



Ensuring Data Quality in the Evolution of Single Window Environments

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The Impact of Data in the Evolution of Single Window Environments:

■ Increasing volume of information

Data sources

- ↓
 - ❑ IoT, Big Data, RFID
 - ❑ Unstructured Data
 - ❑ Historical Data

■ Data Quality

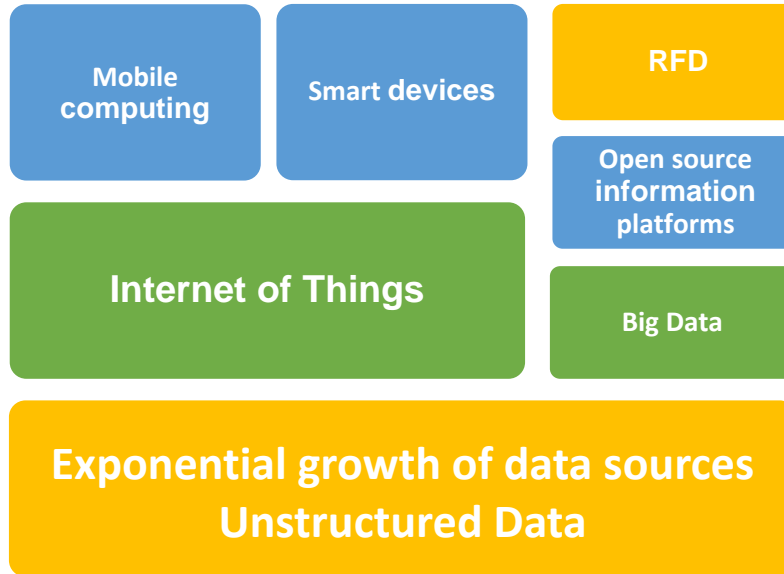
Data accuracy

- ↓
 - ❑ System and not-system measures
 - ❑ International Standard Codes
 - ❑ Who is sending data to whom

■ Integrated Risk Assessment



Increasing volume of information



“Big data is high-volume, high-velocity and high variety information assets that demand cost-effective, innovative forms of information processing for enhanced insight and decision making.”



The Impact of Data in the Evolution of Single Window Environments:

Ensuring the accuracy, integrity or completeness of these data is vital.

Non-system measures

Voluntary Compliance Framework

System or Technical measures

- ① **Use of International standard codes**
→ Uniformity and Consistency
- ② **Registration and Authentication of automated system users**
→ Competency and Professionalism of the users in submitting quality data
- ③ **Setting up a Declaring Agent (or Customs Broker) Governance Framework**
→ Proficiency and Professionalism of the Declaring Agent



Data quality is critical to the security of the supply chain and to trade facilitation alike, these two aspects need to be in balance.
The quality of data is key to the potential trade facilitation benefits of the SAFE Framework of Standards.





Data Quality in SWE

□ Standardized Information

Promote use of International Standard Codes

- WCO Harmonized System codes
- ISO 3166 Country Codes
- ISO 4217 Currency Codes
- UN/LOCODE for Ports and Airports





Single Submission

☐ Establish connection with community networks

- Port Authority system
- Airport Authority system

☐ Establish connection with overseas partner

- Obtain information at source
- Re-use of standardised information





Users of SW System

Governance Framework

- a) Registration of users
- b) Banding/Grading of Declaring Agents / Customs Brokers
- c) Raising the competency level of users

Users of SW System

a) Registration of Users

- Prevent mis-use/illegal usage of the system
- Provide authentication of authorised users
- Users are legally responsible for the information that they submit
- Monitor performance of users



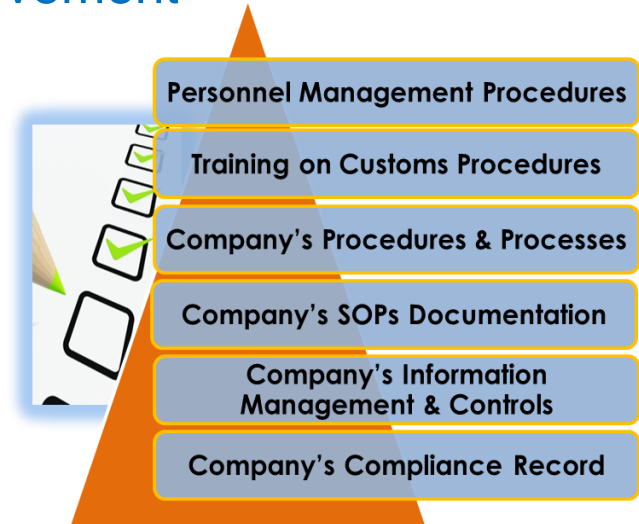


Users of SW System

b) Banding of Declaring Agents / Customs Brokers

- Raise proficiency and professionalism
- Recognition of higher compliance agents
- Encourage continuous improvement

Assessment criteria :



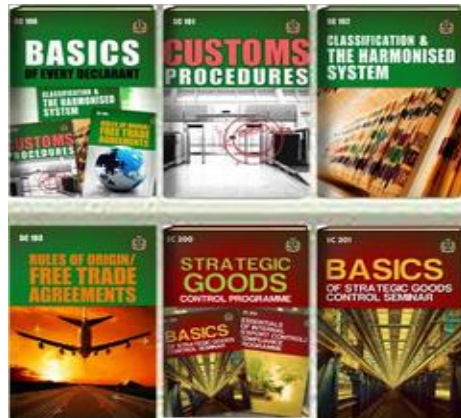


Users of SW System

c) Raise the competency level of users

- Demonstrates a competent level of proficiency
 - Improve accuracy and completeness of submitted information
- Provide e-learning

Provide Training





Identity management in SW Environment

'Know Your Customer' (KYC)

- smuggling,
- impersonation (abuse of others' identity), commercial fraud
- trade-based money laundering
- terrorist financing
- Terrorism
- help link the supply chain data to its source.

Risk Management

- Validation of individual details with national ID number and address databases with other OGAs.
 - abuse of 'de minimis'

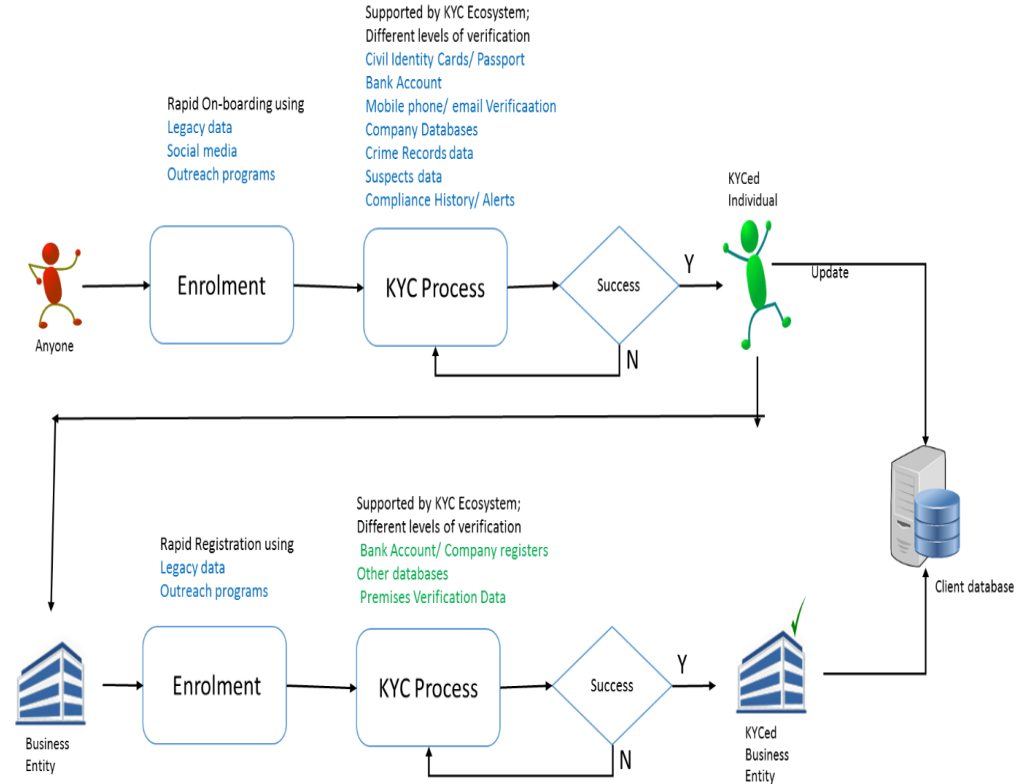
Identity management in SW Environment

Single Window System linked to a KYC ecosystem

Shared Responsibility

KYC Processes

- Identification
- Identity verification
- Identity management
- Authentication
- Authorization
- Customer Support





WCO RECOMMENDATION ON THE GUIDING PRINCIPLES FOR DATA QUALITY (June 2015)

Principle I - Partnership between Customs administrations and Trade is critical to establish understanding of each other's' data quality requirements and to identify new, and to improve existing processes and procedures for providing that data. Cooperation between these two parties in a constructive environment could ensure that the right data of the right quality is delivered at the right time.

Principle II – Analysis of data, systems and procedures should occur on a regular basis to identify any areas of concern related to data and its quality. Data quality is also dependent on systems being properly configured to obtain data in the most efficient way from the persons holding the data in the normal course of their business, whilst fully respecting applicable data privacy and data confidentiality laws and regulations as well as an appreciation of the roles and functioning of different supply chain parties who provide that data.

Principle III – Coordination within the global Customs community through the WCO to: implement and maintain systems that recognize and apply global messaging standards; reduce manual processes and procedures and promote electronic messaging; encourage to implement and update a non-exhaustive list of acceptable and unacceptable goods descriptions for pre-departure and pre-arrival declarations; identify originators of data in the global supply chain and facilitate their ability to provide data directly to Customs administrations; and, encourage the use of coded information based on international standards, including the tools and instruments of the WCO, whenever possible

Principle IV – Education of all relevant stakeholders in the international trade supply chain on data quality principles and improvements based on identified weaknesses in a systematic manner. Such education and awareness should not only take into account national and international Customs concerns but should give due consideration to those raised by Trade.



WCO activities in the area of Single Window Implementation.

□ WCO Missions in 2015-16

- 163 Missions related to the facilitation of cross-border trade
- 88 Member supporting missions in format of national, regional workshops including consultancy and diagnostic missions on implementation of SWE

□ Cooperation with international stakeholders

- Harmonization of the standards on international level
- CITES, ICAO, IMO, UNECE: UN/EDIFACT Working Group as regards e-business standardization and UN/CEFACT's activities in the area of trade facilitation, UPU, IATA, ICC, ISO

□ Two Global/Regional accreditation workshops 2017/2018

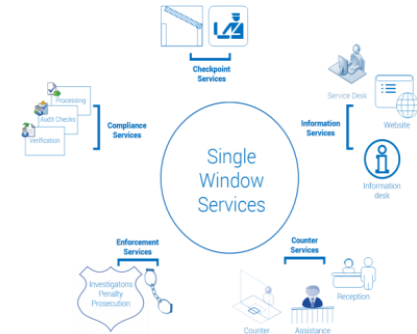
- GLOBAL/REGIONAL






WCO activities in the area of Single Window Implementation


- **Update of the WCO SW Compendium “On how to build a Single Window Environment” 2017**
 - To improve the use of the Compendium as a tool for the implementation of a Single Window Solutions
 - To address the new challenges and developments in the area of cross-border trade
 - To enhance the repository of best practices with regards to business processes
- **Single Window Interactive Map 2016-17**
 - Survey on E-services in the Single Window Environment
 - Status: in phase of development
- **Single Window E-learning modules 2017**
 - Status: in phase of development





Single Window Interactive Map

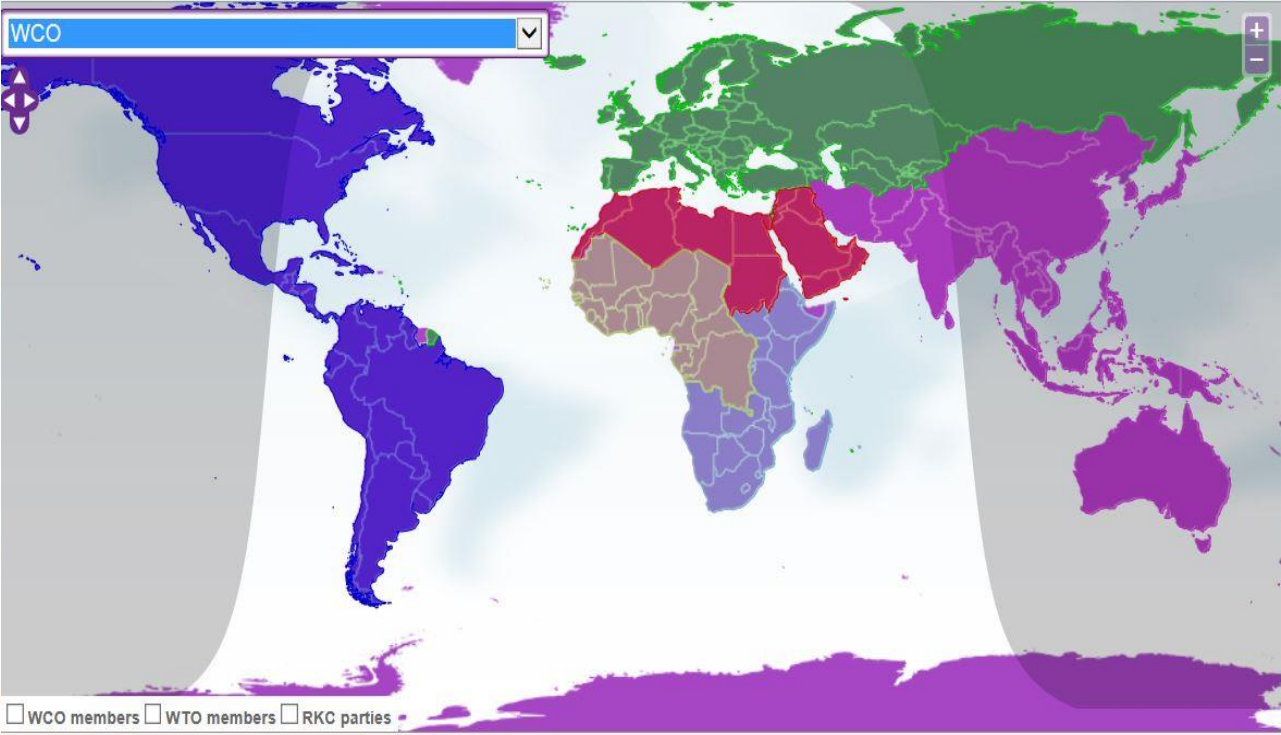


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WCO




☐ WCO members ☐ WTO members ☐ RKC parties

SEARCH



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• Thank you

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