



## **Standards Application – Effective experiences around the globe.**

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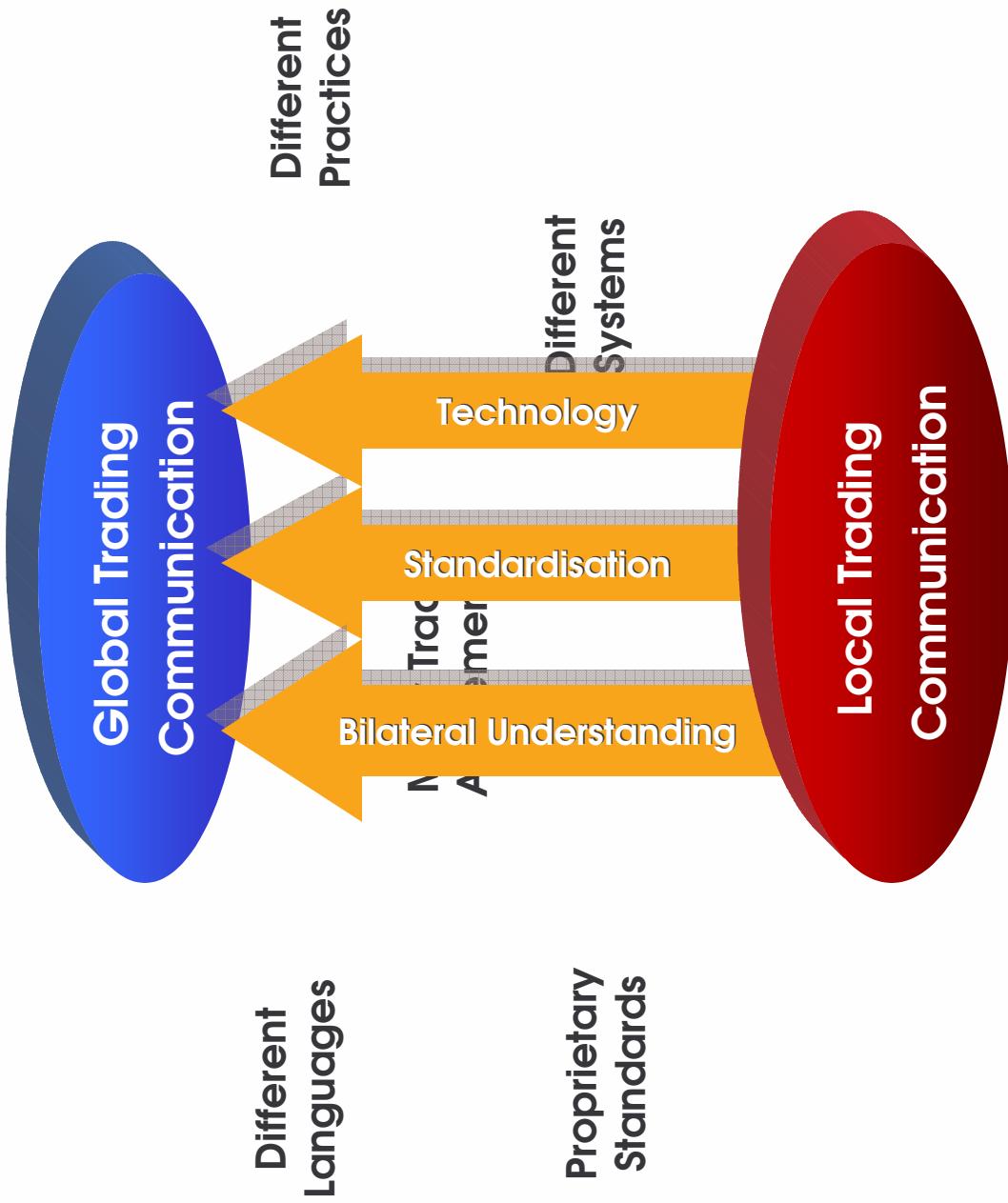
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# Challenges – Trade Administration

Voluminous paper documents required for international trade

Insurance Certificate	Declarations
Certificate of Origin	Arrival Notice Advice
Sanitary and Phytosanitary Certificates	Forwarding Instruction
Letter of Credit	Payment Order
Bill of Lading	Purchase Order
Waybill	Customs Clearance
Manifest	Remittance Advice
Stowage Plan/Bay Plan	Debit Advice
Invoice	Others

# Overcoming X-Border Challenges



## Cross-Border Initiatives Globally

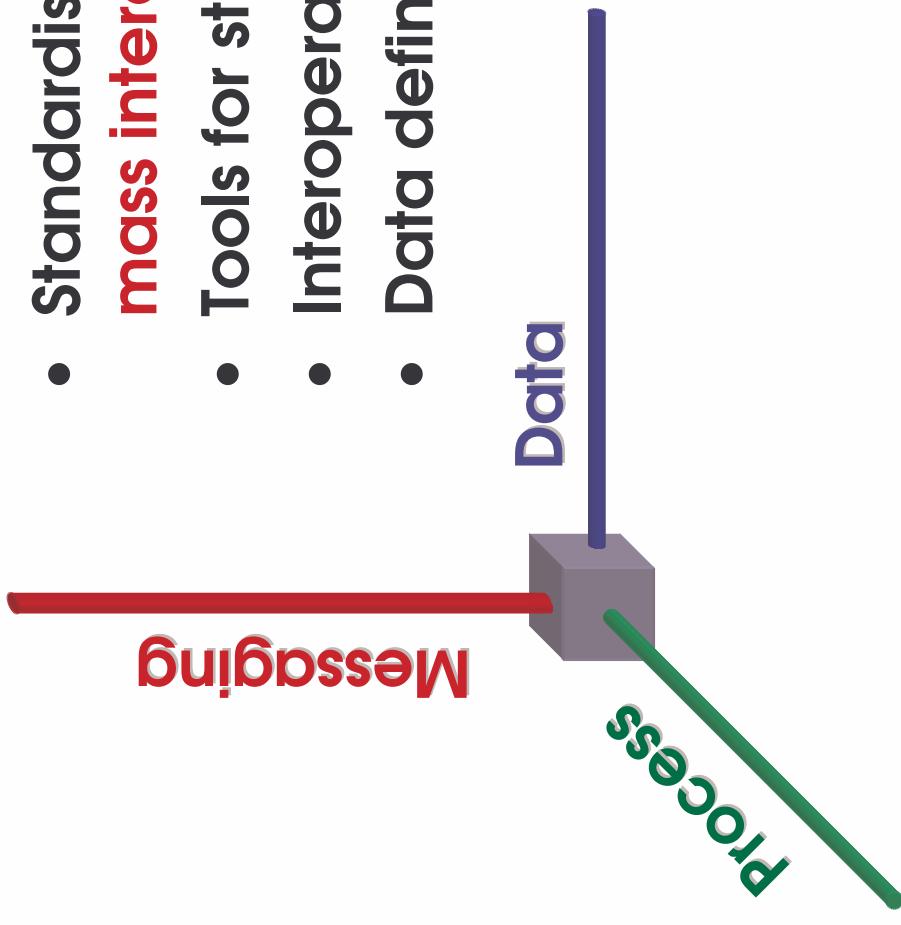
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- **eAsean** – WCO Model? RosettaNet 3B18?
- **Americas** – ACI/AMS/ADCS/APIs
- **G7** – Standard Declaration Format
- **Australia/Taiwan/Malaysia** – UCR Model
- **PAA** – PAA Pre-Declaration Format
- **Mexico/Japan/Singapore** – OASIS UBL

# Standardisation

- Standardisation enables **mass interoperability / adoption**
  - Tools for standardisation – e.g. XML
  - Interoperability guideline
  - Data definitions – e.g. RNet, UBL, WCO

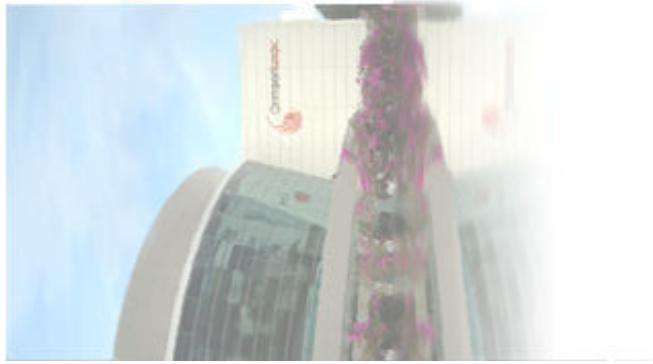


# International Trade Standards



# What is XML?

## XML



- Standardized Grammer Markup Language (SGML) developed in early '80s, became an ISO standards in 1986. SGML is widely used for large technical documentation projects
- Hypertext Markup Language (HTML) was created in 1989
- Mid 1990s : The "Internet" happens
- In 1996, work on XML began
- Designer of XML simply took the best part of SGML and the experience of HTML and produced something more powerful and easy to use called eXtensible Markup Language (XML)
- XML 1.0 became a W3 standard in February 1998

# What is XML?

- Describe information for storage, transmission or application processing in a structured manner
- Address context and gives meaning to data
- Platform independent
- Hierarchical in nature
- License Free

```
<order number="2001">
<client>ABC Pte Ltd</client>
<products>
<item>
<name>Dell Inspiron 4100 G866GT Notebook</name>
<quantity>2</quantity>
<unitprice>2388</unitprice>
</item>
</products>
</order>
```

# XML is Everywhere

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## XML - the fundamental building blocks for :

- RosettaNet's Partner Interface Processes (PIP) is an XML specification designed to align a specific business process between supply chain partners
- Electronic Business XML (ebXML) is an open technical framework to enable XML to be utilized in a consistent and uniform manner for the exchange of all electronic business data
- Proprietary Customs and Single Window Messaging Formats

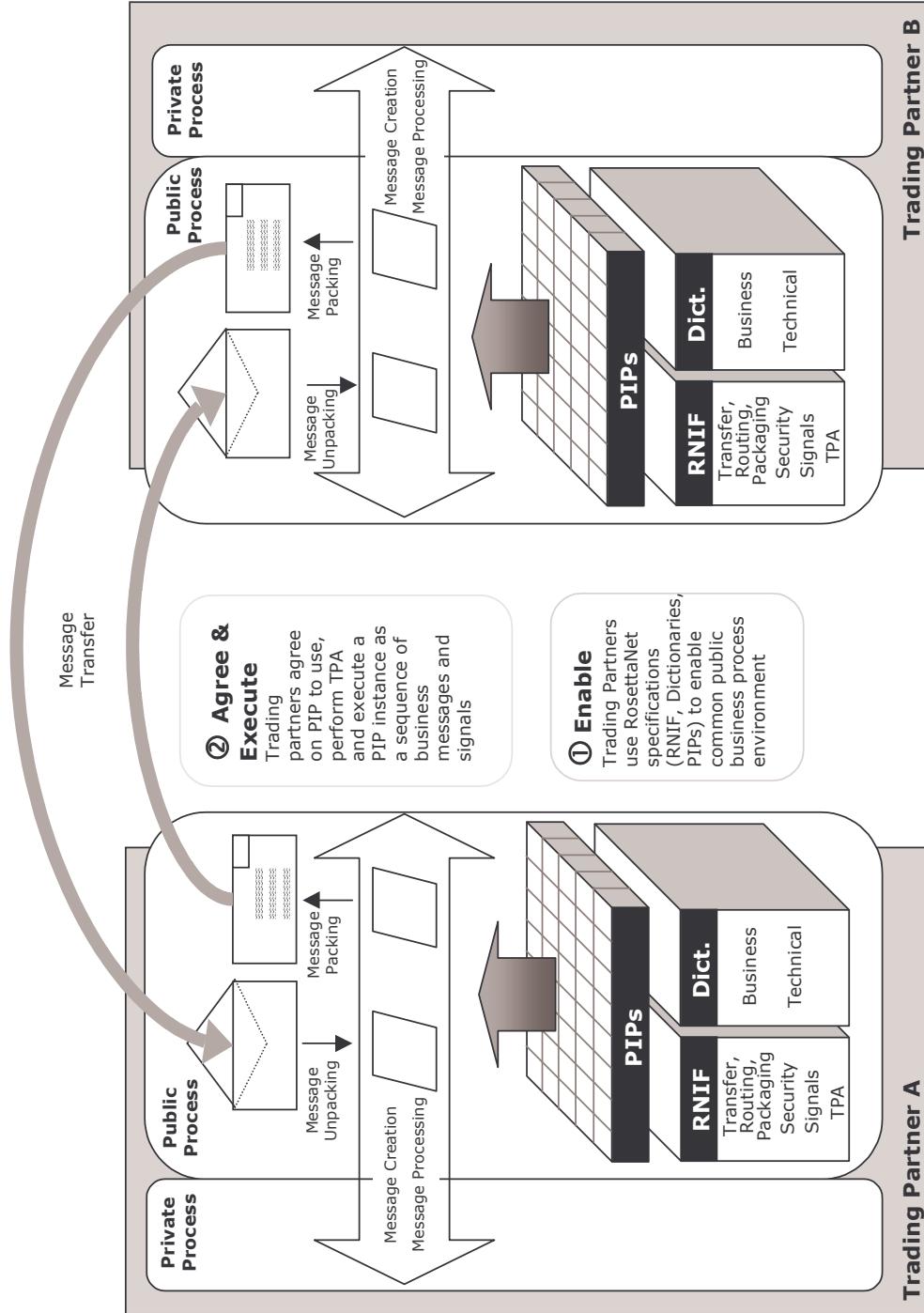


# What is RosettaNet?

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- **RosettaNet** - A non-profit organization that seeks to develop and implement standard electronic commercial interfaces for supply-chain (manager-supplier) transactions on the Internet. The interface specification is referred to as **RosettaNet Implementation Framework (RNIF)**.
- **RosettaNet Automated Enablement** –
  - To facilitate RosettaNet usage among a broader cross-section of the supply and demand base, without requiring a substantial time or financial investment.
  - **Changes** - augmenting current RosettaNet technology with new methods, processes, and PIPs.

# RosettaNet Implementation Framework



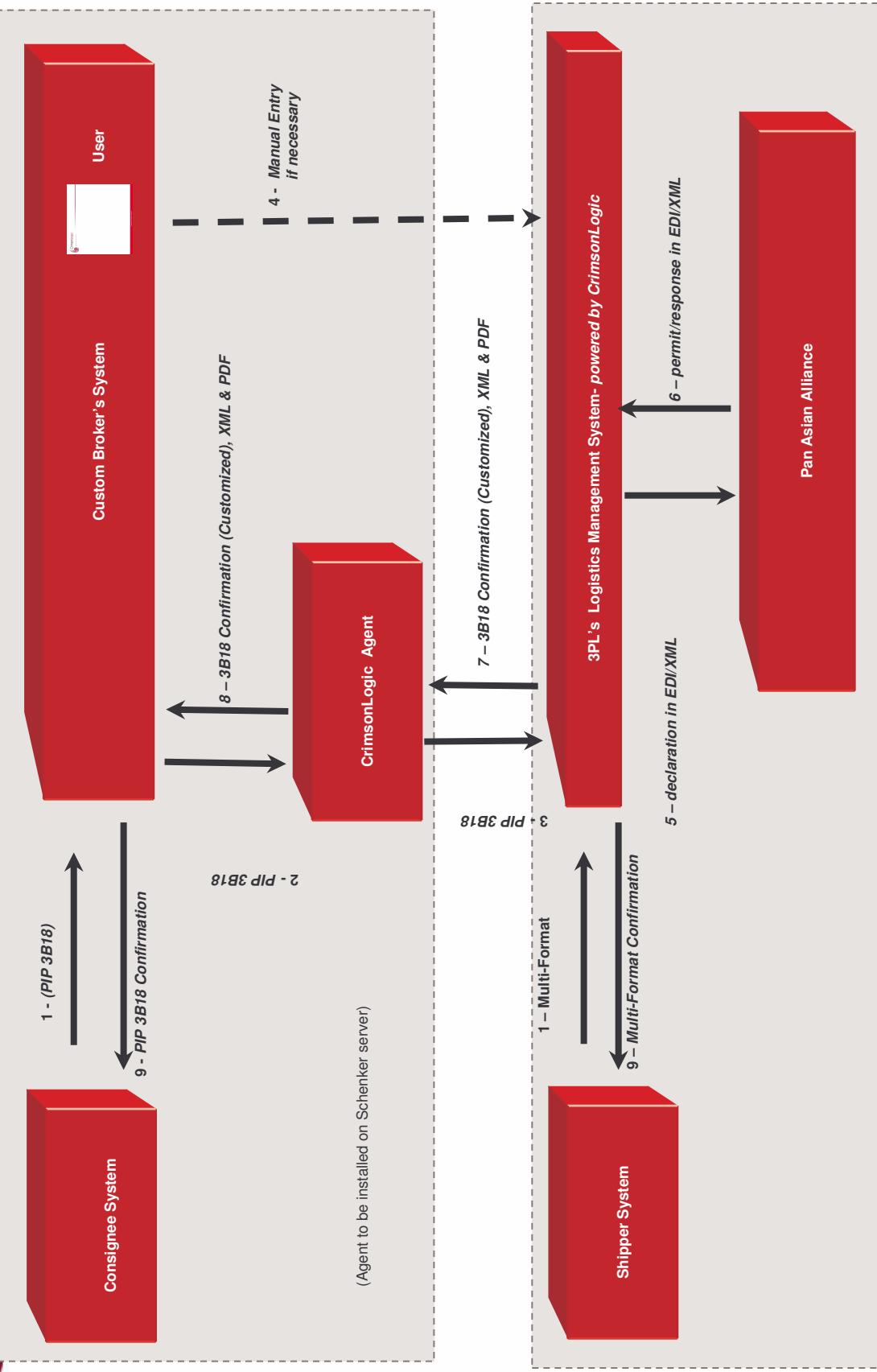
# Case Study 1 - TradeXchange

(TradeXchange™ is Singapore's new TradeNet—since Dec 2007)

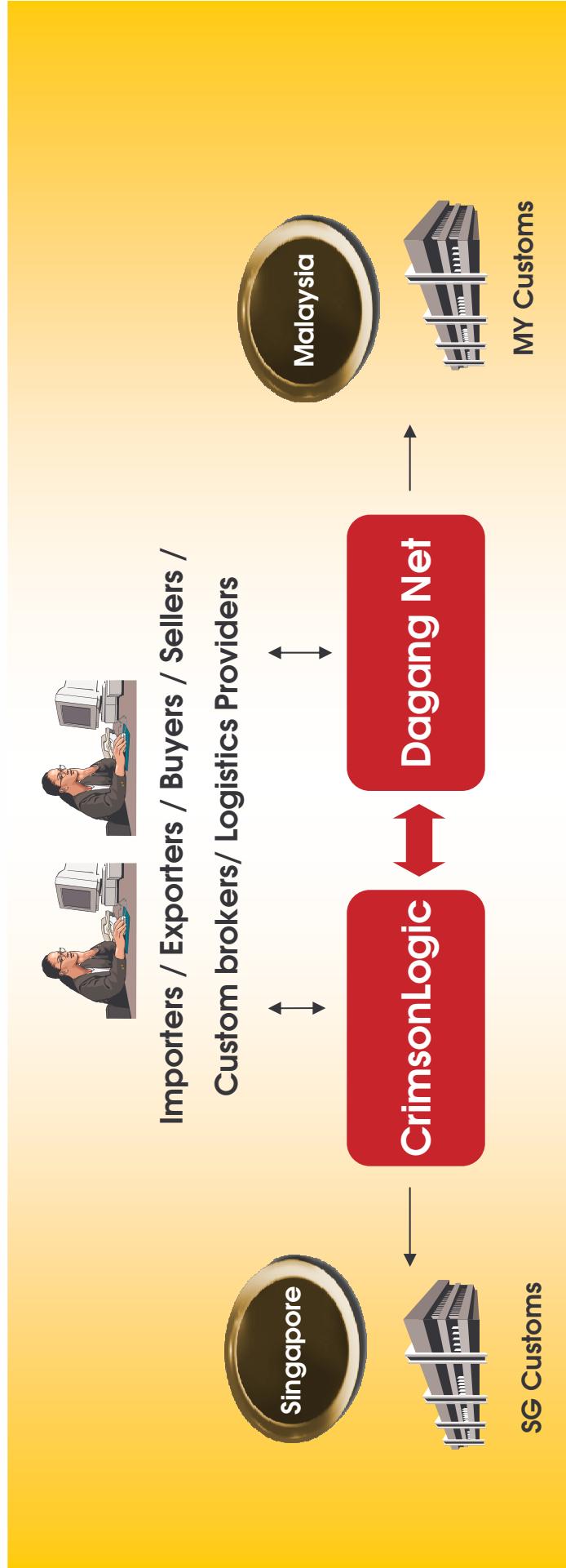


## Standards Case Study 2- Trade Declarations using RosettaNet 3B18

ROSETTANET 3B18 – Adapted for eCustoms, PIP modification with RosettaNet global

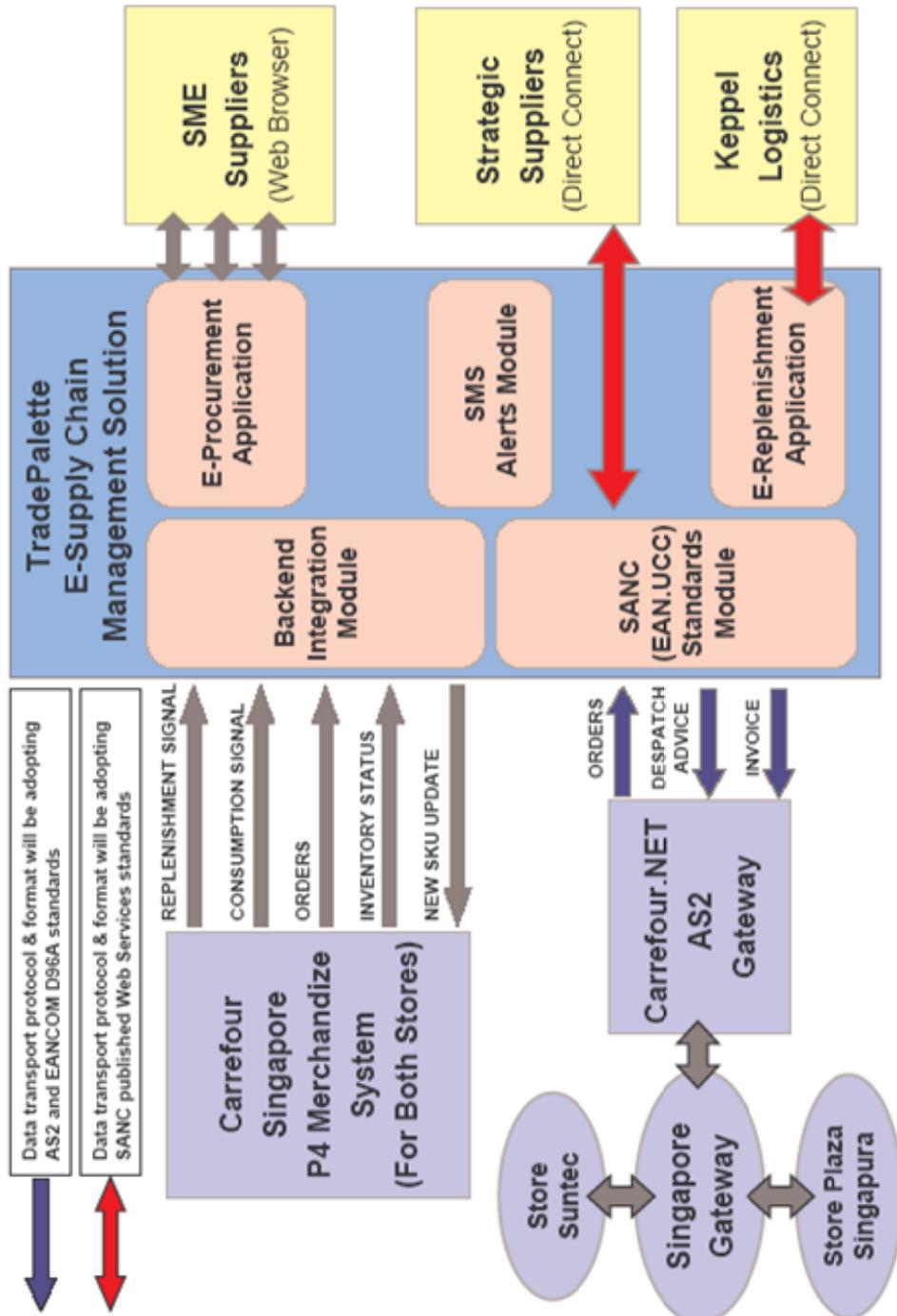


## Case Study 3- Cross Border Trading using PAA Standards

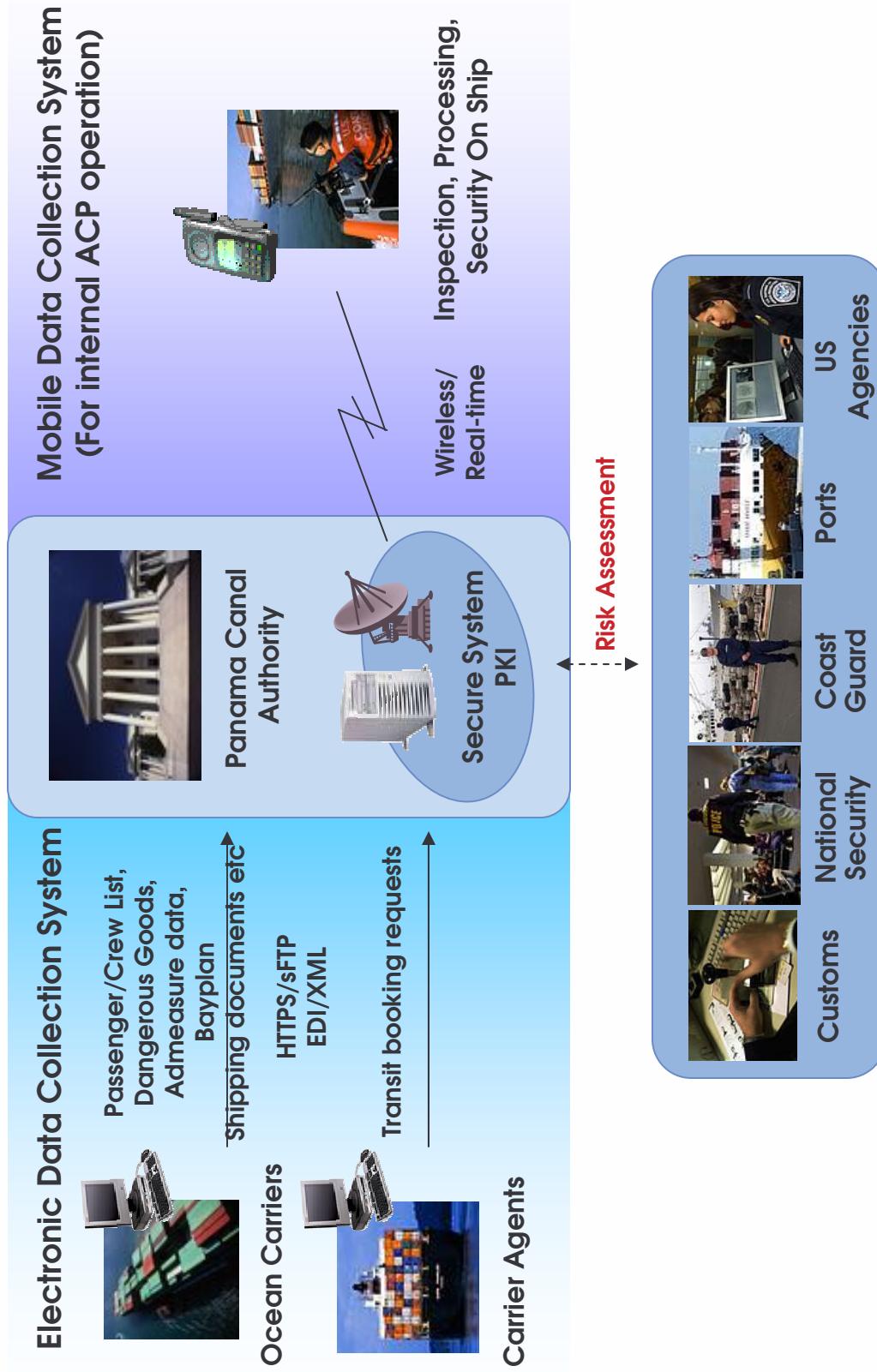


Exchange of trade-related documents to be conducted electronically cross border over a secured infrastructure, and with more ease and efficiency.

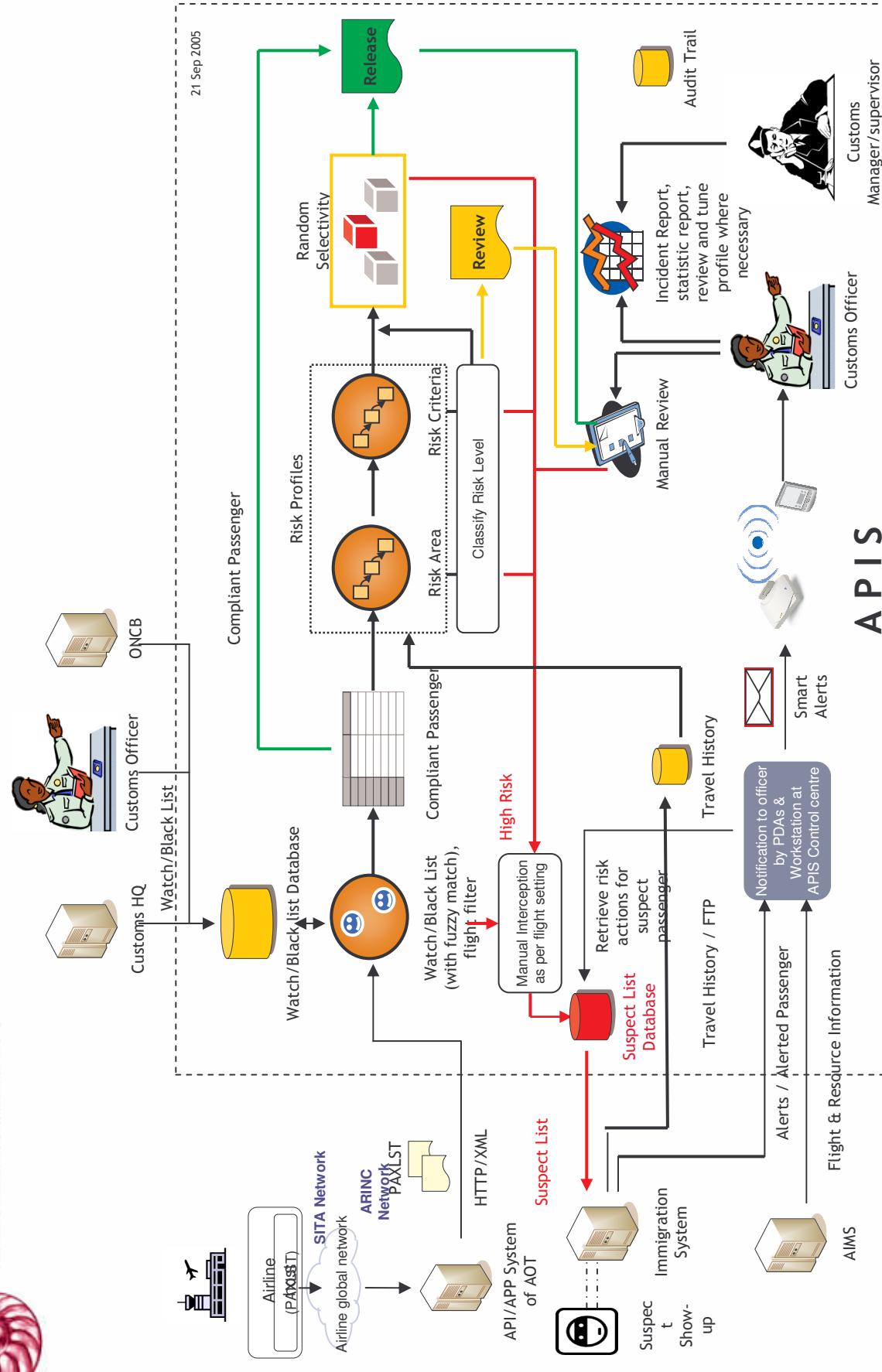
# Case Study 4- Carrefour using AS2 Standard



# Case Study 5- Panama Canal using EDI, XML and Baplie



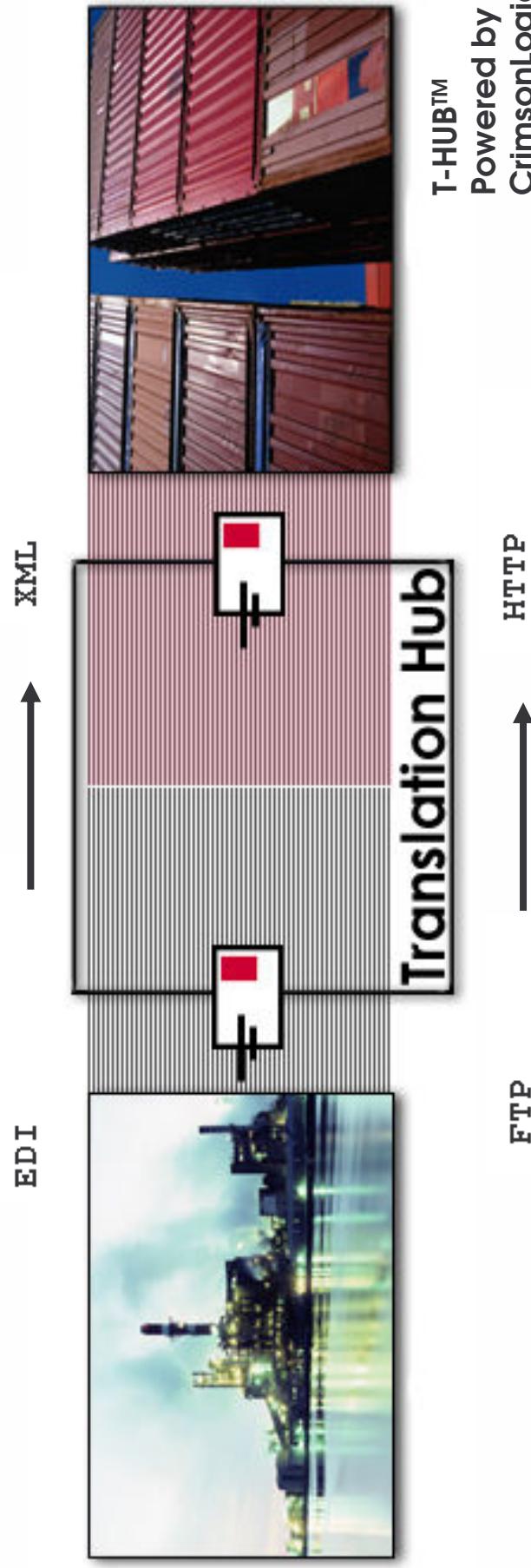
# Case Study 6 – APIs (Advanced Passenger Information System)



# In Conclusion ... is Interoperability the answer?

Case Studies depict multiple standards covering different Single Window Stakeholders:

- Traders
- Forwarders
- Brokers
- Shipping Lines
- Banks
- Customs
- Port Authorities.



# Thank you

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