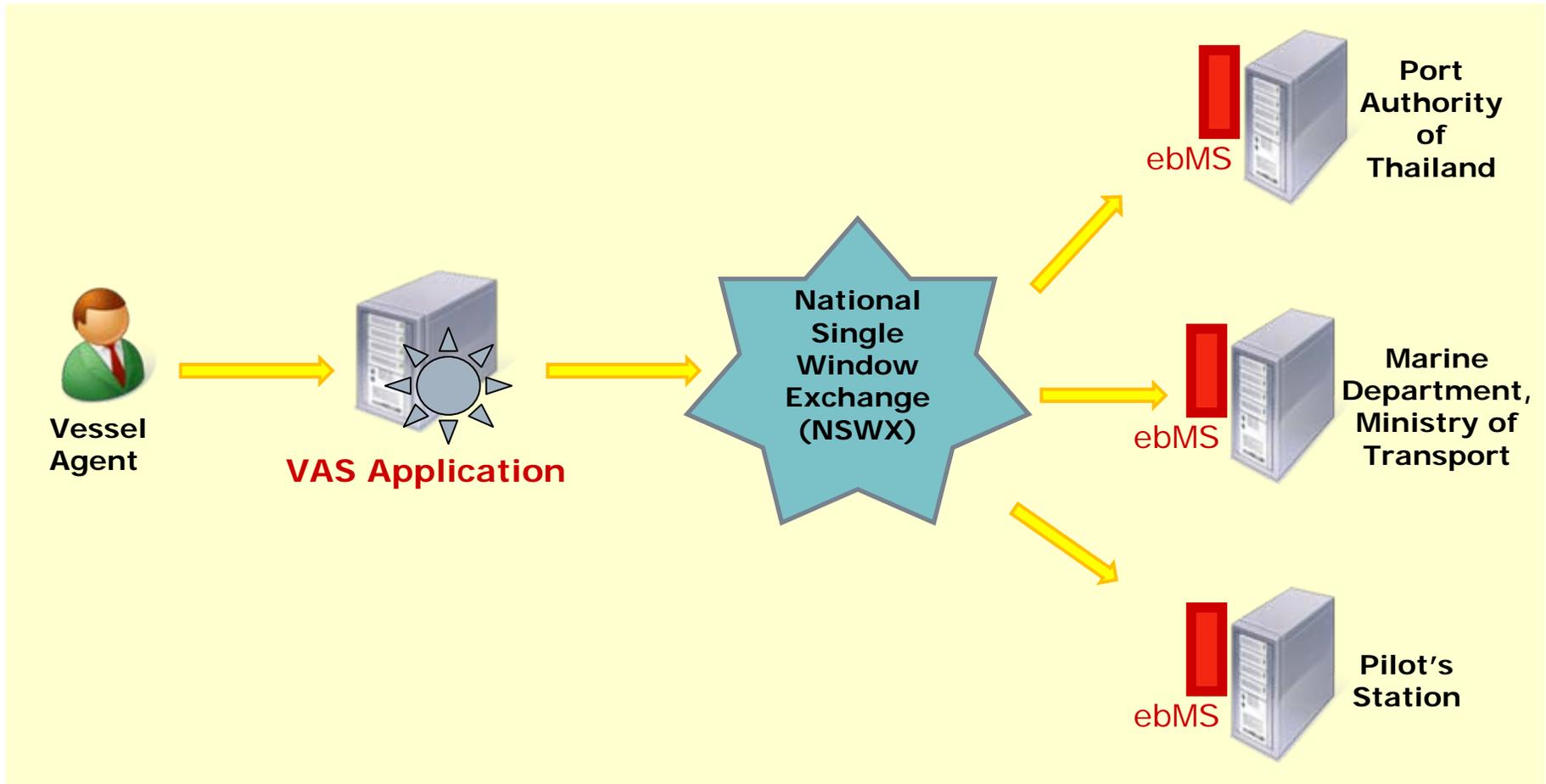
Vessel Entering the port Area System (existing)



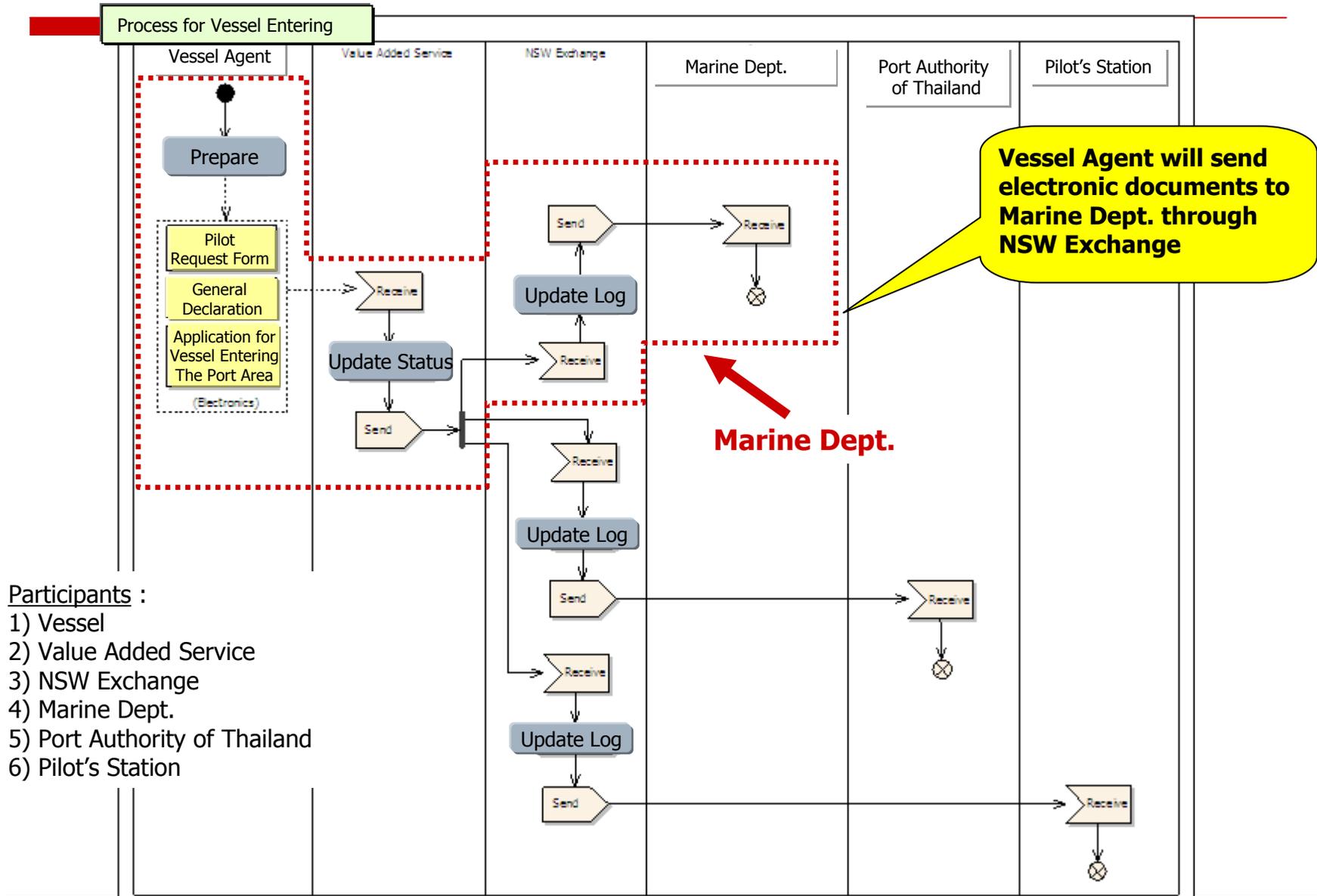
Problems :

- Duplicated Information have been sent to more than one government agencies
- Transport Cost for sending and receiving documents
- Losing time for sending and receiving documents

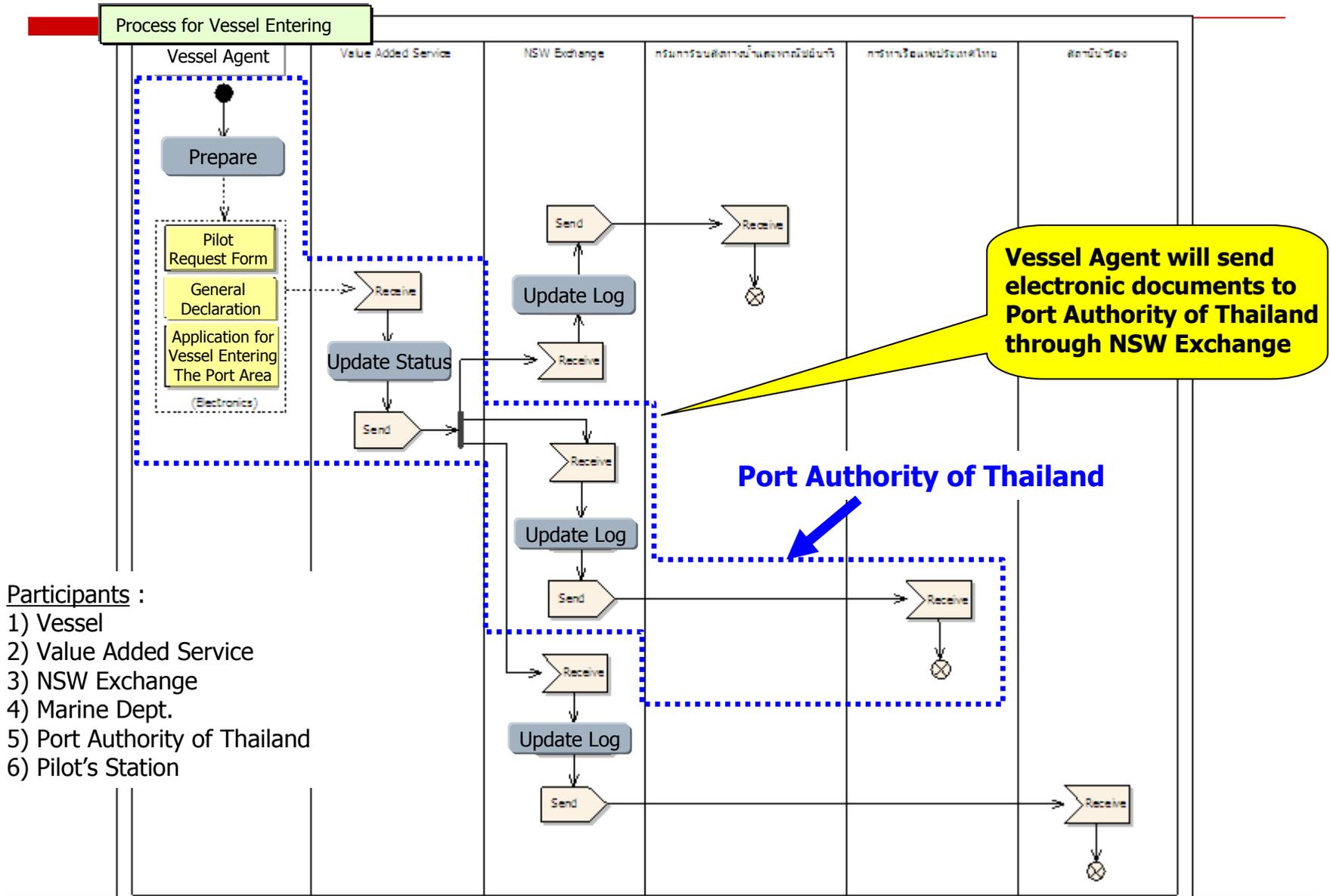
Concept Architecture



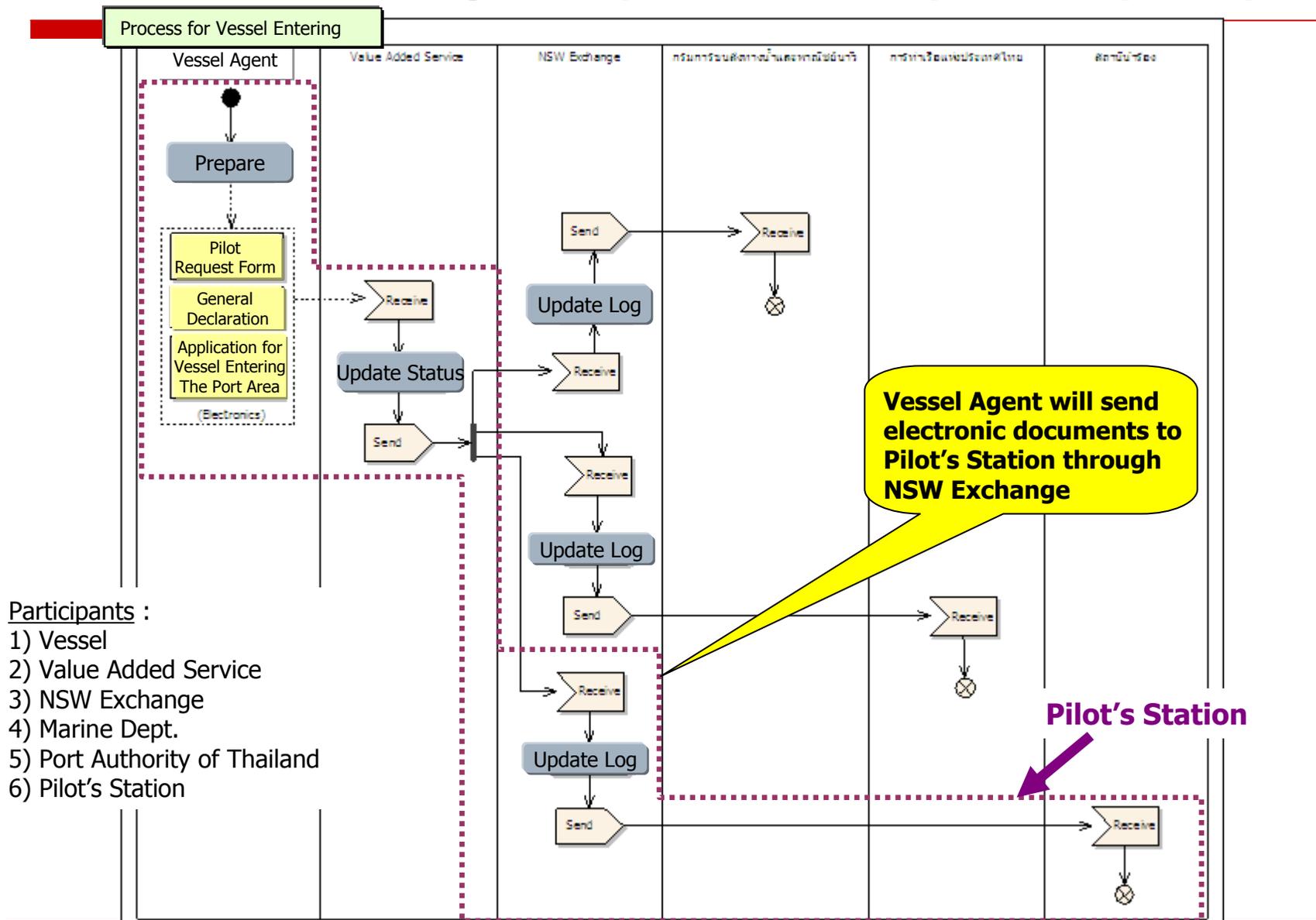
Vessel Entering the port Area System (new)



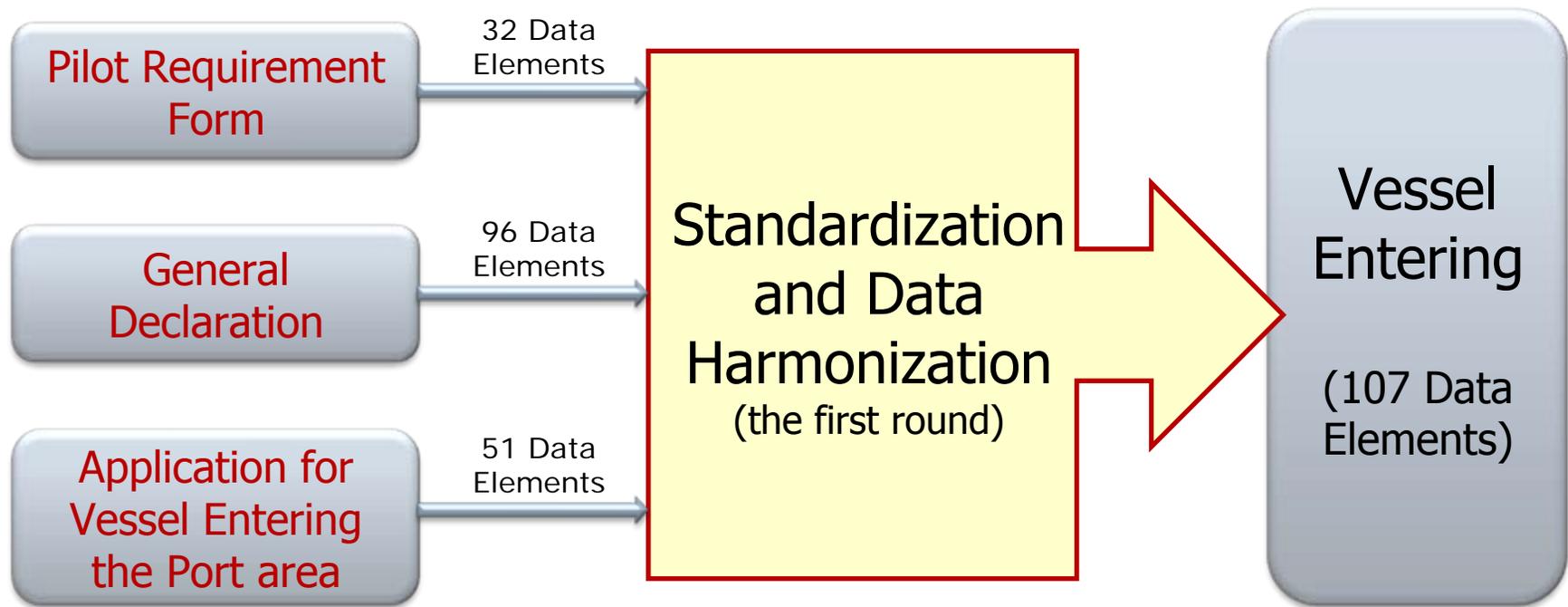
Vessel Entering the port Area System (new)



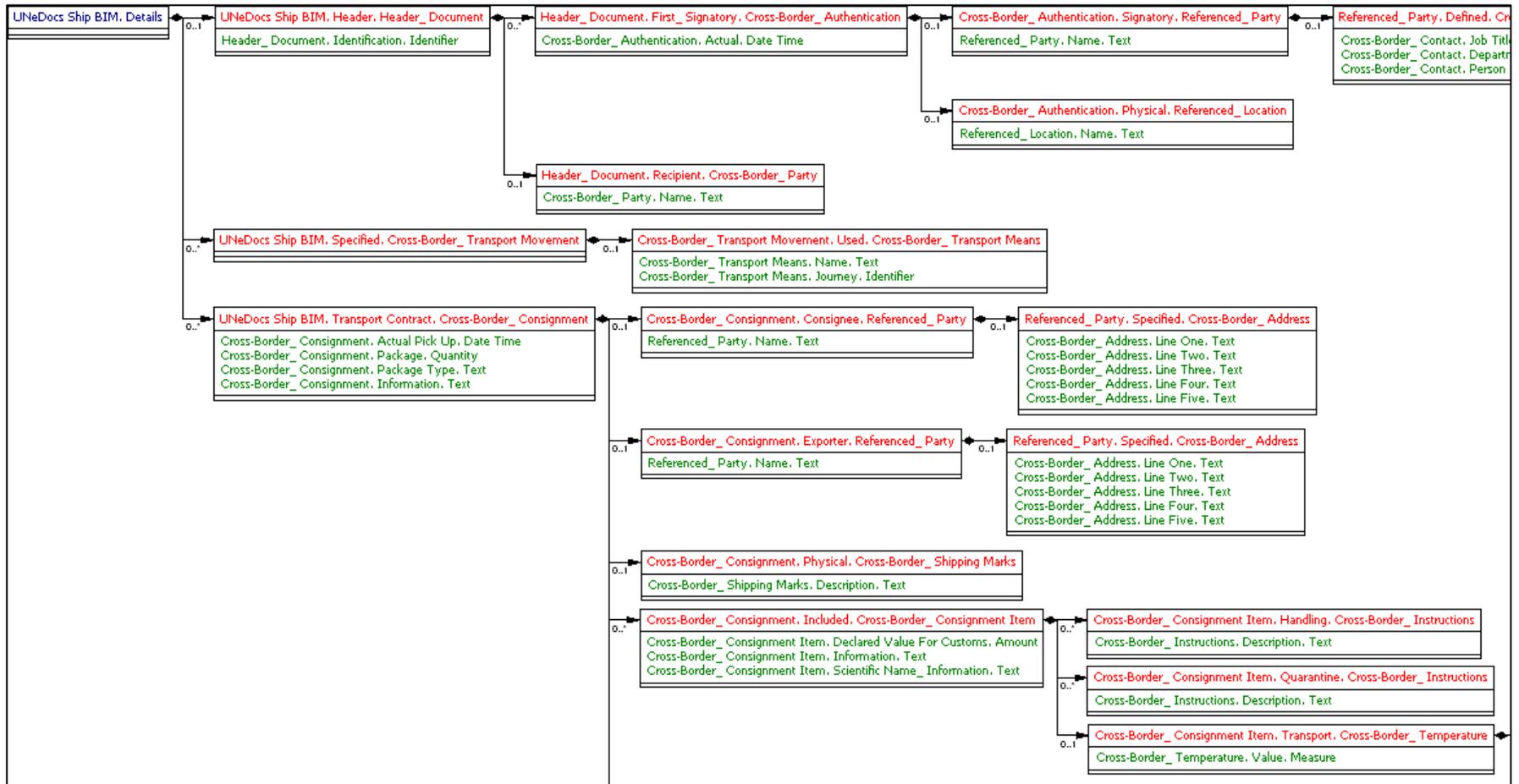
Vessel Entering the port Area System (new)



Data Harmonize for Proof of Concept (POC)



UML Class Diagram



Data Dictionary

	A	B	C	D
1	Data Model Guide for Phytosanitary Certificate based on "UNeDocs Ship BIM. Details"			
2				
3	UNeDocs Ship BIM. Header. Header_Document			
4	Box No. (if any)	Required Data Element	ASBIE	BBIE
5	0	No.		Header_Document. Identification. Identifier
6	18	Date [Issue/Authentication]	Header_Document. First_Signatory. Cross-Border_Authentication	Cross-Border_Authentication. Actual. Date Time
7	16	Stamp of Organization	Header_Document. First_Signatory. Cross-Border_Authentication Cross-Border_Authentication. Signatory. Referenced_Party	Referenced_Party. Name. Text
8	19	Name and Signature of Authorized Officer	Header_Document. First_Signatory. Cross-Border_Authentication Cross-Border_Authentication. Signatory. Referenced_Party Referenced_Party. Defined. Cross-Border_Contact	Cross-Border_Contact. Job Title. Text Cross-Border_Contact. Department Name. Text Cross-Border_Contact. Person Name. Text
9	17	Place of Issue	Header_Document. First_Signatory. Cross-Border_Authentication Cross-Border_Authentication. Physical. Referenced_Location	Referenced_Location. Name. Text
10	0	To: Plant Protection Organization of	Header_Document. Recipient. Cross-Border_Party	Cross-Border_Party. Name. Text
11	UNeDocs Ship BIM. Specified. Cross-Border_Transport Movement			
12	Box No. (if any)	Required Data Element	ASBIE	BBIE
13	6	Declared Means of Conveyance	Cross-Border_Transport Movement. Used. Cross-Border_Transport Means	Cross-Border_Transport Means. Name. Text Cross-Border_Transport Means. Journey. Identifier
14	UNeDocs Ship BIM. Transport Contract. Cross-Border_Consignment			
15	Box No. (if any)	Required Data Element	ASBIE	BBIE
16	1	Name of Exporter	Cross-Border_Consignment. Exporter. Referenced_Party	Referenced_Party. Name. Text
17	1	Address of Exporter	Cross-Border_Consignment. Exporter. Referenced_Party Referenced_Party. Specified. Cross-Border_Address	Cross-Border_Address. Line One. Text Cross-Border_Address. Line Two. Text Cross-Border_Address. Line Three. Text Cross-Border_Address. Line Four. Text Cross-Border_Address. Line Five. Text
18	2	Declared Name of Consignee	Cross-Border_Consignment. Consignee. Referenced_Party	Referenced_Party. Name. Text

National Data Harmonization Projects

Ministry of Transport [May 2007-Feb 2008] endorsed Project

- ❑ Process Analysis & Simplification of all 4 modes of import/export/transit transport procedures (ships, planes, trucks, trains)
- ❑ Data harmonization of 50 transport-related documents
- ❑ 3 Proof-of-concept projects (e-documents exchange for exporting cars, ships entering ports, air carriers schedule)

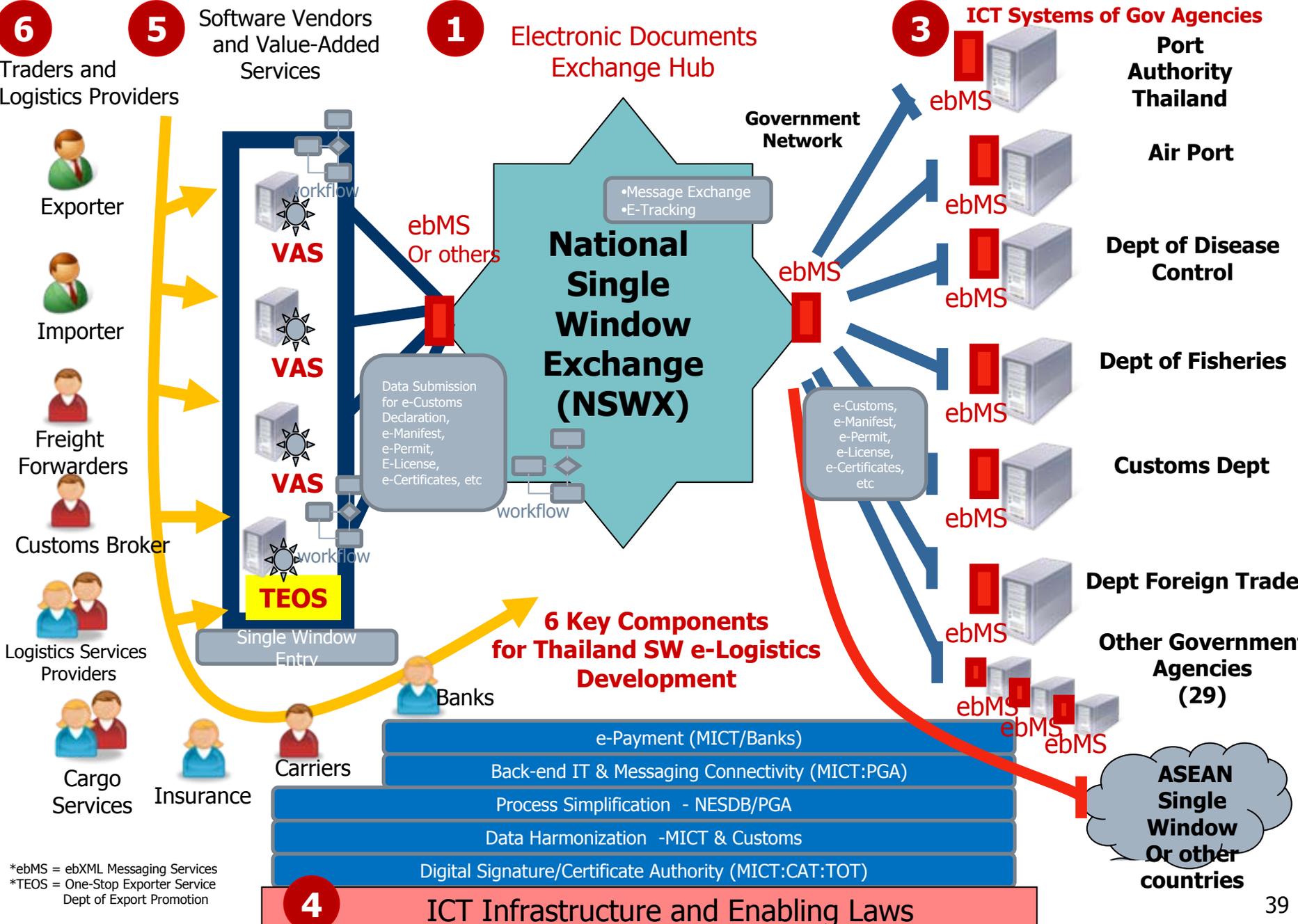
Ministry of ICT [Nov 2007 – Oct 2008] endorsed Project

- ❑ Data harmonization of another 50 permits/licenses/certificates, and other import/export-related documents
- ❑ UNeDocs Adoption Plan & Capacity Building



A common data set (with common data definitions)
data models based on UNeDocs, and
XML Schema
(ready for ~29 government agencies, transport & trade industry,
bank/insurance for step-wise implementation)

2 Regulation Mechanisms including costing and service level agreements



Agenda

- ❑ A National Strategic Agenda –
Trade Facilitation Enhancement with
Single Window e-Logistics
- ❑ Needs and Requirements of Single Window
- ❑ Technical Interoperability
- ❑ Data Interoperability
- ❑ Case Example: Proof-of-Concept
- ❑ Recommendations

Recommendations for SW Development

- ***A Comprehensive & Integrated Approach***
 - ***National-level Strategy*** to align business and ICT strategies, action plans and implementation be fully developed and endorsed by the Cabinet.
 - ***National-level Committees*** comprising of all related government agencies, and industry representatives appropriately formed with a right combination and long-term commitment.

- ***Business Models*** needed to be agreed, e.g.
 - *What is the business model?*
 - *How is it financed? (Public or private sectors, or PPP?)*
 - *What are the user fees (if any)?*
 - *How will the SW be sustained over the coming year?*
 - *Do the revenues generated cover operational costs or do they make a profit?*

Recommendations for SW Development

- *Scope and System Architecture established.*
- *Process Simplification should be continuously exercised.*
- *Technical Interoperability using open and international standards be adopted*
- *Data Harmonization* among document/data requirements of all import/export-related procedures (governments, business and logistics-related providers) be a very important exercise to *enable data interoperability*, thereby realizing the Single Window Development.
 - *UNeDocs data model* is one a good candidate to provide *a way to harmonize* our data requirements at the economy level as well as at the *regional levels*, e.g. harmonizing the work of National Single Windows, ASEAN SW, and APEC SW Initiatives (*complying with UNeDocs, and following UN/CEFACT Recommendation 34*)

What are the main lessons learned for establishing Single Window paperless trade?

- *Collaboration* – Meeting, Meeting & Meeting
[*90 % Talking & 10 % Doing* is necessary.]
- *Most important*: All people to tow one rope
in the same direction!
- "*Build the Great Wall bricks by bricks*"

Ref: UNECE Case Studies on Implementing A Single Window, June 2006.

Thank you for your attention

Dr. Somnuk Keretho
Director
Institute for IT Innovation
Kasetsart University
Thailand

sk@ku-inova.org

