

## INTRODUCTION

Mongolian Customs had introduced the UNCTAD ASYCUDA v. 2.6 since 1993 until 2001. The system had been installed at 12 Customs points in several Customs offices (Ulaanbaatar, Buyant-Ukhaa, Selenge, Darkhan, Erdenet, Zamyn-Uud, Hovd, Bayan-Ulgii and Dornod) including the Customs General Administration.

The ASYCUDA system was of no more application in Mongolian Customs for number of difficulties and shortages. To name a few:

- the Y2K difficulties had occurred at a time of millennium change;
- the system didn't cover all Customs points;
- the system doesn't run on online network;
- it was impossible to pool statistical data from the main database;
- the functional modules were not adapted to suit the mongolian specific environment for making detailed financial or taxation reports and economic analysis;
- any updated services to the system had to be performed only after notification to the UNCTAD Headquarters in Geneva and according to its advices which took lots of time; and
- the system was expensive to operate.

Its new version ASYCUDA++ costed more expensive and required more time for its introduction, namely, 2-3 years which made it impossible to continue the ASYCUDA project in Mongolian Customs.

Taking into account the abovementioned, it was decided by the Directive No. 345 of the Director General of the Customs General Administration of Mongolia from 25 May 2001 to develop own Customs software suitable for online network. The work started in August 2001 and by June 2003 the software, named the Mongolian Customs Automated Data Processing System – GAMAS, came into exploitation. Henceforth, the improvement measures are being taken step by step. The system now operates at all Customs units throughout the country.

**MONGOLIAN CUSTOMS AUTOMATED  
DATA PROCESSING SYSTEM  
GAMAS v 1.0 & 2.0**

**IT development**

- Key factor for trade facilitation
- Timely exchange of information
- Direct network between customhouses
- Saves time and money
- Single window service
- Paperless declaration
- Simplification of customs procedures

**Comparison**

indicators	ASYCUDA	GAMAS
service , clearance	typewriter 13 stages дамжлага / 6 of them manual /	Totally computerized 9 stages speedy for 5-8 times
control management statistics	slow exchange of information No harmonization Too many stages	Direct & timely control All data taken from database Timely compilation of statistics
Database structure	separate , manual Paper-based No interface with outside	20 subsystems Interface with brokers, national taxation authority
networking technology	No networking DOS ,WINDOWS- old version, outdated	Unified network Latest technology
Possibility to expand and update	Dependency from external funding and high cost  2-3 years needed for updating or upgrading  Not so suitable to Mongolian conditions	Possibility to update and amend at lower cost, created by Mongolian IT experts and software developers.  Laid a foundation to creation of E-customs

## Main goal

- Creation of unified information system covering all data within the Customs system
- Expansion of the system interfacing other government agencies, banks, freight forwarders and customs brokers
- Computerization of works ( estimation, calculation, duty assessment, storage, transmittance), automation of database.

## SEQUENCE OF WORKS

- Surveying
- Feasibility study
- Development of software
- Creation of database
- Programming
- Testing, amendment
- Creation of technical conditions
- Training, recommendations
- Introduction
- Sustainability and continuous updating

## Operations...

operations :	ASYCUDA	GAMAS
clearance	typewriter	Software prints
Registration, valuation	Manual, 2 officers	Software, 1 officer
Tax assessment, numbering, release	ASYCUDA 2 officers	Software 1 officer
Creation of unified database	DOS Floppy disk	direct networking
control	manual	software online
Statistics compilation, data capture	DOS EXCEL	Software directly

### Advantages of GAMAS

- Unified system
- Unified database
- Flexibility
- Lower cost

### Technological differences

technology	ASYCUDA	GAMAS
Operational system Server	Prologue	Windows2003 Adv. server
Customer's operational system	DOS	Windows 98-XP
Database	Paradox	MS SQL-2000
WEB	no	Intranet Internet
Expansion Updating	Not possible High cost Much time required	Low cost Extension is possible when required
language	Mongolian English	Mongolian
training introduction	Costly, 2-3 years required	No cost 2-5 days are enough
Cost	900 000 \$	45 000 \$

### GAMAS system structure

1. Complex of software for customs clearance, control and information
2. Intranet interfacing all customhouses and headquarters
3. Customs Web Portal

### Data input, capture

- Primary data input – by customhouses, branches, brokers – ACCESS DB, SQL
- Creation of unified database - SQL.
- Data updating via WEB
- WEB site

## **Sequence of software development**

- Software for creation of database to be used for declaration software
- Declaration software and associated programs
- Software based on declaration database
- Other software

## **Clearance sequence**

- **CUSTOMS BROKER** - data input into a declaration on the basis of accompanied commercial documents
- **CUSTOMS** – checking value declared, determination of value, verification
- **CUSTOMS BROKER** – Duty assessment, declaration print out
- **CUSTOMS** – Checking value, calculation and payment matching, release of goods to the owner or declarant

## **Advantages**

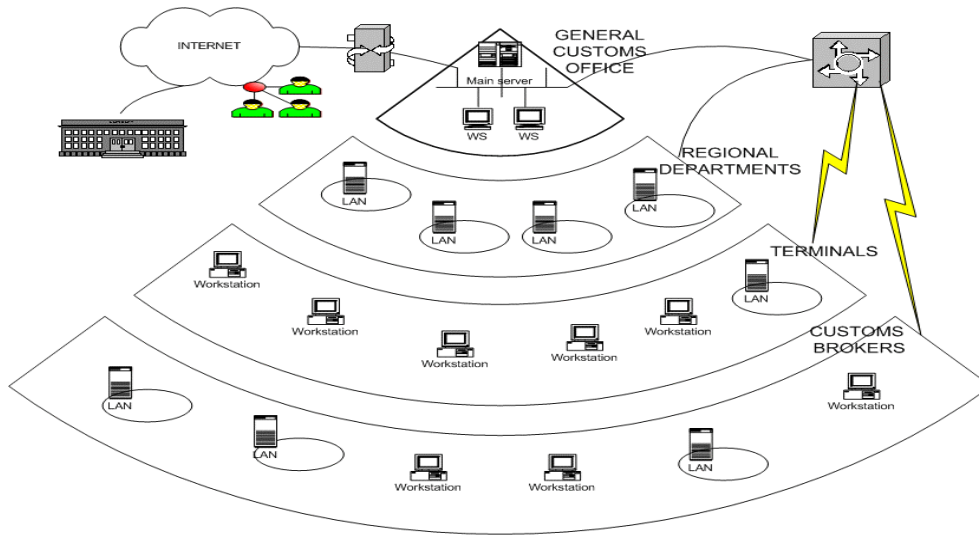
- Based on latest IT developments
- Cost saved
- Time saved
- Customs unified management system is created
- Client-oriented system

## **Technical requirements**

PC, personal computers :

- Customers should have computers with capacity of Celeron, Pentium II ( 64 MB, 10 GB) – or above
- Having network cards, modems
- Connected to Internet
- Web browser Windows 98, IE 5.0, Navigator 5.5
- Screen with 800x600 capacity
- Mongolian standard fonts, keyboard driver

## NETWORK ARCHITECTURE



PROPOSED NETWORK ARCHITECTURE OF MONGOLIAN CUSTOMS

- 8 LANs
- 10 SERVERS
- 280 COMPUTERS
- 2 ROUTERS
- 6 LEASED LINE CONNECTION (12 HDSL MODEM)
- 40 MODEM CONNECTION
- 2 ACCESS SERVER

Website – [www.customs.pmis.gov.mn](http://www.customs.pmis.gov.mn)

### Гаалийн Ерөнхий газар

Mongolian Customs General Administration

Нүүр хуудас | Гадаад харилцаа | **Бидний тухай** | Бүтээгдхүүн | Боловсрол

Танилцуулга

Бүтэц зохион б/лалт

ГХ байршил

**Бүрдүвлэлт хийх**

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**ВАЛЮТЫН ХАНШ**

Доллар 1105 Т

Рубль 56 Т

Юань 54 Т

бусад ...

[Фото галерей](#) ...

Wednesday  
December 25, 2002  
8 : 31 : 02 pm

### МОНГОЛ УЛСЫН ГААЛЬ

## CONCLUSION

As a result of the introduction of GAMAS into the Customs field, the Mongolian Customs enjoys the following positive features:

- e-Customs is started to be applied in Mongolian Customs System;
- most of Customs clearance procedures have been automated;
- development of risk management software is started;
- it is possible to declare goods through on and off-line;
- it is possible to make payments of duties and taxes through e-banking;
- the time required for Customs clearance is reduced by 5-8 times;
- number of evasion from duties and taxes had decreased; and
- revenue collection had increased.

To further improve the GAMAS, the Mongolian Customs tackles with the following problems:

- financial difficulties for connecting all Customs unit by a fiber-optical cable; and
- less experiences and outdated techniques in the area of Customs modernization.

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