Online banking and identity theft: who carries the risk?

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Today, Identity theft is a reality. It entails devastating effects for organizations, such as banks, as well as their clients, resulting in a continuous nightmare for all parties concerned. Conducting banking transactions over the Internet frequently highlights problems experienced by clients regarding unauthorized transactions. With regard to the criminal and civil liability of the bank and that of the clients; the role of regulatory controls such as contractual obligations, legal issues and policies needs to be well understood. Organizations and their clients should clearly understand the binding force of these regulatory controls. Developing countries most often experience a lack of regulatory controls such as legal instruments. Societies at large in developing countries have an inadequate level of literacy when using online banking systems. It is clear that unless the organization takes all the necessary and reasonable steps to educate its clients in developing countries, it stands a risk of paying hefty damages for the loss of money online. The focus in this paper is on the impact of identity theft in developing countries. However, the contribution made by the paper is equally important for developed countries.

Introduction

Many of us lately received emails from various sources warning us against the use of banking services over the Internet. Hacking attacks against software which is used for conducting Internet banking transactions, such as Microsoft Internet Explorer, enables perpetrators to intercept usernames and passwords transmitted by means of the security protocol namely the Secure Sockets Layer. Identity theft, stealing identities for fraudulent use, is a reality that all of us should take serious cognizance of. Clients of banks are forced to take the necessary precautions when engaging in banking transactions over the Internet. Internet websites such as http://isc.sans.org/pre sentations/banking_malware.pdf give details of banking institutions that might have been compromised. Amongst others, the following banks are mentioned: citibank.com, anz.com, hsbc.com.au, barclays.co.uk, citibank.com.au, sparkasse-banking.de, scotiaonline.scotiabank.com.

Identity theft is part of a globalised economy. One of the most important enabling infrastructures of the globalised economy is without a doubt the Internet. The Internet revolutionised many industries in all corners of the world, with developing countries being no exception.

Economic sectors, such as banking, have made a leap forward by eliminating the need of physically going to the specific organisation and filling in paper forms in order to perform a transaction. Today, many of these operations can be done online. The current, increasingly "faceless" interface of doing business has done away with prerequisites like producing an I.D. document or inserting a card. All the physical forms of identification have been replaced with an electronic manner such as a username and password.

Apart from the obvious benefits of the system there are however collateral risks associated with the absence of personal contact. The most dangerous of these is the reduced risk and effort for the "would-be-thieves" for "passing off" as legitimate clients. A couple of years ago, such a delinquent would have to forge not only the signature but also the whole

Conclusion

The establishment of a strong and credible CSIRT is not a quick fix for failures or gaps in corporate IT security; an effective CSIRT requires a large amount of trust and credibility. Given this, however, the CSIRT can easily be leveraged to fill a number of security roles, all of which derive logically from its central position as a coordinative organ for computer security incident response.

In military terms, the CSIRT thus acts as a “force multiplier”, which, at low additional cost, is able to magnify the impact and effectiveness of existing security investment in safeguarding corporate IT from security threats and exploits. The enterprise thus gains incalculable value through the resulting mitigation of its exposure to IT security risk.

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were neither. This paper focuses on the extent he/she had contributed to an illegitimate electronic banking transaction between May and July 2003.3

Contrary to popular belief, the loss of money could not have been attributed to "hacking" since the spyware software in question, also known as a Trojan, was attached to an email, which unsuspecting clients were enticed to open on their computers. Thereafter, the Trojan recorded all key strokes and secretly emailed this information to the perpetrator. The perpetrator then logged into his victim’s online Internet banking accounts and transferred money to selected organizations as payment for goods purchased, or another bank account for the purposes of withdrawal.4

The South African legal system has two main components: common law and legislation. The perpetrator is doubtlessly liable under both so-called regimes: criminally for theft of money and fraud in terms of common law and offences as prescribed in acts applicable to this scenario. Similar to other developing countries South Africa has only recently introduced acts applicable to fraud for Internet banking. The two acts introduced in South Africa are the ECT Act9 and the Interception and Monitoring Protection Act.10 Further-more, there is

Facts

ABSA bank has provided an Internet banking service to its clients for several years. In a recent “identity theft” incident, 10 ABSA Internet banking clients cumulatively lost R530,000 due to unauthorized online Internet transactions performed on their accounts, all of which were carried out between May and July 2003.3

Resonability and liability

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1 Minister of Safety and Security v Van Duivenboden 2002 (6) SA 431 (SCA) para 12 at 441E-442A.
2 There was definitely no intention to provide the information to the hackers (Johs L. (2003) “Police arrest suspected ABSA hacker and recover cash” 27 July 2003 Sunday Tribune 8). As for possibility of negligence see para 3.2.2.2 below for discussion.
5 A company that certifies websites, www.trustonline.co.za [although it does not seem to function any longer].
7 25 of 2002.
9 In terms of section 86.
also the possibility of civil liability on the client’s side for their actions on the basis of delict as will be seen shortly.

The question that arises is whether, and to what extent, the other two parties affected, namely the business (a bank in this case study) and client have to share the responsibility for the incident and assume relevant liability (whether civil or criminal) that has arisen from the incident, whether in monetary or other terms (imprisonment should the state pursue a criminal case).

Criminal liability: fraud

Fraud is defined as "the unlawful and intentional making of a misrepresentation which causes actual prejudice or which is potentially prejudicial to another." 11

Applying the above definition to the facts at hand, it is clear that the bank may have misled the public in respect to the security of Internet banking. Perhaps creating a false sense of security pertaining to online banking transactions over the Internet. Lack of awareness campaigns warning clients of potential risks may further support the proposition that there was misrepresentation. The customer, at least, needs to be educated as to the nature of and risks associated with "passwords," "usernames" and "identity theft." Furthermore, clear default instructions as to what steps to take if either password or username are even suspected to have been stolen need to be issued.

The obvious question, "Who defrauded the client?" does not have only one correct answer. On the construction of this case, one thing is clear – ABSA was not free from criminal liability on the basis of fraud.

Furthermore, the requirements of prejudice and unlawfulness are also present in the facts: actions or rather non-actions on the part of ABSA which led to loss of more than R500,000 may not, under any circumstances, be argued to be lawful or not prejudicial to the clients.

It is only the final requirement of intention that may pose difficulties for substantiating and attributing guilt on a charge of fraud to ABSA. The only indication that there had been such an intention of non-disclosure: is the possible intention of concealment of information concerning existence of threats posed by Spyware, a fact undeniably known to ABSA prior to the incidents recently experienced. It is due to the existence of intention not to disclose (the motive for which is irrelevant) that the bank may be prosecuted for fraud.12

The final consideration is of a practical nature, in that the desirability of criminally punishing a corporate body has always been a matter of controversy.13 It is on this ground that the prosecution of the company may be stayed, but this does not imply that the company is not liable.

The bank was not free from criminal liability on the basis of fraud

Civil liability

There are two legal grounds upon which the bank could be found liable: delict and contract.

Delict

Delict can be defined as a "civil wrong to an individual for which damages can be claimed as compensation and for which redress is not usually dependent on a prior contractual undertaking to refrain from causing harm." 14

Liability of a company in this instance includes, but is not limited to, deceptive and fraudulent business practices and false advertising. Where a court of law might not find enough evidence for the company to be convicted for fraud in criminal proceedings, the lighter burden of proof (on the balance of probabilities as opposed to beyond reasonable doubt in criminal cases) may very well lead to hefty damages payable to the consumer.

In practice, fraud may be either a delict or a crime, depending on its seriousness.15 To be considered a delict, fraud should involve a breach of community standards, also known as "legal policy,"16 which obviously varies from one context to another.

It is appropriate at this stage to mention that information security standards and codes-of-practices such as ISO17799 cannot be regarded as those of the community, because the standards of the community consist of the generalised idea of what an ordinary person on the street accepts as acceptable behaviour. Since information security standards are much specialised and can be argued not even to be familiar to all specialists in the IT industry, it would be unrealistic to expect others to possess it as part of their general knowledge. Therefore, ISO17799 is only an industry standard and not that of the community.

Further, in South Africa, all the unique circumstances, such as low computer literacy, general ignorance of Internet-related security issues, coupled with reliance on information that comes from an authoritative body, such as a banking institution or a government department, all have to be taken into consideration.

In addition, negligence is used as a standard applicable to the assessment of financial loss in such cases. Added to everything already said in this respect, in order to hold the bank liable, the latter’s conduct should fall below the legal convictions or feelings of the community,17 which are not (however unfortunately) rooted in industry codes like ISO17799.

11Snyman CR Criminal Law (2002) 4th ed 520; S v Campbell 1991 (1) SACR 503 (NM) at 505; See also S v Van den Berg 1991 (1) SACR 104 (T) at 106.
12In S v African Bank of South Africa Ltd and Others 1990 (2) SACR 585 (W) at 646, the Court clearly stated:
"That a failure to disclose can constitute fraud is well settled.

16In Minister of Safety and Security v Van Duivenboden 2002 (6) SA 431 (SCA) para 16 at 444B/C-D it was held that:
"The question to be determined is one of legal policy, which must of necessity be answered against the background of the norms and values of the particular society in which the principle is sought to be applied."
17Costal States Trading, Inc. v Shell Pipeline Corp 573 F.Supp. 1414.
Many banks claim to provide secure online banking facilities but remain silent on the necessity and therefore obligation on the part of the client to ensure the security of his/her computer (whether it is in the form of updated antivirus or otherwise), and therefore they failed to fulfill their legal duty of care and as stated above, the high standard of care in South African context.

Further, the bank is most probably liable on the basis of acquiescent action since the damage incurred by the client was, at least, foreseeable in that the existence of spyware has been known for more than 15 years. 18

At the time of the online disaster, it was neither possible for ABSA to raise any of the legal defences, whether that defence was voluntary assumption of risk by the customer, contributory negligence or mitigation of loss; as the consumers could not have been expected to act any differently than the manner in which they did under the circumstances.

Finally, since 1979 South African courts have recognized a broad principle of liability for negligent misstatements, 19 especially where a person does not have any expertise in the area concerned, which derived from professional negligence, where “anyone, not just a person in the traditional categories of advisers, who gives advice with the expectation that it will be acted upon will be liable for foreseeable economic loss consequent upon the giving of the advice negligently.” 20

It is clear that ABSA, by marketing its online banking facilities through distribution of free software, acted as an educator in the area of Internet banking in general. Thus, in order to avoid liability, it has to be more proactive, as it has been since the incidents, and must continue educating its customers in respect of possible information security threats, and corresponding precautions they will have to take to prevent similar incidents from occurring.

So far, ABSA has placed relevant information in respect of its use of encryption technology, access numbers and Pin’s, and passwords on its website, 21 and introduced features like “online keypad on the logon screen”, limiting a number of opportunities to enter the PIN correctly to three.

Furthermore, an option to receive a unique code (Random Verification Number) via email or SMS for purposes of controlling creation of a valid beneficiary and one-year offer for free antivirus software are definitely steps forward in addressing the situation.

The standard of care required by the South African law goes as far as to require that a person or organization has done everything reasonably expected from him by the society at large. Therefore, any organization undertaking the measures as mentioned above, should be confident that it is on its way to comply with such standard of care and limit and/or eliminate any liability for damages vis-à-vis its customers. 22

**Contract**

It is well known that most relationships between an organization and clients are incorporated into a written contract. With respect to banks, contracts become very central to the bank-client relationship 22 and very often there is more than one document involved. It must, however, be noted that internal information security policies of a bank are not part and parcel of the contract, unless drafted for that specific purpose. Information security policies today mostly describe the relationship between employers and employees. No reference can be found in which case an information security policy was extended to also address the service provider (bank) and client relationship. Information security policies at most establish a basis for legal prosecution if the bank is put at risk by the policies not being adhered to by its own employees. As transpires from practice, such policies are "coined" into "Terms and Conditions" and therefore given a formal name therefore it excludes any similar document, which caters for relationships between the bank as an entity and its employees.

When it comes, however, to obligations that arise from the bank-client relationship, there are two important aspects at play: implied warranties and misrepresentation.

**Implied warranties**

Implied warranties are warranties that exist without an express term to that effect in the contract. The reason for the so-called "reading-in" of contracts, is that it is in the public interest for the government to protect some crucial rights of consumers and promote "fair dealing" in the market.

Therefore, sometimes, through representation and prevailing circumstances, implied (unwritten) warranties become part of the contract between the client and the bank. In that case, any violation of such a warranty would attract civil liability, and the bank, being the party making the promises, becomes liable for damages if it fails to honour them.

There are two reasons for this: firstly, the assumption that it is reasonable for the customer to assume that their money is safe in the bank, is sound and therefore valid.

Secondly, the assumption in law that he who drafts the contract owes a heavier duty towards the other party, 23 is also applicable in this case. It is simply impossible to imagine a client requesting the bank to change the terms and conditions of the contract in accordance with his or her wishes, whereby he would have a say in the matter.

Therefore, it is essential for the bank to ensure that the client is aware of everything to do with the contract. It is important to add that in a pre-online banking environment, the client was made aware that both the ATM card and corresponding PIN (password) had to be kept secure by the customer himself. Also, if one wanted to withdraw money at a branch, an I.D. document had to be presented and a valid

18 Clayton C (2003) "Your PC, your responsibility, say banks" Saturday Star 26 July 2003


23 This rule is also known as contra proferentem rule; See for discussion Van der Merwe S et al (1994) Contract: General Principles 223; Cairns (Pty) Ltd v Playdon & Co Ltd 1948 (3) SA 99 (A) 122-5.
signature provided, before an money would be released.

Today, however, the bank will only be on the safe side if the same type of information and procedures are constantly reinforced by means of awareness and training campaigns, thereby reducing the likelihood of a reasonable client being able to plead breach of contract as a defence.

Misrepresentation

Another factor that has obviously vitiated the contract that existed between ABSA bank and its clients is misrepresentation. 24

At the time of the ABSA incidents, the contract between the client and the bank only stated that the former were "not to give or make available in any way his personal Log-in ID and password to any other person for such person's use" and the bank would not be liable "unless the user is able to prove that the person has obtained the login ID and password due to ABSA's negligence or due to internal fraud in ABSA." 25

As already discussed earlier, negligence in terms of failure to act in such reasonable manner as expected by the community, while on the facts of the case the client did not "give" or "make available" their usernames and passwords, but they were, in actual fact, proven to have been stolen.

Furthermore, there was no legal basis for ABSA to invoke paragraph 4.4 of that particular contract, which stated that "[t]he user agrees to conform to generally acceptable Internet etiquette ("netiquette"). 26

due to the fact that this clause is so vague, it would be found by any court of law to be invalid. Therefore, all 10 clients were entitled to sue for damages in any case. 27

Even in the absence of misrepresentation (whether intentional or negligent), there remained a duty to disclose since the circumstances were such that "frank disclosure [is] clearly called for." 28

In other words, persons banking with ABSA online would not have known about the intricacies of making use of Web-based services and the associated risks, without the bank disclosing it to them.

Nowadays, of course, all the banks in South Africa and in other parts of the world, have drawn so called "terms and conditions", which are readily available for perusal on their respective websites and one may not proceed to the next step of registration for Internet banking without accepting them. 29

Although a similar system was in place before, 30 the wording, format and layout used today is more user-friendly and the contract per se is easier to read, thus making the customer's obligations easier to understand.

Although all of the above institutions have stated in their contracts that they are not liable for any damage whatsoever, this is in conflict with, and therefore overridden by the current legislation in South Africa. It is submitted that the ECT Act read in conjunction with the King II Report on Corporate Governance, places the responsibility of ensuring security on the website owner. 31

Therefore, notwithstanding the conservative state of the South African legal system, there are some solid requirements that every organization has to comply with in order to continue to prosper within the given legal regime.

Conclusion

Although the question of reimbursement as pertaining to the ABSA case in South Africa has been settled, cases involving Identity theft fraud and consequential damages are almost certain to arise in the future in all developing countries.

In the light of the above, it is clear that an organization will always carry the risk and be liable for damages or loss that result from an incident similar to that involving ABSA unless it can prove that it has identified all potential risks and took "all reasonable steps to avoid the risk or at least limit the consequences." 32 The client will only bear the risk if the organization can prove that he/she has disregarded explicit instructions it supplied to him/her for the purposes of reducing the risk.

The important lesson that should have been learnt here is that information security has to be given a high priority when providing online services to clients. Failing to do so could expose an organization to recurring, yet avoidable liabilities.

Therefore, the business sector, especially in developing countries, is faced with an exciting opportunity to strengthen its vigilance as a business, by actively participating in the education of Internet users, and through achieving compliance with relevant laws and regulations. Furthermore the role that the Information security policy plays in an organization needs to be expanded upon thereby including clients, employees and organizations. The possibly binding force of information security policies requires further investigation from a legal point of view.