

Nov 2009

Available Services

Shippers

- Submit cargo information and receive Customs Cargo Reference Number (CCRN)
- Enquire about and amend submitted cargo information
- Download cargo information for data inheritance purpose
- Print out cargo information with CCRN for transmission to truck drivers for their completion of paper manifest

Truck Drivers

- Submit bundling information of Vehicle Registration Number (VRN) and CCRN
- Enquire about and amend submitted bundling information

Agents

• Use the services for shippers and truck drivers





Design Objectives of Service Interfaces

Users Friendliness

Provide user-friendly interfaces

System Security

- Provide system security measures, e.g., network transmission encryption, data encryption, username/password/2-factor authentication (digital certificate), and access control
- System data access control according to different user account privileges

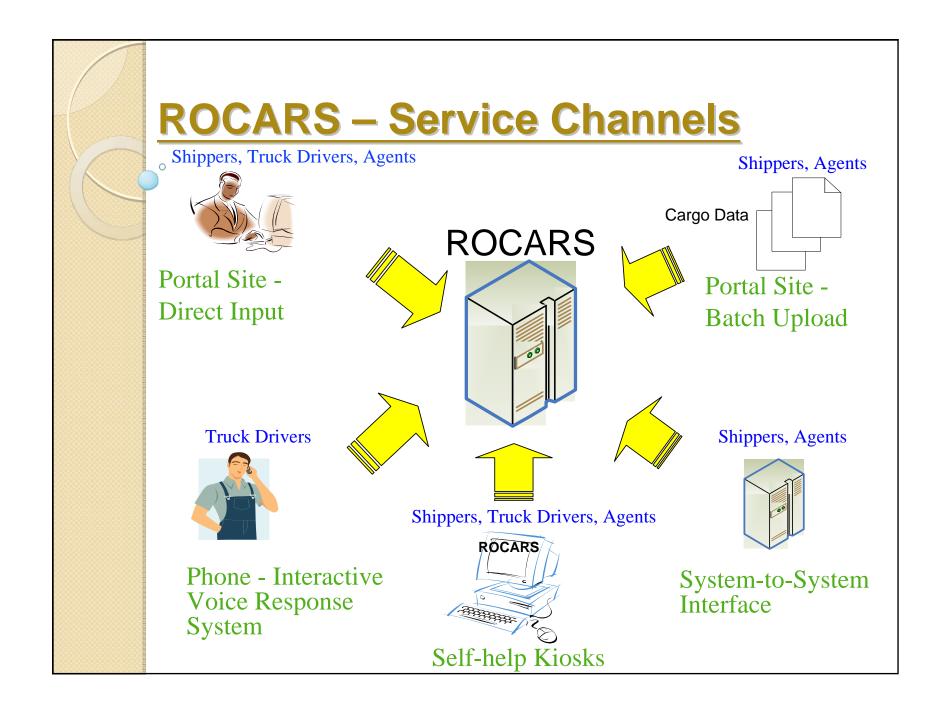
Design Objectives of Service Interfaces (cont'd)

Character Support

 Support data input, storage, display and printing in Traditional and Simplified Chinese Characters, English and European Characters

Standard Adherence

- Follow prevalent international and industry standards
- Data Model of World Customs Organization,
 International Organization for Standardization ISO-10646
- TCP/IP communication protocol, Extensible Markup Language (XML), Public Key Infrastructure (PKI)

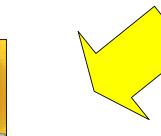


Portal Site - Direct Input





1: Log-in ROCARS portal





2: Enter the cargo data in the portal

3: Confirm the cargo information, apply digital signature and submit the information

Portal Site - Direct Input (cont'd)

Advantages:

- Self-help nature
- User-friendly
- Minimum investment on IT equipment

Requirements of IT Equipment:

- Computers with Internet access
- Digital certificate from Recognized Certification Authorities (Shippers and Agents)
- Browsers supporting Java Runtime Environment [e.g., Internet Explorer, Mozilla Firefox]

Portal Site – Batch Upload





1: Prepare consignment data file in XML format according to the ROCARS specifications

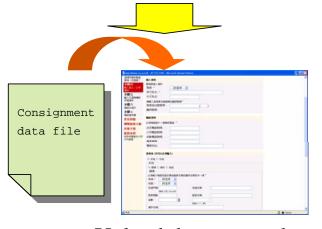


2: Log-in ROCARS portal





4: Confirm the cargo information, apply digital signature and submit the information



3: Upload the prepared consignment data file in the portal

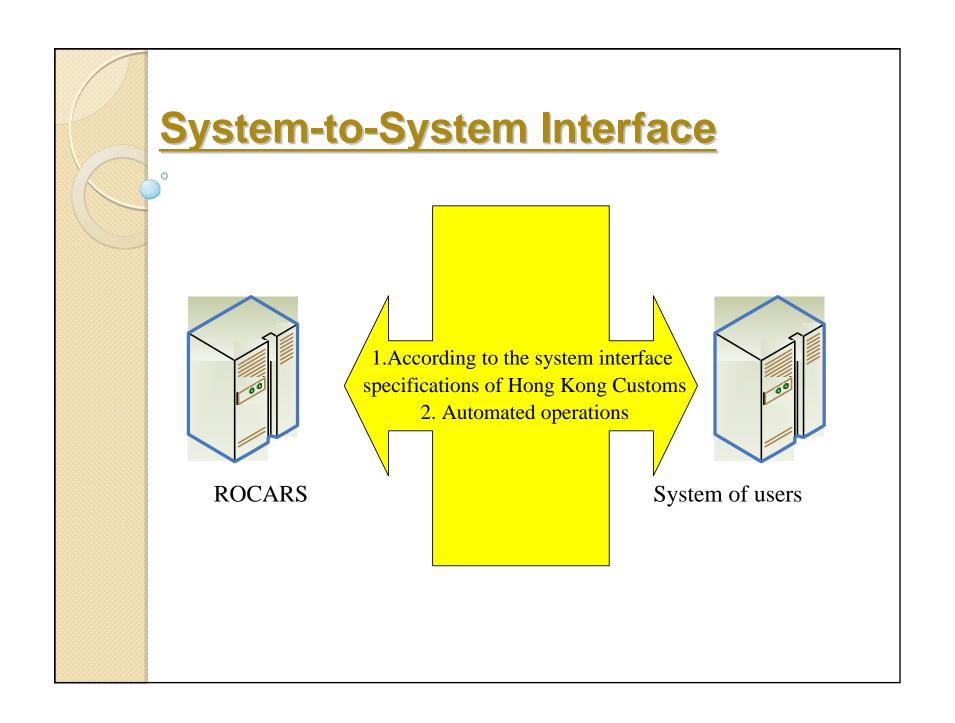
Portal Site – Batch Upload (cont'd)

Advantages:

- Multiple consignments can be uploaded in one-go
- Relatively low investment on IT equipment

Requirements of IT Equipment:

- Computers with Internet access
- Digital certificate from Recognized Certification Authorities (Shippers and Agents)
- Browsers supporting Java Runtime Environment [e.g., Internet Explorer, Mozilla Firefox]
- Software tools for preparing data files in XML format



System-to-System Interface (cont'd)

Advantages:

- Automated operations, efficient transmission of cargo data in bulk
- Avoid manual efforts for input of cargo data in the portal

Requirements of IT Equipment:

- Support e-business XML (ebXML), ebXML Messaging Services (ebMS) and Public Key Infrastructure (PKI)
- Establish System-to-System interface
- Dedicated communication link / Internet connection with Hong Kong Customs

