ASYCUDA World Operations in Bangladesh

A Presentation on
ASYCUDA World Implementation
( AW Technical Side)

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Outlines……

• Introduction of ASYCUDA
• ASYCUDA World Platform
• ASYCUDA World Data Center
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  • Network Diagram of AW System
• ASYCUDA World Technology
• Strategy for Sustainability
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• AW Single window
• Subsystem within Customs Development
• Interfacing Experience
• Technical Problem Faced and Mitigation
Introduction of ASYCUDA

- Automated System for Customs Data: Technical Assistance Program of UNCTAD
- Created in the early 80’s
- Four generations of ASYCUDA IT platforms
  - Ver1, Ver2, Ver3/A++, ASYCUDA World
- Operates in 90 Countries using 19 Languages
- Major User Countries:
  - Asia & Pacific: Bangladesh, Philippines, Cambodia, Vietnam, Sri Lanka, Nepal, Maldives, Fiji, Iran, Jordan, Syria, Lebanon
  - Europe: Albania, Malta, Moldova, Kosovo, Romania, Latvia, Lithuania, Georgia
  - Americas: Barbados, Haiti, Cuba, Venezuela, Bolivia, Nicaragua, Panama, Honduras
  - Africa: Nigeria, Namibia, Cameroon, Tunisia, Zimbabwe
- 58 countries using ASYCUDA World

ASYCUDA World Platform

- 3-tier Model – Oracle Engineered System ( EXADATA )
  - (Storage, Database Server, Network)
- AW Application Server – Oracle Server
  - Oracle Linux (OS)
  - Middleware ( SOClass 2.2.15)
  - ASYCUDA World v4.2.1RC
- Database – Oracle 11g
  - Enterprise Manager 12c
- Web Server – Dell Server
  - RED Hat Linux (OS)
- Network – CISCO Platform
  - Hybrid Topology
  - 2 Network Backbone Country Wide Established
  - Cont...
ASYCUDA World Data Center

DC, Dhaka

DR, Ctg

ASYCUDA World Data Center at NBR

Data Center (NBR Building, Dhaka)
ASYNIDDA World Technology

- JAVA [OS independent: LINUX, UNIX, Windows …]
- DB Independent [Oracle, Informix, SQL Server …]
- State-of-the-art security model based on asymmetric cryptography, Public Key Infrastructure [PKI] and e-certificates
- Internet client-server n-tier model
- Support from high end to low end Internet clients
- Hierarchical Document Object Model [DOM, XML …]
- Resilience to telecom breakdowns, mobile computing
- Dynamic [no cost] deployment
ASYCUDA World Operation Model

Banks & Financial Institutions
Carriers
Customs Brokers & Trade Operators
Port & Airport Authorities
Other Ministries & Government agencies
Other Customs Administrations, International Organizations

Integrated Customs Information System (ICIS)

Single Window
Subsystem within Customs Development

- DG feature for Navy interface.
- Interface to send manifest information to Chittagong port.
- BIN (Business Identification Number) entry interface for VAT officials.
- Auction module will be developed and there will be an interface between AW system and auction module.
- Bond module will be developed and there will be an interface between AW system and Bond module.
- There will be another subsystem for scanned image processing.

Interfacing Experience

- Interfacing between ASYCUDA and Chittagong port is one way i.e., port only received manifest data from AW system.
- Interfacing with Govt. agencies like BSTI, BRTA, Bangladesh Bank, EPB, Drug Administration, Quarantine, Atomic Energy Commission are under process.
- Some stakeholders like Bangladesh Bank are ready for interface, but most of the other agencies are not ready for interfacing to their ends.
- For interfacing with some other non-govt. agency are also under process. Those are mainly BGMEA, BKMEA, EPZ etc.
Technical Problem Faced and Mitigation

- As there are almost 12000 bill of entry/export are process centrally per day, so there is hues traffic movement between client and server.
- Sometime concurrent users are more than one thousand
- To cater hues number of users sometimes server become slow and some records are locked for long time
- To mitigate this problem NBR IT team local network vendor, local bandwidth vendor, Oracle expert works together
- The whole team find out that sometimes bandwidth is not stable fluctuate within high range
- Also sometime AW can not release locked B/E, Payment order etc instantly.
- NBR IT team, UNCTAD and local expert will work together to mitigate the problems.

Thank You