MALDIVES
# COUNTRY PRESENTATION
AW TECHNICAL AREAS

Maldives Customs Service

OVERVIEW

▸ Implementation platform and network structure

▸ Strategy to maintain and sustain the communication infrastructure for the centralized implementation

▸ Subsystem within Customs development

▸ Database structure

▸ Disaster recovery options

▸ Status and experience of interfacing/integrating with other government agencies

▸ Technical problems faces and mitigation measures adopted

IMPLEMENTATION PLATFORM AND NETWORK STRUCTURE

- Web Server:
  - OS Platform: Windows Server 2012
  - Webserver: Apache Tomcat
- Database Server:
  - Microsoft SQL Server 2014
  - OS Platform: Windows Server 2012

PROPOSED NETWORK
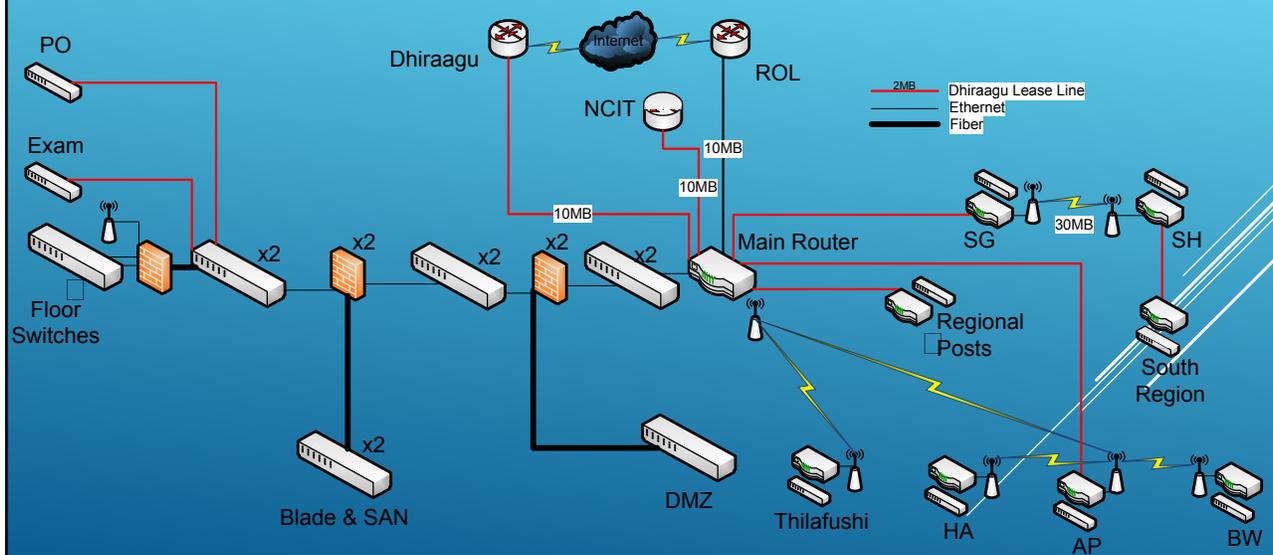
STRATEGY TO MAINTAIN AND SUSTAIN THE COMMUNICATION INFRASTRUCTURE FOR THE CENTRALIZED IMPLEMENTATION

- 1G switching across the network.
- 10G switching in the core (for storage and applications).
- Segregation of network zones for security and extensibility.
- Public VPN access to ASYCUDA.
- Firewalling and threat management (IPS) for internet published services.
- AW Database server and webserver clustered on 2 physical servers which will enable load balancing and improve performance
- Data will be synchronized between live server and DR site

SUBSYSTEM WITHIN CUSTOMS DEVELOPMENT

- E-Customs
- Customs Portal
- Customs Form Program (with Manifest Feature)
- E-Valuator

DATABASE STRUCTURE

- Database structure:
  - in-house applications are similar to ASYCUDA database structure
  - Additional fields are added to track and monitor internal user interactions

DISASTER RECOVERY OPTIONS
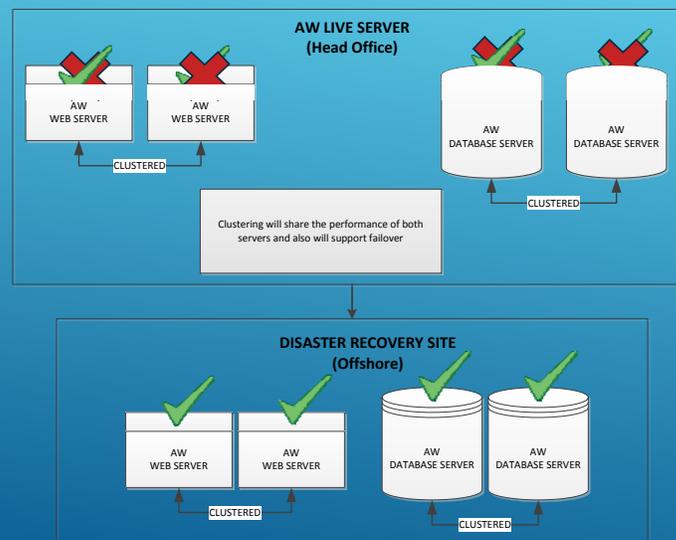
STATUS AND EXPERIENCE OF INTERFACING/INTEGRATING WITH OTHER GOVERNMENT AGENCIES

- Import / Export License Issuance
  - Information shared with Ministry of Economic Development & Trade
- Black-listed Importers/Exporters
  - Information shared with Maldives Inland Revenue Authority
- Bonded Warehouse Transactions
  - Information shared with Maldives Police Services
- Postal service information
  - Information shared with Maldives Post Limited

TECHNICAL PROBLEMS FACED AND MITIGATION MEASURES ADOPTED

- Lack of JAVA programmers
  - Conducting JAVA training for IT staff
- Performance of existing Computers in Customs
  - Minimum requirement for AW is 4GB RAM
  - Virtualizing Desktop
    - Controlling all specifications from server side
- Network/Internet Bandwidth
  - Upgrading all the links of regional Customs to 2Mbps
  - Internet Bandwidth Upgrade to 20Mbps
  - Internet line from 2 different ISPs
    - Load-balance and redundant

THANK YOU