

TradeXchange™

Public Private Partnership in Establishing a “Single Window” Environment for Trade Facilitation in Singapore

CrimsonLogic

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Shareholders



Civil Aviation Authority of Singapore



Security



eServices



Legal



Trade & Logistics



Government

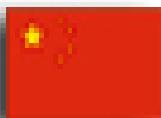


Healthcare

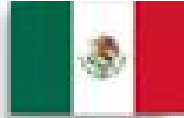
**Business Units
HQ
(Singapore)**



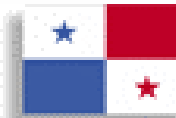
Australia



China



Mexico



Panama



Philippines



US



Canada



Malaysia



Saudi Arabia



UAE



India

Overseas Units

● Incorporated in March 1988 ● More than 500 staff worldwide ● Global Joint Ventures and Partners



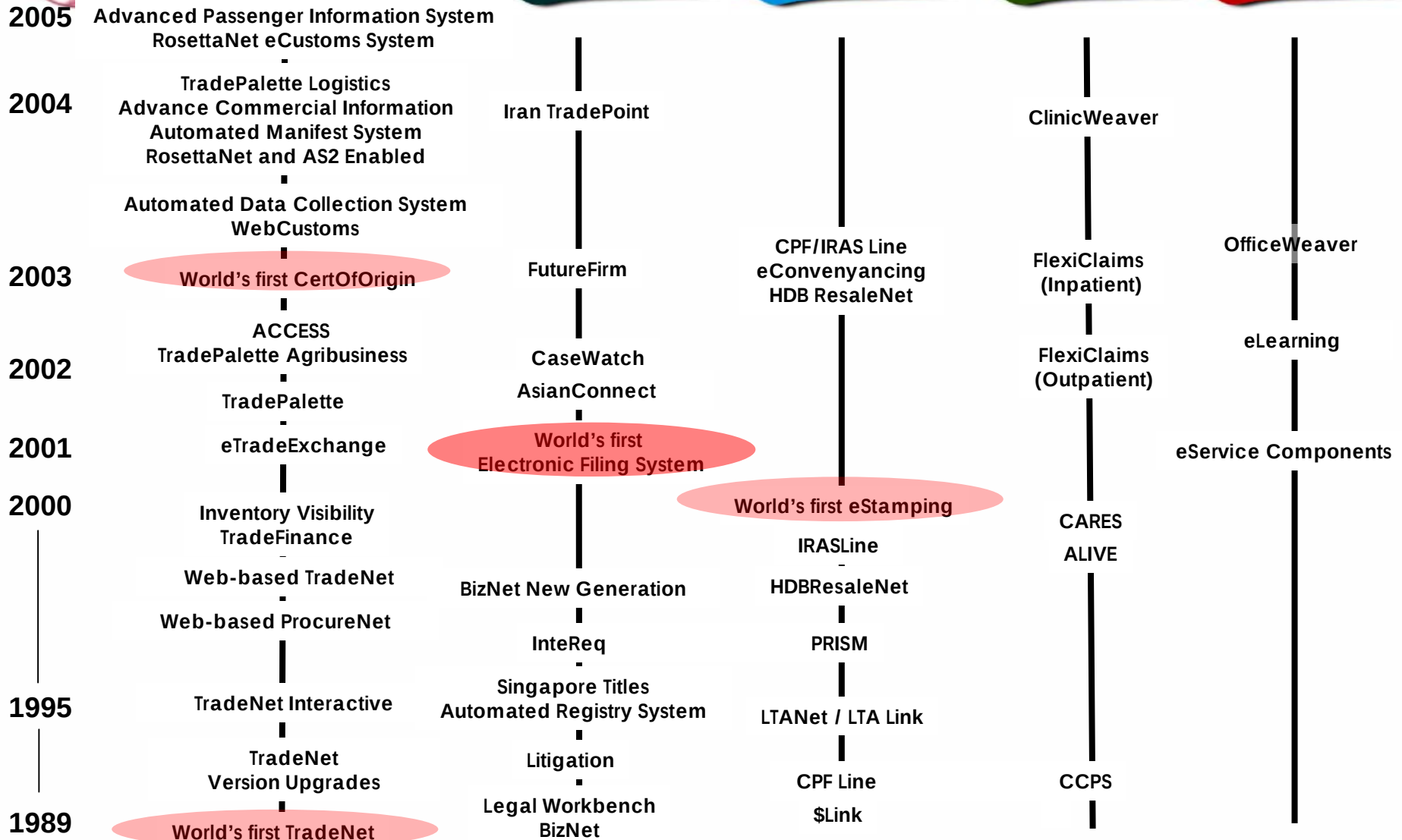
Trade & Logistics

Legal

Government

Healthcare

Other Areas





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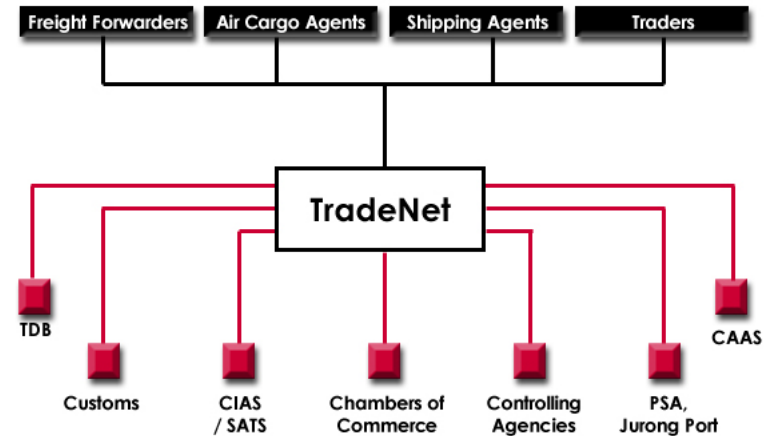
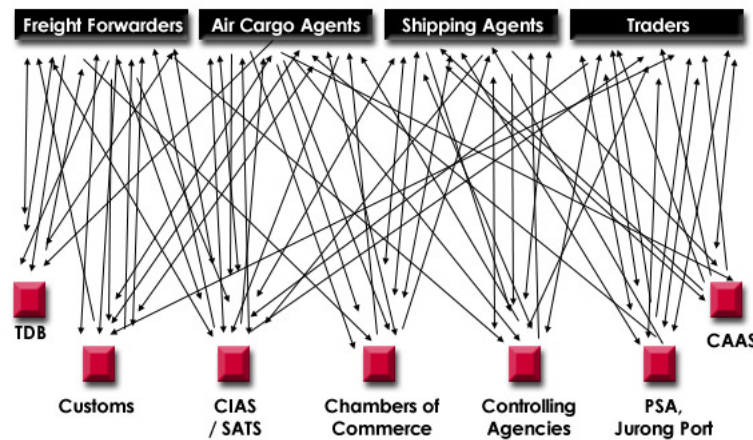
makes • better • sense

Global Projects



World's first nationwide trade clearance system

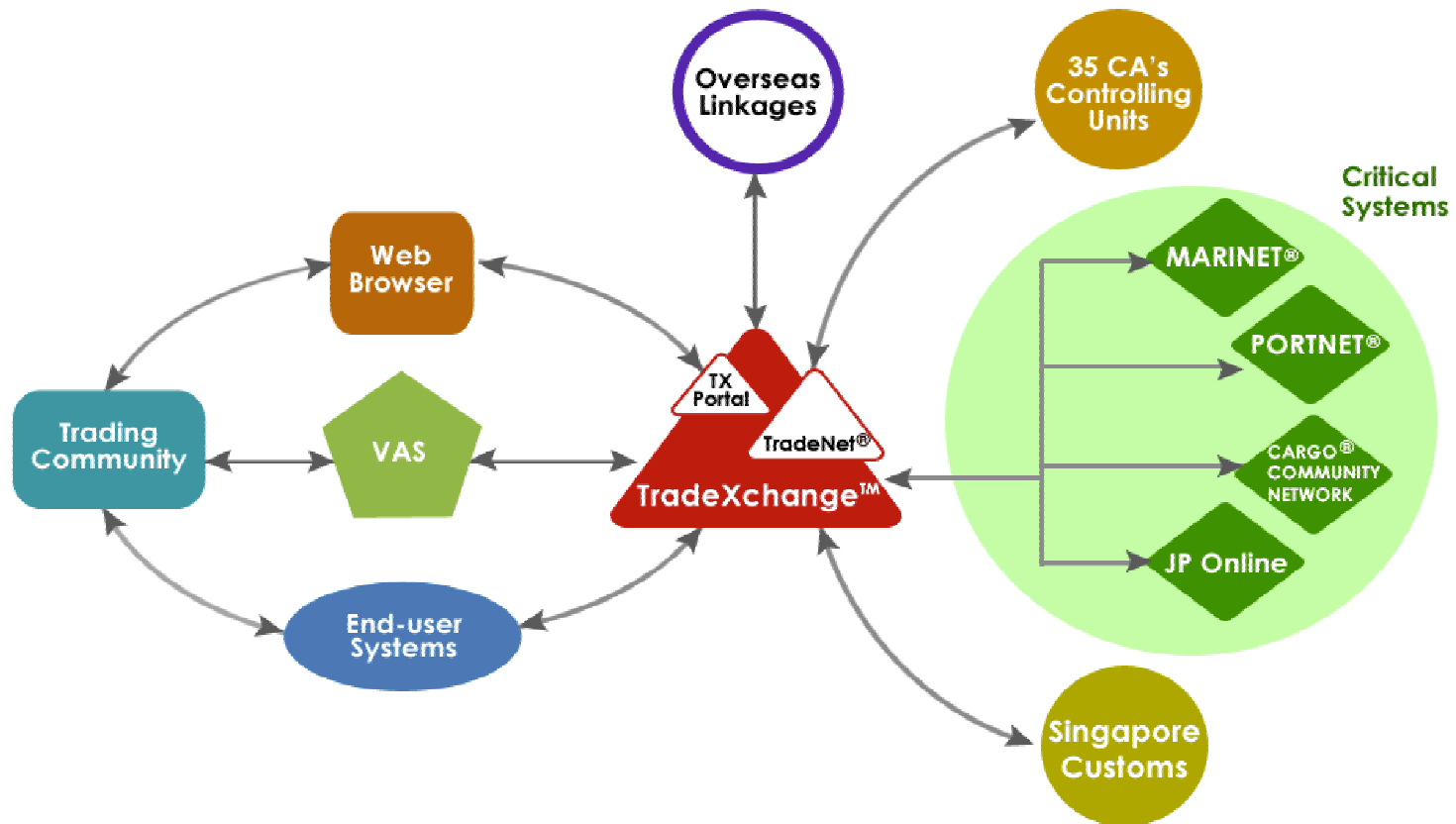
Integrates 35 controlling units' requirements



TradeXchange
CrimsonLogic has been APPOINTED
by Singapore Government to run TradeXchange and
TradeNet for the next 10 years

TradeXchange

A 10 yr Public-Private Partnership

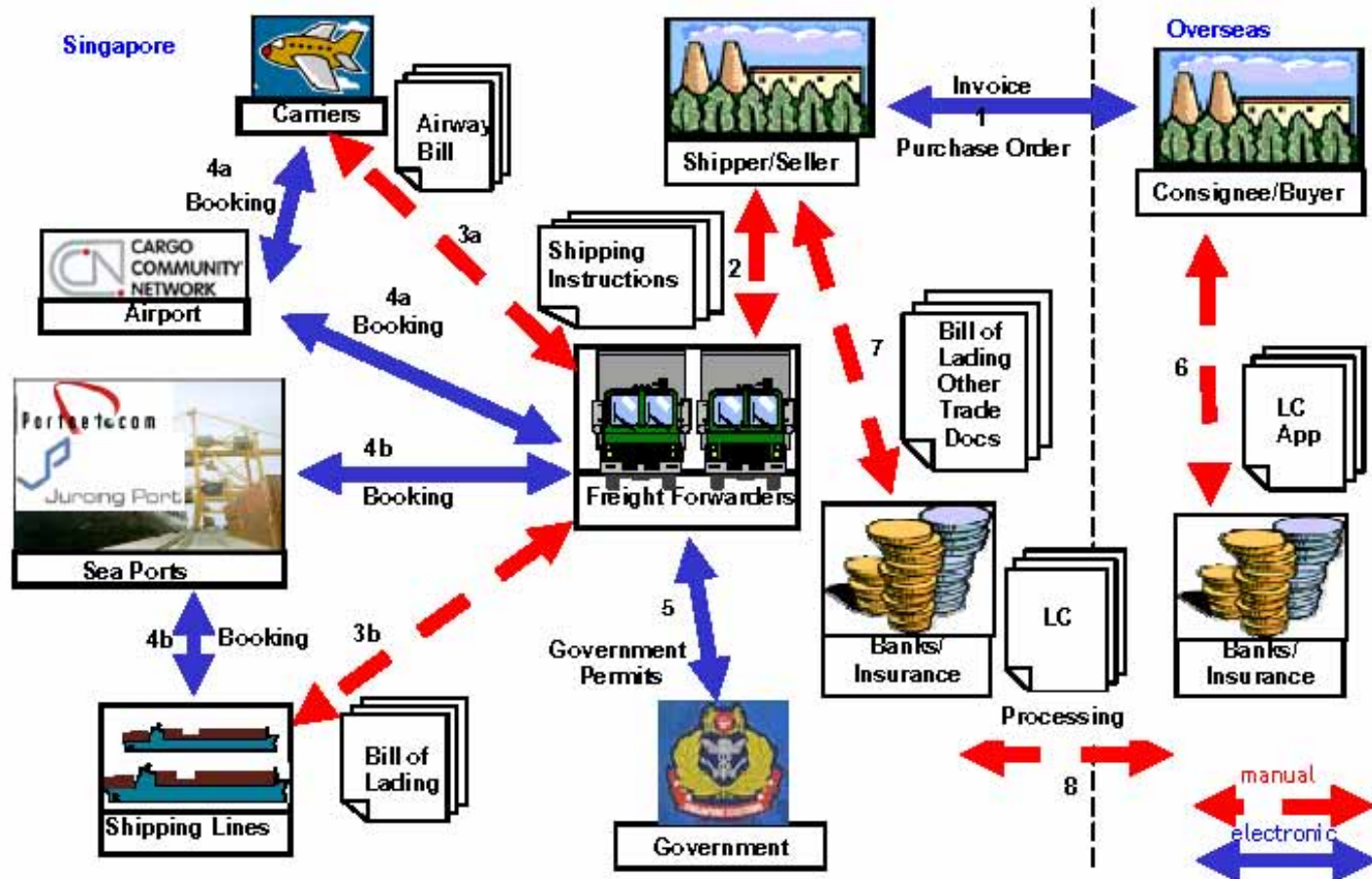




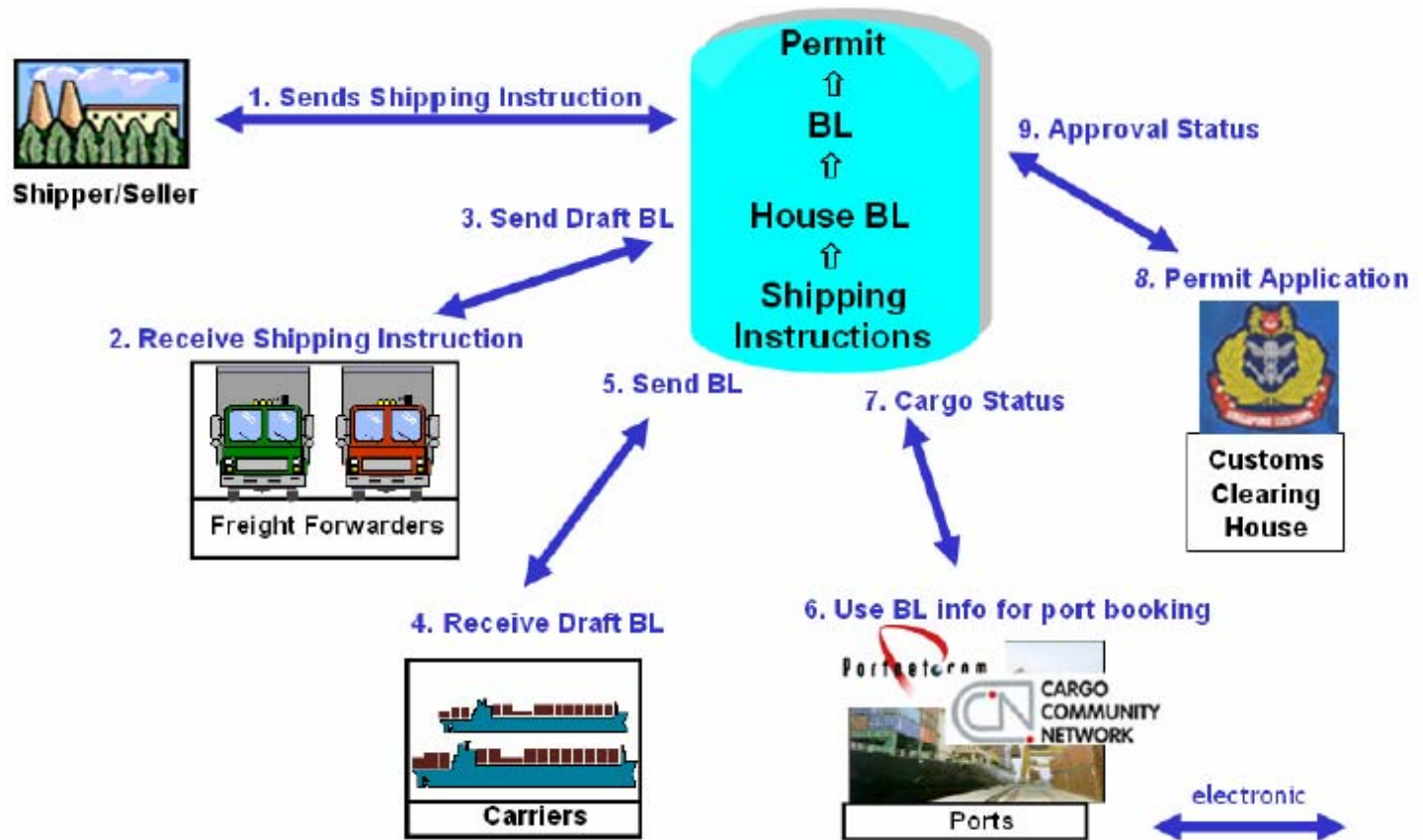
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makes • better • sense

TradeXchange Architecture



Example of TradeXchange for one consignment => TradeNet PLUS



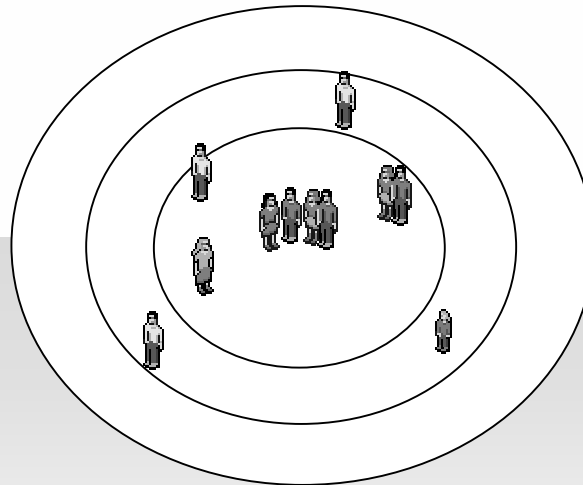
The TradeXchange™ Vision

**Facilitate Logistics
Hubbing for MNCs**

**To Increase SMEs'
Competitiveness &
Capabilities**

**To provide a low-cost
Community Platform
For Trade and Logistics**

**To promote a vibrant
VAS Provider industry**

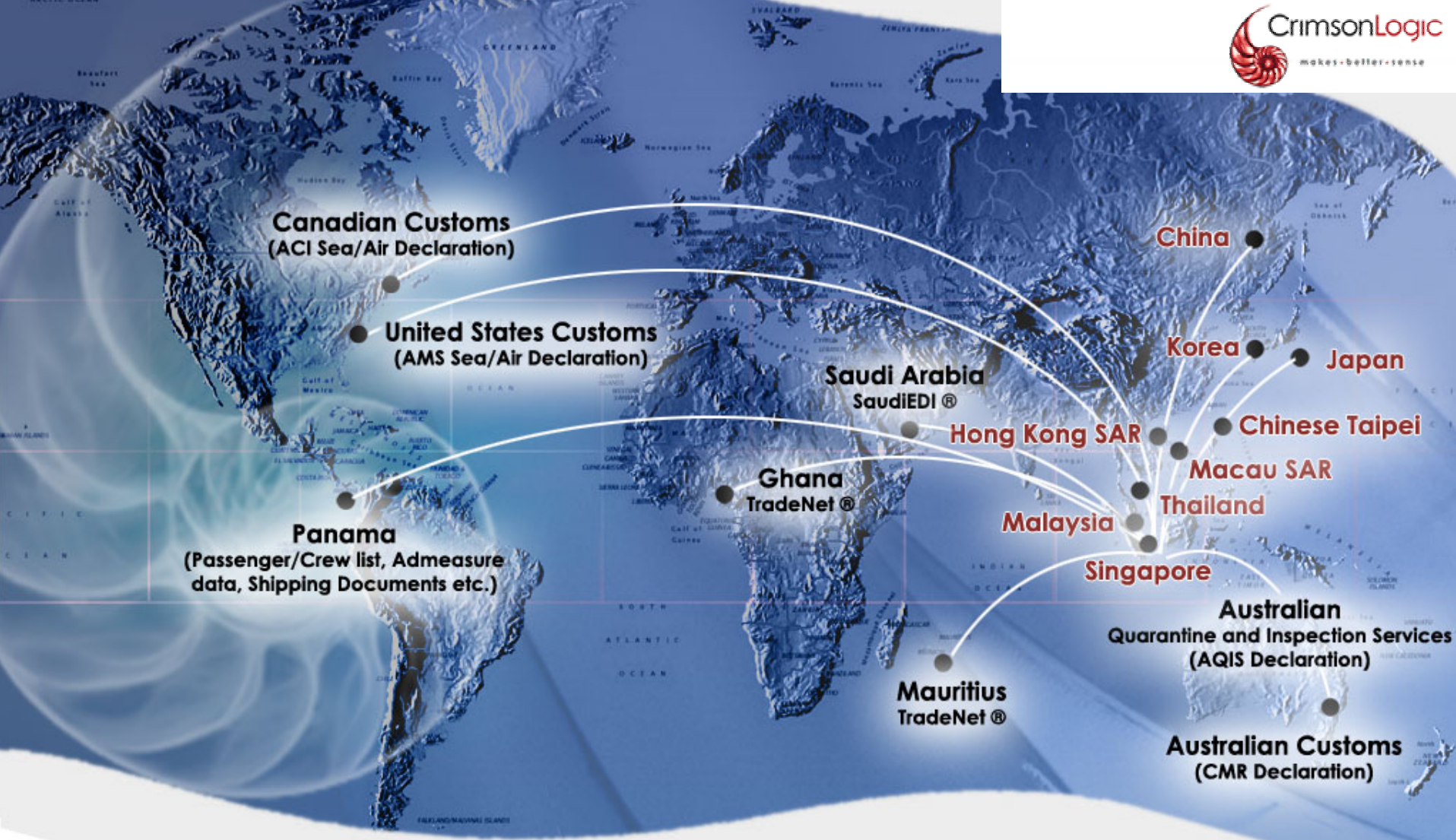


Expected Outcomes

**Global Integrated
Logistics Hub**

Spin-off Industries

Increased FDI



TradeXChange™

A Leading Global Integrated Logistics hub

Our Value Propositions

Metcalfe's Law

Value of a Network = (Number of Connected Parties)²



- **Cost Reduction**
 - Electronic Bookings and BLs
 - Reduced data re-entry
- **Central repository**
 - schedules and cargo space availability
- **Reduce Paper Handling and Courier Costs**
 - Controlled printing capability
 - remote issuance and printing of BLs

Metcalfe's Law

Value of a Network = (Number of Connected Parties)²

- Multiple accredited connectivity
 - Critical Systems
 - Overseas Trade Documentation Service Links
- High Service Levels
- VAS-Cultivation
 - Tools and supports
- Cross-Border Trade Documentation
- Empower any user or VAS to come onboard
TradeXchange by Dec 2005



Value of a Network= (Number of Connected Parties)²

Global Trade Linkages will be provided via TradeXchange™

- It will be a hub service provided from CrimsonLogic to VAS Providers
- VAS Providers can use this service to build applications which can value add to their customers

Value Proposition To Critical System Operators

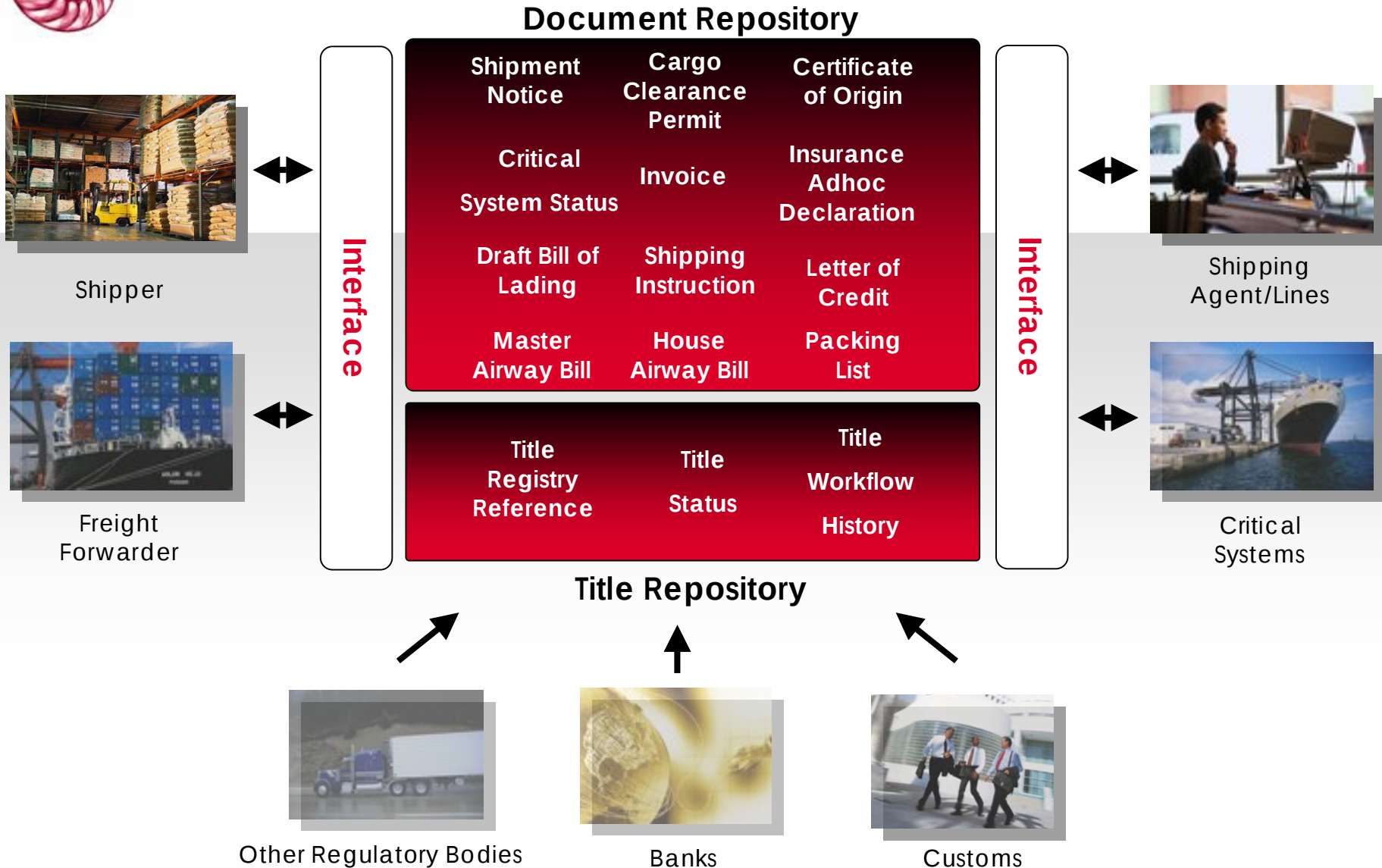
Metcalfe's Law

Value of a Network = (Number of Connected Parties)²

- Shared infrastructure
 - For users and other critical systems
- Neutral Platform

Types of Transaction

International Trade Documents



Export Transaction Listings

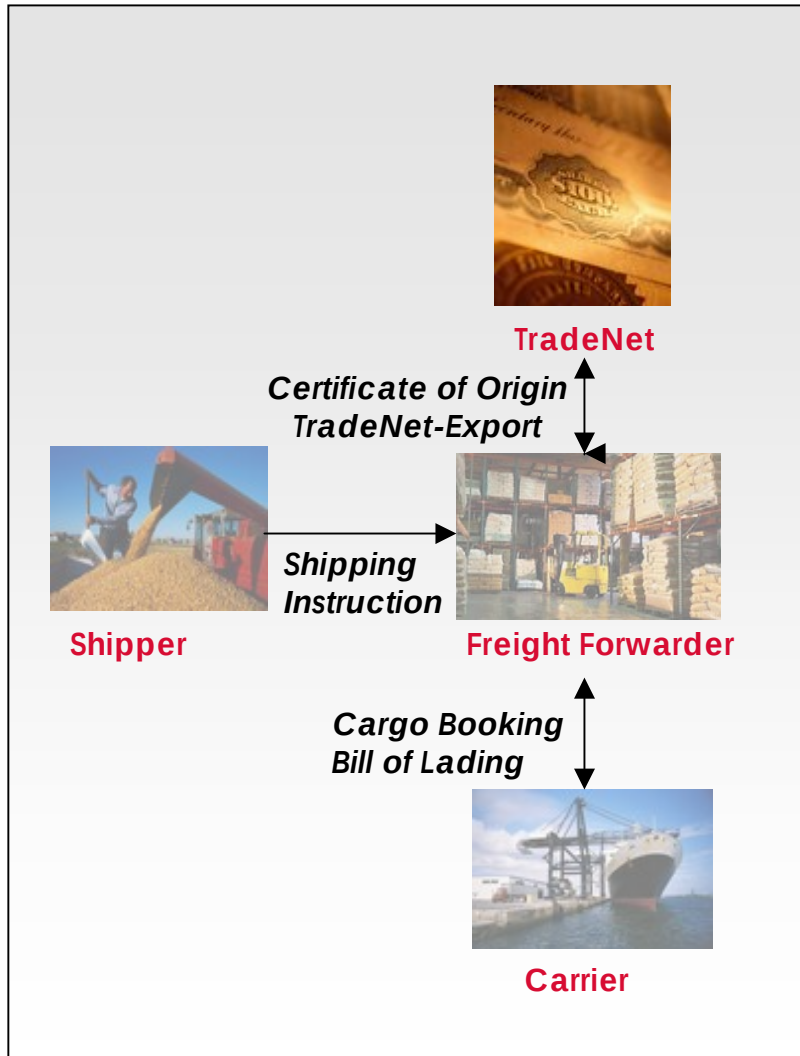
<u>Source</u>	<u>Source Activity</u>	<u>Destination</u>	<u>DestinationActivity</u>
Forwarder	<i>Book Cargo Space and Container</i>	Shipping Agent/Air Cargo Agent	Accept Booking through VAS-FMS
Agents	<i>Contact Carriers to Book Space</i>	Shipping Lines/Airlines/CCN/GTN	Confirm Booking
Forwarder	<i>Prepare Draft Bill of Lading/AWB</i>	Shipping Agent/Air Cargo Agent	Cut Ocean BL (Physical Document)
Forwarder	<i>Apply Export Permit/ Cert of Origin</i>	TradeNet	Issue Permit/DCO
Forwarder(S ea Only)	<i>Prepare Manifest</i>	Shipping Agent	Manifest Reconciliation (type in through PortNet CS linkage)
Cargo Agent	<i>Prepare Cargo Manifest Declaration</i>	CCN	Acknowledge receipt and route to GHA.
Forwarder	<i>Activate Transport Operator</i>	Transport Operator	Receive Transport Instruction
Transport Operator	<i>Arrange Delivery Times</i>	PortNet/JP Online	Define Delivery Time at Port
Forwarder	<i>Forward Shipping Documentation</i>	Buyer/Overseas Forwarder	Receive Shipping Documentation

Import Transaction Listings

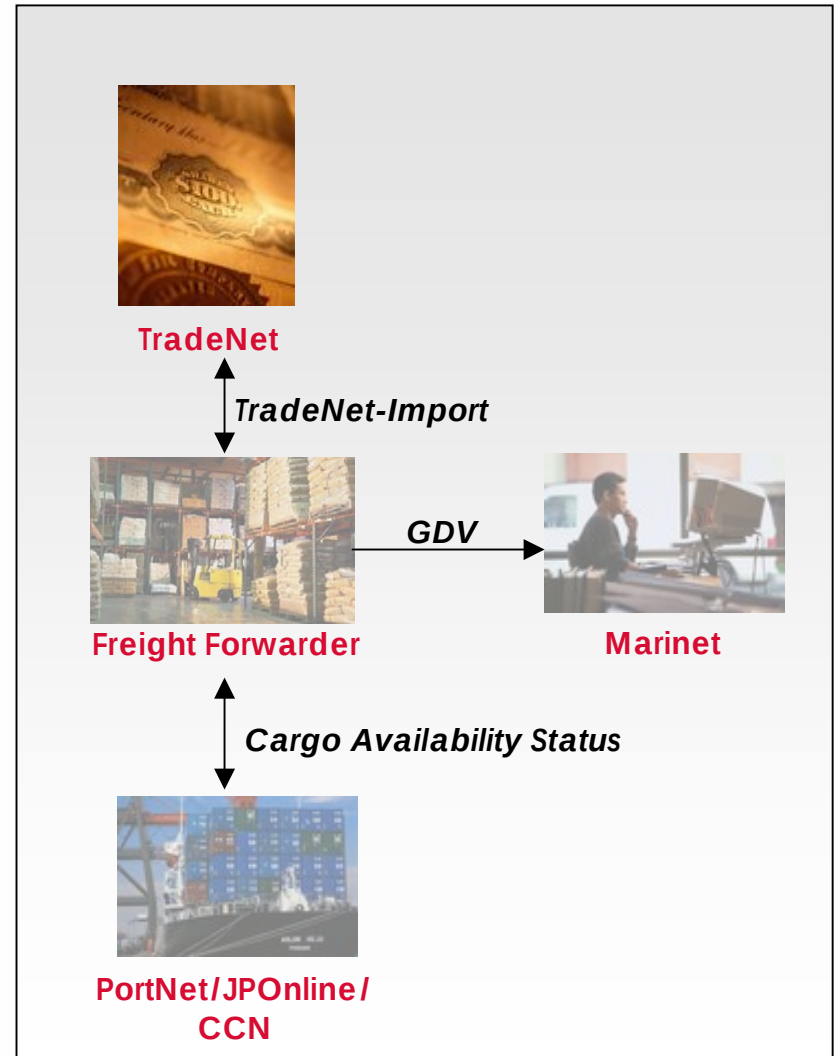
<u>Source</u>	<u>Source Activity</u>	<u>Destination</u>	<u>DestinationActivity</u>
Overseas Forwarder	<i>Forward Shipment Instruction</i>	Forwarder	Receives Shipment Instruction
Forwarder	<i>Enquire ETA of Inbound Shipment</i>	Portnet, JPOne	Confirm Vessel Schedule Arrival
AirCargo Agent	<i>Enquire Cargo Arrival Status</i>	GHA via CCN	Confirm Cargo Arrival Status
Forwarder	<i>Arrange with Transport Operator to Pick up Cargo/Container</i>	Transport Operator	Receive Transport Instruction
Shipping Agent	<i>Send Container/Cargo Release Details</i>	Forwarder	Receive Container Release Details
Forwarder	<i>Submit Import Trade Declaration</i>	TradeNet	Issue Permit Application
Air Cargo Agent	<i>Submit Import Cargo Manifest Declaration</i>	CCN	Acknowledge Receipt and route to GHA
Forwarder	<i>Prepare Dangerous Goods Declaration</i>	Shipping Agent	Receive Declaration
Shipping Agent	<i>File Dangerous Goods and General Declaration of Vessel (GDV)</i>	Marinet	Issue Approval
Shipping Agent	<i>Release Ocean BL</i>	Forwarder	Obtain Shipment Release
Forwarder	<i>Doc. Xchange (CCP etc) to Transport Operator</i>	Transport Operator	Arrange Pick Up Time of Container/ Cargo from Ports through VAS-TMS

A Sample Transaction

EXPORT FLOW



IMPORT FLOW



BS7799

M-HUB

CMM

Performance

WHY CRIMSONLOGIC ?

Technology & Infrastructure

Open standards, proven and low risk



Australian Government
Australian Customs Service



Canada Customs
and Revenue Agency

AQIS
AUSTRALIAN QUARANTINE
AND INSPECTION SERVICE



FedEx
Express

SONY



QBE

National/Panasonic Panasonic Logistics Asia (PLGA)



SCHENKER
Stinnes Logistics



mda Media Development Authority

iDA
SINGAPORE



Ministry of Health
Singapore



ie
Singapore



MINISTRY OF
MANPOWER

WHY CRIMSONLOGIC ?

Domain Expertise

17 years of extensive experience

The Platform – The Five Rings of Strength

Open Standards

Security

Scalability



Performance

Robustness

- Message Formats
- Web Standards
- Middleware Standards
- Quality Standards





- **Clean Security Record**
- **BS7799 Certification**
- **PKI Forum Chair**
- **Application Security Assessment**
- **TrustSG Implementer and Host**
- **Post 9/11 Security Solution in T&L Domain**
 - **Panama Canal**
 - **Thailand Airport**



The Platform – Scalability

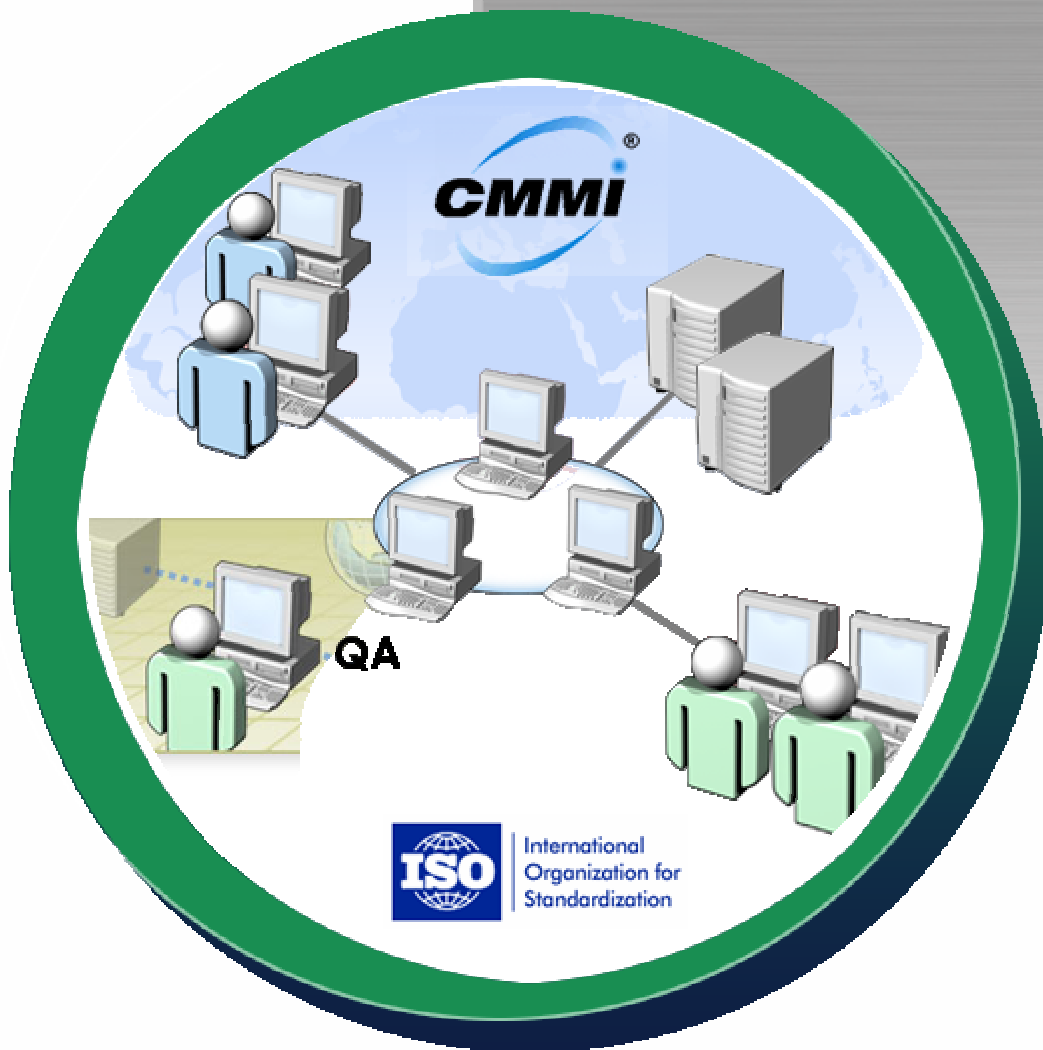


- Proven in Worldwide Deployment
- Cluster Mode – Horizontal Scaling
- Scalable in terms of Features
 - Protocols
 - Message Formats



- **400,000 Transactions Daily**
- **30,000 Users**
- **3 – 5 Seconds Response Time**





- **Certified Quality Process**
 - **CMM 3/5**
 - **ISO9000:2001**
- **Extensive Testing**
- **Independent QA Team**
- **Clusterable with Failover**
- **24 x 7 Across Timezones**



Q & A

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