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1 Cybercrime

1.1 Would any of the following activities constitute a criminal or administrative offence in your jurisdiction? If so, please provide details of the offence, the maximum penalties available, and any examples of prosecutions in your jurisdiction:

Hacking (i.e. unauthorised access)
Yes, it is an offence to fraudulently obtain, use, control, access or intercept computer systems or functions under the Criminal Code (R.S.C., 1985, c. C-46). The relevant provisions of the Criminal Code that prohibit hacking (i.e., unauthorised access) are as follows:
- Section 184: Any person who knowingly intercepts a private communication is guilty of an indictable offence carrying a maximum penalty of five years’ imprisonment.
- Section 342.1: Any person who fraudulently obtains any computer services or intercepts any function of a computer system – directly or indirectly – or uses a computer system or computer password with the intent to do either of the foregoing, is guilty of an indictable offence carrying a maximum penalty of 10 years’ imprisonment.
- Recently, in R. v. Senior, 2021 ONSC 2729, the Ontario Superior Court summarised the essential elements required for the accused to be found guilty of an offence under Section 342.1 of the Criminal Code, and found the defendant guilty of unauthorised use of a computer after running a licence plate number contrary to York Regional Police directives.
- Section 380(1): Any person who defrauds another person of any property, money, valuable security or any service is guilty of: (i) an indictable offence carrying a maximum penalty of 14 years’ imprisonment where the value of the subject matter of the offence exceeds $5,000; and (ii) an indictable offence or an offence punishable by summary conviction carrying a maximum penalty of two years’ imprisonment where the value of the subject matter of the offence is under $5,000.
- Section 430: Any person who commits mischief to destroy or alter computer data; render computer data meaningless, useless or ineffective; obstruct, interrupt or interfere with the lawful use of computer data; or obstruct, interrupt or interfere with a person’s lawful use of computer data who is entitled to access it, is guilty of: (i) an indictable offence punishable by imprisonment for life if the mischief causes actual danger to life; (ii) an indictable offence or an offence punishable on summary conviction carrying a maximum penalty of 10 years’ imprisonment where the value of the subject matter of the offence exceeds $5,000; and (iii) an indictable offence or an offence punishable on summary conviction carrying a maximum penalty of two years’ imprisonment where the value of the subject matter of the offence is under $5,000.
- In R. v. Geller, [2003] O.J. No. 357, the accused was convicted under Section 430(5) after pleading guilty to “hacking” after obtaining 400 credit card numbers, along with other personal data, and accessing the internet 48 times using false identification.

Denial-of-service attacks
Yes. Under Section 430(1.1) of the Criminal Code, it is an offence to obstruct, interrupt or interfere with the lawful use of computer data or to deny access to computer data to a person who is entitled to access it; the maximum penalty for such an offence is 10 years’ imprisonment.

Phishing
Yes. Phishing may constitute fraud under Section 380(1) of the Criminal Code. For example, in R. v. Usifoh, 2017 ONCJ 451, the accused was convicted of fraud relating to an email phishing scam emanating out of Nigeria and Dubai where he lured victims into sending funds. The maximum penalty for offences under Section 380(1) of the Criminal Code is 14 years’ imprisonment.

In addition, while not a criminal offence, Canada’s anti-spam legislation (“CASL”) prohibits the sending of unsolicited commercial electronic messages (“CEMs”). Any person who contravenes CASL may be subject to an administrative monetary penalty of up to $1,000,000 in the case of an individual, and up to $10,000,000 in the case of any other person.

Infection of IT systems with malware (including ransomware, spyware, worms, trojans and viruses)
Yes. Under Section 430(1.1) of the Criminal Code, it is an offence to commit mischief in connection with computer data, as noted above. The maximum penalty for such an offence is 10 years’ imprisonment; however, if a human life is endangered, offenders are liable to imprisonment for life.

In addition, Section 8(1) of CASL prohibits anyone in the course of a commercial activity, regardless of an expectation of profit, to: (i) install or cause to be installed a computer program on any other person’s computer system; or (ii) cause an electronic message to be sent from that computer system, unless they receive the express consent of the computer system’s owner or an authorised user, or if the person is acting in accordance with a court order.

Distribution, sale or offering for sale of hardware, software or other tools used to commit cybercrime
Yes. It is an offence under Section 342.2 of the Criminal Code to – without lawful excuse – sell or offer for sale a device that is...
designated or adapted primarily to commit cybercrime, knowing that the device has been used or is intended to be used to commit a cybercrime that is prohibited under Sections 342.1 or 430 of the Criminal Code (described in more detail above).

The definition of “device” in Section 342.2 of the Criminal Code includes: (i) the component of a device; and (ii) a computer program (i.e., computer data representing instructions or statements that, when executed in a computer system, causes the computer system to perform a function).

The maximum penalty under Section 342.2 is two years’ imprisonment and/or forfeiture of any device relating to the offence.

Possession or use of hardware, software or other tools used to commit cybercrime

Yes. It is an offence under Section 342.2 of the Criminal Code to – without lawful excuse – possess, import, obtain for use, distribute, or make available a device that is designed or adapted primarily to commit cybercrime, knowing that the device has been used or is intended to be used to commit a cybercrime that is prohibited under Sections 342.1 or 430 of the Criminal Code (described in more detail above).

The maximum penalty is the same as noted above – i.e., two years’ imprisonment and/or forfeiture of any device relating to the offence.

Identity theft or identity fraud (e.g. in connection with access devices)

Yes. Sections 402.2 and 403 of the Criminal Code prohibit identity theft and identity fraud, respectively. With respect to identity theft, it is an offence to obtain or possess another person’s identity information with the intent to use it to commit an indictable offence like fraud, deceit, or falsehood. Furthermore, any person who transmits, makes available, distributes, sells or offers another person’s identity information for the same purposes will be guilty of a criminal offence.

Regarding identity fraud, it is an offence to fraudulently personate another person, living or dead, with the intent to: (i) gain advantage for themselves or another person; (ii) obtain any property or interest in any property; (iii) cause disadvantage to the person being personated or another person; or (iv) avoid arrest or prosecution or to obstruct, pervert or defeat the course of justice.

Notably, the Criminal Code does not limit the aforementioned offences to any medium – e.g., online, through access devices, or otherwise. The maximum penalty for identity theft under Section 402.2 is five years’ imprisonment, and the maximum penalty for identity fraud under Section 403 is 10 years’ imprisonment.

In R. v. Mackin, 2014 ABCA 221, the accused pled guilty to 39 criminal charges, including three counts of identity fraud (and unauthorized use of a computer), after accessing the Facebook accounts of minors and personating those minors’ friends to lure them into making child pornography.

Electronic theft (e.g. breach of confidence by a current or former employee, or criminal copyright infringement)

Electronic theft is not specifically covered by the Criminal Code; however, depending on how the electronic theft is carried out and what is stolen, it may be considered an indictable offence under one of the many prohibitions against fraudulent transactions found in the Criminal Code. For example, any deceit, falsehood, or fraud by a current or former employee in order to knowingly obtain a trade secret, or communicate or make available a trade secret, is prohibited under Section 391(1) of the Criminal Code. And, similarly, it is an offence under Section 342.1 of the Criminal Code to fraudulently obtain any computer service, which includes data processing and the storage or retrieval of computer data.

In addition to the foregoing, Section 322 of the Criminal Code deals with theft generally. Many of the prohibitions in Section 322 against theft would cover electronic theft as well. For example, a person commits theft when he/she fraudulently and without colour of right takes or converts to his/her use anything with intent to deprive – temporarily or absolutely – the owner of his/her thing, property or interest therein. That said, the Supreme Court of Canada’s historical approach to electronic theft is that non-tangible property, other than identity theft, is not considered property (see R. v. Stewart, [1988] 1 SCR 963) for the purposes of Section 322 of the Criminal Code. This interpretation has since been applied to data and images, which also cannot be the subject of theft under Section 322, although they can be the subject of other criminal offences (see, e.g., R. v. Maurer, 2014 SKPC 118; ORBCOMM Inc. v. Randy Taylor Professional Corp., 2017 ONSC 2308).

It is also a criminal offence to circumvent technological protection measures, or manufacture, import, distribute, offer for sale or rental, or provide technology, devices, or components for the purposes of circumventing technological protection measures under Section 41.1 of the Copyright Act. Knowing or circumventing technological protection measures for commercial purposes is a criminal offence under Section 42(3.1) of the Copyright Act, and can carry a maximum penalty of a $1,000,000 fine and/or five years’ imprisonment.

Canadian privacy laws, including legislation relating to personal health information, also contain provisions prohibiting the unauthorised collection, use, disclosure and access to personal information (“PI”). For example, under Section 107 of Alberta’s Health Information Act, RSA 2000, c. H-5, it is an offence to collect, gain, or attempt to gain access to personal health information in contravention of the Act (e.g., by way of electronic theft without the authorisation of the relevant data subject); the maximum penalty for such an offence is a fine of $200,000 for individuals, and $1,000,000 for any other person.

Unsolicited penetration testing (i.e. the exploitation of an IT system without the permission of its owner to determine its vulnerabilities and weak points)

Yes. Unsolicited penetration testing may be considered an offence under Section 342.1 of the Criminal Code. Under Section 342.1, individuals are prohibited from fraudulently, and without colour of right, obtaining, directly or indirectly, any computer service, or intercepting or causing to be intercepted, directly or indirectly, any function of a computer system. Unsolicited penetration testing may also be considered mischief under Section 430(1.1) of the Criminal Code.

Any other activity that adversely affects or threatens the security, confidentiality, integrity or availability of any IT system, infrastructure, communications network, device or data

Yes. Pursuant to Section 184 of the Criminal Code, it is an offence for any person to knowingly intercept a private communication, which is punishable by a maximum penalty of five years’ imprisonment. Although the concept of “intercepting” generally requires the listening or recording of contemporaneous communication, in R. v. TELUS Communications Co., [2013] 2 SCR 3, unlawful interception was also applied to the seizing of text messages that are stored on a telecommunication provider’s computer. Moreover, under Section 83.2 of the Criminal Code, any person who commits an indictable offence under this or any other Act of Parliament for the benefit of, at the direction of or in association with a terrorist group is guilty of an indictable offence and liable to imprisonment for life. The definition of a “terrorist activity” under Section 83.01 includes an act that causes serious
interference with or serious disruption of an essential service, facility or system, whether public or private, other than as a result of non-violent advocacy, protest, dissent or stoppage of work; this may include “cyberterrorism”.

Under Section 19 of the Information Security Act (R.S.C., 1985, c. O-5), it is also an offence for any person to fraudulently, and without colour of right, communicate a trade secret to another person, or obtain, retain, alter or destroy a trade secret to the detriment of Canada’s economic interests, international relations or national defence/national security. The maximum penalty under Section 19 is 10 years’ imprisonment.

1.2 Do any of the above-mentioned offences have extraterritorial application?

Section 6(2) of the Criminal Code states that “no person shall be convicted … of an offence committed outside Canada”. That said, Canadian courts will exercise jurisdiction over an offence where there is a “real and substantial” link between the offence and Canada; a “real and substantial link” may exist where a significant portion of the activities constituting the offence occurred in Canada (see R. v. Liber, [1985] 2 SCR 178). Because cybercrime takes place online, the location of the server or computer is not always indicative of the location of the crime; therefore, the aforementioned offences may have extraterritorial application depending on the specific circumstances surrounding the relevant offence (i.e., whether there is a “real and substantial link” to Canada).

Also, Section 26(1) of the Security of Information Act considers any person who commits an offence outside Canada to have committed the offence in Canada if the person is: (i) a Canadian citizen; (ii) a person who owes allegiance to Her Majesty in right of Canada; (iii) a person who is locally engaged and who performs his/her functions in a Canadian mission outside Canada; or (iv) a person who, after the time the offence is alleged to have been committed, is present in Canada.

Violations under CASL similarly have the potential for extraterritorial application. Section 12 of CASL applies to all CEMs accessed in Canada, including those sent from another country, and Section 8 prohibits the installation of computer programs without the express consent of the owner or authorised user of a computer system in Canada; this prohibition applies as long as the computer system is located in Canada.

1.3 Are there any factors that might mitigate any penalty or otherwise constitute an exception to any of the above-mentioned offences (e.g. where the offence involves “ethical hacking”, with no intent to cause damage or make a financial gain)?

For criminal offences in Canada, there are no specific factors that would mitigate a penalty. Sentencing for criminal offences is assessed case by case, and Sections 718–718.21 of the Criminal Code provide guiding principles therefor. Some of the more relevant sentencing guidelines set out in the Criminal Code are outlined below.

- Section 718.1: “A sentence must be proportionate to the gravity of the offence and the degree of responsibility of the offender.”
- Section 718.2(a): “A sentence should be increased or reduced to account for any relevant aggravating or mitigating circumstances relating to the offence or the offender.”
- Section 718.21: This Section sets out a list of “additional factors” that courts will consider when imposing a sentence, including the “degree of planning involved in carrying out the offence and the duration and complexity of the offence”.

There are also exceptions established under the Copyright Act that allow for circumvention of technological protection measures under certain circumstances. For example, Section 42(3.1) carves out any person acting on behalf of a library, archive or museum or educational institution from criminal liability for circumventing technological protection measures. Similarly, under Section 41.11, circumvention of technological protection measures is allowed for the purposes of national security.

Section 6 of CASL also provides for exceptions to the prohibition on unsolicited CEMs, including but not limited to messages that are sent by or on behalf of an individual to another individual with whom they have a personal or family relationship, or if the recipient of the communication has given express consent.

2 Cybersecurity Laws

2.1 Applicable Law: Please cite any Applicable Laws in your jurisdiction applicable to cybersecurity, including laws applicable to the monitoring, detection, prevention, mitigation and management of Incidents. This may include, for example, data protection and e-privacy laws, intellectual property laws, confidentiality laws, information security laws, and import/export controls, among others.

The Criminal Code prohibits the unauthorised use of a computer (Section 342.1), the possession of a device to obtain unauthorised use of computer system or to commit mischief (Section 342.2), and mischief in relation to computer data (Section 430(1.1)).

Section 19 of the Security Information Act and Section 391(1) of the Criminal Code also prohibit fraudulently obtaining or communicating a trade secret.

CASL protects consumers and businesses from the misuse of digital technology, including spam and other electronic threats, by prohibiting – in the course of commercial activity – (i) the alteration of transmission data in an electronic message so that the message is delivered to a destination other than or in addition to that specified by the sender (Section 7(1)), (ii) the installation of a computer program on any other person’s computer system without express consent or court order (Section 8(1)), and (iii) the sending of a CEM to an electronic address in order to induce or aid any of the above (Section 9).

Sections 41 and 42 of the Copyright Act provide for civil and criminal remedies related to technological protection measures and rights management information.

There are various privacy statutes in Canada that regulate the way in which PI can be collected, used or disclosed:

- Canada’s federal privacy legislation – the Personal Information Protection and Electronic Documents Act (“PIPEDA”) – applies to private-sector organisations across Canada that collect, use or disclose PI in the course of commercial activity. Federally regulated organisations that conduct business in Canada are also subject to the PIPEDA, including their collection, use or disclosure of their employees’ PI.

- Canada’s federal government has proposed amendments in An Act to enact the Consumer Privacy Protection Act and the Personal Information and Data Protection Tribunal Act and to make consequential and related amendments to other Act (“Digital Charter Implementation Act, 2020”), which seeks to modernise the framework for the protection of personal information in the private sector.

- Alberta, British Columbia and Québec have their own private-sector privacy laws that have been deemed
substantially similar to the PIPEDA. Organisations subject to a substantially similar provincial privacy law are generally exempt from the PIPEDA with respect to the collection, use or disclosure of PI that occurs within that province.

- Québec has proposed significant potential amendments to its privacy laws in the public and private sector through Bill 64, An Act to modernise legislative provisions as regards the protection of personal information. These amendments require certain measures to be taken to protect confidential information stored in electronic documents and format, and set out rules governing the use, retention and transmission of electronic data.

- Ontario, New Brunswick, Nova Scotia and Newfoundland and Labrador have also adopted substantially similar legislation regarding the collection, use and disclosure of personal health information.

The Telecommunications Act (S.C. 1993, c. 38) also sets out regulations that telecommunications service providers must follow that may be applicable to cybersecurity.

2.2 Critical or essential infrastructure and services: Are there any cybersecurity requirements under Applicable Laws (in addition to those outlined above) applicable specifically to critical infrastructure, operators of essential services, or similar, in your jurisdiction?

Many departments and agencies across the Canadian government play a role with respect to cybersecurity in Canada for critical infrastructure and operators of essential services. All of these organisations engage with Public Safety Canada (“PS”); PS is the department responsible for ensuring coordination across all federal departments and agencies responsible for national security and the safety of Canadians and has released guidance on the fundamentals of cybersecurity for Canada's critical infrastructure community (see https://www.publicsafety.gc.ca/cnt/ntnl-sct/crtcl-nfrstrct/index-cn.aspx).

Working with PS, the Communication Securities Establishment (“CSE”) is the technical authority in Canada for cybersecurity and information assurance. Section 76 of the Communications Security Establishment Act (S.C. 2019, c. 13) (“CSE-A”) mandates the CSE to acquire, use and analyse information from the global information infrastructure, or from other sources, to provide advice, guidance and services to protect electronic information and information infrastructures. The CSE guides IT security specialists in the federal government through various IT security directives, practices and standards.

As part of its mandate, the CSE operates the Canadian Centre for Cyber Security and issues alerts and advisories on potential, imminent or actual cyber threats, vulnerabilities or incidents affecting Canada’s critical infrastructure, which includes alerts on cyber threats to Canadian health organisations.

2.3 Security measures: Are organisations required under Applicable Laws to take measures to monitor, detect, prevent or mitigate incidents? If so, please describe what measures are required to be taken.

Yes. Organisations have an obligation under privacy laws in Canada to protect PI; an organisation’s responsibilities include breach reporting, notification, and recording obligations in the event that an incident impacts PI.

For example, the PIPEDA requires organisations to protect PI by implementing security safeguards to protect against loss or theft thereof, as well as unauthorised access, disclosure, copying, use or modification. The nature of the safeguards will vary depending on the sensitivity of the information that has been collected, the amount, distribution and format of the information, and the method of storage. The methods of protection may include technological measures like using passwords and encryption.

Financial regulators in Canada also require or expect certain organisations to monitor, detect, prevent, or mitigate incidents, as detailed below:

- The Office of the Superintendent of Financial Institutions (“OSFI”) issued an updated Technology and Cyber Security Incident Reporting Advisory document, which supports a coordinated and integrated approach to the OSFI’s awareness of, and response to, technology and cybersecurity incidents at Federally Regulated Financial Institutions (“FRFIs”).

- The Investment Industry Regulatory Organisation of Canada (“IIROC”) provides various cybersecurity resources for Dealer Members to follow, including guides to help dealers protect themselves and their clients against cyber threats and attacks. The IIROC has also implemented rules for its Dealer Members to report cybersecurity incidents.

- The Canadian Securities Administrator (“CSA”) issues cybersecurity-related staff notices, including: (i) CSA Staff Notice 11-326 (Cyber Security) to inform issuers, registrants and regulated entities on risks of cybercrime and steps to address these risks; (ii) CSA Staff Notice 11-338 (CSA Market Disruption Coordination Plan) to inform market participants about the CSA’s coordination process to address a market disruption, including one that may stem from a large-scale cybersecurity incident; and (iii) CSA Staff Notice 33-321 (Cyber Security and Social Media) to inform firms on cybersecurity risks associated with social media use. Organisations regulated by the CSA are expected to conduct a cybersecurity risk assessment annually.

- The Mutual Fund Dealers Association of Canada (“MFDA”) provides a Cybersecurity Assessment Program that offers mutual fund dealers assessments of their cybersecurity practices and advice on improving their defences. The MFDA released bulletins on cybersecurity to enhance member awareness and understanding of cybersecurity issues and resources and provide guidance regarding the development and implementation of cybersecurity procedures and controls.

In addition to the foregoing, the Telecommunications Act mandates telecommunications service providers to protect the privacy of their users through the provision of various consumer safeguards.

2.4 Reporting to authorities: Are organisations required under Applicable Laws, or otherwise expected by a regulatory or other authority, to report information related to incidents or potential incidents (including cyber threat information, such as malware signatures, network vulnerabilities and other technical characteristics identifying a cyber-attack or attack methodology) to a regulatory or other authority in your jurisdiction? If so, please provide details of: (a) the circumstances in which this reporting obligation is triggered; (b) the regulatory or other authority to which the information is required to be reported; (c) the nature and scope of information that is required to be reported; and (d) whether any defences or exemptions exist by which the organisation might prevent publication of that information.

Organisations subject to the PIPEDA are required to report to the Office of the Privacy Commissioner of Canada (“OPC”) any breaches of security safeguards involving PI that pose a real risk
of significant harm to individuals. The PIPEDA also requires organisations to keep records of any incident involving loss of unauthorised access to or unauthorised disclosure of PI due to a breach of (or failure to establish) the security safeguards required by the PIPEDA, and prescribes the minimum content for reports to the OPC, including but not limited to:

- a description of the incident;
- the timing of the incident;
- the PI impacted;
- an assessment of the risk of harm to individuals as a result of the breach;
- the number of individuals impacted;
- the steps to mitigate and/or reduce the risk of harm; and
- the name and contact information for a person at the organisation who can be contacted about the breach.

Similar breach reporting and notification requirements are found under other data protection statutes, including private-sector legislation in Alberta, public-sector legislation in the Northwest Territories and Nunavut, and legislation applicable to personal health information custodians in Ontario and Alberta.

Financial regulators such as the CSA, OSFI, IIROC, and MFDA also require the reporting of incidents. These incident reporting obligations generally pertain to any material systems issues, cybersecurity or technology risks and incidents, security breaches, breaches of client confidentiality or system intrusion.

### 2.7 Penalties: What are the penalties for not complying with the above-mentioned requirements?

The OPC has the power to investigate complaints, audit and make non-binding recommendations in response to privacy violations. Upon the OPC’s decision, an application can be made to the Federal Court for damages to complainants. The Attorney General can prosecute an organisation for failure to comply with the breach reporting, notification and recording obligations under the PIPEDA, which can result in fines of up to $10,000 on summary conviction or $100,000 for an indictable offence. Some of the provincial data protection statutes (e.g., in British Columbia and Alberta) also provide for fines of up to $100,000 in the event of non-compliance.

The proposed Digital Charter Implementation Act, 2020 – or any revised version thereof, if passed – may give the OPC new enforcement powers as well, including the ability to make binding orders and have the power to recommend fines to the new Personal Information and Data Protection Tribunal, established by the Personal Information and Data Protection Tribunal Act (not yet passed). This new privacy-focused tribunal would hear appeals from OPC orders and make decisions on whether to issue fines against organisations. Furthermore, the Consumer Privacy Protection Act (not yet passed) would allow the tribunal to impose fines of up to 3% of an organisation's gross global revenue or $10,000,000, whichever is higher. For more egregious offences, the Tribunal can issue fines of up to 5% of an organisation's gross global revenue or $25,000,000, whichever is higher.

Any organisation that makes false and misleading statements concerning consumers’ privacy may also be subject to fines of up to $10,000,000 for a first offence and $15,000,000 for subsequent offences.

Penalties for criminal offences and non-compliance with CASL are described under question 1.1 (under “Phishing”).

### 2.8 Enforcement: Please cite any specific examples of enforcement action taken in cases of non-compliance with the above-mentioned requirements.

The CRTC has taken enforcement action under CASL for violations of Sections 8 and 9, with fines of $100,000 to $150,000 for the unlawful distribution of advertisements through the offending parties’ services.

The OPC regularly investigates incidents involving breaches of PI, including, for example:

- PIPEDA Findings #2021-001 – Joint investigation by the Competition Bureau, an independent law enforcement agency, may also investigate false and misleading statements concerning consumers’ privacy as a violation of the Competition Act.

See also the financial industry-specific regulators described in question 2.3, which regulate compliance with their industry-specific cybersecurity policies, guidelines and requirements.

### 2.6 Responsible authority(ies): Please provide details of the regulator(s) or authority(ies) responsible for the above-mentioned requirements.

The Canadian Radio-television and Telecommunications Commission (“CRTC”), the OPC and the Competition Bureau are respectively mandated to enforce CASL, the CASL-related provisions of the PIPEDA and the CASL-related provisions of the Competition Act (R.S.C., 1985, c. C-34).

The OPC oversees compliance with the PIPEDA. There are certain offences under the PIPEDA that can be prosecuted by the Attorney General. Each provincial regulator is responsible for enforcing their provincial privacy statutes.
**3 Preventing Attacks**

### 3.1 Are organisations permitted to use any of the following measures to protect their IT systems in your jurisdiction (including to detect and deflect Incidents on their IT systems)?

Beacons (i.e. imperceptible, remotely hosted graphics inserted into content to trigger a contact with a remote server that will reveal the IP address of a computer that is viewing such content)

Canadian privacy laws require users to provide consent to and/or be provided with sufficient notice of the collection, use and disclosure of their PI, and an opportunity to withdraw such consent.

The OPC's Guidelines for identification and authentication provide that because devices are usually associated with individuals, the metadata collected from devices through tracking mechanisms (i.e., beacons) can be used to identify an individual without their knowledge. The metadata collected from such devices could include PI, the use of which may be considered surveillance or profiling. It is possible that certain exceptions under Canadian privacy laws may apply to the use of beacons (i.e., Section 7(1)-(2) of the PIPEDA), and use thereof should be evaluated on a case-by-case basis.

Honeypots (i.e. digital traps designed to trick cyber threat actors into taking action against a synthetic network, thereby allowing an organisation to detect and counteract attempts to attack its network without causing any damage to the organisation’s real network or data)

The use of honeypots is not expressly prohibited under applicable Canadian laws and, to our knowledge, there is currently no case law that provides further guidance. That said, the general application of Canadian privacy laws relating to the collection, use or disclosure of PI applies notwithstanding that they may be used defensively. The exceptions above relating to the use of beacons may also apply; however, such exceptions should also be evaluated on a case-by-case basis.

Sinkholes (i.e. measures to re-direct malicious traffic away from an organisation’s own IP addresses and servers, commonly used to prevent DDoS attacks)

The use of sinkholes is not expressly prohibited under applicable Canadian laws and, to our knowledge, there is currently no case law that provides further guidance. That said, the general application of Canadian privacy laws relating to the collection, use or disclosure of PI applies notwithstanding that they may be used defensively. The exceptions above relating to the use of beacons and honeypots may also apply; however, such exceptions should also be evaluated on a case-by-case basis.

Employee monitoring is generally permissible under Canada's privacy legislation, but it must be carried out in compliance with such laws, and for a reasonable purpose, such as preventing, detecting, mitigating and responding to cyberattacks.

Privacy regulators use a reasonableness test set out in Eastmond v. Canadian Pacific Railway, 2004 FC 852, with regard to the collection of employee PI, which can be used in determining the reasonableness of a monitoring programme:

- Can it be demonstrated that monitoring is necessary to meet a specific need?
- Is the monitoring likely to be effective in meeting that need?
- Is any loss of privacy proportional to the benefit gained?
- Could the employer have met the need in a less privacy-invasive way?

Notification must be given for such a monitoring programme; for example, through an employee privacy policy. Monitoring employees in a unionised setting must be in compliance with applicable collective agreements and employee monitoring measures must comply with Canadian labour laws.

### 3.3 Does your jurisdiction restrict the import or export of technology (e.g. encryption software and hardware) designed to prevent or mitigate the impact of cyber-attacks?

Canada has export controls in place to ensure that exports of certain goods and technology (e.g. military and dual-use technologies) are consistent with national foreign and defence policies. The Export and Import Permits Act (R.S.C., 1985, c. E-19) authorises the Minister of Foreign Affairs to issue permits to export items included on the Export Control List or to a country included on the Area Control List, subject to certain terms and conditions. Factors impacting the need for a permit include the nature, characteristics, origin or destination of the goods or technology being exported.

The Department of Foreign Affairs, Trade and Development published a Guide to Canada's Export Control List, which addresses the trade of encryption items – i.e., systems, equipment and components designed or modified to use cryptography for data confidentiality – under Category 5, Part 2: “Information Security”. Due to its inclusion on the Export Control List, encryption or cryptographic technologies require an export permit such as the General Export Permit No. 45 — Cryptography for the Development or Production of a Product (SOR/2012-160).

### 4 Specific Sectors

#### 4.1 Does market practice with respect to information security vary across different business sectors in your jurisdiction? Please include details of any common deviations from the strict legal requirements under Applicable Laws.

Market practices relating to information security usually do not vary substantially across business sectors. Certain sectors have supplementary information security requirements and/or recommendations (see question 4.2). Many organisations will also commit to a higher standard of information security beyond what is strictly required for compliance with sector-specific statutory requirements. For example, payment processors in Canada will usually choose to comply with the Payment Card Industry Data Security Standard (“PCI DSS”), a set of security standards overseen by an independent body, designed to ensure that organisations that accept, process, store or transmit credit card information maintain a secure environment.

The public sector also has specific information security requirements for all levels of government. For example, the Privacy Act (R.S.C. 1985, c. P-21) governs the PI-handling practices of federal government institutions and applies to all of...
the PI that the federal government collects, uses and discloses. Canadian provinces, territories and municipalities have enacted similar legislation regulating the PI-handling practices of government institutions under their respective jurisdictions.

Yes, there are industry-specific requirements relating to cybersecurity in Canada. Financial services providers must comply with federal and provincial laws that include specific provisions dealing with the protection of PI. For example, the Canadian Bank Act (S.C. 1991, c. 46) contains provisions regulating the use and disclosure of personal financial information and, through the enactment of regulations, may mandate Canadian banks to establish procedures for restricting the collection, retention, use and disclosure of personal financial information. Provincial laws governing credit unions also typically contain provisions dealing with the confidentiality of information relating to members’ transactions. In addition, many provinces have laws that deal with consumer credit reporting, and these typically impose obligations on credit reporting agencies to ensure the accuracy and limit the disclosure of information. Financial service regulators have also published various recommendations relating to cybersecurity, including a series of guidelines developed by the Bank of Canada, Department of Finance and OSFI in collaboration with other G-7 partners.

Telecommunications service providers are also obligated to protect the privacy of their users by providing various consumer safeguards under the Telecommunications Act. The Canadian Security Telecommunications Advisory Committee (“CSTAC”), established to support Canada’s National Strategy for Critical Infrastructure and Canada’s Cyber Security Strategy, has published several guidance and best practice documents that telecommunications service providers should follow, including: (i) Security Best Practice Policy for CTSPs; (ii) Critical Infrastructure Protection Standard for CTSPs; (iii) Network Security Monitoring and Detection Standard for CTSPs; (iv) Security Incident Response Standard for CTSPs; and (v) Information Sharing, Reporting and Privacy Standard for CTSPs.

Organisations in both the financial and telecommunication sectors must comply with the PIPEDA, including in relation to requirements regarding the PI of employees since business in both sectors is classified as a “federal work, undertaking or business”.

### 5 Corporate Governance

#### 5.1 In what circumstances, if any, might a failure by a company (whether listed or private) to prevent, mitigate, manage or respond to an Incident amount to a breach of directors’ or officers’ duties in your jurisdiction?

Under Canadian law, directors owe a fiduciary duty to their company to act in its best interests, and to exercise the care, diligence and skill that a reasonably prudent person would exercise in comparable circumstances, and can be liable for failing to satisfy such duty. These duties include an obligation to act prudently in the company’s interests with regard to cybersecurity. Failure to take appropriate action to remedy known cybersecurity concerns that a reasonable person would have remedied could expose directors to personal liability. Directors and officers may also be exposed to personal liability for failures to adequately and truthfully represent an organisation’s cybersecurity measures, or for failures to disclose cybersecurity incidents and risks.

In the event of a breach of duties, a due diligence defence may apply, where the director or officer acted in good faith and at the guidance of professionals. For example, Section 54 of CASL sets out the due diligence defence for certain Sections of CASL, the PIPEDA, and the Competition Act.

Directors or officers may also be found personally liable under provincial privacy legislation as seen, by way of example, in Section 93 of Québec’s Act respecting the protection of personal information in the private sector, C.Q.L.R c. P-39, and Section 64(2) of Manitoba’s Personal Health Information Act, C.C.S.M. c. P33.5.

#### 5.2 Are companies (whether listed or private) required under Applicable Laws to: (a) designate a CISO (or equivalent); (b) establish a written Incident response plan or policy; (c) conduct periodic cyber risk assessments, including for third party vendors; and (d) perform penetration tests or vulnerability assessments?

Under Canadian privacy laws (e.g.: Schedule 1, Principle 4.1 of the PIPEDA; Section 5 of Alberta’s PIP-4; and Section 4 of BC’s PIP-4), organisations are required to appoint an individual, or individuals, responsible for compliance with obligations under the respective statutes, including compliance with requirements relating to security safeguards. As Canadian privacy laws do not specify a particular title, these individuals may, for example, be referred to as the “Privacy Officer” or “Chief Information Security Officer”.

Canadian privacy regulators have issued guidance documents, published findings and provided best practice recommendations for organisations to have established incident response plans and policies in place, conduct cyber risk assessments, and perform penetration tests/vulnerability assessments. While there is no strict requirement to abide by these guidance documents, failing to do so may result in non-compliance with an organisation’s obligations under applicable privacy laws.

#### 5.3 Are companies (whether listed or private) subject to any specific disclosure requirements (other than those mentioned in section 2) in relation to cybersecurity risks or Incidents (e.g. to listing authorities, the market or otherwise in their annual reports)?

Section 45 of Québec’s Act to Establish a Legal Framework for Information Technology, c. C-1.1, requires the disclosure of any creation of a database of biometric characteristics and measurements to the Commission d’accès à l’information.

Other laws within Canada may contain additional disclosure requirements, and organisations should confirm this on a case-by-case basis.

### 6 Litigation

#### 6.1 Please provide details of any civil or other private actions that may be brought in relation to any incident and the elements of that action that would need to be met.

An individual can enforce their rights by making a complaint to any of the privacy regulatory authorities mentioned in question 2.6 (or any other regulator discussed in this chapter). A
complaint may be made relating to an organisation’s failure to comply with any of its statutory obligations to collect, use and disclose personal information in accordance with the principles of fair information practices set out in Canada’s privacy legislation:
- accountability;
- identifying purpose;
- consent;
- limiting collection;
- limiting use, disclosure and retention;
- accuracy;
- safeguards;
- openness;
- individual access; and
- challenging compliance.

These authorities are generally required to investigate any such complaint.

Under the PIPEDA, a formal complaint must be investigated, and the OPC will issue a report outlining the findings of the investigation and any recommendations for compliance. The report may be made public at the discretion of the OPC. The complainant, but not the organisation subject to the complaint, may appeal to the Federal Court. The Court has broad authority, including the authority to order a correction of the organisation’s practices, and award monetary damages.

Under Alberta’s PIPA and BC’s PIPA, an investigation may be elevated to a formal inquiry by the Commissioner and result in an order. Organisations are required to comply with the order, or apply for judicial review, within a prescribed time period. Similarly, under Quebec’s PIPA, an order must be obeyed within a prescribed time period. An individual may appeal to a judge of the Court of Quebec on questions of law or jurisdiction with respect to a final decision.

Additionally, class action lawsuits may be filed in Canada in the aftermath of an incident that results in the breach of personal information. The most common causes of action advanced in class actions are:
- breach of confidence;
- breach of contract;
- breach of fiduciary duty;
- breach of Section 7 of the Canadian Charter of Rights and Freedoms;
- breach of the PIPEDA or the Privacy Act;
- breach of provincial privacy legislation;
- invasion of privacy:
  - intrusion on seclusion; and
  - publicity to private life (public disclosure of embarrassing private facts);
- negligence; and
- unjust enrichment.

The invasion of privacy torts is relatively new in the Canadian legal landscape. The tort of intrusion on seclusion was recognised in the Ontario Court of Appeal case Jones v. Tige, 2012 ONCA 32. The tort of public disclosure of embarrassing private facts was recognised by the Ontario Superior Court in June Doe 464533 v. ND (June Doe), 2016 ONSC 541.

The legal test for the tort of intrusion on seclusion requires objective proof that the alleged invasion of privacy would be highly offensive to a reasonable person.

The legal test for the tort of public disclosure of private facts requires proof that the matter publicised (the private facts) or was an act of publication: (a) would be highly offensive to a reasonable person; and (b) is not of legitimate concern to the public.

In Chitrakar v. Bell TV, 2013 FC 1103, the Federal Court awarded the plaintiff over $20,000 in damages following a privacy violation by Bell TV, a telecommunications company. The Court held that Bell had failed to comply with its obligations pursuant to the PIPEDA by conducting a credit check without the plaintiff’s prior consent. Prior to this decision, the federal Privacy Commissioner had found that the plaintiff’s privacy rights were violated under the PIPEDA.

In Kanisk v. Yahoo! Inc., 2021 ONSC 1063, the Ontario Superior Court approved a class action settlement against Yahoo! relating to cyberattacks against Yahoo! by unidentified attackers that resulted in the exposure of personal information of 5 million Canadians. The certified issues for settlement included negligence in failing to take reasonable steps to establish, maintain, and enforce appropriate security safeguards, and negligence in failing to notify the Class Members about the incidents. In this decision, the Court undertook a deep analysis of the state of law for privacy class actions. The decision reflects the fact that while most privacy related class action cases are certified, none have gone to trial and per capita settlement amounts tend to be extremely low. As noted by the Court, “it will take a trial decision awarding more than notional-nominal general damages” to change the landscape.

6.3 Is there any potential liability in tort (or equivalent legal theory) in relation to failure to prevent an incident (e.g. negligence)?

Yes. In past class action lawsuits, representative plaintiffs have alleged various torts, including negligence in failing to prevent an incident. There have been no trial determinations for privacy class actions in Canada, though settlement approval decisions suggest that grounds exist to award damages on this basis.

7 Insurance

7.1 Are organisations permitted to take out insurance against incidents in your jurisdiction?

Yes, organisations are permitted to take out insurance against incidents. Many commercial insurers offer specialised cybersecurity insurance. This can be in the form of third-party liability coverage or first-party expense coverage, or both.

7.2 Are there any regulatory limitations to insurance coverage against specific types of loss, such as business interruption, system failures, cyber extortion or digital asset restoration? If so, are there any legal limits placed on what the insurance policy can cover?

No, there are no regulatory limitations.

8 Investigatory and Police Powers

8.1 Please provide details of any investigatory powers of law enforcement or other authorities under Applicable Laws in your jurisdiction (e.g. antiterrorism laws) that may be relied upon to investigate an incident.

Canada’s Privacy Commissioners have broad powers under privacy statutes to investigate complaints, issue reports, compel
the production of evidence, issue monetary penalties and make recommendations or initiate audits.

Similarly, the CRTC has a broad range of investigative powers available under CASL. In addition to issuing monetary penalties, it may execute search warrants and seize items, as well as obtain injunctions (with judicial authorisation) against suspected offenders.

Local police, provincial police, and the Royal Canadian Mounted Police, along with the national security apparatus (e.g., the CSE and the Canadian Security Intelligence Service) all have broad powers to investigate criminal activities relating to cybersecurity, including terrorism offences.

8.2 Are there any requirements under Applicable Laws for organisations to implement backdoors in their IT systems for law enforcement authorities or to provide law enforcement authorities with encryption keys?

No. However, all of Canada’s privacy statutes permit an organisation to disclose personal information without consent, where the disclosure is to a law enforcement agency in Canada and concerns an offence under Canadian law.

Under Québec’s PIPA, an organisation may refuse to communicate personal information to the person in respect of whom the information relates, where such disclosure would be likely to hinder an investigation in connection to a crime or a statutory offence, or affect judicial proceedings in which the person has an interest.

Pursuant Section 27(2) of the CSEA, the CSE may be authorised by the designated federal minister to access any non-federal infrastructure that is of importance to the government of Canada, and acquire any information originating from, directed to, stored on or being transmitted on or through that infrastructure for the purpose of helping to protect it, in the circumstances described in paragraph 184(2)(e) of the Criminal Code, from mischief, unauthorised use or disruption.
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Baker McKenzie acts for many of the world’s and Canada’s largest multi-nationals, offering first-class domestic and cross-border legal advice on a range of business issues. With over 50 years of experience in the Canadian market, we are committed to helping clients fulfil their ambitions in an increasingly complex global marketplace.

Our Intellectual Property & Technology Practice Group is well known for developing and implementing strategies/programs to help clients efficiently navigate the Canadian and global regulatory landscape, as it pertains to issues that regularly arise across technology verticals. Our lawyers have expertise in a broad range of issues faced by industry participants, including intellectual property protection, data privacy, data security, cross-border data transfers, etc.

Our Litigation team has extensive experience in disputes focused on technology, media and telecommunications issues. Consistently top-ranked by leading market surveys, Baker McKenzie’s commercial litigation practice represents clients in complex multi-jurisdictional litigation involving novel and precedent-setting issues.

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