



**Regional Seminar on International Trade Statistics
3-6 November 2014
New Delhi ,India**

**QUALITY CHECKS AND QUALITY REPORT FOR
MALAYSIA'S EXTERNAL TRADE STATISTICS**

Presentation by : Department of Statistics, Malaysia

1. IMTS 2010 RECOMMENDATIONS

2. DATA QUALITY

3. QUALITY REPORT



IMTS 2010 RECOMMENDATIONS

1. IMTS 2010 RECOMMENDATIONS

i. Systematic approach to data quality

ii. Dimensions of data quality

iii. Contents of quality reports

iv. Quality indicators

v. Cross-country data comparability



DATA QUALITY

WHY Data Quality is Important

- ▶ Credibility
- ▶ To ensure reliable and accurate data for input into BOP and GDP
- ▶ And also for policy making

Validation Errors

- ▶ Data is certainly incorrect
- ▶ May cause processing Problems
- ▶ Cannot be included in statistical analysis
- ▶ Must be removed/corrected
- ▶ Examples
 - ▶ text characters in value field
 - ▶ invalid commodity or country code

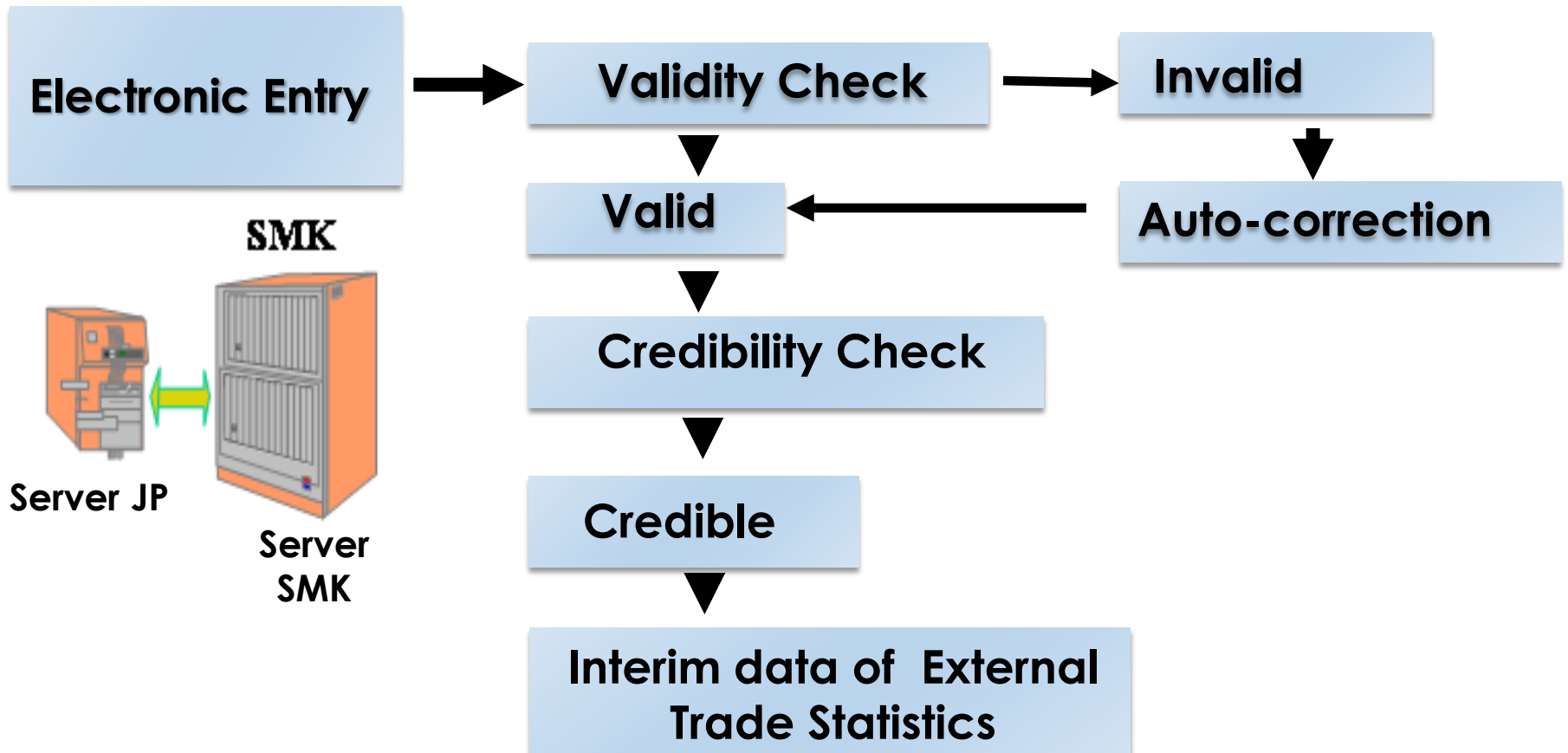
2. DATA QUALITY – cont.

Credibility Errors

- ▶ Data is valid but possibly incorrect
- ▶ Can be processed
- ▶ Examples:
 - ▶ inflated value (currency) or quantity (*000)
 - ▶ valid but wrong commodity code

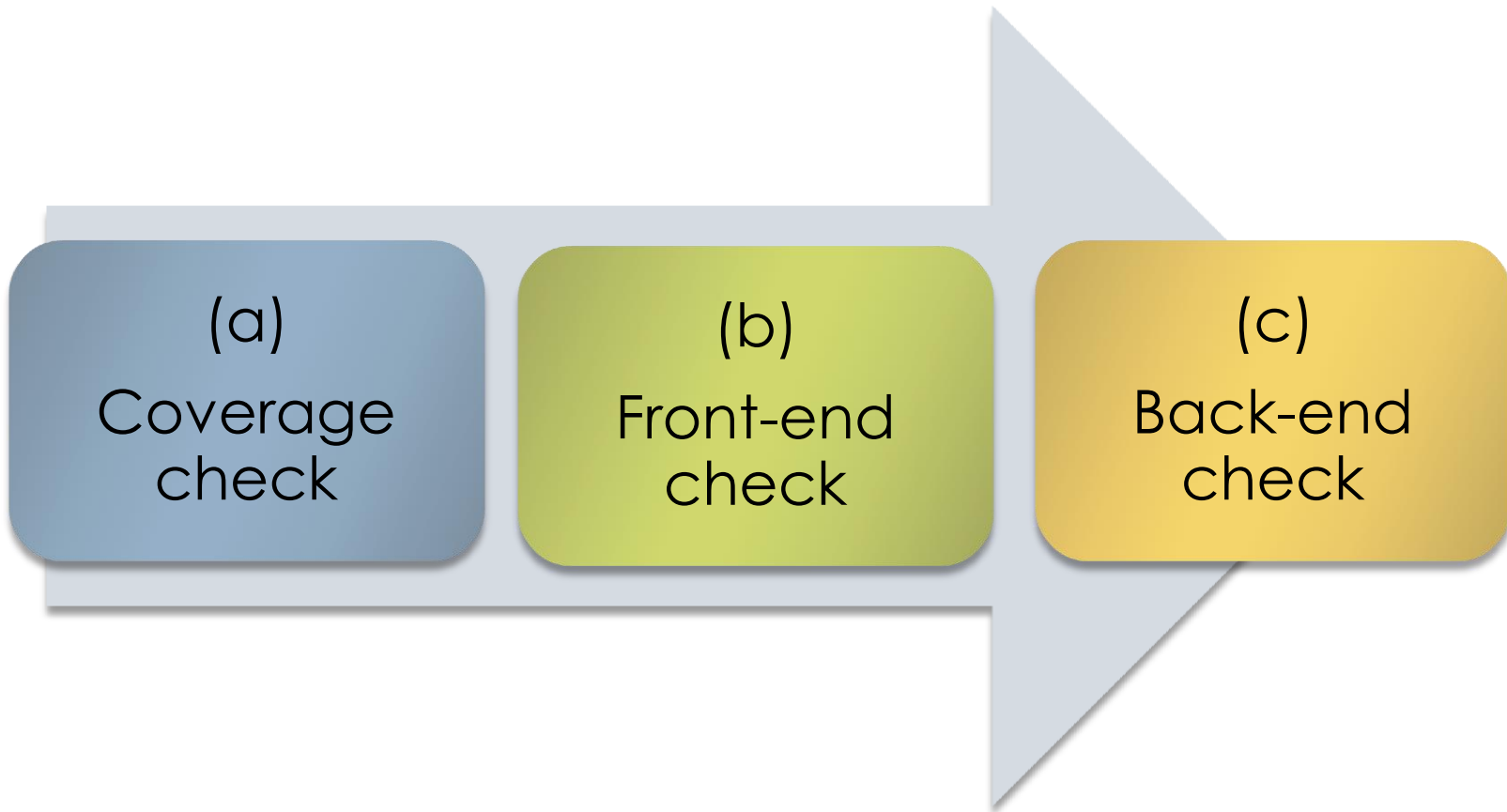
2. DATA QUALITY – cont.

Validation Steps



2. DATA QUALITY – cont.

Quality Controls



(b) Front-end Check

High value transactions

Cross-check

Range-check

Masterfile-check

Computation-check



EXAMPLES OF VALIDATION CHECK

JABATAN PERANGKAAAN MALAYSIA

Bahagian Perangkaan Perdagangan Luar Negeri

Visitors: 96554 Online Us

Date: 22 Jul 2014

Dashboard Duplicated Analyzer

TRADE AUV TRADE CLEANSING PROVISIONAL SORTING BPPIB REBUILD PRELIMINARY

YEAR : 2014 NEGERI : FORM TYPE: TC : UBT : UNMAT AUP: OMIT: Not Omi
MONTH: STATION: CGC : TBR: CYCLE: DEL: Not De VALID: Got erro

High Value Transactions

Registration Form

Form Type : K1 Registration No : A13201410700001 Sequent No : 00101
Trade Classification : 1 Channel Code : 11 Channel Description : LUMUT PERAK

Check Code: 0 Check Aup: 0

Mode of Transport: 1 Laut

Tariff Code: 2523101000 More...

Transaction Type: I

Quantity: 21700 Unit: TNE

Port of Transhipment:

Value: 3,867,751.58 AUP Value: 178.2374

Currency Code: MYR MALAYSIA

FOB: 3003491.58 AUP: N

Exchange Rate: 1

Insurance: 2081.24 AUP Lower: 100

Port of Loading: CPHVN

Freight: 862178.76 AUP Upper: 500

Port of Discharge: LUMMY MY LUMUT, MA

Country Destination: -

Move From: -

Country of Origin: VN VIETNAM SOCIALIST RE

Move To: -

Duty: ND

Duty Value: 0

More Details... Save Delete

Untitled Document - Windows Internet Explorer provided by J...
 http://10.21.35.52/sms072014/POC2.csp?obj=K1||A132014107000001||00101

IMPORTER

Code: BXXXXW
 Name: COMPANY ABC
 Address: JALAN ABCXYZ PERAK

EXPORTER

Code: -
 Name: COMPANY XYZ
 Address: ADDRESS OVERSEAS

AGENT

Code Agent: AZ9999
 Name: SYARIKAT XXX

VESSEL

Vessel Name: MV. TAN BINH 36

DECLARENT

Declarent Name: TAN AH BAH

DESCRIPTION

General Description: PORTLAND CEMENT CLINKER IN BULK
 Specific Description: IN BULK
 Gross Weight: 21700000
 Unit Description: TONNE (1000 KG)
 Quantity: 21700
 Value: 3867751.58
 Release Date: 02/07/2014

Done Internet 105%



Dashboard Duplicated Analyzer

TRADE	AUV	TRADE CLEANSING	PROVISIONAL	SORTING	BPPIB	REBUILD	PRELIMINARY
YEAR : 2014	NEGERI : [dropdown]	FORM TYPE: [dropdown]	TC : [dropdown]	UBT : UNMAT	AUP: [dropdown]	OMMIT: Not Omi	
MONTH: [dropdown]	STATION: [dropdown]	CGC : [dropdown]	TBR: [dropdown]	CYCLE: [dropdown]	DEL: Not De	VALID: Got erro	

REGISTRATION NO: [input] ERROR TYPE: Decimal not allowed

CORRECTION FORM - CLEANSING APPLICATION

Registration Form

Form Type : K1 Registration No : B102014106035079

Trade Classification : 1 Channel Code : 16

Unit of Quantity

Check Code: [dropdown] Check Aup: [dropdown]

Mode of Transport: 1 Laut

Transaction Type: [input]

Port of Transhipment: [input]

Currency Code: MYR MALAYSIA

Exchange Rate: 1

Port of Loading: TAOCN

Port of Discharge: PKGMY MY PORT KEL

Move From: -

Move To: -

Tariff Code: 848280000

Quantity: 11.742

Value: 287.05

Unit: UNT

AUP Value: 24.4464

FOB: 4809.75 AUP: N

Insurance: 50.63 AUP Lower: 15

Freight: 202.52 AUP Upper: 10000

Country Destination: -

Country of Origin: CN CHINA, PEOPLE'S REPU

Duty: D

Duty Value: 796.99

More Details... Save Delete

of 1407 > >|

HSCODE DETAIL - Windows Internet Explorer...

http://10.21.35.52/sms072014/POC3.csp?obj=K1|B102014106035079

DETAIL	
TARIFF :	848280000
DESC 1 :	Ball or roller bearings. Other, including combined ball roller bearings
DESC 2 :	
AHTN9 :	

Untitled Document - Windows Internet Explorer provided by J...

http://10.21.35.52/sms072014/POC2.csp?obj=K1|B102014106035079|00102

IMPORTER

Code : BXXXXXW

Name : COMPANY ABC

Address : JALAN ABCXYZ XXXX
XXXX YYYYYYYYYYYY
NEGERIA EHSAN

EXPORTER

Code : -

Name : COMPANY XXXXXXXX PORT

Address : JALAN ABCXYZ XXXX
XXXX YYYYYYYYYYYY
NEGERI CINA

AGENT

Code Agent : AZ9999

Name : COMPANY XXXXXXXX

VESSEL

Vessel Name : YM SEATTLE

DECLARENT

Declarent Name : TANAH BAH

DESCRIPTION

General Description :	BEARING = 5PCS
Specific Description :	PARTS OF STC SPARE PARTS.
Gross Weight :	20918
Unit Description :	UNIT
Quantity :	11.742
Value :	287.05
Release Date :	01/07/2014

TRADE	AUV	TRADE CLEANSING	PROVISIONAL	SORTING	BPPIB	REBUILD	PRELIMINARY
YEAR : 2014	NEGERI :	FORM TYPE:	TC :	UBT :	UNMAT	AUP:	OMMIT: Not Omi
MONTH:	STATION:	CGC :	TBR:	CYCLE:	DEL: Not De	VALID:	Got erro

Change Log REGISTRATION NO: ERROR TYPE: Error Final Destination

CORRECTION FORM - CLEANSING APPLICATION

Registration Form
 Form Type : K2 Registration No : J2520
 Trade Classification : 2 Channel Code : 79

Country of destination

Mode of Transport: 3	Jalan Raya	Tariff Code: 490199000	More...
Transaction Type: L		Quantity: 1905	Unit: KGM
Port of Transhipment: SINGSG		Value: 13,003.21	AUP Value: 6.8258
Currency Code: SGD	SINGAPORE	FOB: 13003.21	AUP: X
Exchange Rate: 2.5504		Insurance: 0	AUP Lower:
Port of Loading: -		Freight: 150	AUP Upper:
Port of Discharge: KOPSI	SI KOPER	Country Destination: YU	YUGOSLAVIA, FED REP
Move From: -		Country of Origin: MY	MALAYSIA
Move To: -		Duty: ND	
		Duty Value: 0	

More Details... Save Delete

Untitled Document - Windows Internet Explorer provided by J...
 http://10.21.35.52/sms072014/POC2.csp?obj=K2||J252014207017154||00101

IMPORTER	
Code :	- BXXXXW
Name :	COMPANY ABC
Address :	JALAN ABC XYZ XXXX BELGRADE SERBIA
EXPORTER	
Code :	B146110M
Name :	COMPANY
Address :	JALAN ABC XYZ PERANGKANA STRIAN XXXX YYYYYYYYYYYYYY NEGERI AA
AGENT	
Code Agent :	AZ9999
Name :	COMPANY XX
VESSEL	
Vessel Name :	
DECLARENT	
Declarent Name :	TANAH BAH
DESCRIPTION	
General Description :	5 PLTS PRINTED BOOK
Specific Description :	
Gross Weight:	190500
Unit Description :	KILOGRAM
Quantity :	1905
Value :	13003.21
Release Date :	14/07/2014

JABATAN PERANGKAAAN MALAYSIA

Bahagian Perangkaan Perdagangan Luar Negeri

Visitors: 96554 Online Users: 37

Date: 22 Jul 2014

Dashboard Duplicated Analyzer Log Out

TRADE AUV TRADE CLEANSING PROVISIONAL SORTING BPIIB REBUILD PRELIMINARY

YEAR : 2014 NEGERI : JOHOR FORM TYPE: TC : UBT : UNMAT AUP: OMMIT: Not Omi
MONTH: STATION: CGC : TBR: CYCLE: DEL: Not De VALID: Got erro

Change Log REGISTRATION NO: ERROR TYPE: Error In Channel

CORRECTION FORM - CLEANSING APPLICATION

Registration Form

Form Type : K1 Registration No : J152014106009077
Trade Classification : 1 Channel Code : null

Channel

Check Code: 0 Check Aup: 0

Mode of Transport: 3 Jalan Raya

Transaction Type: X

Tariff Code: 741991000 More...

Quantity: 5.8 Unit: KGM

Port of Transhipment:

Value: 2,624.06 AUP Value: 452.4241

Currency Code: USD UNITED STATE

FOB: 17431.01 AUP: U

Exchange Rate: 2.2567

Insurance: 0 AUP Lower: 1

Port of Loading: HKGHK

Freight: 0 AUP Upper: 100

Port of Discharge: PGUMY MY PS GUDAN

Country Destination: -

Move From: -

Country of Origin: CN CHINA, PEOPLE'S REPU

Move To: -

Duty: D

Duty Value: 1743.11

More Details... Save Delete

Page 1 of 12807 Record 1 of 12807

IMPORTER

Code: BXXXXW
Name: COMPANY ABC
Address: JALAN ABCXYZ XXXX WAJA
7 KUALA SELAYANG INDUSTRIAL
PANDAN, 81100 JOHOR.
NEGERI AA

EXPORTER

Code: -
Name: COMPANY XXXXMM
Address: JALAN ABGXYZ XXXX, TAIPEI
248, TAIWAN.

AGENT

Code Agent: AZ9999
Name: COMPANY XXXX

VESSEL

Vessel Name:

DECLARENT

Declarent Name: TAN AH BAH

DESCRIPTION

General Description: TERMINAL 1(RESET ALARM)-(4560 PCS)
Specific Description: TERMINAL=====
Gross Weight: 5421
Unit Description: KILOGRAM
Quantity: 5.8
Value: 2624.06
Release Date: 01/07/2014

Dashboard Duplicated Analyzer

TRADE AUV TRADE CLEANSING PROVISIONAL SORTING BPPIB REBUILD PRELIMINARY

YEAR : 2014 NEGERI : FORM TYPE: TC : UBT : UNMAT AUP: OMMIT: Not Omi

MONTH: STATION: CGC : TBR: CYCLE: DEL: Not De VALID: Got erro

Change Log REGISTRATION NO: ERROR TYPE: Error In Country AHTN10

CORRECTION FORM - CLEANSING APPLICATION

Registration Form

Form Type : K1 Registration No : J152014106009226 Sequent No : 00101

Trade Classification : 1 Channel Code : 15 Channel Description : PASIR GUDAN

Code

Check Code: 0

Mode of Transport: 1 Laut

Transaction Type: X

Port of Transhipment:

Currency Code: JPY JAPAN

Exchange Rate: .03

Port of Loading: OSAJP

Port of Discharge: PGUMY MY PS GUDAN

Move From: -

Move To: -

Tariff Code: 8518229000 More...

Quantity: 36 Unit: UNT

Value: 31,341.48 AUP Value: 870.5967

FOB: 101729.22 AUP: X

Insurance: 1070.83 AUP Lower:

Freight: 4283.34 AUP Upper:

Country Destination: -

Country of Origin: JP JAPAN

Duty: D

Duty Value: 28377.1

More Details... Save Delete

DETAIL

TARIFF : 8518229000

DESC 1 : Microphones and stands therefor; loudspeakers, whether or not mounted in their enclosures; headphones and earphones, whether or not combined with a microphone, and sets consisting of a microphone and one or more loudspeakers; audio-frequency electric amplifiers; electric sound amplifier sets. Loudspeakers, whether or not mounted in their enclosures: Multiple loudspeakers, mounted in the same enclosure: Other than Box speaker type

IMPORTER

Code : ~~XXXXXX~~

Name : ~~COMPANY ABC~~

Address : ~~JALAN ABCXYZ WINDY GAN EXXXY~~

EXPORTER

Code : -

Name : ~~COMPANY XXXX~~

Address : OSAKA 540-6255, JAPAN.

AGENT

Code Agent : ~~WAZ9999~~

Name : ~~COMPANY XXXXXXXX (SIA)~~

VESSEL

Vessel Name : WAN HAI 313

DECLARENT

Declarent Name : ~~TANAH BAH~~

DESCRIPTION

General Description : HOME THEATER AUDIO SYSTEM (SC-HTB880-K)

Specific Description : SPARE PARTS FOR AUDIO

Quality Check (METSS)

DETAIL	
TARIFF :	230400000
DESC 1 :	Oil-cake and other solid residues, whether or not ground or in the form of pellets, resulting from the extraction of soyabean oil.
DESC 2 :	
AHTN9 :	
AHTN10 :	
SITC :	081310000
UQ :	KILOGRAM

Registration Form

Form Type : K1 Registration No : J152014102007723 Sequent No : 00101
 Trade Classification : 1 Channel Code : 15 Channel Description : PASIR GUDANG, JOHOR

AUP CHECK

Check Code: Check Aup:

Mode of Transport:

Transaction Type:

Port of Transhipment:

Currency Code:

Exchange Rate:

Port of Loading:

Port of Discharge:

Move From:

Move To:

Tariff Code:

Quantity: Unit:

Value: AUP Value:

FOB: AUP:

Insurance: AUP Lower:

Freight: AUP Upper:

Country Destination:

Country of Origin:

Duty:

Duty Value:

IMPORTER

Code :

Name :

Address :

EXPORTER

Code :

Name :

Address :

AGENT

Code Agent :

Name :

VESSEL

Vessel Name :

DECLARENT

Declarent Name :

DESCRIPTION

General Description : 5,500.00 MT ARGENTINE HIPRO SOYBEAN MEAL IN BULK

Specific Description : IN BULK

Gross Weight: 550000000

Unit Description : KILOGRAM

Quantity : 5500000

Value : 10821195

Quality Check (METSS) cont.

DE	AUV	TRADE CLEANSING	PROVISIONAL	SORTING	BPPIB	REBUILD	PRELIMINARY
AR : 2014	NEGERI : <input type="text"/>	FORM TYPE: <input type="text"/>	TC : <input type="text"/>	UBT : UNMAT	AUP: <input type="text"/>	OMMIT: Not Omi	
NTH: 03	STATION: <input type="text"/>	CGC : <input type="text"/>	TBR: <input type="text"/>	CYCLE: <input type="text"/>	DEL: Not De	VALID: Got errc	

Change Log

REGISTRATION NO: ERROR TYPE:

CORRECTION FORM - CLEANSING APPLICATION

Registration Form

Form Type : K1 Registration No : J102014103003958 Sequent No : 00102
 Trade Classification : 4 Channel Code : 71 Channel Description : JOHOR BAHRU TAMBAK

Check Code: Check Aup:

Mode of Transport: 3 Jalan Raya

Transaction Type:

Quantity: 5 Unit: UNT

Value: 1,114.84 AUP Value: 222.968

Currency Code: MYR B: 34091.43 AUP: X

Exchange Rate: 1 Insurance: 344.32 AUP Lower:

Port of Loading: SINGSG Freight: 340.91 AUP Upper:

Port of Discharge: J10 Country Destination: -

Move From: - Country of Origin: SG SINGAPORE, REPUBLIC

Move To: - Duty: D

Duty Value: 3477.66

**Error in Tariff Code
Change HS → AHTN**

ASEAN country

More Details... Save Delete

IMPORTER

Code: BXXXXW

Name: COMPANY ABC

Address: JALAN ABCXYZ XXXX DESA
XXXX YYYYYYYYYY

EXPORTER

Code: -

Name: COMPANY X

Address: JALAN ABCXYZ - XXXXMMMMM
XXXX YYYYYYYYYY

AGENT

Code Agent: AZ9999

Name: COMPANY XXXXMMMMMMMMMMMMHD

VESSEL

Vessel Name:

DECLARENT

Declarent Name: TANAH BAH

DESCRIPTION

General Description :	5 SET A/C MOTOR W/ACCESORIES SINGLE PHASE 120 WA
Specific Description :	
Gross Weight:	37300
Unit Description :	UNIT
Quantity :	5
Value :	1114.84

2. DATA QUALITY – cont.

(c) Back-end Check

Imports and Exports by Country

Imports and Exports by Customs Station/
Channel

Imports Exports Ratio

Cross-check with Other Countries

Checking of Selected Products (Aircraft,
Rubber, Petroleum, Copper, etc)

QUALITY REPORT - MALAYSIA

3. QUALITY REPORT

- ▶ Malaysia External Trade Statistics Quality Report was sent to ASEAN Secretariat in August 2013 – in line with the recommendation of IMTS 2010.
- ▶ Benchmark to UK's Quality Report

3. QUALITY REPORT

Quality Dimensions

1. **Timeliness**
2. **Accuracy**
3. **Accessibility & Clarity**
4. **Comparability**
5. **Coherence**

3. QUALITY REPORT – cont.

Quality Indicators

1) Timeliness

- Advanced Release Calendar (ARC)

YEAR	MONTHLY METS	ANNUAL METS
2009	5-6 weeks	10 months
2010	5-6 weeks	10 months
2011-current	5-6 weeks	9 months

3. QUALITY REPORT – cont.

Quality Indicators – cont.

2) Accuracy

- 2.1 Accuracy Characteristics
- 2.2 Controls using primary information/
sources
- 2.3 Controls using secondary
information/source
- 2.4 Confidentiality
- 2.5 Actions to improve accuracy

3. QUALITY REPORT – cont.

Quality Indicators – cont.

2) Accuracy – cont.

2.1 Accuracy Characteristics

i) Statistical Value

Exports – free on board (f.o.b.)

Imports – cost, freight and insurance(c.i.f.)

ii) Level of thresholds

From January 2013, single transactions with a value 'below RM1,000' for Peninsular Malaysia are excluded except for major commodities and selected goods.

3. QUALITY REPORT – cont.

Quality Indicators – cont.

2) Accuracy – cont.

2.1 Accuracy Characteristics – cont.

iii) Exclusions

Transit and goods for repair

iv) Revisions

- The monthly data are provisional when 1st released and subject to revision in the following month.
- For annual, it will be released 9 months after the reference year.

3. QUALITY REPORT – cont.

Quality Indicators – cont.

2) Accuracy – cont.

2.2 Controls using primary information/sources

i) General information

ii) Information on controls and errors

3. QUALITY REPORT – cont.

Quality Indicators – cont.

2) Accuracy – cont.

2.2 Controls using primary information/sources

i) General information

- a) Data providers
- b) Number of transactions

YEAR	IMPORTS	% CHANGE	EXPORTS	% CHANGE
2009	1,340,407	-	842,529	-
2010	1,447,348	8.0%	977,095	16.0%
2011	1,479,002	2.2%	994,848	1.8%
2012	1,555,057	5.0%	1,118,218	12.0%

3. QUALITY REPORT – cont.

Quality Indicators – cont.

2) Accuracy – cont.

2.2 Controls using primary information/sources

i) General information – cont.

c) Electronic declarations

YEAR	IMPORTS	EXPORTS
2009	85.0%	82.0%
2010	95.0%	93.0%
2011	96.0%	95.0%
2012	97.3%	96.8%

3. QUALITY REPORT – cont.

Quality Indicators – cont.

2) Accuracy – cont.

2.2 Controls using primary information/sources

i) General information – cont.

d) Information on controls and errors

- Validity checks
- Credibility checks
- Methodology for credibility checks

3. QUALITY REPORT – cont.

Quality Indicators – cont.

2) Accuracy – cont.

2.2 Controls using primary information/sources

i) General information – cont.

d) Information on controls and errors

- Validity checks
- Credibility checks
- Methodology for credibility checks

3. QUALITY REPORT – cont.

Quality Indicators – cont.

2) Accuracy – cont.

2.3 Controls using secondary information/source

- i) Statement on the imports/exports of oil and gas
- ii) Statement on the imports of tobacco
- iii) Report of total values and total number of transactions declared in Free Commercial Zone

3. QUALITY REPORT – cont.

Quality Indicators – cont.

2) Accuracy – cont.

2.4 Confidentiality

- Statistics Act 1965 (Revised – 1989)

2.5 Actions to improve accuracy

3. QUALITY REPORT – cont.

Quality Indicators – cont.

3) Accessibility and clarity

3.1 Accessibility

- Publications
- METS Online

3.2 Clarity

- Documentation available to users in all publications

3. QUALITY REPORT – cont.

Quality Indicators – cont.

4) Comparability and Issues

4.1 **Comparability over space**

- Methodological discrepancies in reporting
- Triangular trade
- Exchange rate
- Reporting time lags
- Classification of goods
- Confidentiality

4.2 **Comparability over time**

3. QUALITY REPORT – cont.

Quality Indicators – cont.

5) Coherence

- Inclusion of ‘ Specific Movements’ data into METS
- Mirror statistics analysis

3. QUALITY REPORT – cont.

Conclusion

Department of Statistics Malaysia always strive to improve the quality of trade processing and measures will be taken from time to time towards this goal.

The Quality Report will be updated as and when necessary

спасибо
danke 謝謝
ngiyabonga
teşekkür ederim
dank je
gracias tapadh leat
bedankt
hvala maururu
thank you
dziękuję
sagolun
sukriya kop khun krap
mochchakkeram
go raibh maith agat
obrigado
terima kasih
grazie arigatō takk dakujem
mercisi
ευχαριστώ
merci