ASEAN Single Window

Asian Forum for Information Technology (AFIT)
Tokyo, Japan
22nd-23rd October 2007
Global Trend for Single Window

- Europe – Finland, Sweden, Denmark and etc
- Electronic SAD for Sweden – Finland – Russia
- Asia – Singapore
- Africa – Senegal and Kenya
- Australia – Government Data Harmonization Project in preparation for National SW

LATEST
- Africa Alliance for E-Commerce (replica of PAA)
- ASEAN Single Window initiatives
Acronyms

- ASEAN
  - Association of Southeast Asian Nations
- ASW
  - ASEAN Single Window
- NSW
  - National Single Window
- IATFASW
  - Inter-Agency Task Force for ASW
- ASW TWG
  - ASEAN Single Window Technical Working Group
- ASW LWG
  - ASEAN Single Window Legal Working Group
- ASW SC
  - ASEAN Single Window Steering Committee
About ASEAN members

- ASEAN member countries:
  - Brunei
  - Cambodia
  - Indonesia
  - Lao PDR
  - Malaysia
  - Myanmar
  - Philippines
  - Singapore
  - Thailand
  - Viet Nam

- ASEAN + 6
  - Brunei
  - Indonesia
  - Malaysia
  - Philippines
  - Singapore
  - Thailand

- ASEAN + 4 (CLMV)
  - Cambodia
  - Lao PDR
  - Myanmar
  - Viet Nam

Visit [www.aseansec.org](http://www.aseansec.org) for more info about ASEAN
Introduction to ASEAN Single Window

Background Information
Introduction

- Recommendations, Bali Concorde II: Enhance competitiveness of ASEAN economies and goods in response -
  - Adopting the Single Window approach
  - Electronic processing of data and information

- Ultimate goal: Accelerating the customs clearance of goods and commodities in achieving higher economic efficiency through -
  - Streamlining and simplifying related procedures

- ASEAN Economic Ministers (AEM) and ASEAN Customs Directors-General
  
  - 2004: Inter-Agency Task Force (the Task Force) to design and establish the ASEAN Single Window (ASW)
December 9, 2005: AEM signed the Agreement to Establish and Implement the ASW (ASW Agreement) in Kuala Lumpur

The ASW would be fully operational in Brunei Darussalam, Indonesia, Malaysia, the Philippines, Singapore and Thailand by 2008 and in Cambodia, Lao PDR, Myanmar and Viet Nam before 2012

Strategic Plan of Customs Development 2005-2010 (adopted by ASEAN Finance Ministers): Target time of release of 30 minutes on average.
- The core of the ASW: Streamlining and simplifying intervention in process, procedures and formalities.

- Synchronized and integration of National Single Windows (NSWs) in securing a timely release of shipments.

- Main agenda of the Inter-Agency Task Force: Standardization of processes, data, information parameters and documentation in line with internationally recognized standards.
Latest Development

- IATFASW ended its mandate in 2005
- Replaced by ASW SC (Chaired by Philippines Customs)
  - ASW Technical Working Group (Chaired by Royal Malaysian Customs)
  - ASW Legal Working Group (Chaired by Philippines Customs)
DEFINITION OF ASEAN SINGLE WINDOW

“Definition of the ASEAN Single Window: For the purpose of the Agreement, the ASEAN Single Window is defined as the environment where national Single Windows operate and integrate. Functions and roles of a National Single Window are based on a single submission of data and information, of a single and synchronous processing of data and information and a single decision making for customs release and clearance. A single decision-making is uniformly interpreted as a single point of decision for the release of cargoes by the Customs on the basis of decisions taken by line ministries and communicated timely to the Customs.”

Extracted from the agreement signed by the ASEAN Economic Ministers in the 11th ASEAN Summit, Kuala Lumpur, December 2005
CONCEPTUAL MODEL:
National Single Window Systems

ASW = 10 National Single Windows
Structure of the ASEAN Single Window

- Composed of:
  - Technical components,
  - Functional and business processes and standardized data and information, and
  - Necessary legal backgrounds for its effective implementation in a specific environment

- ASW: An integrated environment of collective efforts of all stakeholders
The ASW structure has been designed on identified functions of individual stakeholders in the international supply chain to facilitate movement of goods and commodities across national borders.


It operates in the simplification and harmonization of customs procedures and formalities and standardization information parameters to international standards.
The ASW combines major functions of the international supply chain, namely, transportation, commercial transactions, movement of cargoes and means of transport.

The ASW streamlines intervention of various stakeholders and users with a view to optimize related processes.
- Practically, the National Single Windows (NSWs) and the ASW would form part of a more comprehensive program of e-Government in improving transactional efficiency and effectiveness.

- The NSWs and ASW contribute to improve not only services by customs authorities to the public but also promote good governance in optimizing the intervention by any related stakeholder.
Other achievements

- 8 Customs processes
- ASEAN Customs Declaration & information parameters
- AHTN – ASEAN Harmonized Tariff Nomenclatures
- Comparative Matrix of Customs data requirement for Import & Export of 10 ASEAN countries
- Pilot project between PH & TH Customs
  - Exchange of CEPT Form D & Export Declarations
  - Adopted ebMS (communication protocol) & UNeDocs (messaging standards)
Technical Aspect of ASW
National Single Window Stakeholders

- Other Government Agencies
- Banking & Insurance Industry
- Customs
- Trading Community
- Transport Industry
- ASEAN/International Link

NSW
NSW Architecture

Interface Modules
- Customs Systems
- OGA Systems
- Other Service Providers
- users with Back-end System
- Port Operator Systems
- Linkage to ASW / International SW

ASP Modules
- Commercial Doc Submission
- Manifest submission
- Customs Declaration submission
- Permit Application
- CO Application
- Payment settlement
- OGA related information
- Customs related information

Track & Trace
- Customs Declarations statuses
- Supporting documents
- OGA Permits & CO statuses
- Payment statuses
- Trade statistics

User Interface
- H/P
- PDA
- GPS
- SMS
- PC
- SP
- ASW
- VAN

ISP
- Banks
- CA
- ISP

Payment Gateway
Translator
Data Warehouse
Security Domain
Connectivity - MNS, Internet and Wireless

Other mode of User Interface

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ASW Technical Environment
ASW Environment

ASEAN eCustoms Service

Connectivity (URL Link)

National Single Window
- ASEAN Information Service
  - Other information related to ASEAN

Security Domain
- Certificate Manager & Crypto Database

Communication
- Communication Module

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Exclusive Link – Intra-ASEAN NSW
**ASW Process Flow (G2G)**

**Exporting Country**
- 1a. CEPT Form D or CO
- 1b. CEPT Form D or CO
- 2a. Export Declaration

**Importing Country**
- Scenario 1:
  - Verification against Import Dec and its supporting doc
- Scenario 2:
  - Pre-arrival clearance process
  - Verification against Import Dec

**Scenarios:**
1. CEPT Form D or CO Info (Exporting OGA to Importing Customs)
2. Exp Dec Info (Exporting Customs to Importing Customs)
ASW Process Flow (B2B)

Scenarios:
1. Invoice Info (Exporter to Importer)
2. Exp Dec Info (Exporting FA to Importing FA)
ASW / NSW ICT Requirement
NSW Technical Requirement

- Data harmonization
  - Customs
  - Other Government Agencies
  - Commercial documents

- Business process re-engineering
  - Roles and responsibility of stakeholder
  - Trade Facilitation and Supply Chain business requirement
  - Aligning / re-engineering of business processes or flow

- Standards
  - A recommended set of NSW & ASW standards
    - Communication protocols
    - Messaging
    - PKI
    - Code lists
NSW Technical Requirement…cont

- Robust infrastructure
  - **Message translator**
    - Capability to transform message from any to any format
  - **Vast range of communication channels**
    - Ability to support wide range of communication protocols
  - **Business Process flow engine**
    - Ability to respond promptly to new requirements and change in ASW / NSW processes e.g. Revised Kyoto conventions
  - **Security domain**
    - Capability to ensure network security – pre-emptive and preventive
    - Messaging security – digital certificate – data encryption at server, message header, or/and data level
NSW Technical Requirement…cont

- **Payment gateway**
  - Interfaces to banking services to facilitate the financial settlement

- **Data warehouses**
  - Capacity to store large volume data for services such as Track & Trace, statistical report or customer support
Malaysia’s Scenario

Dagang Net Group of Companies
The Suggested NSW Environment

- Single Submission
- Single and Synchronous Processing of Data
- Single Decision
Reality Check
Case Study

No one party can produce complete CUSDEC Information
Complexity of Procedures
Lateral Data Flow Across Traditional Vertical Industry Cultures / Common Data Flowing Through A Segmented (Disjointed) Value Chain

Various / Different Controlling Govt. Agencies

- Manufacturer
- Distributor
- Transport Co.
- Insurance Co.
- Forwarding Agent
- Shipping Agent
- Trade Financier

Document-specific data +
- Description of shipment.
- Value of shipment.
- Sender / Seller details.
- Receiver / Buyer details.

Production & Sourcing
- Logistics & Haulage
- Finance - Insurance
- Clearing & Shipping
- Finance - Settlement
Dagang Net Exchange’s role in Trade / Supply Chain Aggregation

- Extended Data Re-use
- Accuracy
- Efficiency
- Speed
- Single point-of-reference
- Cost Savings
Single Connectivity, Multiple Access

- Exporters
- Importers
- Hauliers
- Warehouse operators
- Landbridge operators
- Inland Port operators
- Port operators
- Shipping Agents
- Forwarding Agents
- Freight Forwarders
- Cross-Border Partners
- Banks
- Insurance Cos.
- Customs
- Free Zone Authorities
- Other Government Agencies
- Dangerous Goods Authorities
- Port Authorities / Dept of Civil Aviation
- Certificate of Origin Authorities
- Ministry of International Trade and Industry
- Ministry of Transportation
- Empty Depot Operators
- Airport Ground Handlers
- Cross-Border Partners

Dagang Net
ePermit’s Web of “Single Window”

- FEDERAL AGRICULTURE MARKETING AGENCY (FAMA)
- MALAYSIA TIMBER INDUSTRY BOARD (MTIB)
- STANDARDS RESEARCH INSTITUTE (SIRIM)
- FISHERIES DEPARTMENT
- DEPT. OF VETERINARY SERVICES (DVS)
- PESTICIDE BOARD
- ATOMIC ENERGY LICENSING BOARD
- DEPARTMENT OF WILDLIFE
- COCOA BOARD
- PINEAPPLE INDUSTRY BOARD
- ROYAL MALAYSIAN POLICE
- PLANT QUARANTINE DEPT.
- DEPT. OF ENVIRONMENT
- PHARMACEUTICAL SERVICES
- DEPT. OF STATISTICS
- ENERGY COMMISSION
- PADDY & RICE INDUSTRY DIVISION
- FILM CENSORSHIP BOARD
- MINISTRY OF INTERNATIONAL TRADE & INDUSTRY
- OTHER PERMIT ISSUING AGENCIES

End-Users

- Importers
- Exporters

Dagang Net

- Banks
- Customs
- Forwarding Agents
Holistic Approach
Capturing the Source Information...going UpStream

Exchange of Commercial Documents between Buyers and Sellers (Domestic and International) - **OFX**

Reusability of data from Commercial Documents for regulatory purposes e.g. permit application / Certificate of Origin - **e-Permit**

Reusability of data from Commercial Documents for logistics purposes – **Logistics**

Reusability of data from Commercial Documents for Financials e.g. payment, Letter of Credit etc – **Financial Services**

Reusability of data from Commercial Documents for Customs Declarations - **MyDeclare**
Eco-Environment

EAI

CLIENT

ASP

Web

Leased Line / Dial Up

Communications

Security

Translation Engine

Business Rule Engine

CBeX

Database

Customs Declarations
E Permit Services
Financial Services
Logistics
Order Fulfillment Exchange

Leased Line / Dial Up

Eco-Environment
Dagang Net’s Support Infrastructure

Knowledge and Expertise
What It Takes...

Service Portal

Technology Renewal

Strategic Alliances

Community Development

Service Measurements

Customer Relationship Management

200 or more accountable Employees

Data Repositories

Technical Support

Technology Infrastructure

Standards & Protocols

Application Systems

Product Development

Careline Services

Marketing & Sales

Data Centre Operations

Systems Development

Detailed Industry Knowledge

Nationwide Offices

International Cooperation
Single Submission – Multiple Usage

ASEAN Single Window – National Single Window
The Flow of Information

Dagang Net

Order Fulfillment Exchange  e Permit / e CO Services  Customs Declaration Services  ASEAN Single Window  Cross Border Extension

Overseas

Seller

Buyer

OGA

Customs

Buyer

Permit

Customs Declaration

CEPT CO

Invoice
The Flow of Information

Order Fulfillment Exchange

e Permit e CO Services

Customs Declaration Services

ASEAN Single Window

Cross Border Extension

Seller

Invoice

CEPT CO

Permit

Customs Declaration

Overseas

Buyer

OGA

Customs

Buyer

Dagang Net

Dagang Net

Overseas

ASEAN

ASEAN
The Flow of Information

Dagang Net

- Order Fulfillment Exchange
- e Permit / e CO Services
- Customs Declaration Services
- ASEAN Single Window
- Cross Border Extension

Seller

Overseas

OGA
The Flow of Information

Dagang Net

Order Fulfillment Exchange  e Permit / e CO Services  Customs Declaration Services  ASEAN Single Window  Cross Border Extension

Seller

CEPT CO

Overseas

Buyer
Thank You

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