

**PERSIDANGAN KEBANGSAAN MENGENAI MASYARAKAT BERMAKLUMAT
NATIONAL SUMMIT ON INFORMATION SOCIETY (NASIS)
7 – 8 SEPTEMBER 2005
INTERNATIONAL CONVENTION CENTER, BRUNEI DARUSSALAM**

Date of issue: 2nd September 2005

Doc. S2-3

Session 2: Enabling Environment and Policies

How important is network security in e-transactions?

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(Thursday, 8th September 2005, 8.15am – 10.00am)

How important is network security in e-transactions?

NASIS Conference
7th – 8th September 2005
Brunei Darussalam



What is E-transactions?

- The sale of products and services over the Internet.
- Internet Banking.
- Online Bill payment.

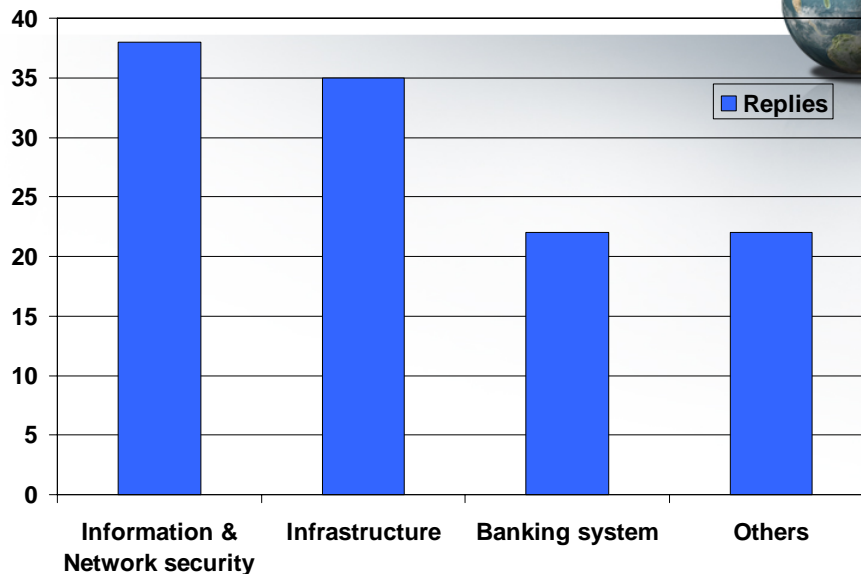
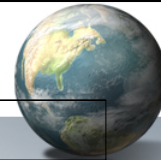


E-transaction and Network



- The mechanism of e-transaction is built on a complex network infrastructure connecting to another network infrastructure through the Internet.
- If the network infrastructure security itself is lacking then data via electronic transaction may be in jeopardy.
- With e-transaction, there must be a proper infrastructure to manage the identity of users.

Problems to E-transaction



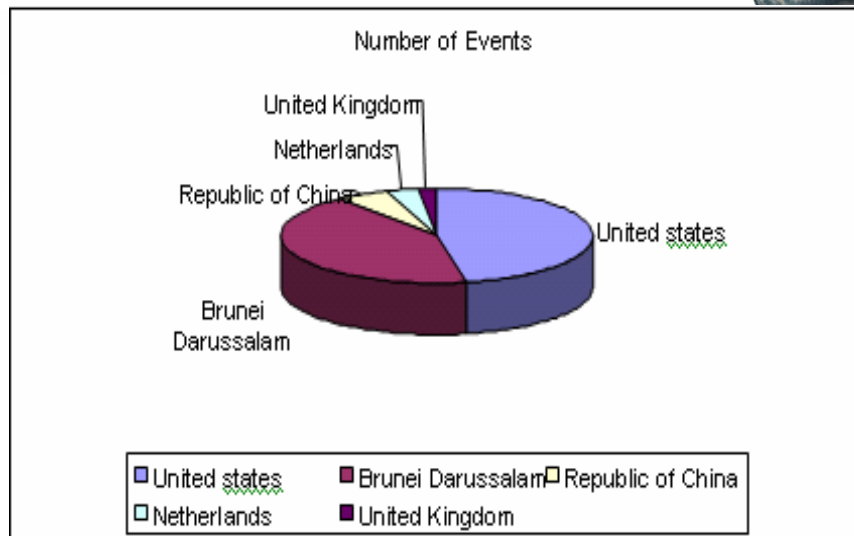
Results of recent International Telecommunication Union Survey on Key problems for e-transactions

How safe is it?



- Without the proper security implementation, our information is not safe.
- There's are numerous threats aimed at destroying critical infrastructure, stealing important data, identity and intercepting communications and destroying trust and confidence in the use of Internet for critical transactions.

How secure are we?



ITPSS Internet Router and Netscreen Logs
(August 2005)

How secure are we?



Country	Number of Events	% from total event
United states	7,399	42.10%
Brunei Darussalam	6,639	37.80%
Republic of China	868	4.90%
Netherlands	508	2.90%
United Kingdom	321	1.80%

ITPSS Internet Router and Netscreen Logs
(August 2005)

Challenges to E-transactions



- Authentication of Users (Who are we dealing with?)
- Non-repudiation for transactions
- Confidentiality (Privacy)
- Interoperability
- Liability

Security solutions

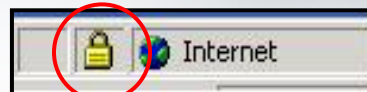


- PKI Infrastructure
 - The use of cryptographic technologies such as Digital signature and Digital certificates.
- Monitoring services
 - 24/7 monitoring should be put in place that will alert the relevant people to take the necessary action.
- Security audits
 - An effective way of ensuring proper implementation of security with accordance to an international security standard.

What Users should know about online transactions.



- Security Awareness is important in today's digital world.
- Use a secure browser.
- Use a credit card.
- Never store your credit card number on the site, if possible.
- Never store your credit card and password info in your computer.
- Always change your username and password regularly.
- Shop at trusted companies.





THANK YOU.
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