Ransomware and Your Obligations under PHIPA

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> Information and Privacy Commissioner of Ontario

Outline

- About the IPC
- Protecting Against Ransomware Factsheet
- Security Obligations, s. 12(1) of PHIPA
- Notice Obligations, ss. 12(2) and 12(3) of PHIPA

About the IPC

- Information and Privacy Commissioner of Ontario (IPC) established in 1988
- Commissioner acts independently of government to uphold and promote open government and the protection of personal privacy
- IPC oversees three statutes:
 - Freedom of Information and Protection of Privacy Act (FIPPA) and its municipal counterpart (MFIPPA)
 - Personal Health Information Protection Act (PHIPA)
 - **Comprehensive** privacy protections for personal health information (PHI)

Commissaire à l'information et à la protection de la vie privée de l'Ontario

Protecting Against Ransomware

- IPC Fact Sheet released in July 2016
- What is ransomware?
- How do computers get infected?
 - Phishing attacks
 - Software exploits
- Protecting your organization
- Responding to incidents
- Available at <u>www.ipc.on.ca</u>

protection de la vie privée de l'Ontario	Technology Fact Shee
Pro	otecting Against Ransomwar July 201
	common and dangerous threat to the security des information on how public institutions and otect themselves against it.
WHAT IS RANSOMWARE?	
device or computer, including any mapped	o decrypt the files. It essentially locks you out
HOW DO COMPUTERS GET INFECTED	?
Hackers use different techniques to install fall into two categories: "phishing" attacks	ransomware on computers. In general, these and software exploits
Phishing Attacks	
	n a hacker sends one or more individuals an nail, social media post or instant messenger ient into revealing sensitive information or
invoice from a delivery company. The hack	siness transaction, such as a shipping notice of er may also try to fake an "urgent matter," suc ore advanced versions (also known as "spear
Ransomware may be installed if the recipion the body of the message.	ent opens a file attachment or clicks on a link

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Security Obligations, PHIPA s. 12(1)

- Requires health information custodians (HICs) to take steps that are reasonable in the circumstances to ensure PHI in their custody or control is protected against:
 - theft, loss and unauthorized use or disclosure
 - unauthorized copying, modification or disposal
- Depending on level of risk, measures may include:
 - Employee training
 - Antivirus software
 - Email quarantines
 - Limited active content

- Data backups
- Software updates
- Minimal user privileges
- Simulated attacks
- If a computer is compromised, HICs should take immediate steps to mitigate effects of attack

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Notice Obligations, PHIPA s. 12(2)

- IPC has received **limited cases** of ransomware
- A ransomware infection **may** constitute a breach depending on factors such as:
 - whether any PHI was accessed by hackers
 - whether affected PHI was fully restored
- If breach has occurred, HICs must notify individuals at first reasonable opportunity
- PHIPA does not specify the manner of notification
- Best form of notification depends on **numerous factors**
- Contact IPC to discuss

Notice Obligations, PHIPA s. 12(3)

- Bill 119, *Health Information Protection Act, 2015*, introduced additional **breach notification** requirements into *PHIPA*
- If breach has occurred and meets the prescribed requirements, HICs must **notify IPC**
- However, **no requirements** have been prescribed yet
- Until then, HICs should **continue to notify** the IPC of privacy breaches as appropriate

How to Contact Us

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