China Customs Information Processing System and E-Port

——WU Jiang, Shanghai Customs College

- History of Informatization of China Customs
- Status of Informatization of China Customs–Current Scale
- China E-Port
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  - E-Customs E-General Administration
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Development Process of Informatization of China Customs

2001: Customs enforcement evaluation system

1999: Forex declaration sheet networked verification system

1998: clearance reform and rolling out of H883 5.0

1988: Customs clearance management system (H883 System)

1978: use of computers in duty collection for luggage of passengers.

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Current Scale of Informatization of China Customs

After 30 years of explorations in informatization, China Customs has made phase-by-phase achievements in infrastructure construction for the networks, the scientific and technological equipment, project R&D and application. Basically, we have realized **networked clearance operations, smart cargo flow monitoring and digitalized function management**

Current Scale of Informatization of China Customs

I. Network Infrastructure Construction

Mainly based on the telecom sector's public broadband communications network (ATM Network), supported by the DDN Leased Lines, frame relays, X.25, etc. with the telephone dial-up lines as the back-up. China Customs has built a large network of systems covering all the operational sites with more than 800 nodes.

Current Scale of Informatization of China Customs

I. Scientific and Technological Equipment

By the end 2010

Small machines	390
PC servers	2575
Storage system	291 sets
PCs	73,000
Network equipment	8,222

Container inspection systems	59 sets
Inspection equipment for articles	440 sets
CCTV systems	22 sets
express consignment inspection system	3 sets
Other equipment	……

Current Scale of Informatization of China Customs

II. Overview of Projects Development and Application

“E-Customs” Projects：over 120

“E-General Administration” Projects：over 40

“E-Port” Projects：over 42

Local projects developed by regional Customs themselves: over 280

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China E-Port is a public data center and data exchange platform based on telecom companies' PSTN, which networks the authorities in charge of industry and commerce, Customs matters, forex management, foreign trade, quality supervision, inspection and quarantine, as well as banks, importers, exporters, companies engaging in processing trade, foreign trade intermediaries, and owners of goods, making one-card for all and one-stop services possible.

To establish a new management model featured by "E-ledger, networked verification and online services", we built an integrated data center, i.e. single database, single switch center and single window. This has helped with the realization of "standardized and transparent enforcement, extended time and space for Customs control, holistic solution, risk management, and rule of law".

Establishment of E-database (Cargo flow)

Cross-cutting Networked Verification

Status Quo of China E-Port

A total of 61 application projects already put into use.

Interoperability and information sharing is now available among the National Development and Reform Commission (NDRC), GACC, State Administration of Foreign Exchange (SAFE), State Administration of Taxation (SAT), General Administration of Quality Supervision, Inspection and Quarantine (AQSIQ), State Administration of Industry and Commerce (SAIC), Ministry of Commerce (MOFCOM), Ministry of Railway, Ministry of Environmental Protection (MEP), China Council for the Promotion of International Trade (CCPIT), Trade and Industry Department of Hong Kong SAR, Macao SAR's Economic Service, as well as the Bank of China (BOC), the Industrial and Commercial Bank of China (ICBC), the Agricultural Bank of China (ABC), the Bank of Communications (BOC), China Merchant's Bank, totally 13 commercial banks. 470,000 companies have jointed this platform. Everyday, it processes around 1.2 million e-documents. China E-Port's portal daily hits have reached 4.8 million person times. The systems are operating smoothly.

Major Functions of China E-Port

（1）data exchange

（2）transaction processing

（3）evidence storage and production

（4）standards switch

（5）enquiries and statistics

（6）network isolation

（7）online payment

Importance of China E-Port

- **Enhanced port enforcement and administration, elevated administrative enforcement capacity for government agencies**
- **Raised clearance efficiency, and reduced costs for businesses**
- **Improved non-physical environment for investment, and promoted development of logistics industry**
- **Advanced e-governance, and improved government services**

E-Port Network Structure

Relevant authorities' intranet

Networked Applications for Express Consignments

Networked CO Verification System among Laos, Cambodia and Myanmar

欢迎进入中国电子口岸网站 www.chinaport.gov.cn

English Version

中国电子口岸
CHINA E-PORT

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中国电子口岸
CHINAPORT

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中国电子口岸是国务院有关部委将分别掌管的进出口业务信息流、资金流、货物流等电子底帐数据集中存放到口岸公共数据中心，为各行政管理部门提供跨部门、跨行业的行政执法数据联网核查，并为企业及中介服务机构提供网上办理进出口业务服务的数据交换平台。

请输入IC卡密码：

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请您按照以下步骤进行：

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One-click declaration

中国电子口岸 CHINA E-PORT
中国电子口岸
China E-Port
企业专用
请选择您要进入的子系统
Please choose the sub-system you want to access
舱单申报
转关申报
加工贸易
出口收汇
减免税申报
报关申报
出口退税
网上支付
出口加工区
上网卡注册
ATA单证册
快件管理
增值税管理
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网上保险
公路口岸
进口付汇
确认修改
本地软件更新

中国电子口岸 CHINA E-PORT

Input interface for an ordinary Customs declaration form

中国电子口岸--报关行专用版

报关单录入/申报(1) 转关运输提前报关录入/申报(2) 清单录入/申报(3) 单据修改(4) 查询/打印(5) 业务统计(6) 功能选择(7)

新增(N) 修改(M) 复制(O) 删除(D) 暂存(S) 打印(P) 上载(U) 申报(R) 批量申报(B)

报关单录入/申报(进口)——未暂存状态

申报地海关 十八里店 录入单位 北京测试企业005 操作员 企业操作员4

统一编号		预录入编号	
海关编号		进口口岸	十八里店
备案号		合同协议号	
进口日期	20030704	申报日期	
经营单位		运输方式	江海运输
收货单位		运输工具名称	
申报单位		航次号	
提运单号	监管方式 对台贸易	征免性质 一般征税	征税比例
纳税单位	许可证号		
起运国(地区)	装货港	境内目的地	东城区
批准文号		成交方式	CIF
运费	保费	杂费	
件数	包装种类	毛重(KG)	净重(KG)
集装箱号		随附单据	
报关单类型	有纸报关	备注	

NO	商品编号	备案序号	商品名称	规格	原产地	数量	单位	币制	总价	征免

商品序号	1	备案序号		商品编号		附加编号	
商品名称		规格型号					
成交数量		成交单位		成交单价		成交总价		币制 港币
法定数量		法定单位		版本号		货号		用途 货样,
第二数量		第二单位		原产地	亚洲	征免	照章征税

集装箱号	规格	目重(KG)

集装箱号
集装箱规格
集装箱自重(KG)

代码	随附单证编号

随附单证代码
随附单证编号

关联报关单
关联备案
监管仓号
货场代码

报关员
联系方式

输入9位预录入编号。输入后不允许修改

- History of Informatization of China Customs
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E-Customs

It is a Customs management information system covering all the business functions of nationwide Customs which connects GACC departments with regional Customs and connects different regional Customs, characterized by networked clearance operations and smart cargo flow control. In 1998, starting from clearance reform, we began the first step of building a modern Customs regime and rolled out the application of clearance management system (H883 version 5.0). E-Customs basically came to its shape. In 2003, focusing on risk management, we began the second step of building a modern Customs regime through some pilot projects and the rolling out of the H2000 clearance management system. E-Customs grew to a mature stage.

Core of E-Customs
--H2000 Clearance System

Characteristics of H2000 System —Centralized Databank

- Data recorded are shared across China Customs

  bonded contracts — means of transport

  import/export manifests — importers/exporters

  permits, licenses, certificate — companies engaging in processing trade

  table of duty reliefs — risk information

- Raised clearance efficiency, and reduced data transmission requirements
- Raised the accuracy of data, and reduced data redundancies
- GACC can have real-time access to data on import/exports across the country

Highly Reliable
—Data Center and Disaster-Recovery Back-up Center

Benefits of H2000 System

- **Economic**
  - **Good for raising clearance efficiency**
  - **Good for reducing trading costs**
  - **Good for increasing national fiscal revenue**
  - **Good for improving the economic order at ports**
- **Social**
  - **H2000's rolling out is a milestone in China Customs' informatization drive**
  - **H2000's rolling out is a creative move in China's informatization drive**
  - **H2000's rolling out will promote reforms of Customs operations and management**
  - **H2000's rolling out will make Customs operations more unified and standardized**

H2000通关管理系统:广州海关- (接单管理)

文件(F) 编辑(E) 功能(U) 视图(V) 帮助(H)

后

外汇核销单

公共服务

现场...

现场接单管理系统

张继雷/511098/广州石牌 5130

接单管理

税费管理

查验管理

查验派...

保金保...

贸易统计

现场接单管理系统

china customs

现场接单审核

现场业务综合处理

现场业务一体化处理

查验通知单打印

接单统计

报关单查询

报关单打印

现场验估反馈

现场审单

报关单修改

现场值班审单

报关单修改申请

报关单删除申请

报关单删改申请查询

后补征免税证明

担保或无纸报关监控

准备...

插入 数字 大写

开始

H2000通关管...

EN

10:47

H2000通关管理系统:上海关校-(接单管理)

文件(F) 编辑(E) 功能(U) 视图(V) 帮助(H)

现场接单审核

法条0601/980071/上海关校 9800

接 单

报关单输入

报关单号码输入：9800-2008-1-000002341

海关编号 980020081000002341 申报号 980020081000002341 备案号 申报口岸 上海关校

申报单位 杭州三和食品有限公司 3301931329 申报日期 2008/10/29 进口口岸 嘉关乍办

经营单位 杭州三和食品有限公司 3301931329 合资 进口日期 2008/10/29 起运地 中国香港

收货单位 杭州三和食品有限公司 3301931329 货主地区 杭州其他 装货港 香港

许可证号 运输方式 其它运输 监管方式 一般贸易 成交方式 CIF 件数 100

结汇证号 210

合同号 200

随附单据

监管仓号

商品序号 总价 成交币制 征免 规格

200.00 110 1

商品编号 392

申报数量

法定数量 100 法定单位 千克 海关单价 2 海关总价 200 用途 其它内销

第二数量 第二单位 备案序号 版本号 原产地 中国香港 征免 照章征税

该报关单10天前已审结

审单结果显示

流转信息

状态信息

状态数值	状态描述
0056	未输入运输工具及代码
0065	未输入提运单号
0093	经营单位为一般通关企业
0113	申报单位为一般通关企业
0133	非“进料非对口”不应输入“征税比”
0743	经营单位为A类企业
0021	进口标志正确
0171	优先决策或状态决策决策出通道结果
1	优先决策第0003号决策出接单交单：接单通道

总署参... 地方关... 选择查... 风险管理 企业管理 加工贸... 船舶吨... 舱单管理 统一版转关 预录入 公共服务 审单中心 现场... 接单管理 税费打印 税费管理 现场查... 情报式... 汽车证明书 电子手... 电子帐... 决策支... 国际合作

审单结果显示 修改记录显示 企业信息显示 布控信息显示 布控处理输入 布控指令输入 舱单信息显示 许可证显示 减免税显示 手册信息显示 帐册信息显示 通关单显示 价格参数显示 统计价控显示 转关单显示 企业资信显示 原产地显示 港澳OPA显示 环节备注输入 环保证件显示 风险信息显示 物流账册 国际合作 反倾销 保证金显示 查验通知单打印

确认 拒绝 放弃

插入 数字

2. “E-Customs Realized Smart Cargo Flow Monitoring

Cargo Flow Monitoring System is based on the clearance management system. It has adopted state-of-the-art monitoring and inspection technologies and computer network technologies to integrate container inspection equipment, GPS, electronic weigh bridges, electronic entry/exit gates, electronic vehicle plates, video surveillance and other relevant technologies and equipment into one single complex, which can consolidate the cargo flow information received from the risk management platform, E-Port and EDI centers to establish electronic database and conduct networked matching and automated processing of cargo flow information collected on site.

Import containers monitored by the Cargo Flow Monitoring System account for over 90% of all the import containers of China.

Guangzhou Sanshan Customs detected a case of Buddha figure smuggling

Buddha figure smuggled

E-General Administration

This is a virtual information system built in light of the vertical management structure of China Customs. Based on E-Customs, it helps realize digitized operational monitoring & analysis and auxiliary decision making. It enables GACC and the regional Customs houses to have more scientific functional management and day-to-day administration. It comprises a confidential intranet (OA), an operational extranet, and the Internet as well as the different applications at the three levels of network.

E-General Administration

Development work started in 2001. Now, a total of 5 key applications: risk management platform, sub-system on import/export statistics analysis & early warning, sub-system on enforcement evaluation, sub-system on tariff monitoring & analysis, and the confidential office automation (OA) sub-system.

Applications of E-General Administration have provided scientific and effective means for GACC (China Customs headquarters) and regional customs houses for operational monitoring & analysis and auxiliary decision making. Very helpful.

E-General Administration: Risk Management Platform

+

Data Applications

The risk platform collects various data, which are then presented in forms of reporting, enquiries, multi-dimensional demonstration. Through simulating human experience, it provides users with tools for knowledge and analysis of operations and risks.

Information Management

Through Customs intranet, it integrates the functions of risk analysis coordination, risk disposal coordination and information exchange into a single platform for unified and shared risk management nationwide across different Customs districts.

Homepage of China Customs Portal

Customs OA (office automation) System

E-General Administration: Tariff Analysis & Monitoring Sub-System

- **It performs the following tasks:**
  - **timely compilation of statistics on tariff, processing trade and bonded operations**
  - **Timely knowledge of trade mix and commodity mix for multi-dimensional analysis of tariff collection situations; monitoring the operations and enforcement at various links of duty collection**
  - **Overall evaluation of duty collection by Customs for improvement of enforcement; provide risk information on clearance, examination & approval, and management;**
  - **Promote standardization of various operations, and provide primary-line information on import/export duties/taxes, commodity mix, pricing level, trade volume, etc. for economic policy-making of the State.**

E-General Administration: Customs Enforcement Evaluation Sub-System

- **This system has adopted advanced statistics analysis and data exploration technologies. It can help with decision making through monitoring & supervising Customs enforcement effectiveness & efficiency and the overall risk indicators. It conducts overall analysis of Customs clearance data and data fed by other agencies and international partners. It conducts dynamic analysis & monitoring of the implementation of trade measures, duty collection quality, cargo flow control, processing trade control, etc. at different customs houses, and makes a quantitative assessment of their administrative enforcement, operations and management, to identify problems and signal an early warning.**

- **Specific functions of the system: evaluation of duty collection situations, price levels, risks, processing trade management, reasonableness of cargo flow directions; analysis & early warning concerning smuggling situations and trends; release and management of evaluation reports, etc.. Rolled out in 2001. By Aug. 2008, through tips given by this system, China Customs collected an additional amount of 970 million CNY duties and taxes, and detected 62 million CNY of evaded duties/taxes. The total amount involved in problems detected by the system reached 1.22 billion CNY.**

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Analysis & Monitoring System
Early warning, monitoring, customs statistics, risk management, enforcement evaluation
H2000 System
Dynamic Data Warehouse
Cargo Flow Control System
Clearance, duty collection, processing trade, policies and legal affairs, audit-based control, enterprise management, anti-smuggling, statistics compilation
Customs control, processing trade, means of transport, Customs control premises, manifests, entry/exit gates…
H2010 Project