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Implementation platform and network structure

• Implementation platform

Perimeter Firewall – Checkpoint Cluster Server – HP blader server system Storage – HP Storage

Operating System – Oracle Linux Enterprise 6.3 Database System – Oracle 11g Standard Edition

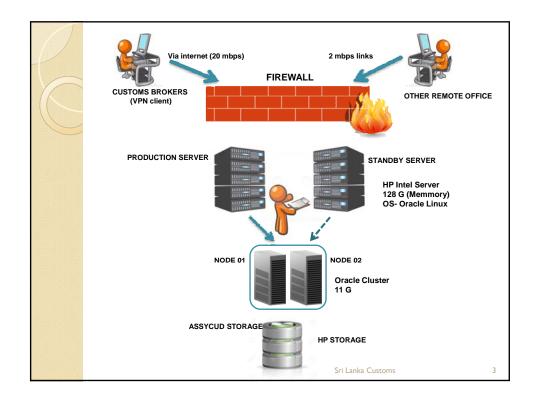
Network

VPN clients for brokers

Remote sites are connected via VPN links

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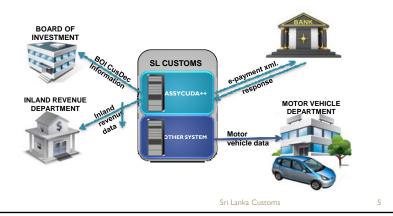
Strategy to maintain and sustain the communication infrastructure

- Two telcom providers for communication network with 24*7 support
- Most major devices like core switches and firewall with redundancy. Those are maintained by companies with 24
 * 7 support
- Customs Officers are trained for network maintenance.

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Status and experience of integrating Other Government Agencies

- With ASYCUDA++
- Government Banks connected for CUSDEC e-payment.
- Separate Application Developed for Ministry Finance Licenses
- Main problem is no ICT Systems for OGA.



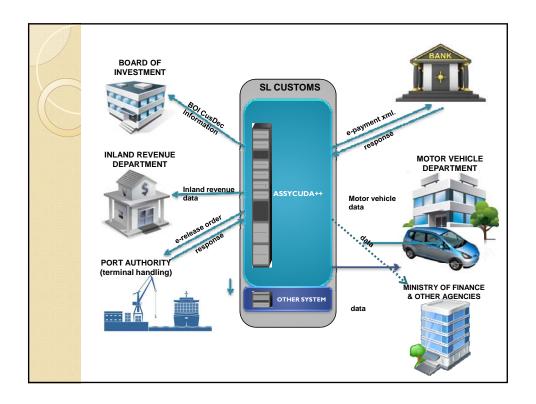
Status and experience of integrating Other Government Agencies

- With ASYCUDA World
 - Separate AW module developed for Tea Board Approval.
 - Ministry Finance with Reg app
 - Trying to integrate with ASYCUDA
 - Discussion going on with some agencies

Challenges

- · Changing the procedures and laws.
- No IT system

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Subsystems within Customs development

- Cargo Controle
- Warehouse System
- Remitance Management System
- Reg App System

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Database Structure

- Use Oracle standard edition since 1999
- Maintain few databases since 1999
- AW oracle RAC with two nodes
- Planning to move to Oracle Exadata
- We use sql server for other application (with integration of other models to AW all data will be in oracle)

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Disaster Recovery Options

- Redundancy for all critical hardware including network devices.
- Backup communication lines for all remote sites.
- Take online backup everyday.
- Standby AW Server is ready with backup database.
- Working forward to implement Disaster Recovery Site.

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Technical problem faced and mitigation measures adopted

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Problem	Solution
Critical AW issues which can hinder operations	All the critical AW issues identified before we put them into operation Some are identified with pilot sites.
•DTI Users issues	initially visited their sites and gave solutions. Later we connected their pcs using team viewer.
Data grows rapidly and poor response on Oracle Database	Change Oracle Data File Storage to ASM and introduce Oracle Cluster
Poor response for some AW actions	Identified the Oracle Tables and created indexes.
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Technical problem faced and mitigation measures adopted

Problem	Solution
•AW Users got login issues when more users are connected	•Linux kernel parameters has to be adjusted
•AW application server gives poor responses for Users	•JVM Parameters adjusted
•Giving access to all banks for e-payment	•A central payment agency
Many ASYCUDA Databases	Separate Stat reports developed

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