Implementing the Single Window Vision

–Single Window Evolution and Master Plan–

International Islamic Trade Finance Corporation (ITFC)
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This presentation

- Information Systems in cross border supply chains
- Single Window Evolution Model
- The Single Window Master Plan
- Standards and best practice for Single Window implementation
Integrated Customs Systems

Key functionalities
• Supports entire clearance process
• Integration of Declarants, agents, OGA
• electronic risk assessment
• EDI with other agencies/declarants

Contribution to TF
• Faster processing
• Adoption of standards and best practice
• Transparent and uniform processing
• Less contact between human beings
• Integration of stakeholders
• Offers new possibilities: Risk management, trade statistics, pre-arrival processing
Regulatory Systems/Logistic Systems

Key functionalities
• Integration of different Government agencies
• Integration of different private sector stakeholders
• Better regulation/and or efficiency

Contribution to TF
• Harmonize and standardize exchange of information through the supply chain
• Tracking and tracing
• Increased security and compliance
• Smart supply chain management
Port Community Systems

“A Port Community System is an electronic Platform which connects the multiple systems operated by a variety of organizations that make up a seaport, airport of inland port community.” (EPCSA)

Contribution to TF

Harmonize and standardize exchange of information through the transport chain

Integrate between the commercial and regulatory operators in a transport hub

Bridge to other SW services (Customs, ICS, NCTS, Transit, maritime SW, ..)
Single Window Systems

Contribution to TF

Harmonize and standardize exchange of information for cross border trade

Integrate regulatory agencies and private sector

Change management

Automation and introduction of eBusiness
A trend towards IIS in developed economies

Interagency Information System (IIS): Establishes collaboration between stakeholders through sharing of information

- IIS fast developing in advanced trading nations
- IIS reaching developing countries
- Drivers:
  - complexity of modern supply chains
  - global competition
  - Need for security, consumer and environment protection

⇒ The SW strategy needs to provide a holistic vision of how the different IIS will evolve and collaborate.
Single Window Evolution Plan Korea

UNECE 5 stage roadmap for Paperless Trade

- UN suggested 5 stage action plan for seamless Paperless Trade
  (Roadmap Towards Paperless Trade, ‘06)

Building National Platform For Paperless Trade

Cross-border Transaction

Regional & Global Information Exchange

Stage 5

Integrated National Platform

Stage 4

Logistic Area (Ports, Airports)

Stage 3

Licensing & Certificate Agencies

Stage 2

e-Customs System

Stage 1
Managing the Implementation: The Master Plan

- Paperless Customs
- Integration with other regulatory bodies
- Port Community Systems
- National SW
- Regional SW

Time
### Single Window Development in Thailand

<table>
<thead>
<tr>
<th>Year</th>
<th>Event</th>
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<tbody>
<tr>
<td>1998</td>
<td>Submission of declaration manually or electronically via EDI</td>
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<tr>
<td>2000</td>
<td>Logistics development as one of the national agenda in <em>Thailand’s Competitiveness Strategy</em></td>
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<tr>
<td>2001</td>
<td>Implementation Plan for Thailand’s SWeL approved by the Cabinet</td>
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<tr>
<td>2004</td>
<td>Business model study inclusive of analysis and simplification of business processes in export and import of strategic products</td>
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<tr>
<td>2005</td>
<td>Analysis and simplification of business processes for cross-border movement of goods in 4 modes (road, rail, sea, air)</td>
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<td>2006</td>
<td>Data Harmonization Phase 1: transport documents</td>
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<td>2007</td>
<td>Data Harmonization Phase 2: permits, licenses, certificates, and their application forms from 21 OGAs</td>
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<tr>
<td>2008</td>
<td>Data Harmonization Phase 3: documents required by OGAs and trade community including bank and insurance</td>
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<tr>
<td>2009</td>
<td>Business model study inclusive of analysis and simplification of business processes in export and import of strategic products</td>
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<tr>
<td>2010</td>
<td>Business model study inclusive of analysis and simplification of business processes in export and import of strategic products</td>
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</tbody>
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**Key Events and Acronyms:**

- **SWeL**: Single Window e-Logistics
- **MOC**: Ministry of Commerce
- **OGAs**: Other government agencies
- **DOF**: Department of Fisheries
- **EDI**: Electronic Data Interchange
- **MITC**: Ministry of Information and Communication Technology
- **TH eGIF**: Thailand’s e-Government Interoperability Framework
- **NSWx**: National Single Window hub for information sharing and exchange
- **DLD**: Department of Livestock Development
- **PKI**: Public Key Infrastructure
- **ebXML/XML/PKI**: Electronic Data Interchange using ebXML/XML/PKI
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Single Window Project without a good plan..

"If you don't know where you are going, any road will do" (Chinese Proverb)
The Single Window Master Plan

UNECE/ESCAP Guide for Single Window master plan decomposes the implementation challenge into manageable sub projects

1. Stakeholder Requirements Identification and Management
   2. Single Window Vision Articulation
   3. Stakeholder Collaborative Platform Establishment
   4. Business Process Analysis & Simplification
   5. Data Harmonization & Documents Simplification
   6. Service Functions Design
   7. Standards and Interoperability Establishment
   8. Legal Infrastructure Institution
   9. Business and Governance Models Enforcement
   10. IT Infrastructure & Solutions Execution

Barriers in Interoperability
Regional Connectivity
System Development Change Management

Masterplan decomposing challenges into smaller and more manageable sub-projects
UNNEXT Guide for Single Window Planning

- Policy makers and managers develop the national SW vision and roadmap
- Brings together standards, research and experience from practitioners
- Evolution of the SW: phases, objectives, costs, benefits, indicators
- Structured approaches to plan and manage SW projects (TOGAF)
- A network for exchange of experience and knowledge: training, national case studies
Single Window is at the intersection of technology, business practice and law

- Create an enabling legal environment
- Legal challenges
- Legal gap analysis for SW
- Role of international best practice (UNCITRAL)
- Specific knowledge areas: data integrity, electronic signatures, ..
- Regional aspects of information exchange
- A network for exchange of experience and knowledge: training, national case studies
UNNEXT Guide for Business Process Analysis

- Analyse and simplify Business Processes for SW
- Analyse processes
- Identify bottlenecks
- Improve processes
- Automate processes
- Based on open standards: UML
- A network for exchange of experience and knowledge: training, national case studies
Data exchange in SW needs standards

- Simplification, standardization of documents and data
- Document alignment (UN Layout Key)
- National data dictionary (UNTDED)
- Data models (WCO DM and CEFACT CCL)
- Electronic Documents (XML, EDIFACT)
- A network for exchange of experience and knowledge
Recommendations for policy makers (I)
National Evolution Model

Develop a plan for the evolution of the national trade platforms

- A national evolution model
- Assess countries current state (as is)
- Identify the NEXT step in evolution (to be)
- Define objectives and indicators of achievement
- Evaluate cost and benefits
- Decide
Recommendation for policy makers (II)
The Single Window Master plan

Develop a master plan for the development of each trade platform:

- Decomposition of challenge in sub projects
- Structured approach to SW implementation:
  - Objectives and KPI
  - Process Analysis and simplification
  - Document and data harmonization standards
  - Legal framework
- Define different implementation phases
- Measure implementation progress
- Ensure stakeholder and policy support
Thank You

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