

MALAYŠIA

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

Jabatan Perangkaan MALAYSIA

v. Cross-country data comparability



DATA QUALITY

2. 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

2. DATA QUALITY



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.



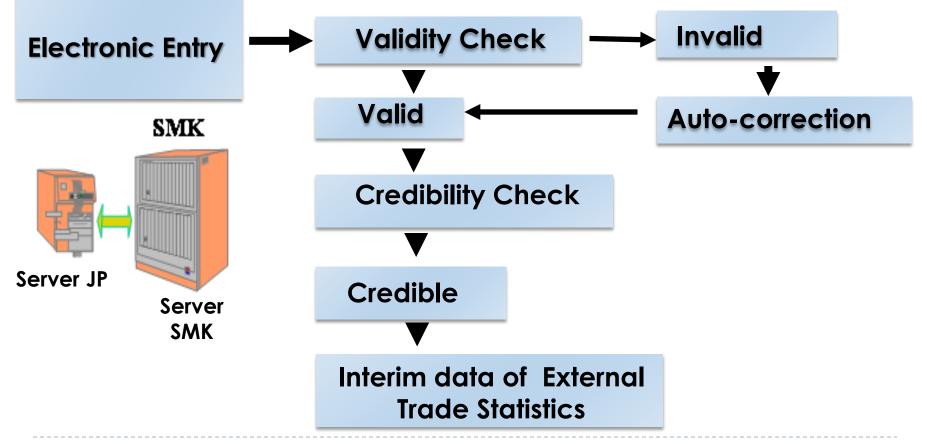
Credibility Errors

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



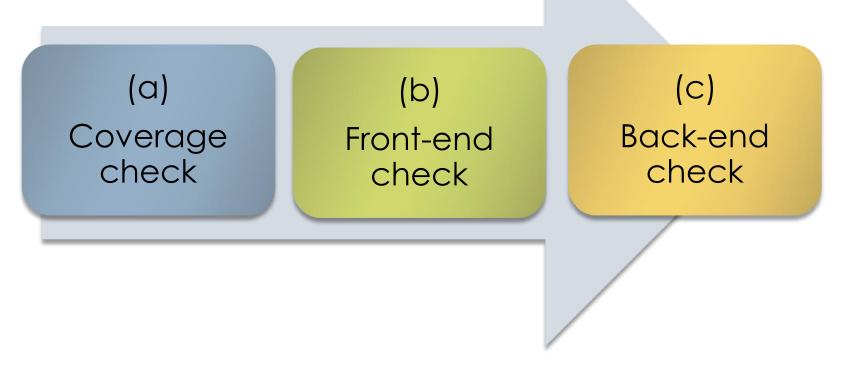


Validation Steps



2. DATA QUALITY – cont.

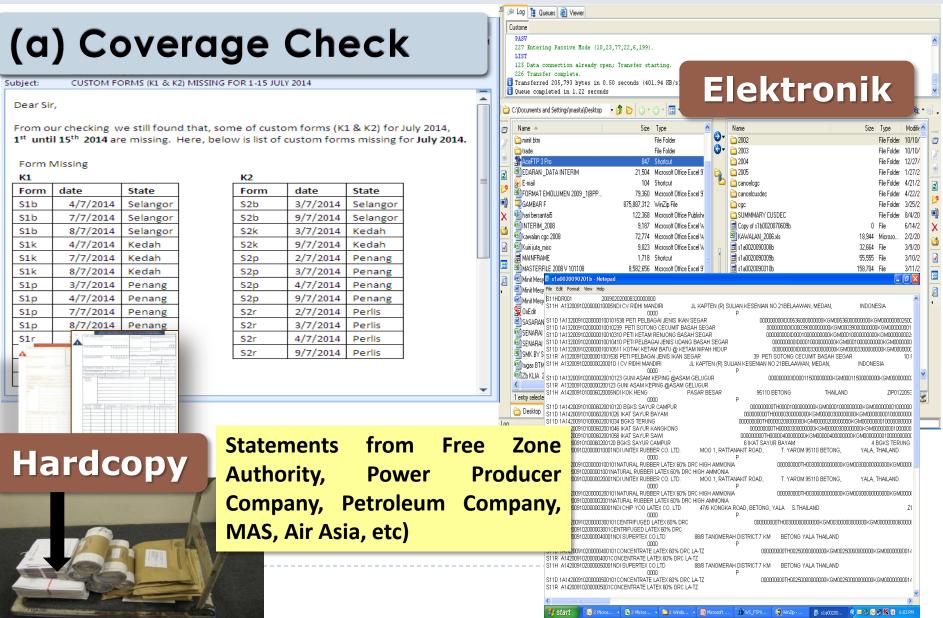
Quality Controls



Jabatan Perangkaan M A L A Y S I A

2. DATA QUALITY – cont.











High value transactions

Cross-check

Range-check

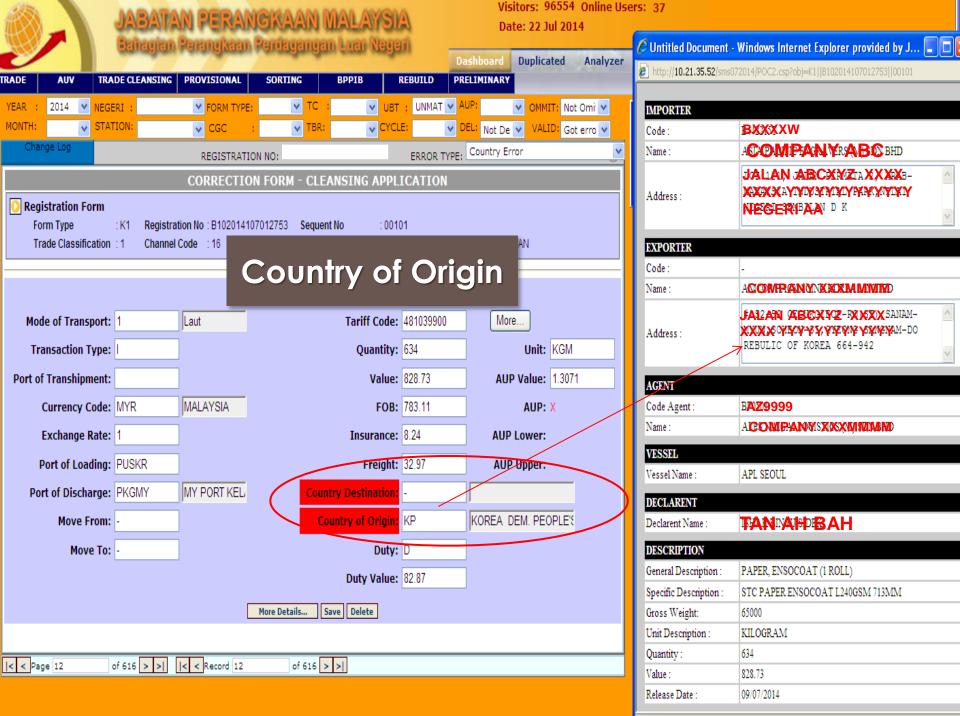
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Computation-check

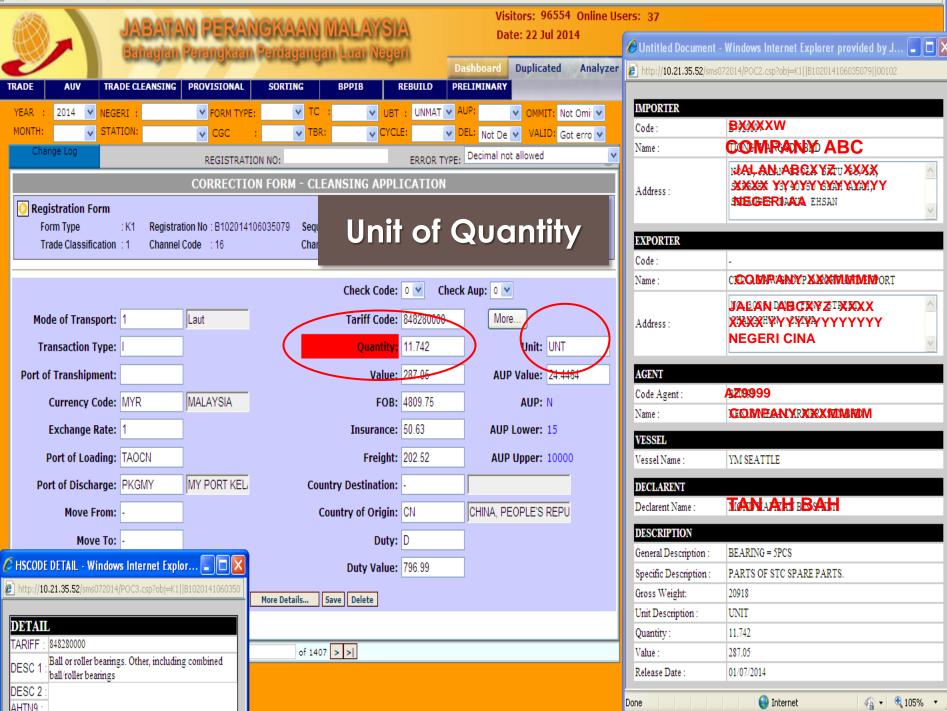


EXAMPLES OF VALIDATION CHECK

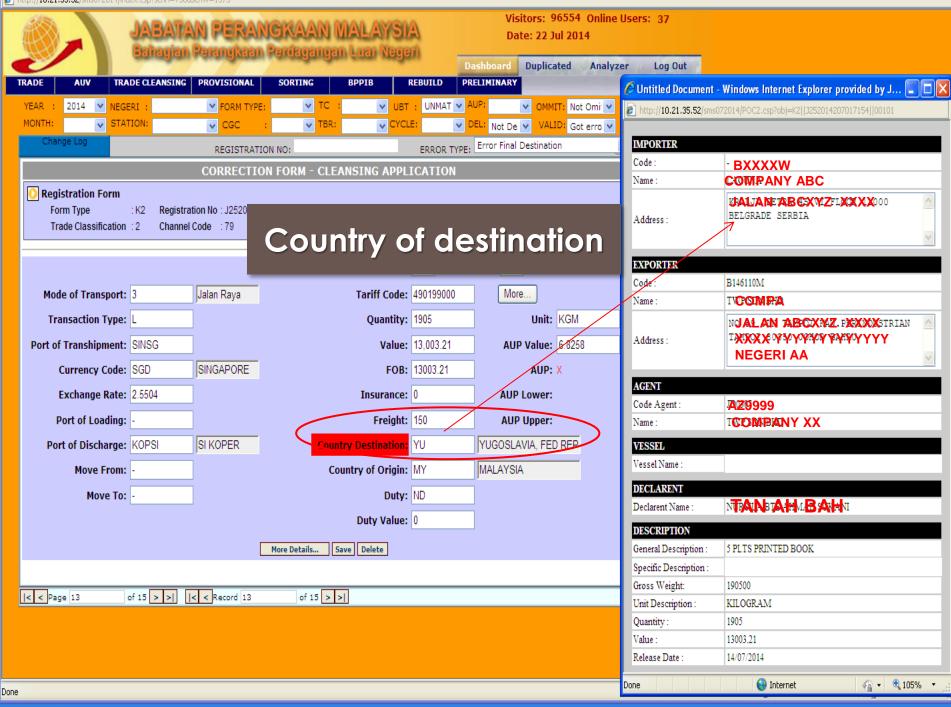
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0	Currency Co					B: 34091.43		AUP	: X	2	Name :	COMPANYRXXXMMMMMMMMMMD
			nange	$HS \rightarrow AI$							VESSEL	
Ŀ	Exchange Ra	te: 1			Insuranc	e: 344.32		AUP Lower	:	7	Vessel Name :	
P	ort of Loadi	ng: SINSG			Freigh	nt: 340.91		AUP Upper	:	Ī	DECLARENT	
Por	t of Dischar	ge: J10		Countr	y Destinatio	n: -						TAN AH BAH
	Move Fro	m: -]	Cou	ntry of O <mark>rigi</mark>	n: SG	SI	NGAPORE, RE	EPUBLIC		DESCRIPTION	
	Move	Го: -]	<	Dut	y: D		>			General Description :	5 SET A/C MOTOR W/ACCESORIES SINGLE PHASE 120 WA
			-		Duty Valu	a: 3477.66		SEAN	eounir		Specific Description :	
	Duty Value: 3477.66 ASEAN count								55531131	- 0	Gross Weight:	37300
				More Details Sa	ve Delete					-	Unit Description :	UNIT
		21								- 188	Quantity : Value :	5 1114.84
		-								1	value :	1114.04



Rubber, Petroleum, Copper, etc)



QUALITY REPORT - MALAYSIA





- 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





Quality Indicators

1) <u>Timeliness</u>

- 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



<u>Quality Indicators – cont.</u>

2) <u>Accuracy</u>

- 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



<u>Quality Indicators – cont.</u>

2) <u>Accuracy – cont.</u>

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.



<u>Quality Indicators – cont.</u>

2) <u>Accuracy – cont.</u>

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.





- 2) <u>Accuracy cont.</u>
 - 2.2 Controls using primary information/sources i) General information
 - ii) Information on controls and errors





2) <u>Accuracy – cont.</u>

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%





2) <u>Accuracy – cont.</u>

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%





2) <u>Accuracy – cont.</u>

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





2) <u>Accuracy – cont.</u>

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





2) <u>Accuracy – cont.</u>

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



<u>Quality Indicators – cont.</u>

2) <u>Accuracy – cont.</u>

2.4 Confidentiality

- Statistics Act 1965 (Revised - 1989)

2.5 Actions to improve accuracy



<u>Quality Indicators – cont.</u>

3) Accessibility and clarity

- 3.1 Accessibility
 - Publications
 - METS Online
- 3.2 Clarity

- Documentation available to users in all publications



<u>Quality Indicators – cont.</u>

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



<u>Quality Indicators – cont.</u>

5) <u>Coherence</u>

- Inclusion of 'Specific Movements' data into METS
- Mirror statistics analysis





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

