UNNExT Workshop on Trade Facilitation and Paperless Systems for Agrifood Products

Almaty, Kazakhstan
4-6 May 2015
Role of ICT Technology in Implementation of the WTO Trade Facilitation Agreement

Роль ИКТ технологий в реализации Соглашения ВТО по упрощению торговли

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04 May 2015
Almaty, Kazakhstan
ICT context of the WTO TFA implementation

- 10 years of TFA negotiation = 10 years of ICT evolution
- New concepts and tools (paperless trade, e-customs, Single Window, one-stop-shop, integrated border management, pre-arrival processing, cargo targeting, remote release, risk management, performance measurement,)
- New technology (Internet, web-services, SOA, electronic data interchange, XML, e-payment, e-signature, multimedia, barcodes, digital codes tracing, e-clouds, dashboards, OLAP, smartphones)
- New technical means (scanners, video surveillance, GPS, barcode readers, biometrics, electronic barriers, e-weightbridges, portable devices)
- Lack of expertise, ICT infrastructure and human capacity; manual or semi-manual documents processing in many countries
Common challenges for ICT technology in paperless trade

- Lack of political will, frequent changes of management and strategies;
- Lack of results oriented approach, prevalence of conceptual exercises;
- Lack of legal instruments;
- Lack of inter-agency coordination;
- Lack of financial resources, need for donors support;
- Lack of expertise, infrastructure and human capacity;
- Lack of coordination in ICT developments, competitive environment;
- Lack of interoperability between ICT systems (e-Customs, Single Window, e-licensing, e-payment etc);
- Lack of free-of-charge applications for trade, particularly for SME
- Lack of transparency, vested interests, etc.
Article 1. Publication and availability of information

Information Available Through Internet, Enquiry Points

ICT Solutions

- Integrated tariff
- E-portal
- Language bar
- Web-services
- Online enquiries
- Tariff simulation
- Online application for supporting documents
- Hierarchical and immediate application of any updates
- General public access to foreign trade statistics, legal texts, news
- Interface with other e-Government portals
Article 5. Other measures to enhance impartiality, non-discrimination and transparency

Article 6. Disciplines on fees and charges

Notifications on enhanced controls or inspections, detentions, test controls
Disciplines on fees, charges and penalties

ICT Solutions

- Automated notifications, early warning
- Automated allocation of controls
- Multi-agency risk management
- Electronic Inspection Act
- E-payment
- Document tracking utility
- Performance measurement (WCO)
Article 7. Release and clearance of goods

Pre-arrival processing

ICT Solutions

- Real-time data exchange, XML format
- Electronic Cargo manifest
- Cargo targeting system (WCO)
- TIR-Electronic Pre-arrival Declaration (IRU)
- Advanced air-cargo information (IATA)
- Interface with port community systems etc.
Article 7. Release and clearance of goods

Electronic Payment

ICT Solutions

- E-payment integrated with e-Customs
- Link of e-Customs to Central Bank, Treasury, banks
- Pre-paid account management
- Link to taxpayers personal accounts
- Black lists/white lists in risk management
- Full tracking of e-payment transactions
- Post-audit
- Performance measurement (WCO)
Article 7. Release and clearance of goods

Risk management, post-clearance audit

ICT Solutions

- Full coverage of all Customs operations (import, export, transit)
- Automated workload management
- Automated allocation of inspectors for controls
- Risk channels (red, yellow, green, blue, pink)
- Partial physical inspection (sampling)
- Valuation control
- Black lists/white lists
- Cargo targeting
- Early warning signals
- Electronic Inspection Act
- Feedback analysis (dashboard, OLAP)
- Full tracking of transactions
- Post-audit
- Performance measurement (WCO)
# Risk Management (workload and control channels)

## Selectivity control document

<table>
<thead>
<tr>
<th>Model</th>
<th>Customs reference</th>
<th>Declarant reference</th>
<th>Assessment reference</th>
<th>Nbr of Items</th>
</tr>
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<tbody>
<tr>
<td>IM</td>
<td>2014 I 14BABNX00000003</td>
<td>testccc3</td>
<td>2014 L 2</td>
<td>10/06/2014</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1</td>
</tr>
</tbody>
</table>

### Declarant

- **200428340004**
- **IN TIME d.o.o. Sarajevo**
  - **Sarajevo - Ilidža**
  - **BOSNE SREBRENE 127**

### Colors

- **1-st Selected Color**
  - Red - 2014/06/10 14:40:10

- **2-nd Color (Rerouted)**
  - Yellow - 2014/06/10 14:55:30

- **3-rd Color (Rerouted)**
  - Green - 2014/06/10 14:57:13

- **4-th Color (Rerouted)**
  - Empty

- **5-th Color (Rerouted)**
  - Empty

- **6-th Color (Rerouted)**
  - Empty

- **7-th Color (Rerouted)**
  - Empty

- **Last Color**
  - Green

### Assigned Section

<table>
<thead>
<tr>
<th>Assigned Section</th>
<th>Assigned Officer</th>
<th>Officer Type</th>
<th>Selection Criteria involved</th>
<th>Work completed</th>
<th>Check</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>IMPTEST</td>
<td>ionc</td>
<td>Officer</td>
<td>IMPTEST</td>
<td>2014-06-10 1...</td>
<td>✅</td>
<td>Satisfactory</td>
</tr>
</tbody>
</table>
Risk Management (Valuation control)
Article 7. Release and clearance of goods

Establishment and publication of average release times

ICT Solutions

- Automated workload management
- Release timers (risk management)
- Time release study (WCO)
- Performance measurement (WCO)
Article 7. Release and clearance of goods

Trade Facilitation measures for authorized operators

ICT Solutions

- Special registration procedure for AEO
- Unique reference code
- White lists or golden lists
- Green corridors
- Simplified e-declaration, summary declaration
- Electronic certification
- E-payment
- Customs Warehouse management
- Post-clearance audit
- Time-release monitoring
Article 7. Release and clearance of goods

Expedited shipments, Perishable goods

ICT Solutions

- Advanced information
- Interface with air cargo and express post systems
- Green corridors
- Electronic certification
- E-payment
- Customs Warehouse management
- Inward processing procedures
- Post-clearance audit
- Time-release monitoring
- Special procedures for humanitarian consignments (UNCTAD-OCHA)
Article 8. Border agency cooperation

ICT Solutions

- Pre-arrival information
- Cargo targeting system
- Multiagency risk management
- Multiagency inspection act
- Early warning signals (SMS, e-mail)
- Electronic licensing, certification, authorization
- Automatic barriers, barcode readers
- Interface with video-equipment, scanners, laboratories
- Customs warehouse management
- Performance measurement, time release study
- Anticorruption, anti-smuggling, anti-trafficking tools
Border agency cooperation

Single electronic pre-arrival form for vessels, passengers, crews

<table>
<thead>
<tr>
<th>CREW, PASSENGERS, STORES DECLARATION</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>PART A: REGISTRATION DETAILS</strong></td>
</tr>
<tr>
<td>1. Name of vessel</td>
</tr>
<tr>
<td>2. IMO number</td>
</tr>
<tr>
<td>3. Call sign</td>
</tr>
<tr>
<td>4. Country of registration (flag state)</td>
</tr>
<tr>
<td>5. Port of registration</td>
</tr>
<tr>
<td>6. Date of registration</td>
</tr>
<tr>
<td>7. Registration number</td>
</tr>
<tr>
<td>8. Name of owner (surname/family name, first name)</td>
</tr>
<tr>
<td>9. Owner's address (street number, street, city, country)</td>
</tr>
<tr>
<td><strong>PART B: VESSEL DETAILS</strong></td>
</tr>
<tr>
<td>10. Vessel type</td>
</tr>
<tr>
<td>11. Gross tonnage</td>
</tr>
<tr>
<td>12. Length (metres)</td>
</tr>
<tr>
<td>13. Breadth (metres)</td>
</tr>
<tr>
<td>14. Draft (metres)</td>
</tr>
<tr>
<td>15. Air draught (metres)</td>
</tr>
<tr>
<td>16. Speed (knots)</td>
</tr>
<tr>
<td><strong>PART C: VOYAGE DETAILS</strong></td>
</tr>
<tr>
<td>17. Voyage number</td>
</tr>
<tr>
<td>18. Port of embarking (departure)</td>
</tr>
<tr>
<td>19. Date &amp; time of arrival</td>
</tr>
<tr>
<td>20. Date &amp; time of departure</td>
</tr>
<tr>
<td>21. Marine</td>
</tr>
<tr>
<td>22. Berth</td>
</tr>
<tr>
<td>23. Agent</td>
</tr>
<tr>
<td>24. Period of stay</td>
</tr>
<tr>
<td><strong>PART D: HEALTH PROTECTION</strong></td>
</tr>
<tr>
<td>25. Injuries</td>
</tr>
<tr>
<td>26. Accidents</td>
</tr>
<tr>
<td>27. Deaths</td>
</tr>
<tr>
<td>28. State of health on board</td>
</tr>
<tr>
<td><strong>PART E: CREW AND PASSENGERS DETAILS</strong></td>
</tr>
<tr>
<td>29. Persons on-board</td>
</tr>
<tr>
<td>30. Stowaways</td>
</tr>
<tr>
<td>31. Persons landing</td>
</tr>
<tr>
<td>32. Persons in transit</td>
</tr>
<tr>
<td><strong>Nature and number of identity document (merchant's passport)</strong></td>
</tr>
<tr>
<td>33. Nature</td>
</tr>
<tr>
<td>34. Number</td>
</tr>
<tr>
<td>35. Place of issue (country)</td>
</tr>
<tr>
<td>36. Issuing date</td>
</tr>
<tr>
<td><strong>Nature and number of identity document (merchant's passport)</strong></td>
</tr>
<tr>
<td>37. Nature</td>
</tr>
<tr>
<td>38. Number</td>
</tr>
<tr>
<td>39. Place of issue (country)</td>
</tr>
<tr>
<td>40. Issuing date</td>
</tr>
<tr>
<td><strong>Nature and number of identity document (passenger's passport)</strong></td>
</tr>
<tr>
<td>41. Nature</td>
</tr>
<tr>
<td>42. Number</td>
</tr>
<tr>
<td>43. Place of issue (country)</td>
</tr>
<tr>
<td>44. Issuing date</td>
</tr>
<tr>
<td><strong>Nature and number of identity document (passenger's passport)</strong></td>
</tr>
<tr>
<td>45. Nature</td>
</tr>
<tr>
<td>46. Number</td>
</tr>
<tr>
<td>47. Place of issue (country)</td>
</tr>
<tr>
<td>48. Issuing date</td>
</tr>
<tr>
<td><strong>PART F: EFFECTS INELIGIBLE FOR RELIEF FROM CUSTOMS DUTIES &amp; TAXES / SUBJECT TO PROHIBITIONS &amp; RESTRICTIONS</strong></td>
</tr>
<tr>
<td>49. Firearms on board</td>
</tr>
<tr>
<td>50. Stores on board</td>
</tr>
<tr>
<td>51. Sports (quantity)</td>
</tr>
<tr>
<td>52. Beer (quantity)</td>
</tr>
<tr>
<td>53. Wine (quantity)</td>
</tr>
<tr>
<td>54. Cigarettes/Tobacco (quantity)</td>
</tr>
<tr>
<td>55. Controlled drugs, medicines on board</td>
</tr>
<tr>
<td>56. Monetary instruments above £10,000 (not total)</td>
</tr>
<tr>
<td>57. Animals on board</td>
</tr>
<tr>
<td>58. Vehicles on board</td>
</tr>
<tr>
<td>59. Other</td>
</tr>
<tr>
<td><strong>Master or Authorised agent/officer</strong></td>
</tr>
<tr>
<td><strong>Port Clearance</strong></td>
</tr>
<tr>
<td><strong>Immigration Clearance</strong></td>
</tr>
<tr>
<td><strong>Customs Clearance</strong></td>
</tr>
</tbody>
</table>
Article 10. Formalities connected with import, export & transit

Formalities and documentation requirements, acceptance of copies

ICT Solutions

- Direct Traders Input – Electronic Data Interchange
- International standards of documents
- Data re-use, XML
- Transactional cross-check of data input
- Electronic supporting documents
- E-signature
- User rights management
- Full tracking of e-documents processing
- Historization of all versions of e-declarations
- Automated allocation of customs officers for inspections
- Performance measurement
Formalities and documentation
Use of International standards

UNECE Recommendation 33

При внедрении механизма "единого окна" государственным органам и торговым кругам настоятельно рекомендуется подумать об использовании существующих рекомендаций, стандартов и инструментальных средств, разработанных межправительственными учреждениями и международными организациями, такими, как ЕЭК ООН, ЮНКТАД, ВТАМО, ИМО, ИКАО и МТП. Использование стандартов и имеющегося инструментария поможет в обеспечении совместимости систем, созданных в целях внедрения "единого окна", с аналогичными разработками в других странах и позволит также облегчить обмен информацией между такими механизмами с течением времени.
Article 10. Formalities connected with import, export & transit

Single Window

ICT Solutions

• Customs-centric Single Window
• Single electronic interface
• Multy-agency risk management
• Electronic phytosanitary/veterinary certificates
• Pre-arrival of vessels (Customs, immigration, port/airport authorities)
• Vehicle importation (Customs and road police)
• Quota management, E-excise
• Controlled goods (ODS, CITES)
• Humanitarian relief consignments
• Interface with UPU, IATA
Single Window

Multi-agency Risk Management
Single Window

ASYCER – Electronic Phytosanitary Certificates
Single Window

Vehicle importation
Article 10. Formalities connected with import, export & transit

Temporary admission, inward/outward processing

ICT Solutions

- Full coverage of all Customs procedures by e-declaration system
- Risk management for special procedures
- Customs warehouse management
- Quota management
- Management of diplomatic and humanitarian consignments
Article 11. Freedom of transit

ICT Solutions

- Electronic transit declaration for all types of transport
- Link between transit and customs declarations
- Integration of files into transit declaration (drivers license, etc)
- Risk Management for transit
- En-route control, ultra-light devices
- Interface with scanners, automatic barriers, GPS etc
- Transit sheds management
- Transit guarantee management
- Confirmation of departure/arrival
- Transshipment, incidents, time limit expiration
- Regional and international transit corridors
Article 12 Customs cooperation

Data exchange

ICT Solutions

• Customs-to-Customs data exchange (XML, clouds etc.)
• Real time monitoring of cross-border transit operations
• Special modules for safe data transmission
• Practical solutions for regional transit
• WCO - Global Networking Customs (GNC)
Cross-border data exchange

Bilateral data exchange (Syria-Jordan)

Regional Transit (COMESA)

Afghan Customs Department - Customs Service of Tajikistan
Way Forward

- Political will fostered by the WTO TFA;
- Consistency in ICT and Customs reform strategies;
- Results-based management in ICT implementations;
- Strengthening legal basis (e-signature, etc);
- Business processes re-engineering;
- Fostering dialogue between government and business;
- Improving ICT infrastructure;
- Utilization of economical, reliable, open-key ICT solutions;
- Capacity building for governmental IT experts;
- Orientation at international standards and best practices;
Thank you
Рахмат