

Master Class: Data Breach Compliance and Preparedness

Presented by: Davis Pulikottil

Mar-18

Compliance, Protection & Business Confidence

Sense of Security Pty Ltd ABN 14 098 237 908 **Sydney** Level 8, 66 King Street Sydney NSW 2000 Melbourne Level 15, 401 Docklands Drive Docklands VIC 3008

Tel. 1300 922 923 Intl. +61 2 9290 4444 www.senseofsecurity.com.au J @ITSecurityAU

Sense of Security - Company Overview





CONSULTANCY A pure-play consultancy business in Information Security and Risk Management since 2002



INTELLECTUAL PROPERTY

Our knowledgebase, methodologies and security standards



RESEARCH Threat Intelligence -Vulnerability Research



APPROVALS

CREST approved

Supported by the Commonwealth of Australia's AG's Department Recommended by the Department of the Prime Minister and Cabinet

PCI SSC ENDORSEMENT

SOS is a Qualified Security Assessor Company (QSAC) endorsed by the Payment Card Industry Security Standards Council (PCI SSC) to perform PCI DSS assessments

CERTIFICATION

Sense of Security has been awarded ISO 27001:2013 certification









DAVIS PULIKOTTIL Practice Manager GRC, Sense of Security

Davis is a security professional with over 12 years of experience. He specialises in compliance, governance, risk assessment, application security solutions, penetration testing, security assurance, and identity and access management. He has extensive experience with the financial, government, healthcare, telecommunication and utilities sectors and provides valuable insight into cybersecurity risk.

Davis is an innovative and adept information security practitioner having successfully delivered information security assurance and identity and access management engagements to global clients across four different continents. He has delivered unique technical training sessions to analysts and mentored security professionals to improve skills in identifying advanced and targeted threats.

As the SOS GRC Practice Manager, Davis is involved in management of the overall practice, and is also a contributor as a senior consultant on many important client engagements.







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What is Cyber Resilience





ASIC defines Cyber Resilience as:

Ability of organisation to prepare for, respond to and recover from a cyber attack.

What is Cyber Resilience





There is simply no such thing as 100% cyber security



Source: https://i.pinimg.com/736x/f1/aa/94/f1aa949b7fd798aabafb3eab0a60dd7f--medusa-fortune.jpg. Source: http://www.taggerd.su/files/files/securityseal-green-602x577.jpg

What is Cyber Resilience



As well as being focused on preventing cyber attacks, organisations need also have strategies in how they respond to attacks when they occur, and how they recover from attacks



Source: https://i2.wp.com/comingclean.tech/wp-content/uploads/2017/01/recovery.jpg?resize=300%2C154



Cost of Cyber Attack



Indeed, there have been a recent string of high-profile cyber-attacks against Australian and global organisations.



Source: http://www.abs.gov.au/. Source: http://www.bom.gov.au/. Source: https://www.ashleymadison.com/. Source: https://www.redcross.org.au/



Cost of Cyber Attack



One of the most costly attacks was the hack of Yahoo. Shortly after Verizon announced its US \$4.83 billion acquisition of the firm, Yahoo revealed that years earlier it had been subject to a massive cyberattack causing the privacy of more than one billion accounts breached. This resulted in the re-opening of negotiations and ultimately Yahoo agreed to drop the purchase price on the deal by US \$350 million.

Source: https://media.shellypalmer.com/wp-content/images/2016/02/yahoo-compressor.jpg



- Digital economy is key to Australia's future
- Australian businesses are continually increasing their investment in digital technologies



Source: http://alexmooremedia.com/alexander-moore-digital-media-3-key-members/



- With the advent of the digital economy, the risks that come with a cyber-attack run through every part of an organisation
- Australia simply cannot succeed in this new digital world if our organisations are not cyber resilient



Source: http://alexmooremedia.com/alexander-moore-digital-media-3-key-members/



Importance of Cyber Resilience

Increasingly, a business' value is tied up in its intellectual property assets, including data. This is particularly true for organisations that operate online or in the service and retail sector.

Source: https://qph.ec.quoracdn.net/main-qimg-e6f14b193618f37b42f2b79d7d3dd60

Importance of Cyber Resilience





Importance of Cyber Resilience





Cyber resilience is just as important for businesses with traditional models.

For example, mining and construction companies are increasingly connected to the internet as plant and machinery is switched on to the Internet of Things (IoT)

Source: https://static01.nyt.com/images/2015/06/24/technology/24bitsmckinsey/24bits-mckinsey-blog480-v2.jpg

Cyber Resilience Challenges for IOT





IoT connected devices have the capacity to autonomously input, communicate, analyze and act upon information. While IoT technology increases productivity and control, it will also bring new challenges for businesses that have not previously had to consider cyber security as a significant risk.

Source: <u>http://files.constantcontact.com/a0e91b5a501/f8c9b777-d048-4d09-9709-</u>6ef55a7eff44.png?a=1128507084884







Source: <u>https://stackify.com/wp-</u> <u>content/uploads/2017/03/How_to_Write_Test_Cases</u> <u>-1-793x397.jpg</u>







Coffee Break 30:00



Measurement of Cyber Resilience





Cyber Resilience Framework

Cyber resilience framework should be based on recognized security standards such as ISO/IEC 27001, NIST Best practice requires that the framework take a threat-based approach and identify which assets matter most to the business and what is most likely to be targeted

Objective of Framework

Understand effectiveness of governance processes on how business is addressing cyber risks

Awareness of the Board and senior executives on cyber security risks and opportunities

Assist in identifying areas of improvement

Benchmark security maturity against similar organisations



Measuring Cyber Resilience



Based on Cyber Health Check Survey developed by Australian Securities Exchange (ASX) and Australian Securities and Investment Commission (ASIC)

Source: https://thenounproject.com/term/bomb/228847/. Source: https://thenounproject.com/term/awareness/30176/.



Information Gathering Methods

- Interviews with members of the Board or Executive Management Team members.
- Review documentation provided supporting cyber health check survey responses.

Health Check Rating

- Health check rating is assigned to the survey questions.
- Ratings are in the range 1-5, 5 being the best response to a given question.
- Ratings are as follows:









Source: <u>https://www.opp.com/-/media/Images/Content-</u> images/Consultancy/PeopleAssessment_Assessment_centres.gif?la=en&h=229&w=460&hash=F750A08B42FD136C27 <u>5E036E49482D3F7694DE90</u>

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Level of Cyber Incident preparedness



Level of protection of customer data

Source: <u>https://irishtechnews.ie/171000-irish-firms-could-be-vulnerable-to-cyber-attacks-survey/</u>. Source: http://www.wealthengine.com/resources/blogs/top-5-essential-customer-data-points



Regulates how personal information is handled. It defines **personal information** as:

...information or an opinion, whether true or not, and whether recorded in a material form or not, about an identified individual, or an individual who is reasonably identifiable.

Common examples:

Individual's Name	Telephone Number	Bank Account Details
Signature	Date of Birth	Commentary/Opinion
Address	Medical Records	



Australian Privacy Principles (schedule 1 of the Privacy Act 1988) outline how (APP entities) must handle, use and manage personal information.

- Most Australian and Norfolk Island Government agencies
- All private sector and not-for-profit organisations with an annual turnover of more than \$3 million
- All private health service providers and some small businesses

Source: https://images.campgroundsigns.com/img/lg/K/Private-Sign-K-5382.gif





The Act also regulates the privacy component of the

- Consumer credit reporting system
- Tax file numbers
- Health and medical research.



Notifiable Data Breaches scheme (under Part IIIC of the Act) establishes requirements for entities in responding to data breaches

Privacy Regulations (The Governor-General may issue regulations under s 100 of the <u>Privacy Act 1988</u>)

Source: https://www.crowdfundinsider.com/2015/10/75227-crowdfunding-site-patreon-gets-hacked-personal-data-accessed-but-no-credit-card-info-taken/



- Established by Privacy Amendment (Notifiable Data Breaches) Act 2017
- Under Part IIIC of the Privacy Act 1988
- Establishes requirements for entities in responding to data breaches
- Applies to only eligible data breaches that occur on or after specified date
- Applies to all agencies and organisations with existing personal information security obligations under the Australian Privacy Act 1988



Source: https://www.reveantivirus.com/blog/wp-content/uploads/2016/12/databreach.jpg



- Obligation to notify individuals whose personal information is involved in a data breach that is likely to result in serious harm
- Notification must include recommendations about the steps they should take in response to the breach
- Australian Information Commissioner must also be notified of eligible data breaches
- Lodge their statement about an eligible data breach to the Commissioner through the Notifiable Data Breach statement form
- Agencies and organisations must be prepared to conduct a quick assessment of a suspected data breach to determine whether it is likely to result in serious harm, and as a result require notification





Eligible data breach arises when the following three criteria are satisfied:

- 1. There is unauthorised access to or unauthorised disclosure of personal information, or a loss of personal information, that an entity hold.
- 2. This is likely to result in serious harm to one or more individuals.
- 3. The entity has not been able to prevent the likely risk of serious harm with remedial action.

Examples:

- A device containing customers' personal information is lost or stolen
- A database containing personal information is hacked
- Personal information is mistakenly provided to the wrong person



- NDB scheme provides the opportunity to take positive steps to address a data breach in a timely manner and avoid the need to notify.
- If an entity takes remedial action such that the data breach would not be likely to result in serious harm, then the breach is not an eligible data breach for that entity or for any other entity.
- For breaches where information is lost, the remedial action is adequate if it prevents unauthorised access to, or disclosure of personal information.
- If the remedial action prevents the likelihood of serious harm to some individuals within a larger group of individuals whose information was compromised in a data breach, notification to those individuals for whom harm has been prevented is not required.





- Strengthens the protections afforded to everyone's personal information
- Improves transparency in the way organisations respond to serious data breaches
- Greater community confidence that personal information is being protected
- Encourages a higher standard of personal information security across Australia
- Provides individuals with the opportunity to take steps to minimise the damage





Who Must Comply With the NDB Scheme

Agencies and organisations that the Privacy Act requires to take steps to secure certain categories of personal information includes:

Australian Government Agencies	TFN recipients, among others	
Credit reporting bodies	Health service providers	
Business and not-for- profits organisations with an annual turnover of \$3M or more		



When entities hold personal information jointly



- Data breach of one entity will also be considered data breach of others
- Both entities are generally responsible for complying with the NDB scheme
- Scheme contains a number of mechanisms to avoid duplicate obligations
- Compliance by one entity will also be taken as compliance by other entities
- Scheme leaves it up to the entities to decide which of them should do so



An entity is taken to 'hold' personal information if it has possession or control of a record that contains personal information. 'Holds' extends beyond physical possession of a record to include a record that an entity has a right or power to deal with.

Examples:



Source: <u>https://www.ibm.com/cloud/</u>. Source: <u>https://logo.designcrowd.com/contest.aspx?id=1083249</u>. Source: <u>https://www.visa.com.au/</u>. Source: <u>http://sinclairlawofficepc.com/sample-page-2/mastercard-logo-400x400/</u>. Source: https://www.google.com.au/



Generally, both entities are responsible for complying with the NDB scheme





Allocation of responsibility for compliance



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What to include in data breach statement

Entities are to prepare a statement and provide a copy to the AIC as soon as practicable The OAIC has an online form for entities to lodge date breach statements which includes



Name and contact details of the entity



Description of the eligible data breach



Kinds of information involved



Steps recommended that individuals at risk of serious harm take

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- 1. Reason to suspect a serious breach: Resolve that suspicion by assessing whether an eligible data breach has occurred.
- 2. There has been an eligible breach: Promptly comply with the notification requirements.
- 3. A person with appropriate seniority is aware: An assessment should be done.
- 4. Should not unreasonably delay an assessment until its CEO or Board is aware of information.
- 5. Should have practices, procedures, and systems in place to comply with information security obligations under APP 11, enabling suspected breaches to be promptly identified, reported to relevant personnel, and assessed if necessary.









- ✓ All reasonable steps to complete the assessment within 30 calendar days after the day the entity became aware of the grounds that caused it to suspect an eligible data breach.
- ✓ Because the risk of serious harm to individuals often increases with time.
 - Where an entity cannot reasonably complete an assessment within 30 days, it should document this, so that it is able demonstrate:
 - that all reasonable steps have been taken to complete the assessment within 30 days
 - \circ the reasons for the delay
 - \circ that the assessment was reasonable and expeditious.

Source: <u>https://i1.wp.com/www.songsforyourspirit.com/wp-</u> content/uploads/2017/09/LinkedInCalendar.jpg?zoom=2&resize=2000%2C1200

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Notifying individuals about eligible data breach





Role of Australian Information Commissioner



- Receiving notifications of eligible data breaches
- Encouraging compliance with the scheme, including
 - by handling complaints,
 - conducting investigations, and
 - taking other regulatory action in response to instances of non-compliance
- Offering advice and guidance to regulated entities, and providing information to the community about the operation of the scheme.





Time for Lunch









Source: https://static1.squarespace.com/static/56a5927b7086d7ad1b2b88f7/t /56ab5dfc76d99c66d1cf4d6d/1454071303188/training?format=750w







Level of Cyber Incident preparedness

Level of protection of customer data

Source: <u>https://irishtechnews.ie/171000-irish-firms-could-be-vulnerable-to-cyber-attacks-survey/</u>. Source: <u>http://www.wealthengine.com/sites/default/files/styles/post/public/image/blog-customer-data-points.png?itok=-Td-wkzw</u>



Incident Reponses





Incident handling



Log in to your 2016 Census

Thank you for participating in the Census. The system is very busy at the moment. Please wait before trying again. Your patience and cooperation are appreciated. [code 9]

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Cyber criminals are becoming successful - sophisticated, frequent

Not enough to Defend but to Mitigate consequences of cyber attack

Effective Plan to be developed to mitigate the impact





Source: http://www.sixteenmarc.com/uploads/4/3/8/8/43888015/editor/100410-200.png?1504397146





IR plans are not operationalized due to poor design or implementation

Generic and not specific for specific crisis Integration across business units do not exists Decision making is done by few people which results in single point of failure



Methodology



IR Capability Assessment







Incident Response steps





Incident Response Workflow



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Communication with External Parties







Incident Response and Data breach



Source:

https://static.ffx.io/images/\$zoom 1%2C\$multiply 0.7619047619047619%2C\$ratio 1.77778%2C\$widt h 1008%2C\$x 0%2C\$y 61/t crop custom/t sharpen%2Cq auto%2Cf auto/474052975e99159410c67f 49acd61c85ba6df62e

Cyber, The Fast Moving Target



CYBER FUN FACTS

PUTTING CYBER INTO CONTEXT

THE EXTENT OF THE THREAT



"Organisations that are attacked once are three more times likely to be attacked again." Tim Fitzgerald, Symantec Global Chief Security Officer



the criminals accessed the company's pointof-sale database via their Air con system. Cybercrime is now the NUMBER ONE ECONOMIC CRIME in Australia, according to PWC.



IN APRIL 2016 US President Barack Obama has for the second year declared a national emergency in cyberspace.



CYBER FUN FACTS

IMPACT OF A CYBER EVENT





Cyber policies are most evolved in the healthcare, retail, and finance sectors – eight claims of over \$U\$75 million were paid out in those sectors.

OF AUSTRALIANS

said they would stop dealing with an organisation if their data was breached.



The new mandatory data breach notification law requires organisations to report the compromise of as little as **ONE DATA RECORD.**



Many analysts believe that in mid-2016 total costs from the Target breach had exceeded **1 BILLION DOLLARS US.**



2017 Cyber top 5 Exposure Trends





Cyber Liability - Top Facts



Data is one of your most important assets yet it is not covered by standard property insurance policies



Systems are critical to operating your day to day business but their downtime is not covered by standard business interruption insurance



Cybercrime is the fastest growing crime in the world and there are gaps in conventional Crime insurance



Reliance upon Cloud and other providers does not eliminate your exposure to Cyber risk



Third party data is valuable and you can be held liable and face penalties if you lose it







Complying with data breach notification and privacy laws costs time and money



Your reputation is your number one asset: how will you manage the fall out of a Cyber event?



Flexible working and BYOD increase the risk of hacking, loss and theft



Social media and Internet of Things (IOT) usage is at an all-time high



Cyber criminals are targeting organisations of all sizes and across all industries





Cyber Resilience **Solutions Framework**

Identifying and protecting your critical assets by aligning your cybersecurity strategy with your corporate culture and risk tolerance.



Our Approach

an Aon company

We collaborate to understand both your near- and long-term business priorities, how we can add value to your organisation, and help you respond to changing market dvnamics.

We jointly author a plan to define how we will work together, outline our commitments to you, and define how we will measure our success.

We seek your input on how we are doing both through informal feedback sessions and annual surveys.

We follow through on our plan, executing with excellence and tracking outcomes.



Cyber Insurance: setting the scene



- GWP of circa. \$60m
- Substantial growth in the number of policyholders
- Underwriting appetite mixed e.g. Education / Govt. / Financial Institutions / Healthcare / On-Line Retail
- Circa. \$100m of capacity without off-shore support
- Bifurcated market: 1) SME (commoditised) and 2) "Corporates" / "more complex risks"
- <5% of companies buy cyber insurance



- **GWP** of circa. US\$4 billion (PWC estimate US\$5.6 billion US only by 2018)
- Split: North America 88%, 7% EMEA, 4% APAC & 1% LATAM
- Global capacity circa. US\$1b+ (direct)
- Aon-sponsored Ponemon Institute study:
 - >2000 respondents, 37 countries
 - Organisations buy insurance to cover just over half (51%) of the MPL of Tangible Property risks but only 12% of the probable maximum loss of Information Assets = underinsurance
- >45% of companies buy cyber insurance







Cyber risk analysis: what are your key vulnerabilities?





Privacy Act February 2018 – Mandatory data breach notification

- Organisations are required, as of the 22nd February 2017 to notify the OAIC (Privacy Commissioner) and those affected by any data loss/breach
- This is within 30 days after the entity has become aware that there are reasonable grounds to believe that there has been an eligible data breach
- > The information that must be included in the notification:
 - > the identity and contact details of the entity
 - > a description of the serious data breach
 - > the kinds of information concerned
 - recommendations about the steps that individuals should take in response to the serious data breach
- Minimum threshold for eligibility under the Privacy Act is AUD 3 million annual revenue (with certain exceptions, e.g. healthcare)
- > Fines are decided case-by-case but maximum is 2.1 million / breach!













The New Data Breach Notification Laws



and processes

Containment of breach

AON Empower Results®





December 2017 Update

Updated fact sheets

Areas of updated guidance

- Identifying eligible data breaches
- ✓ Information held jointly
- ✓ Notification
- Eligible data breach statements
- ✓ OAIC role in NDB scheme







What entities are covered?

APP Entities who have obligations under the Privacy Act including:



Federal Government agencies



Certain other organisations

- Private sector health service providers
- Credit reporting bodies
- > Credit providers
- Entities that trade in personal information
- TFN Recipients





Businesses and NFP organisations with annual turnover >\$3m



Powers of the Office of the Australia Information Commissioner









Litigation Risk



- Class Actions
- Interest from plaintiff law firms following US experience

- D&O Risks
- Oversight from the board in relation to compliance




Useful Resources

- Privacy Amendment (Notifiable Data Breaches) Act 2017: https://www.legislation.gov.au/Details/C2017A00012
- OAIC Notifiable Data Breaches Scheme website: <u>https://www.oaic.gov.au/privacy-law/privacy-act/notifiable-data-breaches-scheme</u>
- Data breach response plan: <u>https://www.oaic.gov.au/about-us/corporate-information/key-documents/data-breach-response-plan</u>
- Entities covered by the NDB Scheme: <u>https://www.oaic.gov.au/privacy-law/privacy-act/notifiable-data-breaches-scheme/entities-covered-by-the-ndb-scheme</u>
- Assessing a suspected data breach: <u>https://www.oaic.gov.au/privacy-law/privacy-act/notifiable-data-breaches-scheme/assessing-a-suspected-data-breach</u>
- OAIC's role in the NDB Scheme: <u>https://www.oaic.gov.au/privacy-law/privacy-act/notifiable-data-breaches-scheme/australian-information-commissioner-s-role-in-the-ndb-scheme</u>
- Notifying individuals about an eligible data breach: <u>https://www.oaic.gov.au/privacy-law/privacy-act/notifiable-data-breaches-scheme/notifying-individuals-about-an-eligible-data-breaches-scheme/notifyin</u>



New versions of old threats - WannaCry, Adylkuzz & NotPetya

- > Ransomware and digital currency mining attached to a self-propagating worm
- > Does not require human intervention/assistance to infect vulnerable systems
- Massive attack footprint, 300k+ WannaCry and reputed 500k+ Adylkuzz, that we know about
- The exploit used to spread the worm was developed buy the NSA for surveillance and stolen by a hacking Group called the Shadow Brokers
- > There are reputedly 149 tools from the NSA hoard that are for sale on the dark web
- Security researchers anticipate that there will be many more and varied cyber incidents (e.g. IoT, IIoT) on the way.
- > Very high vigilance is suggested, especially around patch management
- NotPetya "Destruction of Service"

http://aon.com.au/cyber





OAIC Guide - Data breach preparation & response



"Your actions in the first 24 hours after discovering a data breach are often critical to the success of your response..."



"You should create and test your plan before a data breach occurs..."

"Response team membership: ensure that the relevant staff, roles and responsibilities are identified and documented..."



Aon Risk Solutions | Cyber Risk Proprietary & Confidential

Case Studies – Red Cross Blood Service – Well Handled

- Largest Australian potential data breach ever recorded
- >550,000 personal data records >2% of Australian population
- Records were obtained from a vulnerable third party web server where the last 6 years of online applications were stored
- The ARCBS had an incident response plan linked to cyber insurance
- General consensus is the incident was handled exceptionally well
- A solid & tested incident response plan is the only way to reduce the reputational damage that can be caused by a cyber incident















Source: <u>http://timothykurek.com/wp-</u> <u>content/uploads/2017/10/automatic-deductions-</u> <u>for-meal-breaks-and-the-law-what-you-need-on-</u> images-for-lunch-break.jpg

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Increased cost of non compliance Everchanging laws

Diversified sources

Growing saturation of technology



Reduced boundaries Continuous innovation – cloud, IOT

Immature processes Corner cutting to meet speed targets

Inadequate tools Failure to upgrade technology

Unaware users Lack of training

Consequence of data loss





Data breach on product or services may be perceived by customers as not being secure. Users and customer may stop using the product or services



Inability to protect the intellectual property rights could reduce the value of the product, service and the brand



Reputational damage due to privacy concern related to the technology.

Source: <u>https://blog.ipleaders.in/wp-content/uploads/2016/09/metal-plating-effect-patented-696x696.jpg.</u> Source: https://www.negocio.me/img-contenido/img-789/comu.jpg



Essential Steps for Protection of data



Prevention Encryption **AWARENESS** ACCESS loa MALWARE **Firewall**

Source: https://i1.wp.com/www.fryborg.com/fryborg/wpcontent/uploads/2014/08/hands.png?w=480



Data Protection Technics for Cloud Apps

Audited to detect shadow data and shadow IT

Scan all files that are uploaded and downloaded from the cloud

Content inspection of data in cloud apps

Sharing and access right of cloud apps

User behaviour monitoring and analysis



Security assessments-Pen testing, Vul scanning, configuration review, source code review etc.

Compliance auditing

Automated Self healing



Source: https://qtxasset.com/styles/breakpoint | 640px_w/s3fs/2016-07/Cloud%20computing%20use%20sparingly.jpg?IU7wULk5hwY_wcTnUhSwV1W.gfdf1425&itok=gWsXwAMd



European Union General Data Protection Regulation (GDPR)

control

eturn

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tion

stection

Primary objective: Assurance to EU citizens that their personal data are processed in a secure environment

> Does not require any enabling legislation to the passed by national governments; thus it is directly binding and applicable

Apply to organisations that are not part of EU but collect and/or process personal data of EU residents

> Will take into effect in May 2018

Non-compliance can result in severe penalties of up to 4 percent of worldwide turnover or upper limit of 20 million euro whichever is higher

Source: http://hlb-poland.com/hlbpoland-news/important-dataprotection-act-2018-amendment-areyou-aware/

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Facts about GDPR

Data subjects have the following rights

Right to be forgotten/erasure Right to access Right to rectification Right to object





Thank You!

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Sense of Security Pty Ltd ABN 14 098 237 908 **Sydney** Level 8, 66 King Street Sydney NSW 2000 **Melbourne** Level 15, 401 Docklands Drive Docklands VIC 3008 Tel. 1300 922 923 Intl. +61 2 9290 4444 www.senseofsecurity.com.au

