BreastScreen Victoria

Data breach and cyber disruption – preparing for the inevitable

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What do we mean?

Cyber security

Measures used to protect the confidentiality, integrity and availability of systems and data

System

A related set of hardware and software used for the processing, storage or communication of information and the governance framework in which it operates.

Australian Cyber Security Centre (ACSC)

Source - https://www.cyber.gov.au/learn-basics/view-resources/glossary Accessed 14 Mar 2024

Why?

- Reputation – trust
- Service continuity – Business disruption
- Information security - Data breach
- Compliance
- Funding

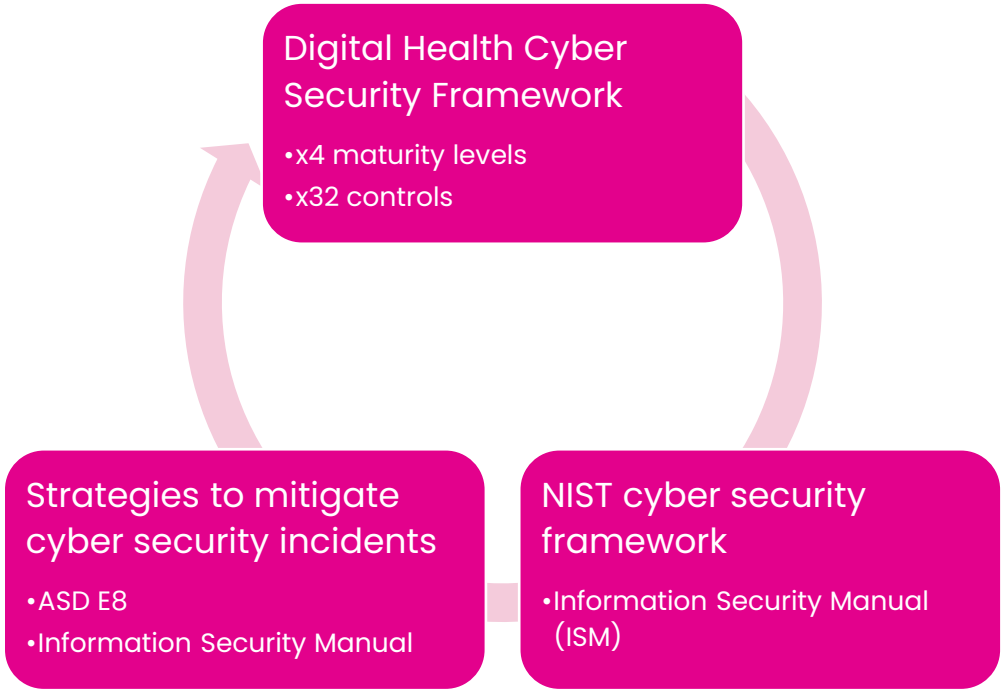
How did BSV approach?

Continuous quality improvement

1. Framework selection & adoption
2. Program overview - inception to operationalisation
    - Cyber simulation exercises
    - Data at rest self-assessment
    - Vendor security assessment
3. Access to expertise

Framework

Best practice - evidence informed



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Program overview

2017-18

- BSV Strategic priority
- Framework selection
- Independent review framework self-assessment & practice

2019-20

- Cyber security improvement project approved to uplift technology and capability; and provide assurance
- Joined Digital Health Cyber Security Program incl Annual self assessment

2021-23

- Audit self-assessment
- Annual self-assessment submission > 'live'
- Project > Program

Cyber security simulation exercises

Develop confidence – face fear

What

- Practice response to a cyber security incident – evolving process

Who

Decision makers (or delegates)

- Client engagement
- Clinical
- Communications
- Financial
- Governance & risk
- IT

When

- As often as you can afford

How

- Engage a third party – big four versus specialist
- 1-2 people to plan detail -realistic
- All in a room

Cyber security simulation exercises

Why?

- Practice
- Evaluation
    - People
    - Process
    - Systems (technology)
- Actions

Data at rest

Develop confidence – know where your data is stored

What

- Information that resides on media or a system – saved file, extract, system generated

When

- Establish a baseline and review periodically, consider audit

How

- Desktop exercise - DIY v engage a third party
- List all your software
- Approach your subject matter experts
- Approach your vendors
- Document the information stored – data elements, data collection period (start/end), classify the type and sensitivity of the data stored
- Assess risk – people, process, technology
- Consider a product owner

Data at rest

Why?

- Know where your data is stored
- Assess risk
- Training - gaps
- Ways of working

Vendor security

Develop confidence – understand your vendors approach

What

- Vet your vendors

When

- Every new software or hardware purchase (including services)

How

- Choose a framework
- Desktop exercise - DIY v engage a third party
- Document information flow and stored
- Assess risk – people, process, technology
- Consider a product owner

Why

- Know where your data is stored
- Assess risk – does the benefit of engaging this vendor exceed the risks? Are there sufficient controls in place – people, process, technology, compliance

Access guidance & expertise

- Australian Signals Directorate
  Australian Cyber Security Centre
- National Institute of Standards and Technology – Cyber Security
- ISO standard - Information security, cybersecurity and privacy protection (ISO/IEC 27001:2022)
- Department of Health
- Big four / Specialists
- CISO or vCISO

ASD AUSTRALIAN SIGNALS DIRECTORATE
ACSC Australian Cyber Security Centre

NIST National Institute of Standards and Technology
U.S. Department of Commerce

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Conclusion

- Conduct a cyber simulation exercise
- Build an inventory of where your data is being stored (and ideally how it moves around)
- Understand what data your vendors are storing and their approach to information security