

#### VerifiedID@SG Mitigating Identity Theft in .sg Registrations

26 Mar 2014 Ryan Tan

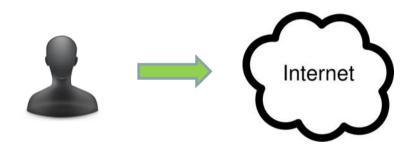
# Sgnic

## Scope

- The Problem
- Solutions?
- The Plan
- Observations



## **The Problem**



Registrant can claim to be anyone. e.g. ABC Ltd is registrant of ABCbank.com.sg

## Not difficult to fake identity or perform identity theft!

• Precursor to other domain name abuses

#### No consequence even if caught



## **The Problem**

#### Mitigations

- Investigate 'suspicious' cases
- Act on complaints

### How serious?

- Those we come to know: couple of cases.
- Those we do not know: No one knows!

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### **The Problem**



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## **Solutions**

### The "Best" way:

## Apply <u>in-person</u> with a stack of <u>documentary</u> proofs

- Company registration certificates
- Individual's identity card, passport etc.
- Authorisation letter
- ....



## **Solutions**

Any other ways?

#### Need a solution that:

- Provides positive identification of the person performing the registration
- Preserve online & real-time nature of registration
- Allows simple and fast identity verification process

## **Solutions**



- Singapore has a "SingPass" system. (Singapore Personal Access)
- Pretty much anyone who lives or works in Singapore is issued a "SingPass" by the Singapore government (i.e. positively identified by the government).
  - Username: <National ID or Foreigner ID>
  - Password: <\*\*\*\*>



## **Solutions**

#### "SingPass" is in use for many existing eservices:

- Buy house
- Buy car
- File income tax
- Apply credit card
- Check retirement account
- and many others...



- All .sg domain names already require a local admin contact
- We can further require admin contact to have a valid SingPass ID.
- The admin contact can then authenticate himself via SingPass and vouch for the identity of the registrant!
- For identify theft/fake identity cases, admin contact may be implicated



- Admin contact has 21 days to perform verification otherwise domain name will be suspended (i.e. cease to resolve)
- Pretty naggy reminder emails sent daily to:
  - > admin contact from day 1 to day 21
  - registrar from day 11 to day 21
  - registrant from day 14 to day 21



SGNIC Online Whois Results

Result of query on TESTCOMPANY123.COM.SG :

After registration but before verification

SGNIC WHOIS Server

The following data is provided for information purposes only.

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Registrar: REGISTRAR 123	PTE LTD					
Domain Name:	TESTCOMPANY123.COM.SG					
Creation Date:	04-May-2013 17:25:48					
Modified Date:	04-May-2013 17:25:48					
Expiration Date:	04-May-2014 17:25:48					
Domain Status:	OK					
Domain Status:	SERVER RENEW PROHIBITED					
Domain Status:	VerifiedID@SG-Mandatory					
Domain Status:	VerifiedID@SG-Pending (ID NOT VERIFIED. PENDING ADMIN CONTACT VERIFICATION)					

Registrant:

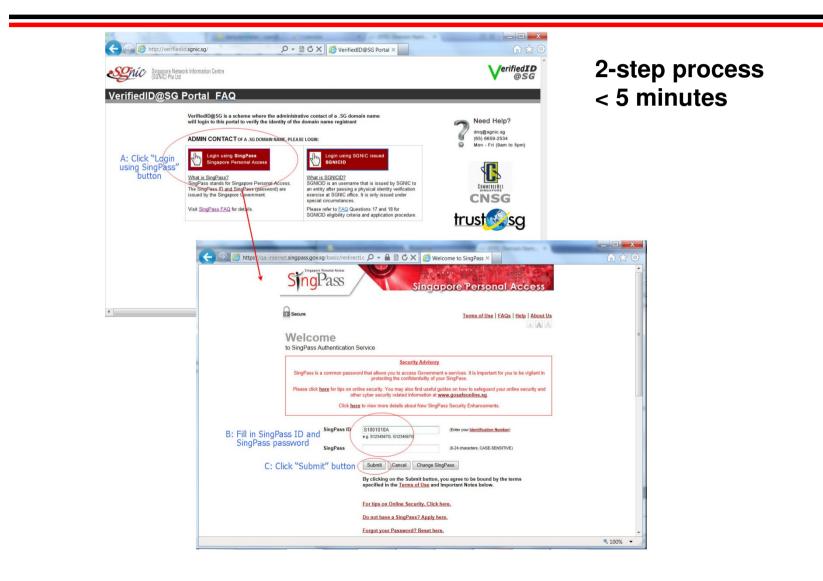
Name: TEST COMPANY PTE LTD (SGNIC-ORG1013843)

Administrative Contact:

Name: JOHN TAN (SGNIC-PER1717294)

## Senic

## The Plan





				VerifiedID@SG Portal ×	₩ ↔		
0		ormation Centre			You are login as: S1001010A [Logout]		
VerifiedID@SG	Po	rtal FAQ					
Domains Pending Verification Domains Verified Authorised Email Addresses Logout	Plea	on the "Verify Identity" button.		Registrant and yourself, put a tick against the domain na strar for the domain name.	me, scroll down and		
		Domain Name	Registrant	Admin Contact			
		The following domain name(s) have indicated that you are the new Administrative Contact of a new registration or the new Administrative Contact of an existing registration.					
		TE STCOMPANY123.COM.SG Registra: REGISTRAR 123 PTE LTD Created: 04-May-2013 17:25:48 Modified: 04-May-2013 17:25:48 (VerifiedID@SG)	TEST COMPANY PTE LTD [D]:501234567A [ADDRESS]:1 TEST ROAD #01-00 654321 Singapore [PHONE]:+65.22222222 [FAX]: [EMAIL]:test@testcompany.com	JOHN TAN [ID]:S1001010A [ADDRESS]:1 TEST ROAD #01-00 123456 Singapore [PHONE]:+65.222222222 [FAX]: [EMAIL]:test-verifiedid@sgnic.sg			
		TESTCOMPANY123.SG Registrar: REGISTRAR 123 PTE LTD Created: 04-May-2013 17:25:49 Modified: 04-May-2013 17:25:49 (VerifiedID@SG)	TEST COMPANY PTE LTD [ID]:501234567A [ADDRESS]:1 TEST ROAD #01-00 654321 Singapore [PHONE]:+65.22222222 [FAX]: [EMAIL]:test@testcompany.com	JOHN TAN [D]:\$1001010A [ADDRESS]:1 TEST ROAD #01-00 123456 Singapore [PHONE]:+65.22222222 [FAX]: [EMAIL]:test-verifiedid@sgnic.sg			

By clicking on the "Verify Identify" button below, I, the Administrative Contact for this domain name registration, am declaring that I have checked and verified the identity of the registrant as described above. In the event that a domain name is found to be abused for undesirable activities (e.g. fraud), and the identity of the registrant is found to be inaccurate, I may be asked to assist SGNIC or any relevant authorities in their investigations. Where SGNIC believes that you had made a false declaration or had provided false, misleading or inaccurate information in connection with this verification process, SGNIC may bar you from acting as an administrative contact for any registration process.





#### "Success" emails sent to admin contact and registrant for information

#### SGNIC Online Whois Results

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Registrar:	REGISTRAR	123	PTE LTD
Domain Name:			TESTCOMPANY123.COM.SG
Creation	n Date:		04-May-2013 17:25:48
Modified Date:			05-May-2013 08:45:11
Expiration Date:			04-May-2014 17:25:48
Domain :	Status:		OK
Domain :	Status:		VerifiedID@SG-Mandatory
Domain :	Status:		VerifiedID@SG-OK

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#### After verification

Registrant:

Name: TEST COMPANY PTE LTD (SGNIC-ORG1013843)

Administrative Contact:

Name: JOHN TAN (SGNIC-PER1717294)



## After years of preparation, we launch a 6-months pilot trial on 2 May 2013.





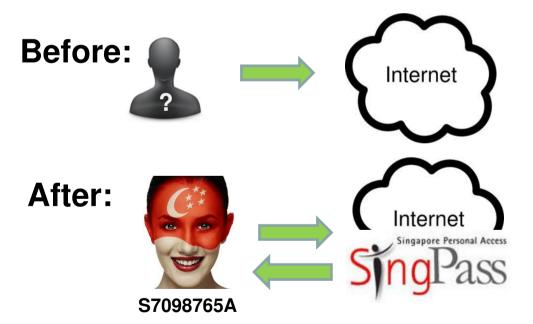
## **Observations**

- Very few negative feedback
- No drop in registration volume
- 75% of admin contact verify within 24 hrs;
  99% within 21 days
- Quality of registration data improved!
- No suspected cases of identify theft and fake identity cases (May to Oct 2013)
- Increased in email and phone queries
- Converted to permanent scheme since Nov 2013.

## Summary







Claims that ABC Ltd is registrant of ABCbank.com.sg

Real person to verify <u>online</u> that ABC Pte Ltd is the registrant



### **Thank You**