From: Richard Neo To: MCI DataRegulation (MCI) Subject: Re: Feedback on draft PDP (Amendment) Bill

Dear Sir/Madam,

Here attached are the following:

1) Comments on the draft PDP (Amendment) Bill ;

2) Annex which contains the supporting materials.

Thank you very much.

With Regards,



[Document subtitle]



Summary of major points

1) Having a whitelist of types of crucial personal data that could result in significant harm to individuals will be helpful but the list may not be exhaustive and will need to evolve along with technology like facial recognition technology which are increasingly being used to capture important and confidential biometric data.

2) Inclusion of non-government organisations acting on behalf of government organisations in the application of the DP Provisions of the PDPA will bring fairer treatment of non-government organisations handling data from public or private sector in terms of enforcement and penalty imposition.

3) Increased financial cap may have the effect of reminding organisations handling personal data but it may not be effective if the there is any organisation situated outside Singapore in a jurisdiction which does not have equivalent or reasonable personal data protection legislations or compliance culture.

4) Statutory undertakings may need additional safeguards by including clauses stating personal liability of director or signatory who represent the organisation to engage the service of foreign organisations or companies in the provision of goods and/or services to the government or non-government organisation(s) with/without informing the government or non-government organisations.

5) The suggested improvement in control over unsolicited marketing messages sent to IM platforms is in encouraging move but companies should ensure there are options available in the IM platforms for users to select to receive or reject all or some marketing messages. Also, companies using those foreign apps for work purposes should be made aware of the privacy risks that come with their uses.

Statement of Interest

I am a member of the public who has gone through the <u>Practitioner Certificate in</u> <u>PDP Preparatory Course</u> and passed the examination for <u>The Practitioner</u> <u>Certificate in Personal Data Protection (Singapore)</u>. Personal data protection is one area that I have an interest in in addition to the current data analytics course I am taking. Furthermore, I have real life experience of how my own personal data can be potentially compromised (e.g. My personal data is leaked during Singhealth hacking incident).

In addition, from the news, I have learnt about the real-life incidents where personal data is hacked, misused and even put on sale on the Dark Web. Such incidents are relevant to everyone, including me. As such, I do hope to contribute my part in enhancing the protection of personal data of many and exploring the possibility of increasing the accountability and responsibilities of service providers who handled personal data directly or indirectly especially in Government or Government-linked projects.

I think paying special attention to the presence of foreign service providers or subcontractors who work along with the local ones is necessary as equivalent data protection and reciprocal arrangements may not exist in foreign jurisdictions. The local laws may not have arms long enough to reach these in foreign jurisdictions and hence I do wish to contribute my own ideas for your considerations.

Note: The text highlighted in orange are my comments while the parts I will be commenting on will be in black italic format. The part(s) highlighted in red are those that I wish to request to not be published.

1) With reference to the following:

18. MCI/PDPC also intends to prescribe in Regulations categories of personal data which, if compromised in a data breach, will be considered likely to result in significant harm to the individuals. This makes clear the types of data breaches that organisations will be required to notify affected individuals. Several jurisdictions have adopted a similar "whitelist" approach for data breach notification to affected individuals and/or the authorities11. Examples of data categories prescribed by other jurisdictions include social security numbers, drivers' licence numbers, state identification numbers, credit/debit card numbers, health insurance information and medical history information.

Comments: With increasing use of facial recognition technology in payment, unlocking devices and doors, the whitelist should also include biometric data like facial images and thumbprints, both of which appear on NRIC too. The facial image of a particular individual can be used to identify the real person directly, fabricate fake news, enable authorised entry for another person (intruder), effect e-payments via mobile apps for expenses incurred by someone else etc. If the collection, storage, transfer and use of biometric data are not adequately regulated, I believe more may appear in the Dark Web for sale. Identity thefts, deepfake creation and financial loss will then be increasingly common. (Please refer to Annex: Picture A & Picture B)

In addition, I noted the use of facial recognition devices in some shopping centres and other places like the Parliament. Are the contractors who supply such devices compliant with the current PDPA and willing to sign any written undertaking to take on greater accountability and possible liabilities should there be any data breach, hacking incident or data theft? Are there adequate safeguards and data protection procedures in place before the installation of such devices? If these are absent, will a major data breach incident happen that could taint Singapore's reputation as a safe location for data centres to be located in? (Please refer to Annex: Picture C)

My suggestion to enhance the accountability of such suppliers and sellers is to make it mandatory for the suppliers and sellers of those facial recognition devices to apply for and obtain license to sell those devices in Singapore so that the government can regulate the increasing use of such devices which can capture and store a lot of biometric data that could directly identify many individuals. By using a licensing framework, the firmware and designs of such devices can be inspected for any security loophole. Nevertheless, I do acknowledge that this is not within the purview of PDPC but ensuring personal data security is a multifaceted issue and it may require the collaboration of various government departments to achieve the objective of better personal data security effectively and efficiently.

2) With reference to the following:

Removal of exclusion for organisations acting on behalf of public agencies

27. Currently, under section 4(1)(c) of the PDPA, an organisation in the course of acting on behalf of a public agency in relation to the collection, use or disclosure of personal data is excluded from the application of the DP Provisions of the PDPA.

28. In line with the PSDSRC recommendations, the PDPA will be amended to remove the exclusion for organisations that act on behalf of a public agency in relation to the collection, use or disclosure of personal data. This will close the legislative gap where non-Government entities acting as agents of Government are not covered under the PDPA or the Public Sector (Governance) Act 2018 ("PSGA"), and ensure the accountability of third-parties handling Government data according to the PSDSRC recommendations. It will also provide clarity and consistency in the enforcement of data breaches involving non-Government entities. 29. Please refer to clause 3(a) of the draft PDP (Amendment) Bill.

Comments: This could make third parties (main contractors and sub-contractors handling Government data more accountable without prejudice or suspected protection as compared to those handling non-Government data. Moreover, the Government data may include a larger proportion of the Singapore population than those in the private sector and hence, the accountability of the third parties involved in such a case should be aligned to the magnitude of the data volume that is at risk of being leaked and thereby affecting more people.

3) With reference to the following:

Increased financial penalty cap

58. Under section 29(2)(d) of the PDPA, PDPC may impose a financial penalty of up to S\$1 million for data breaches under the PDPA. The amendments will increase the maximum financial penalty to (i) up to 10% of an organisation's annual gross turnover in Singapore; or (ii) S\$1 million, whichever is higher.

59. The higher cap will serve as a stronger deterrent, and provide PDPC with more flexibility in meting out financial penalties based on the circumstances and seriousness of a breach. The higher cap will also be closer to that of other jurisdictions, such as EU and Australia. For example, the EU GDPR provides for a revenue-based maximum financial penalty (€20 million or 4% of the entity's global annual turnover of the previous financial year, whichever is higher). The higher cap is also aligned with other relevant Acts 21.

Comments: The higher financial penalty cap could likely attract more attention of many non-government organisations which handle large amount of personal data

and lack rigour in its data protection policies and procedures. Some may even think it is unimportant to protect personal data as they deem penalties under PDPA as less severe than those under other Acts like Penal Code on Illegally obtained personal information and Criminal Breach of Trust or the PDPA is not as conspicuous as other Acts since it only took effect in phases since 01 January 2013. So, raising the cap on the financial penalty under the amended PDP will have the desired effect of raising eye brows and attracting more attention from all organisations and individuals so that the importance of being compliant with PDPA will be better emphasized.

4) With reference to the following:

Statutory undertakings

64. Statutory undertakings allow a regulator to apply more flexible and individually tailored approaches to enforcement. From PDPC's experience, organisations that have in place a data protection management plan will have an effective system for monitoring, internal reporting, and management of data breaches. The implementation of the data breach management plan can be the subject of a statutory undertaking. When coupled with mandatory breach notification, statutory undertakings will further encourage organisations to adopt accountable practices.

65. Several jurisdictions, such as Australia, Canada and the UK, offer undertakings as part of their enforcement regime. Presently, PDPC accepts undertakings under its Active Enforcement Framework22. The amendments will enhance the effectiveness of undertakings as an enforcement mechanism. The statutory undertaking scheme will expand the range of options for enforcing breaches of undertakings.

66. PDPC may investigate the underlying breach if the organisation fails to comply with the statutory undertaking. Alternatively, a breach of a statutory undertaking will be enforceable by PDPC directly through the issuance of directions. If the organisation fails to comply with these directions, PDPC may apply for the directions to be registered by the District Court under section 30 of the PDPA.

Comments: The statutory undertakings may not be adequately comprehensive if there are third parties (sub-contractors), situated in foreign countries, collaborating with the local main contractors or other sub-contractors (which might not be revealed) to handle the local Government or non-Government projects that could contain personal data. The direct or indirect involvement of these foreign entities may enable them to come into contact with such confidential personal data which could further increase the risks of data breaches. It may be more difficult to make them accountable or even prosecute them since they may be situated in a different jurisdiction with no comparable data protection and reciprocal arrangement. So, since the main contractors or the sub-contractors (especially those which are SMEs) are the ones who may engage the service of such foreign contractors or service providers, the former should be made accountable for it.

One way to do this may be to include clauses in the written undertakings to hold the signatory or director(s) who signed on behalf of the organisations (local contractors) personally liable if there is a significant data breach incident caused by the foreign contractors and it is not possible to penalise these foreign contractors due to the absence of reciprocal agreement and comparable data protection in the countries they are located in. The justification is that the signatory or the director, who acted on behalf, should exercise due diligence in knowing the foreign contractors well before engaging them and it is their duties to inform their engagement with essential details to the Government or non-Government service buyers. If they wilfully withhold any such important information or provide false information in order to obtain the contracts, which could potentially affect personal data security and make enforcement difficult to carry out, they should be held personally liable with criminal intent to cheat or deliberately withhold crucial information for personal gains. In such a case, the organisations and individuals could be penalised separately under the PDPA and the Penal Code as well.

An analogy is the Company Act which does not allow limited liability protection of a company (separate entity) to protect the personal wealth of the directors who act as signatories on behalf of the company when there is fraud and intent to cheat. So, should the PDPC hold the company responsible only when it is the signatories who represent the companies to sign the statutory undertakings? Certainly, contradiction should not happen.

5) With reference to the following:

Improved controls for unsolicited commercial messages

53. The PDPA's DNC Provisions and the SCA's Spam Control Provisions both aim to address consumer annoyance and provide consumers with greater control over the unsolicited marketing messages they receive. At the same time, they help ensure organisations communicate more effectively with consumers who are interested to receive information on offers of products and services. Technological advancements have fuelled the increased use of marketing tools such as instant messaging ("IM") platforms, making it easy to send commercial communications to a large number of recipients.

54. As the PDPA and SCA impose overlapping requirements on unsolicited marketing text messages, MCI/PDPC has reviewed both legislation to make it easier for organisations to comply with their requirements. The proposed amendments also take into account developments in the current landscape. Specifically, MCI/PDPC intend to make the following amendments:

a) SCA will cover messages sent to IM accounts: Unsolicited commercial messages sent to IM accounts via platforms such as Telegram and WeChat are currently not covered by the DNC Provisions and the Spam Control Provisions. To address this gap, the SCA will also cover commercial text messages sent to IM accounts and in bulk. Please refer to clause 38 of the draft PDP (Amendment) Bill.

[Redacted]

Comments: As an individual, I personally feel stricter regulations should be imposed on such foreign apps being used in Singapore as they may lead to scams, unsolicited marketing calls, prank calls and even malwares/viruses being installed in the smartphones without the knowledge of the installers since users need to grant access to the confidential information stored in their smart devices in order to use them.

As we move to cashless society with more frequent use of mobile apps, the more the statutory laws here should enforce the use of such apps and accountability of those companies which require their staff to use it involving their personal data. Moreover, the creators or owners of such foreign apps are situated in foreign countries like China which may not have reciprocal agreement and comparable data protection laws, which will make it harder to penalise them when there is a significant volume of data leaks and breaches caused by them. (Please refer to Annex: Picture E)

The only thing we can do to make the local companies and/or directors liable for introducing the use of such apps at the corporate and personal level correspondingly. Only then the local companies, especially the SMEs, and/or directors will be more aware of the importance of protecting personal data and being compliant with the local personal data protection laws which could be very different from those in some foreign countries where the apps come from instead of relying on their own personal interpretation of the data protection laws in those foreign countries. (Please refer to Annex: Picture F)

Conclusion

With the rapid advancement in technology, a lot of personal data becomes digitalised. They are more easily prone to hacking, data breaches, theft and misuse since network technologies, which make them easily transferable, may too inadvertently make them accessible worldwide if reasonable protection and good cyber hygiene are absent.

Contractors and sub-contractors, especially those which are SME companies, which may not attach importance to personal data protection as much as the larger ones, and some foreign organisations, should bear greater responsibility and accountability for their involvement in handling significant amount of local personal data in both local Government and non-Government projects.

So, the amendments to the PDPA are timely to deal with challenges of the digital economy. However, if a significant number of the SME companies do not take a serious view of the PDPA or hold the view that PDPA is not applicable to them due to their inconspicuously small size, then PDPA and PDPC may be perceived as two toothless tigers. Must we wait till more data breach incidents significantly affect the reputation of Singapore as a secured data centre (which is worth a lot more than the S\$1 million penalty imposed for data breaches) permanently before any further decisive actions can be taken?

If Singapore wants to distinguish itself as a safe data centre from other competing countries, it will need to move forward in this race with the necessary legislations to give the investors better assurance and peace of mind. This can help strengthen and sustain a long-term confidence in Singapore as a reliable and relevant economy.

Annex

Picture A:

1 47 **Top of the News**

Your medical records, bank account details, e-mail passwords and Netflix login can be bought for

\$1,000 on the Dark Web

Calvin Yang

On the data black market, thieves peddle stolen medical records, bank account derails, e mail pass-words and even Netfika logins. Priceless to you, perhaps, But on the Dark Web, an online space that can be accessed using only special software, they can be traded for less than \$1,000. an \$1,000, see can fluctuate drastically on the type of data and de-for them. But in general, belonging to prominent fig-ach as politicians and celebri-ill fetch a higher price. cyber-security experts and 's say every datum has a price ad no quantum can be put on s of privacy and, potentially, y. dentity. The Sunday Times explores this ecretive cove where, all too often, saked data ends up for sale after a track

Sunday, May 5, 2019 | The Sunday Times

STOLEN MEDICAL DATA

STOLENMEDICAL DATA Data from Singapore has been traded on the cyherblack market. Between 2017 and lasty yeat, user Deregovernment agencies and delu-cational institutions were pau up for sale on the bark Web. The singaport of the sale of the form ministries, and the police. The singar Nation and Digital Gow alerted to the presence of email credentials in illegal data banks in lanuary shivyse. uary this year. added that the credentials were leaked from government sys-is, but from officers who used m for personal and non-official measure

term to persona and non-on-relative "Around 50,000 of them a tep of "They are either outdated or bo-ment e-mail addresses." "They are either outdated or bo-ses addresses, except for 119 of the group said in March, adding at as an immediate precautionary the easure, all officers with affected edentials have changed their pass-ords.

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A computer forensics expert working at technology-based mix consultancy TBS Forenzics. Experts urge Internet weres to practice good cyber-hygiene habits, such as updating their software regularly for security patches, using different passwords for various accounts, and avoiding suspicious links or e-mail attachments from unknown senders. ST PHOTO DESMOND WEZ.

When 'dark' is not all evil Tan Ee Lyn

The Dark Web is not all about

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they do with the data, said Mr Htet Kyaw. "They will sell their data to anyone who is willing to buy."

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22 Aug 2019 06:29AM

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(Updated: 22 Aug 2019 06:30AM)

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★ Commentary | Commentary

Commentary: Careful with photos you post online. You may be putting your digital identity at risk

Bad actors may use photos manipulated using deepfake technologies to log into user accounts, says Jumio's Frederic Ho.



FaceApp's old-age feature is the latest social media craze. (Photo: FaceApp)

SINGAPORE: From the popular boy band The Jonas Brothers to celebrity chef Gordon Ramsay, users of FaceApp around the world have been having a blast sharing their AI-altered photos on the Internet. Picture C: Source: <u>https://www.straitstimes.com/world/europe/concerns-raised-over-leak-of-biometric-data-in-uk</u>



Concerns raised over leak of biometric data in UK

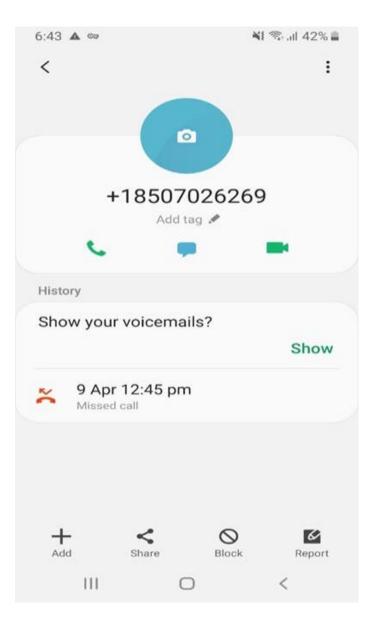
() PUBLISHED AUG 18, 2019, 5:00 AM SGT



LONDON • The nature of how organisations capture and store the public's biometric data, such as fingerprints and images of faces, came under renewed scrutiny this week by security experts and regulators.

Britain's Information Commissioner's Office (ICO) said it was opening an investigation into the use of facial-recognition camera technology at King's Cross development in London. It followed revelations on Wednesday that millions of pieces of personal biometric data may have leaked from a popular security service.

"Scanning people's faces as they lawfully go about their daily lives, in order to identify them, is a potential threat to privacy that should concern us all," Ms Elizabeth Denham, Britain's Information Commissioner, said in a statement on Thursday. **BRANDED CONTENT**



Man in row with bank over hacked phone_Who's liable for The SI 26.01.1 / the loss incurred?

Danson Cheong and Lester Hio

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last month. He insists he has en-tered his credit card details on his phone only twice or thrice in the past year - to buy movie tickets on-line.

here, was told by the bank that one of the reasons the payments could not be waived was that they were made under the "3D secure pay-ment system" – which authenti-cates online transactions by send-ing an OTP to the customer's call-hone. The Straits Times under-soltand that because the hackers obtained the OTPs, the payment system was not compromised. UOB said: "We review each cus-tomer dispute case thoroughly and

take into account a number of con-tributing or mitigating factors. Thad provided his credit card infor-mation on a phishing site or it in the system and perfor mation on a phishing site or it in the system and perfor mation on a phishing site or it in the system and perfor mation on a possibility of the system and perfor bank's security measures were no compromised." An ABS spokesman said that ins provided their credit card infor-mation on websites without consult in the sime and provided their credit card infor-mation on websites without consult in the sime technol sources to bear mation on websites without consult in the system. The question their smartphones to perform fraudulent online transactions. Case executive director Seah Seng

Who absorbs the loss when online credit card fraud takes place – the customer, the merchant or the bank?

Mr Philip Loh had his phone hacked into and credit card details stolen last year, with stickets flight tickets costing \$12,327 being bought in Eastern Europe. He appears to be the victim of a malicious program that the public was warned about Last month. ST FHOTO: ALICIA CHAN

Choon said banks need to keep in mind shifting security vulnerabili-ties. "If a third party can hack into the system and perform transac-tions in this manner, it shows that the system needs to be reviewed protect consumer interests." Information technology lawyers better of two-factor authentication systems. "The question is: Is it fair for consumers to bear the liability when it is the system that has been lawyer Bryan Tan.

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banks opt for SMS OTPs for con-venience. "Currently, the banks decide the method of OTP delivery from the many options available," said Visa's country manager for Singa-pore and Brunei, Ms Ooi Huey Tomas Zink, research manager at market research firm IDC, said con-sumers should not be liable for fraudulent transactions if they were not acting 'fraudulently or without reasonable care." Most of the time, users will have to trigger or approve the installa-tion of malware. But II affore the time the said

to trigger or approve the installa-tion of malware. But IT lawyer Bryan Tan said it can be hard for the layman to de-tect these insidious programs, and they are almost always download-ed unintentionally. "If you are a designer of mal-ware, you are not going to put big flashing lights and say this is mal-ware. You are going to make it as insidious as possible." At Tan Experts say that consumers should be extra vigilant about the content they access on their mo-bile phone. To better protect themselves against mobile malware, they should also be mindful when open-ing e-mail links.

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CMYK

Picture F:

Report flags lack of cyber preparedness among SMEs in Singapore The Straits Times 17 Oct 2019

Over half of cyber incidents at SMEs in past year were caused by known risks: Survey

Seow Bei Yi Business Correspondent

More than half the number of cyber incidents that small and medium-sized enterprises (SMEs) here experienced in the past year or so were caused by a risk leaders had already identified, found a survev by Chubb Insurance.

Such incidents included data loss through system malfunctions and getting hit by ransomware.

Flagging a clear gap between perceived and actual preparedness, the second annual Chubb SME Cyber Preparedness Report released yesterday also showed that 53 per cent of the cyber incidents in the past 12 months or so were caused by employees.

This was either through administrative or clerical errors, or the loss or theft of a company device, such as a laptop or USB drive.

The Singapore figures were based on a survey of 300 respondents from SMEs here.

This was part of a larger survey involving 1,400 respondents, with the rest from Hong Kong, Australia and Malaysia.

Nearly two-thirds of the Singapore SMEs surveyed reported experiencing a cyber incident in the last year, even though nearly half said their organisation assumes it will never experience one.

In Singapore, 30 per cent of the data files breached involved email traffic of the senior team.

mail traffic of the senior team. Research and development data made up 24 per cent, while intellectual property data and financial performance data accounted for 23 per cent each.

"While Singapore performed slightly better than other markets in protecting customer records, collectively this data was still accessed in 40 per cent of all breaches," said the report. "In 12 ner cent of indicate at

"In 12 per cent of incidents, the SME wasn't even aware of what Nearly two-thirds of the Singapore SMEs surveyed reported experiencing a cyber incident in the last year, even though nearly half said their organisation assumes it will never experience one.

data was breached."

Mr Andrew Taylor, cyber underwriting manager for Chubb Asia-Pacific, said: "With more businesses going digital in Singapore, it's unsurprising that cyber incidents are on the rise. SMEs need to keep pace and educate themselves about all the cyber threats they face."

The survey also found that despite a rise in the number of cyber incidents, Singapore SMEs are "less worried about the impact on their business".

Compared with last year's survey, fewer firms were worried about the impact of a cyber incident on their relationship with customers, revenue and sales, reputation, or the cost of the incident

tion, or the cost of the incident. While 60 per cent of SME leaders overall believed that insurance has a role to play in protecting them against cyber risk, only 34 per cent of SMEs are currently insured against cyber incidents. Similar to last year's findings, 59

per cent of SME leaders believed that large corporations are at greater risk of cyber attacks.

Over half of the SMEs surveyed were not confident that staff with access to sensitive data are fully aware of their data privacy responsibilities, although a larger proportion of leaders are identifying better training in cyber-risk management as an important next step.

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