

Awareness concerns of Cyber Security for citizens in Navi Mumbai and Panvel Zone

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Abstract

Navi Mumbai is a developed business hub where exist good number of financial institutions that provides healthy financial services and related support to a good number of population, Although Navi Mumbai city has population of (1.576 Million)1,119,477 Lakhs ; its urban / metropolitan population is 18,414,288 Lakhs of which 9,894,088 are males and 8,520,200 are females and that of Panvel Zone is 5.1 Lakh out of which urban population is 180,020 Lakhs and male in same are 92,484 Thousand where as female are 87,536 thousand, according to the 2011 statistics. It was reported that by the year 2014 cyber crime cases lodged in Navi Mumbai was 604, that in 2015 was 912 and in 2016 was 1030 approximately, where as by 2017 it shored up to 1560 approximately post demonetization of November 08 2016 (Pallavi Prasad,2016). This emphasizes on the need of study as not much of the work is conducted in the same area of customer awareness for cyber securities.

As per the latest reports of RBI our country has seen almost 1 billion digital transaction which is better than December 2017 as 1.06 billion. With the mantra of digital drive across the country there is a hike of around 6.5 % in the usage of digital services. IMPS (Immediate Payment Service) also raised by 10% to see nearly 98 million transactions happen as compared to 9.5 million in November said the report. Conventional transactions via card grew by about 8% month-on-month after debit and credit cards recorded nearly 264 million transactions in December as compared to 244.6 million in November as per the reports of The Economics Times. How ever highest magnitude of card transactions has been 311 million transactions carried out in December 2016 post the cash-crunch period. As per RBI report UPI (unified Payment System) transactions were only 2 million in December 2016 and by December 2017 that number had risen to 145.5 million. There is also a rise in Debit and credit card usage at point-of-sale (PoS) machines both in terms of value and volume from 5% in December 2016 to 6.7% in December 2017. Payments using National Electronic Funds Transfer (NEFT) and Real Time Gross Settlement (RTGS) increased by around 4% and 1%, respectively, in December from the preceding month.

The study conducted by Gotlieb, and Denny [1993] is one of the studies that deals with the impact of IT on banking productivity per second. Computerization is one of the factors which improves the efficiency of the banking transactions.

Respondents were selected on the basis of convenience and data was collected over a span of three months. There is a benefit of having small sample size Malhotra (1999) thus 221 questionnaires were filled for problem

solving keeping responses confidential , as it not only provides better average mean values but also avoids errors which may exist in case of large sample.

Through the literature review from multiple dimensions, it gives a clear picture that computer / cyber security or related concerns are historic in nature. It is also used to include traditional crimes in which computers or networks are used to enable the illegal activity. The doctoral study is conducted on the customers of Navi Mumbai and Panvel zone in the city of Mumbai (Maharashtra, India) to find the level of awareness regarding Computer forensics aspects along with further developments in the unexplored field of techno legal skill development, as it is one of the developed financial and commercial cities in modern era.

(Source: www.firstpost.com/tech/news-analysis/digital-transactions-in-india,Jan 10, 2018 08:45 AM IST)

(Source:<http://www.livemint.com/Industry/faVYL8TDKPyh1iO5HoAYFM/Digital-transactions,Thu, Jan 04 2018. 05 15 AM IST>)

Key words: Cyber crime, awareness, financial institutes, cyber attacks, government acts & laws, security procedures.

Introduction:

Hart in his work “The Concept of Law” has said ‘human beings are vulnerable so rule of law is required to protect them’. Applying this to the cyberspace we may verbalize that computers are insecure so rule of law is requisite to protect and safeguard them against cyber crime. The reasons for the vulnerability of computers may be said to be:

1. Capacity to store data in comparatively small space
2. Easy to access
3. Complex
4. Negligence
5. Loss of evidence

The number of individuals victimized by computer crimes has increased annually (Gordon, Loef, Lucyshyn, & Richardson, 2004). Flanagan and McMenamin (1992) state computer Crime-committed by new generation of hackers might cost cybercrime victims, as a collective, anywhere from \$500 million to \$5 billion a year. The Computer Emergency Response Team Coordination Center (CERT/CC) reports that “the number of reported incidences of security breaches in the firms three quarters of 2000 has risen by 54% over the total number of reported incidences in 1999” (McConnell International LLC, 2000, p.1). This suggests that the hacker world is rapidly changing for the worse. Kabay’a (2001) summary of studies and surveys of computer crime estimated that losses to victims of virus infections reached approximately \$ 7.6 billion in the first half of 1999. Moreover according to the 2005 CSI / FBI Computer Crime and Security Survey, virus attacks continue to effectuate the most substantial financial losses and compared to the year 2004, monetary losses have significantly escalated due to “unauthorized access to information” and the “theft of proprietary information” (Gordon et al., 2004, p. 15). The study conducted by Gotlieb, and Denny [1993] is one of the studies that deals with the impact of IT on banking productivity per second. Computerization is one of the factors which improves the efficiency of the banking transactions. Navi Mumbai is a developed business hub with many banking and financial institutions providing financial services to customer in both the cities. As per the statistics from RBI report (2014) about Credit card transaction taken place is 4,38,032 via (asynchronous transmission medium) ATM and 5,60,91,791 via point of sales (POS) and amount transacted in millions via ATM is 2505.79 and that via POS 171865.26. Same in case of Debit cards transactions via ATM is 59,10,56,613 and POS is 7,36,18,740 and amount transacted in millions via ATM is 1897693.28 and POS is 111006.57 as per year December 2014.

Credit card transaction taken place is 4,40,618 via (asynchronous transmission medium) ATM and 11,28,02,575 via point of sales (POS) and amount transacted in millions via ATM is 1539.2 and that via POS 327082.5 where

as in case of Debit cards transactions via ATM is 71,23,47,249 and POS is 32,86,23,459 and amount transacted in millions via ATM is 1516436.7 and POS is 490041.9 as per year January 2017. Thus, it becomes too important to conduct a study for the same to understand customers perspective towards cyber security awareness post demonetization.

In present scenario the cyber crimes are increasing day by day. After introducing the cyber law in our country the cyber crimes ³⁴⁹ are becoming less but now also some of the cases are their which changes the public mind about the people of our country. Through cyber law many people got arrested and they are now also behind the bar. After seeing so much safety the people are not creating much violence about this. Because of cyber crime many people had being suffered and mainly the rich people and the girls. Therefore Cyber crime system requirements in India are being increasing day by day as per the crimes are increasing.

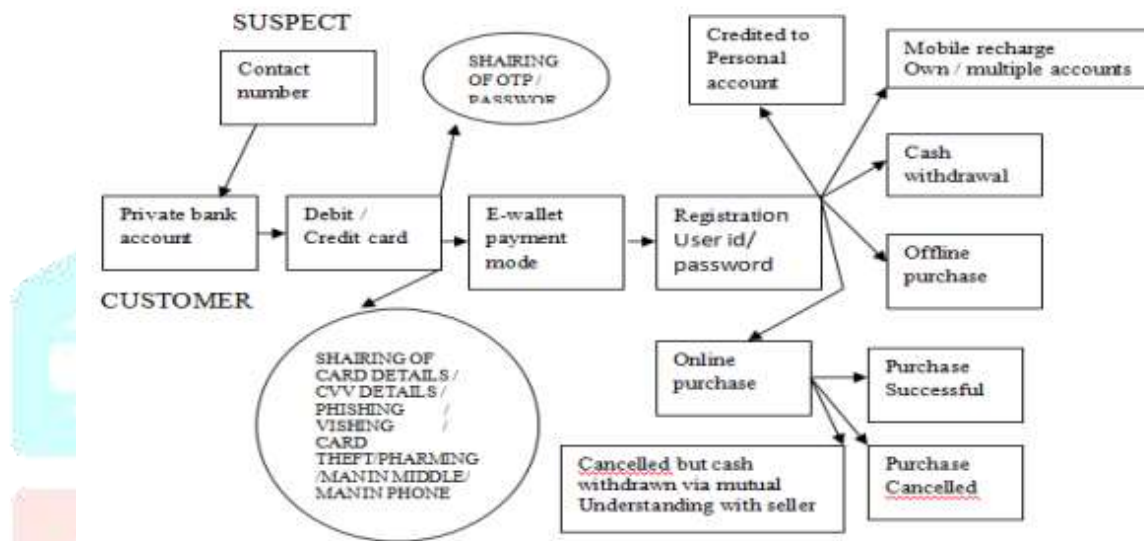


Figure 1- Flow diagram of online financial transaction fraud

| Crime in City | 2016 | 2015 | 2014 | 2013 | 2012 | 2011 |
|---------------------------|------------|------------|------------|------------|-----------|-----------|
| Credit / Debit card fraud | 470 | 320 | 183 | 32 | 08 | 20 |
| Obscene email / SMS / MMS | 120 | 152 | 130 | 35 | 12 | 19 |
| Hacking | 30 | 26 | 43 | 08 | 02 | 04 |
| Source code tampering | 14 | 17 | 04 | 02 | 01 | 00 |
| Threatening emails / SMS | 18 | 15 | 13 | 01 | 03 | 05 |
| Phishing / <u>Vishing</u> | 40 | 05 | 04 | 03 | 03 | 09 |
| Others | 200 | 377 | 227 | 88 | 34 | 29 |
| Total | 892 | 912 | 604 | 169 | 62 | 86 |

Figure 2- Web Offenses of Navi Mumbai & Panvel Zone

Objectives for the study:

The objectives of this research work are to touch all the important facets of the cyber crimes in a comprehensive way and to achieve new insights into it.

1. To explore how cyber crimes are committed (e.g. credit cards, internet)?
2. To explore how much money is at stake, lost and recovered?
3. To analyze how can such crime be reduced – by prevention or punishment?
4. To explore cyber risks to banks and customers.
5. To examine that how cyber security awareness is important for customers while using online / methods of financial transactions?

Review of literature:

Information Technology (IT) is very powerful in today's world, and financial institutions are the backbone of the Indian economy. Indian Banking Industry today is in the midst of an IT revolution.

Over the past two decades, cybercrime has emerged as a salient area of inquiry for criminologists and a growing concern for public policy. Although there are many definitions of cybercrime, the term generally refers to crimes committed through the use of computers and computer networks, but it also includes crimes that do not rely heavily on computers (Britz, 2008). Extant research has explored the nature and extent of cybercrime (Cukier & Levin, 2009; Finley, 2009; Finn, 2004; Geis et al., 2009; Huang et al., 2009; Jaishankar, Halder, & Ramdoss, 2009; Ponte, 2009; Stroik & Huang, 2009), correlates of offending and victimization (Berg, 2009; Bossler & Holt, 2010; Buzzell et al., 2006; Choi, 2008; Higgins, 2005; 2006; Higgins, Fell & Wilson, 2007; Higgins & Makin, 2004; Higgins, Wolfe & Marcum, 2008; Holt & Bossler, 2009; Marcum, 2008; Skinner & Fream, 1997; Turgeman-Goldschmidt, 2009) and issues relating to investigating and prosecuting this type of crime (Roberson, 2009; Hinduja, 2009; Shoemaker & Kennedy, 2009). In spite of the considerable and growing scholarship on cybercrime, however, few studies have examined the theoretical causes and correlates of cybercrime victimization.

Research design

- Deductive Approach (Qualitative)
 - testing theory through observation and data (Primary & secondary).
- Exploratory Study
 - Purposive, (deliberate) self-selection sampling and area sampling.
- Longitudinal
 - projects must be around 1 year in length.
- Collection of data
 - In- depth personal interview at beginning with banks and cyber cell.
 - questionnaire method.
- Delphi method / expert advise for probable solutions
- Self-completion diaries

- to track issues and dynamism in cyber space.

- Sample size - 221

Problem Formulation:

There has been no comprehensive study in the areas of the impact of cyber security issues in the banks (Clarke & Knake, 2010) of Navi Mumbai and Panvel zone, at best there has been a reference made to attacks with mitigation and prevention, general customer satisfaction for services and intrusion detection.

There has been no complete list or in-depth description of cyber security measurements and customer's perspective followed by the banks. There have been studies that took at one aspect of banking cyber securities and fraud detection or prevention techniques but had a lacuna to further enhance the banking system security that holds huge customer information and large amount of finance. Also to mention that studies were still not conducted on the local branches of banks in selected localities for the research. Thus there is a gap which this research aims to fulfill.

Findings, Data interpretation and analysis:

The proportion of male is 33% and female is 67% among respondents.

The sample respondent was skewed towards population aged between 19-24 years (90%). About 7.2% belonged to the age group of 25-34, 0.5% for 35-44, 1.4% for 45-54, 0.5% for 55-64 and 0.5% for 65+.

The sample respondent had population of 93.2 % for bachelor's, 2.7 % masters, 0.5% doctoral, 1.4% high school, 1.4% associate and 0.5 % others.

About 53.4% were found using computer / internet for 3-5 hours a day where as 24.9% uses for 6-8 hours, 17.6% uses for 0-2 hours and 4.1% for 12+.

About 75.6% have moderate knowledge of internet technologies, 16.3% have high, 5.4% have low and 2.7% has expert.

About 44.3% are found very familiar where as 49.8% are some what familiar.

It was found that about 31% thought that the Bandhan Bank was most vulnerable to cyber frauds where as 19.5% said Axis Bank, 16.7% said ICICI Bank, 11.8% said City Bank, 10.4% said City Union Bank and only 10 % said HDFC for the perspective zones in the study.

Statistics says that about 28.5% customer were victims of credit / debit card frauds where as 24.9% for electronic / e wallet fraud, 21.9% for ATM fraud, 12.7% for phishing / vishing and that of about 12.2% for identity theft in the study.

The study reveals that Phishing with 42.5% stands for most known cyber attacking technique Credit / Debit card frauds where as 29.9% for password stealing, 24.9% vishing and 4.8% for loss of cards.

Study further states that around 24.4% sample space claims demonetization as a reason for increase in cyber crimes in Navi Mumbai and Panvel Zones in the current scenario.

The study reveals that around 72.9% of sample space states that banks does not provide alerts and conducts awareness programs for cyber security aspects in current scenario and only 27.1% says yes for the same. As it is understood that most of the crowd are not cyber illiterate and only alerts via simple messaging system (SMS) may not be that much accurate and many even fail to have electronic mail accounts.

81% of sample size uses e wallet / online money transfer applications post demonetization where as only 19 % still moves with conventional methods.

91% says that they have never been participated in any of such awareness campaigns related to cyber security conducted by banks and its only 9% that have been there for same.

About 65.2 % customer receives mobile alerts from banks where as 19% via electronic mails, 12.2 % via advertisements and around 8% receives physical copy for the same.

In case of customer becoming a victim of cyber crime around 67.9% customers tends to block their cards, 11.8% sets up investigation, 8.6 % ask banks to hold for further transactions and very few land up lodging complaint against the same to cyber cell / police station.

It is also found that around 58.4% are still unaware about the legal rights and the cyber laws for protection against cyber crime, where as 41.6% says they posses understanding for the same.

53.8% of sample size are partially aware of the procedure to lodge a complaint to banks / cyber cell / police department / other authorities, where as 18.6 % are interested to know, 11.3% are some how fully aware and 16.3% still unaware for the same showing importance of cyber know how in current scenario.

56.1% of sample space said these kind of survey / seminars / work shops would create awareness among respondents regarding cyber frauds / security measures.

Delphi method outcomes

Expert's advise are always an important part of the the study. The expert advise were taken from group holding Bankers, Cyber lawyers, Cyber cell experts and solution providers to the financial institutions. All the recommendations are consolidated through out the study as and when needed. Thus the study has been giving practical exposure towards the realistic gaps and real time time solutions for the same.

Below are the activities advised to the Bank which they must follows to prevent from cyber attacks:-

- Setting up of NOC-SOC (network operations center- System on a chip) enabling BANK to effectively detect and protect against security threats, which amongst other areas inter-alia cover the following area of operations: Continuous Incident Monitoring and Management Process to address the identification and classification of incidents, reporting, escalation, preservation of evidence and the investigation process for critical systems like Firewalls, Routers, Switches, Servers, Operating Systems, Storage, Databases and Applications like Portal, Website, Email & other components like IP Telephony communication infrastructure, etc. through SIEM(Security Information and Event Management) solution. Also to provide & integrate various security tools like Vulnerability Assessment Tool, Network Behavior Analysis Tool and Database Security Tool with Security Information and Event Management (SIEM) solution.

- To provide various solutions/ services like Enhanced Security, Risk Management, Vulnerability Management, Governance, Risk and Compliance (GRC), Incident Response, countermeasure Planning, Anti-Phishing, Anti-Malware , Anti-Trojan , Network Level Data Loss Prevention (DLP), prevention from Advance persistence Threats (APT) ,Security Device Management and Administration as a part of SOC-NOC.
- To implement security solutions such as Intrusion Prevention Systems(IPS), Web content filters, Web Application Firewall (WAF) ,Anti-APT solutions, Sandboxing, Mobile Device Management (MDM), virtual browsing solutions

Below is the scope includes all the activities related to information security which can form part of a Network and Security Operations Centre (NOC-SOC) including anti-phishing, anti-malware , anti- Trojan , Anti-Ransom and implementation of security solutions such as IPS, Web content filter, WAF and Anti-APT ,DLP, sandboxing, MDM ,virtual browsing solutions at BANK. The proposed NOC-SOC and security solutions would cover all IT assets of the Bank (including Regional offices and Local offices)

1. To build a well functioning Network-Security Operations centre (NOC-SOC) which can enable BANK to effectively detect and protect against security threats. Enable information security functions to respond faster, work more collaboratively and share knowledge more effectively.
2. NOC-SOC to be equipped with broad range of capabilities with a diversity of experiences (eg: incident responders, IPS, analysts ,Knowledgeable forensic analysts with proper network experience).
3. NOC , SOC and other security solutions to work in collaboration so that improved communication and shared knowledge will enhance situational awareness and response capabilities. Improve countermeasure planning through joint accountability for identification and resolution of root cause. Stream-line incident management reporting with valuable technical context.
4. NOC-SOC to document and communicate processes effectively and implement change management mechanisms to quickly update processes when improvement opportunities arise. SOC also needs to create processes with enough breadth and depth to sufficiently address the universe of possible incident scenarios and provide detailed guidelines for response, for example; a SOC must document processes to sort various types of incidents (e.g. phishing, malware infections, BYOD (Bring your own devices) related incidents, website defacement, denial-of-service attacks, etc) as well as decision guidelines for the appropriate response measures for each (e.g. deployment of incident response team, forensic investigation, malware analysis) . NOC-SOC will need to define and implement these processes in collaboration with related departments.
5. NOC-SOC to be equipped with a suite of technology products. Some of the required tools may include intrusion detection and prevention technology(IPS), Anti-APT ,WAF ,web content filter ; SIEM solution; threat and vulnerability management tools; Advance Anti Malware , Anti-Ransom ware tools; filtering technologies; data loss prevention tools; traffic/inspection solutions; data analytics platforms and reporting technologies. In addition , depending on the scope of the responsibilities, the SOC may also have access to other business systems such as enterprise forensic tools in support of incident response investigation efforts. Technologies available in house may also be used to meet SOC needs. Analytics can be used to create more insightful metrics and performance measures to facilitate operational measurements and make informed decisions.

Conclusion

The contribution of this study is also relevant as an eye opener for both customers as well as financial institutions. The study can facilitate the designing and driving of more effective cyber security protective

measures and processes and further studies can be useful for all. Thus security concerns can be provided a better solutions. Through the questionnaire the customers could attempt to close the gap between what they perceive as relevant to ethics and the extent to which they are practiced. Also it could evoke interest in practices which are not yet considered mandatory but could be learnt from this study in the near future.

This analysis is the first of its kind to establish a clear, comprehensive and empirical evidence that emphasis to customer awareness from security perspective is profitable and good business investment. First time a workable list of customer awareness and perspective regarding cyber security and their satisfaction level for the same is established, tested and validate the need to follow such practices in the location selected for the study. Being a commercial hub the probability of acceptance of the same is more.

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