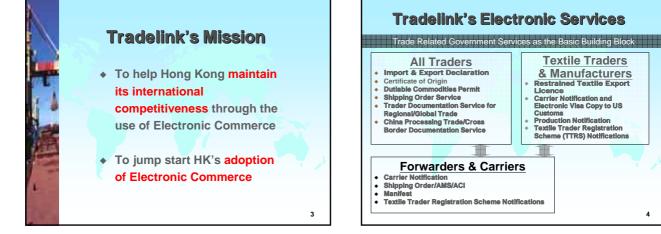
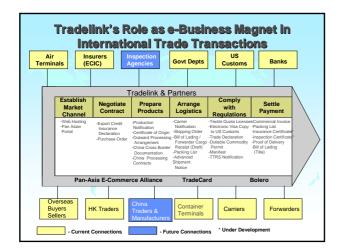


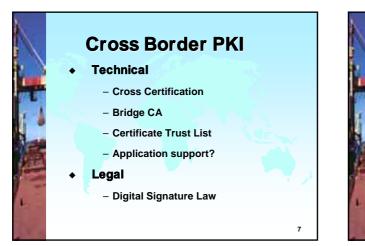
Agenda

- Highlights of Tradelink
- Cross Border PKI
- Pan-Asian E-Commerce Alliance (PAA)
- Secure Cross Border Transactions
- PAA Mutual PKI Recognition
- Current Status
- Future Direction







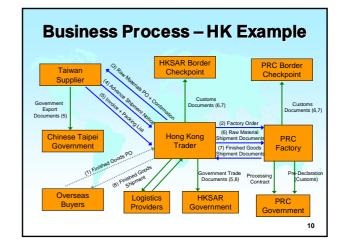


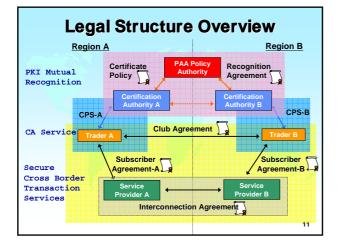
	Pan-Asian e-Comme	rce Alliance (1)
	Established in July 2000, aims to secure cross border electronic services for efficient global trade and logistics	
	Members Num	ber of Customers
۰,	CIECC (China)	10,000
	KTNet (Korea)	25,000
-	CrimsonLogic (Singapore)	25,000
	Trade-Van (Taiwan)	15,000
	Tradelink (Hong Kong)	53,000
-	DagangNet (Malaysia)	2,000
	TEDMEV (Macau)	2,000
	TEDI Club (Japan)	
		132,000 ⁸



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- Financial Services

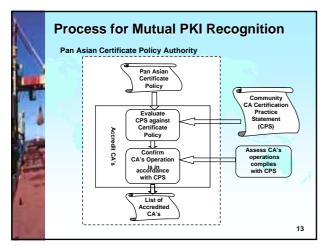




PAA Mutual PKI Recognition -Approach Pragmatic approach to drive cross border trade Establish comparative level of trustworthiness Establish Pan Asian Certificate Policy Authority to set criteria for PAA CA/CPS recognition Authentication of identity of individuals/ organizations so as to establishing non-repudiation for cross border trade

Adherence to "good practice" while being flexible to
 allow for local requirements/variations

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PAA Secure Cross Border Transactions - Current Status

- Secure Cross Border Transactions
 - Hong Kong Taiwan (Buyer & Suppliers)
 - Taiwan Korea / Japan (Buyer & Suppliers)
 - Taiwan Singapore/ Malaysia (Freight forwarders)
 - Taiwan China (HQ & Manufacturers)
 - Korea Japan (Buyer & Suppliers, Title documents)

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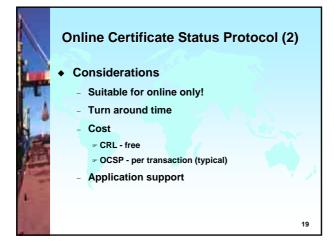


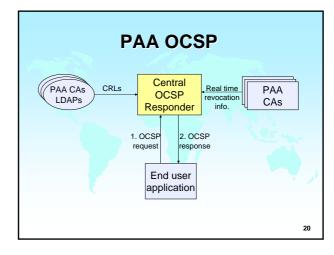
- ♦ Certificate Revocation List (CRL)
- + Issued periodically (e.g. once every 8 hours)
- Size grow in time
- Force CRL may affect CRL publication
 schedule
- End user's responsibility to go through CRL

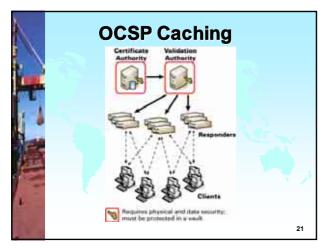
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Multiple CAs => Multiple CRLs

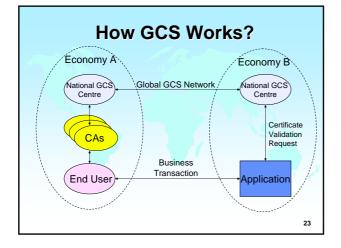
OcsP responder (aka Validation Authority) collects Certificate Status from CA OcsP responder (aka Validation Authority) collects Certificate Status from CA End User queries status of a certificate OcSP returns status of the certificate No CRL downloads No need to search through CRL No CRL delay (CA dependent) Can Serve multiple CAs (local & overseas) hence single point of contact Remove End user's burden













Why GCS? (2)

- Only need to deal with one local GCS
- Protected by local government regulation
- Single certificate to access broader global services
- Globally recongnised certificate

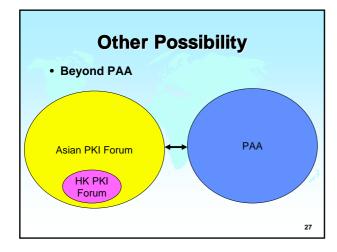


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GCS Model

- National GCS centre as a trusted gateway provides a national single point of certification for all the subscribing CA's and the enterprises connected using public networks
- **GCS Global Network**
 - Full peer-to-peer network with local point of presence in each country (i.e. National CGS centre)
 - Each centre operates under the full jurisdiction & laws that are applicable for their host country

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Banker's Perspectives on Secure Electronic Transactions and National Infrastructure

> By Vilawan Vanadurongvan Bank of Asia, PCL. 22 July 2004

Security Concerns & E-Business

- Security concerns do not block the progress as much as initially fear.
- E-Business does not have to be 100% risk-free and fraud-free to be profitable.
- e-Business can still grow to a certain extent by ensuring that the "Rewards" out weight the "Risks".

Example: Verified by VISA

- Verified by VISA (VbV) can successfully mitigate credit card fraud for e-Commerce Merchants and card holders.
- Some E-Business decide to delay using VbV when
 - Loss in Sale with VbV > Risk in Fraud without VbV
- VbV is expected to be effective and widely used when VISA will make Verified by VISA mandatory worldwide in 2005.

Payment System & Security

Payment System = Instruments + Procedures & Rules

Security Decisions:

- How much should be invested in hardware & software for security?
- How much security should appear in procedure / rules?

10 BIS Core Principles for Systematically Important Payment Systems (SIPS)

- Address ways to manage legal risks, credit risks, and liquidity risks in SIPS (payment system which can cause domino effect that led to financial crisis if something goes wrong).
- Address that SIPS need rules and procedures to manage the risks & foster understanding about system's impact on each financial risks.
- Address that SIPS must be practical and efficient and their governance arrangement should be effective, accountable, and transparent.

Levels of security in e-Business

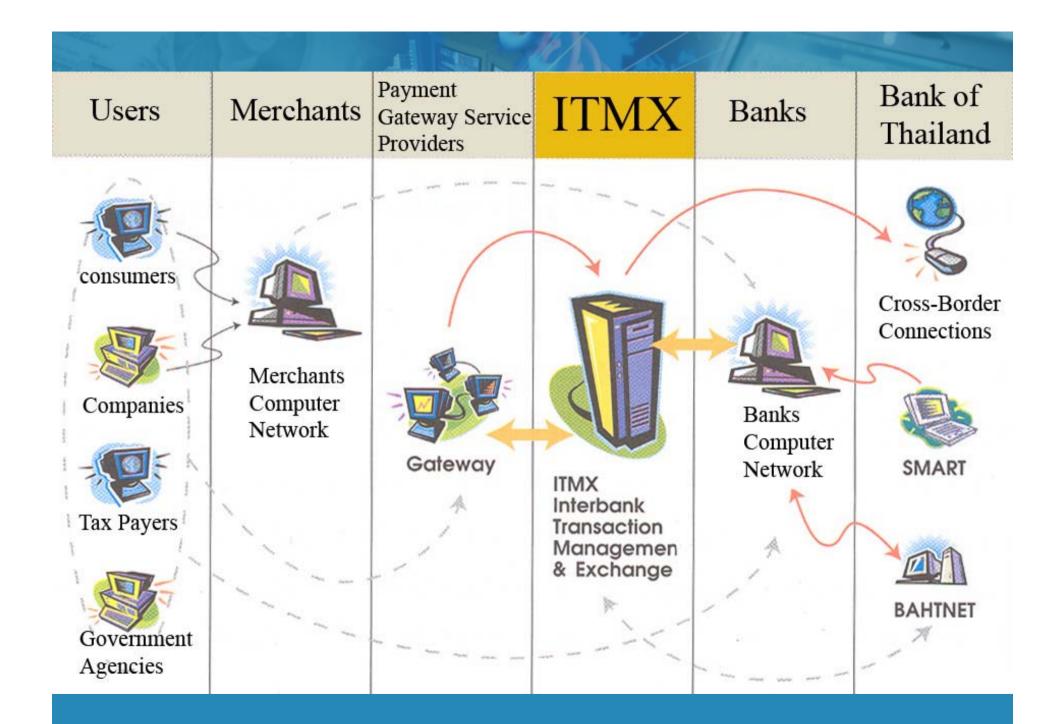
- Local Level:
 - With e-Business customers of one bank.
- National Level:
 - With e-Business customers of any bank in a country.
- Regional level:
 - With e-Business customers of any bank in any country within the region.

Local Level:

- Banks in THAILAND began to offer e-Commerce Service years before Cabinet approved E-Commerce Law.
- **B2C**
 - Transaction amount is not high.
 - Level of Risks are acceptable.
- **B2B**
- Businesses signed contracts with bank
- Businesses must have accounts within the same banks to do fund transfer.
- Implement security that meets International Standard BUT PKI are not widely used

National Level:

- E-Business Growth:
 - Need to allow InterBank Transfer in large sum across banks within Thailand to do e-Commerce transaction.
 Need PKI.
- Payment 2004: A Road Map for Thai Payment System.
 - Interbank Transaction Management and Exchanges (ITMX)



Regional Level (APEC)

Several issues to address

- e-Commerce legislation for APEC region to help settle disputes in-court or out-of-court.
- PKI IS A MUST but its acceptance depend on ACCOUNTABILITY of CA.
 - How much liability CA are willing to accept for their mistakes when transaction amount is in million U.S. Dollars?
 - How much fee e-Business is willing to pay to make CA accountable?