



Australian Government
Australian Signals Directorate

ACSC Australian
Cyber Security
Centre



CYBER INCIDENT RESPONSE PLAN

GUIDANCE

cyber.gov.au

Context

The Australian Government defines cyber security as measures used to protect the confidentiality, integrity and availability of systems and information. A cyber incident is an unwanted or unexpected cyber security event, or a series of such events, that have a significant probability of compromising business operations.¹

Australian organisations are targeted by malicious cyber adversaries. The Australian Cyber Security Centre's (ACSC) assessment is malicious cyber activity against Australia's national and economic interests is increasing in frequency, scale, and sophistication. As adversaries become more adept, the likelihood and severity of cyber attacks is also increasing due to the interconnectivity and availability of information technology platforms, devices and systems exposed to the internet.

To illustrate the volume of cyber incidents occurring in Australia, the ACSC responded to over 1500 cyber security incidents between 1 July 2020 and 30 June 2021.² While many of the incidents reported to the ACSC could have been avoided or mitigated by good cyber security practices, such as implementation of ASD's Essential Eight security controls, risks will still remain when organisations operate online.

Managing responses to cyber incidents is the responsibility of each affected organisation. All organisations should have a cyber incident response plan to ensure an effective response and prompt recovery in the event security controls don't prevent an incident occurring. This plan should be tested and regularly reviewed.

To be effective, a cyber incident response plan should align with the organisation's incident, emergency, crisis and business continuity arrangements, as well as jurisdictional and national cyber and emergency arrangements. It should support personnel to fulfil their roles by outlining their responsibilities and all legal and regulatory obligations.

While organisations are responsible for managing incidents affecting their business, Australia's Cyber Incident Management Arrangements (CIMA) outline the inter-jurisdictional coordination arrangements and principles for Australian governments' cooperation in response to national cyber incidents.³

Purpose

The Cyber Incident Response Plan (CIRP) Template and the Cyber Incident Response Readiness Checklist (Appendix B) are intended to be used as a starting point for organisations to develop their own plan and readiness checklist.

Each organisation's CIRP and checklist need to be tailored according to their unique operating environment, priorities, resources and obligations.

In addition to a CIRP, organisations can develop more detailed, day-to-day procedures to supplement the cyber incident response plan. This could include more detailed playbooks to aid the response to common incident types, such as ransomware or data breaches, and standard operating procedures (SOPs) to respond to incidents affecting specific assets.

¹ Australian Cyber Security Centre, [cyber.gov.au](https://www.cyber.gov.au), 'Glossary', accessed 16 December 2020.

² Australian Cyber Security Centre, [cyber.gov.au](https://www.cyber.gov.au), ACSC Annual Cyber Threat Report 1 July 2020 to 30 June 2021.

³ <https://www.cyber.gov.au/acsc/view-all-content/news/cyber-incident-management-arrangements-australian-governments>, December 2018.

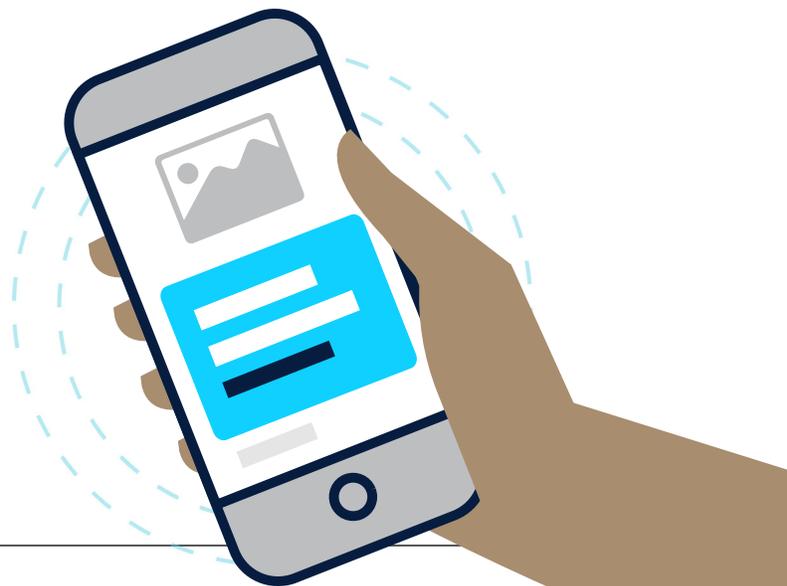
Acknowledgements

This document was created by the ACSC using multiple resources. The ACSC acknowledges the following resources used to develop this template:

- The Australian Government Information Security Manual (ISM).
- Australian Prudential Regulation Authority (APRA) Prudential Practice Guide CPG 234 Information Security June 2019 (https://www.apra.gov.au/sites/default/files/cpg_234_information_security_june_2019_1.pdf).
- A Cyber Incident Response Plan template developed by efforts of the Australian Energy Sector Readiness and Resilience Working Group in 2019, specifically with support from the Australian Energy Market Operator (AEMO), Tasmanian Department of State Growth, the Victorian Government Department of Premier and Cabinet and the ACSC.
- Victorian Government Incident Response Plan template 2019 (<https://www.vic.gov.au/prepare-cyber-incident>).
- Queensland Government Enterprise Architecture Incident management guideline 2018 (<https://www.qgcio.qld.gov.au/documents/incident-management-guideline>).
- United States National Institute of Standards and Technology (NIST) Special Publication 800-61 Revision 2 Computer Security Incident Handling Guide 2012 (<https://www.nist.gov/privacy-framework/nist-sp-800-61>).
- International Organisation for Standardisation standards:
 - ISO/IEC 27035-1, Information technology – Security techniques – Information security incident management, Part 1 Principles of incident management,
 - ISO/IEC 27035-2, Information technology – Security techniques – Information security incident management, Part 2 Guidelines to plan and prepare for incident response,
 - ISO/IEC 27035-3, Information technology – Information security incident management, Part 3 Guidelines for ICT incident response operations.
- Cybersecurity and Infrastructure Security Agency (CISA) Cybersecurity Incident & Vulnerability Response Playbooks 2021 (<https://us-cert.cisa.gov/ncas/current-activity/2021/11/16/new-federal-government-cybersecurity-incident-and-vulnerability>).

Questions and Feedback

Questions and feedback about this document should be directed to the ACSC via email at asd.assist@defence.gov.au or phone at 1300 CYBER1 (1300 292 371).



How to use this document

This document includes guidance that organisations can follow to support the development of their own CIRP. A separate CIRP template is available for organisations to fill in.

The template is not exhaustive. Each organisation's CIRP should be tailored according to its unique operating environment, priorities, resources and obligations.

Some fields will contain example text in red. This text is demonstrative only, and should not be used as the basis of your CIRP.

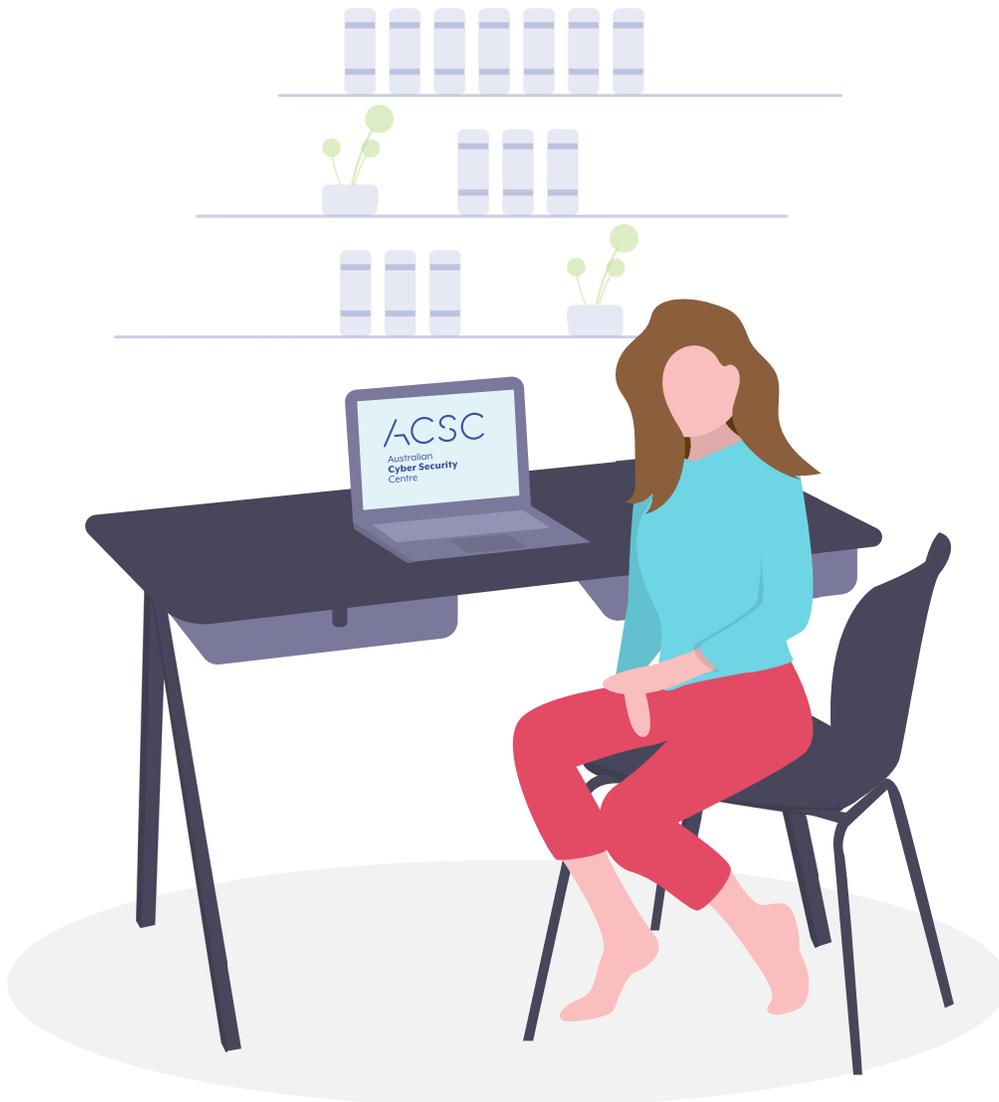


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1. Authority and Review

Include information about the document owner, document reviewer, approver, version control and date of next review or other thresholds to review the plan. For example, a plan could be reviewed on a time-bound basis, such as bi-annually or annually. A plan could be reviewed to implement changes following a cyber incident, a cyber security exercise or organisational shifts. A plan could also be reviewed following changes to relevant policies, plans, legislation, regulation or jurisdictional arrangements.

For example:

Document Control and Review

Document Control	
Author	Staff member responsible for developing the plan
Owner	The risk owner (role), or role responsible for enacting the plan
Date created	
Last reviewed by	
Last date reviewed	
Endorsed by and date	
Next review due date	

Version Control

Version	Date of Approval	Approved By	Description of Change
0.1	20/06/2022	Action Officer	Initial Draft

2. Purpose and Objectives

Include the purpose and objectives of the CIRP. For example:

Purpose of the CIRP

To support a swift and effective response to cyber incidents aligned with the organisation's security and business objectives.

Objectives of the CIRP

1. To provide guidance on the steps required to respond to cyber incidents.
2. To outline the roles, responsibilities, accountabilities and authorities of personnel and teams required to manage responses to cyber incidents.
3. To outline legal and regulatory compliance requirements for cyber incidents.
4. To outline internal and external communication processes when responding to cyber incidents.
5. To provide guidance on post incident activities to support continuous improvement.

3. Standards and Frameworks

Include the relevant standards and frameworks used to inform your organisation's CIRP. For example:

State/territory government standards and frameworks

National standards and frameworks (e.g. Australian Government Information Security Manual, Australian Prudential Regulation Authority (APRA) Prudential Practice Guide CPG 234 Information Security)

Industry standards and frameworks (e.g. Australian Energy Sector Cyber Security Framework)

International standards and frameworks

- NIST Computer Security Incident Handling Guide
- International Standard ISO/IEC27035-1
- International Standard ISO/IEC 27035-2
- International Standard ISO/IEC 27035-3

4. High Level Incident Response Process

Include a summary of your organisation's incident response process. For example:



5. Common Security Incidents and Responses

Include commonly used terms and their definitions used in your organisation. A list of commonly used terms and definitions is provided at **Appendix A**.

5.1. Common Threat Vectors

Include a summary of common threat vectors for your organisation.

The following table contains common threat vectors from the *NIST Computer Security Incident Handling Guide 2012*.

Type	Description
External/Removable Media	An attack executed from removable media or a peripheral device (e.g. malicious code spreading onto a system from an infected USB flash drive).
Attrition	An attack that employs brute force methods to compromise, degrade, or destroy systems, networks, or services (e.g. a DDoS intended to impair or deny access to a service or application or a brute force attack against an authentication mechanism, such as passwords).
Web	An attack executed from a website or web-based application (e.g. a cross-site scripting attack used to steal credentials or a redirect to a site that exploits a browser vulnerability and installs malware).
Email	An attack executed via an email message or attachment (e.g. exploit code disguised as an attached document or a link to a malicious website in the body of an email).
Supply Chain Interdiction	An antagonistic attack on hardware or software assets utilising physical implants, Trojans or backdoors, by intercepting and modifying an asset in transit from the vendor or retailer.
Impersonation	An attack involving replacement of something benign with something malicious (e.g. spoofing, man in the middle attacks, rogue wireless access points, and SQL injection attacks all involve impersonation).
Improper usage	Any incident resulting from violation of an organisation's acceptable usage policies by an authorised user, excluding the above categories (e.g. a user installs file sharing software, leading to the loss of sensitive data).
Loss or Theft of Equipment	The loss or theft of a computing device or media used by an organisation (e.g. a laptop, smartphone or authentication token).

Cyber Incident Response Plan

5.2. Common Cyber Incidents

Include a summary of common cyber incident types and the initial response activities.

The following table provides a list of common cyber incident types and space to include your organisation's corresponding initial response activities, which form the typical minimum response.

Type/Description	Response
<i>Briefly describe the initial response to the incident. For example, notify relevant individuals, activate cyber incident response plan, isolate affected devices, follow relevant playbook.</i>	
Denial of Service (DoS) and Distributed Denial of Service (DDoS): overwhelming a service with traffic, sometimes impacting availability.	As per playbook XYZ, take first tier local actions to resolve. If ineffective, as per XYZ, seek approval to escalate to second tier, etc.
Phishing: deceptive messaging designed to elicit users' sensitive information (such as banking logins or business login credentials) or used to execute malicious code to enable remote access.	If identified by staff through successful malicious content training, alert and provide a copy to the SOC. Outline next actions for the SOC and other external and internal notification actions, etc.
Ransomware: a tool used to lock or encrypt victims' files until a ransom is paid.	
Malware: a Trojan, virus, worm, or any other malicious software that can harm a computer system or network.	
Data breach: unauthorised access and disclosure of information.	
Industrial Control System compromise: unauthorised access to ICS.	

6. Roles and Responsibilities

Include details of the roles and responsibilities of core individuals and teams responsible for incident response and decision making.

As a minimum, include the personnel responsible for receiving the initial notification, the operational level Cyber Incident Response Team (CIRT) and the strategic level Senior Executive Management Team (SEMT).

All personnel listed here should be familiar with their responsibilities in this plan and practise their response.

6.1. Points of Contact for Reporting Cyber Incidents

Include details about primary and secondary (backup) internal points of contact for your staff or stakeholders to report cyber incidents to over a 24/7 period.

Name	Hours of Operation	Contact Details	Role Title	Responsibilities
	0700–1900 hrs AEST	Phone Number	On-Call IT Point of Contact	Primary Point of Contact

6.2. Cyber Incident Response Team (CIRT)

Include details of the CIRT responsible for managing responses to cyber incidents.

The composition of your CIRT will vary depending on the size of your organisation and available skills and resources.

Include details of any 3rd party vendors that provide or manage your ICT systems/applications. If applicable, include details of your external incident response providers and the services they provide.

Example table:

Name	Organisational Role	Contact Details	CIRT Role Title	CIRT Responsibilities
			Cyber Incident Manager	<ul style="list-style-type: none"> • Response planning • CIRT Operations
			Deputy Cyber Incident Manager	<ul style="list-style-type: none"> • Situational analysis • Threat intelligence • Technical advice
			Security Manager	<ul style="list-style-type: none"> • Investigation (if suspected internal threat) • Law enforcement liaison

6.2. Cyber Incident Response Team (CIRT) (cont...)

Name	Organisational Role	Contact Details	CIRT Role Title	CIRT Responsibilities
			Incident Responder	<ul style="list-style-type: none"> • Technical investigation (collection and processing of network and host data) • Containment, remediation and recovery efforts • Investigation findings report
			Communications, engagement and media advisor	<ul style="list-style-type: none"> • Information and warnings • Internal communications • Media and community liaison/ spokesperson

Other CIRT roles could include system administrators, network engineers, auditing and change requests. For more significant cyber security incidents the CIRT could be expanded to include:

Name	Organisational Role	Contact Details	CIRT Role Title	CIRT Responsibilities
			Business continuity advisor	<ul style="list-style-type: none"> • Facilities support • Business and community consequence analysis/ management
			Legal advisor	<ul style="list-style-type: none"> • Legal advisory services (incl. regulatory compliance)
			Finance and procurement advisor	<ul style="list-style-type: none"> • Facilities and finance support
			Administration and record keeping	<ul style="list-style-type: none"> • Administration support, incl. Incident Log, Evidence and Situation Reporting

6.2.1. Surge Arrangements

Include your process for implementing surge arrangements, the resources involved in those arrangements, and thresholds for triggering those surge arrangements.

Surge arrangements can include, but are not limited to:

- People
- Hardware and software
- Financial resources

6.3. Senior Executive Management Team (SEMT)

Significant cyber incidents may require the formation of the SEMT to provide strategic oversight, direction and support to the CIRT, with a focus on:

- Strategic issues identification and management
- Stakeholder engagement and communications (including Board and ministerial liaison, if applicable)
- Resource and capability demand (including urgent logistics or finance requirements, and human resources considerations during response effort).

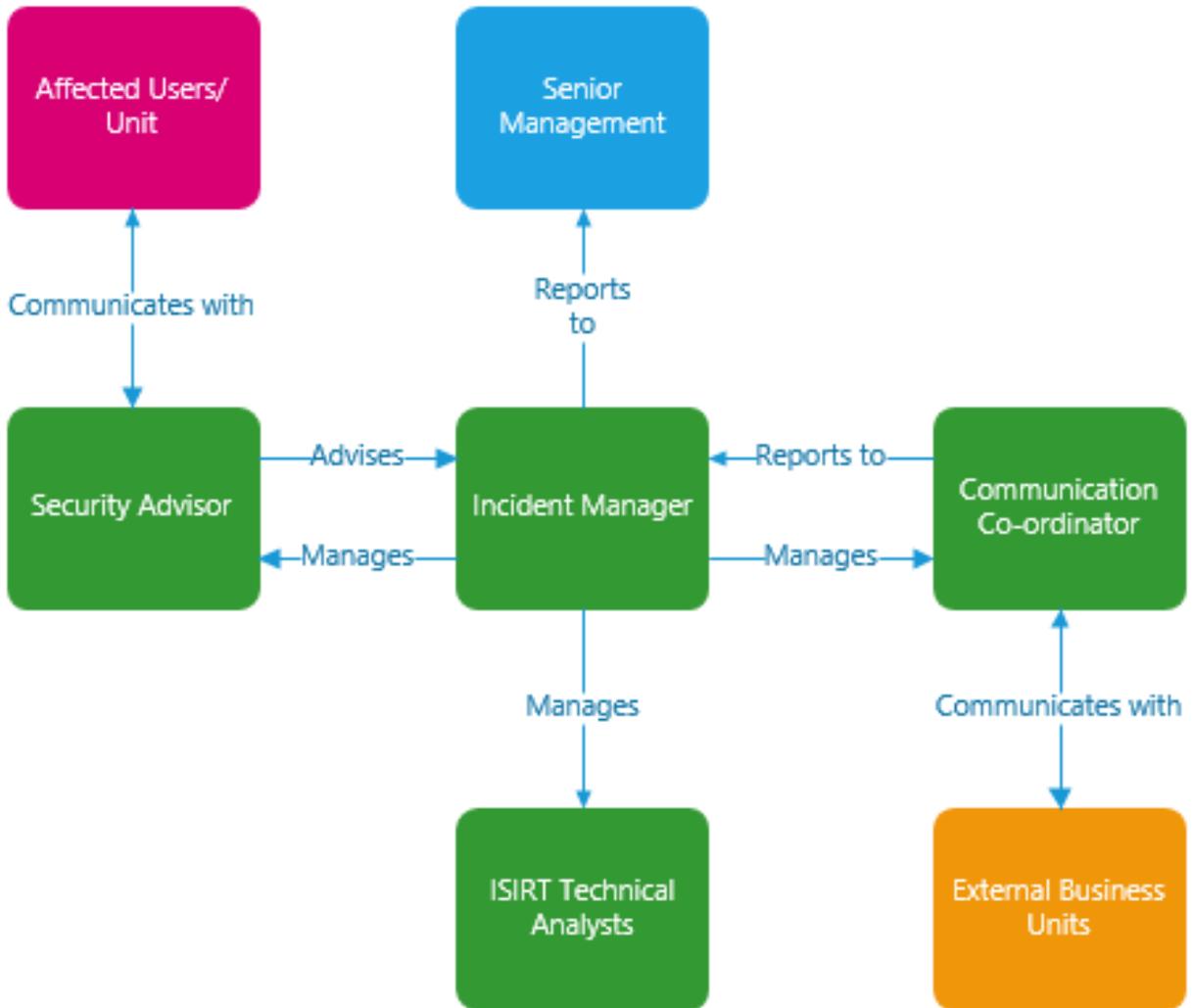
Include details of the SEMT responsible for managing responses to cyber incidents.

The composition and roles of your SEMT may vary depending on the incident impacts and size and structure of your organisation, as some roles may not be relevant or multiple roles may be held by the same individual.

Name	Contact Details	Title	SEMT Role
		Chief Executive Officer	SEMT Chair
		Chief Information Officer	SEMT Deputy Chair
		Chief Information Security Officer	SEMT Deputy
		Chief Operating Officer	Operational functions of the business
		Chief Financial Officer/ Procurement Manager	Emergency procurement and expenditure oversight
		Legal Council	Regulatory compliance, cyber insurance
		Media and Communications Manager	Public relations and stakeholder engagement
		People and Culture Manager	Staff welfare management

6.4. Roles and Relationships

Include a diagram picturing the relationship between the key personnel and teams involved in the response. Here is an example from the *Queensland Incident Management Guideline (September 2018)*.



*ISIRT stands for Information Security Incident Response Team.

7. Communications

Include your organisation's process for managing internal and external communications.

Include how your organisation is prepared to:

- Support the CIRT and SEMT communications requirements
- Respond to potential increase in internal and external enquiries or complaints about the incident or the effects. Common questions may include:
 - How will the customer helpdesk manage enquiries and be supported?
 - How will the IT Helpdesk (or equivalent) manage enquiries and be supported?
 - What communication channels are available to affected customers and staff (e.g. telephone hotline, information on the website or social media)?
- Communicate externally about the incident, including to the public and the media
 - Who has the primary responsibility for authorising and speaking on behalf of the organisation? How will this person be supported?
 - Who has responsibility for producing and approving information for release to the public and media?
- Monitor news media, social media and other forms of media and use it to support communications.

Include details for backup communication channels to communicate with staff and stakeholders.

7.1. Internal Communications

Include your organisation's process and expected timeframes to communicate relevant incident information to your staff (for example customer service team, the Board, senior executives, and staff affected).

In your internal messaging consider how you can inform staff about the incident and support business continuity. Consider providing:

- A brief summary of the incident and business impact
- Actions currently being undertaken to resolve the incident
- Actions staff can take to assist
- Business continuity options for staff who are affected by the incident
- Messaging for external stakeholders
- Key points of contact for enquiries
- Expected timeframes for further updates.

7.2. External Communications

Include your organisation's process and timeframes to communicate relevant incident information to external stakeholders.

Depending on the impact and severity of the cyber incident, it may be necessary to communicate with external stakeholders, who may include:

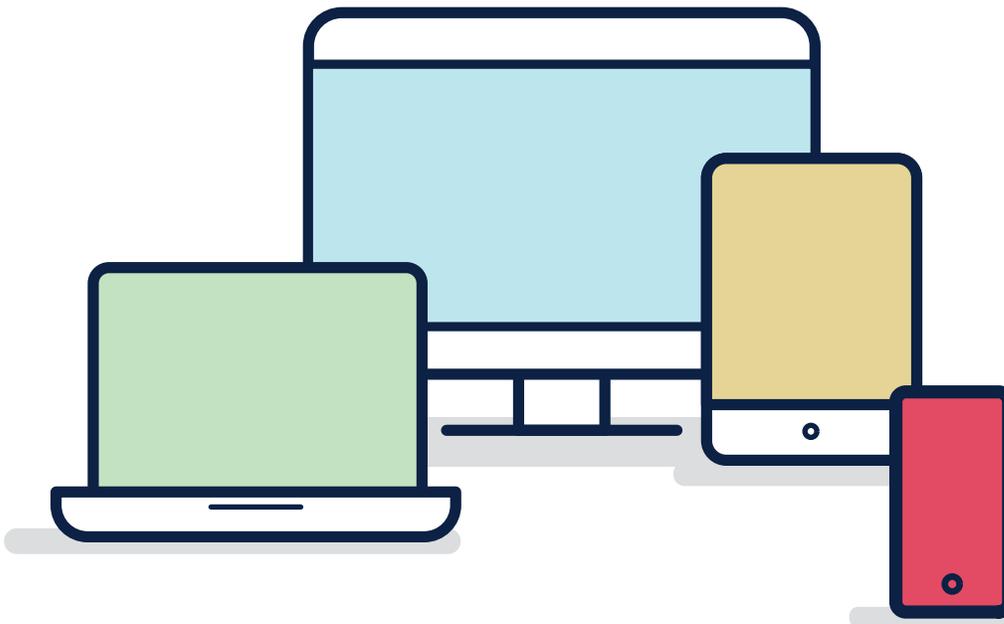
7.2. External Communications (cont...)

- Stakeholders to support your incident response such as government agencies, third party incident response, law enforcement and/or sector organisations
- Stakeholders seeking information about the incident such as customers, government agencies, clients, shareholders, suppliers and/or sector organisations
- Media and the general public
- Other stakeholders, such as insurance providers.

In your external messaging consider how you can inform external stakeholders about the incident according to their role/interest. Consider:

- Information they need to know
 - System/services affected
 - Steps being taken to resolve the incident
 - Who your organisation is working with to support incident remediation
- Options for stakeholders affected by the incident (customers)
- Key points of contact for enquiries
- Expected timeframes for further updates.

Consider your organisation's approach to managing requests for information from interested sector and government groups following the incident, for the purpose of sharing information and learning from your organisation's experience.



8. Supporting Procedures and Playbooks

8.1. Supporting Standard Operating Procedures (SOPs)

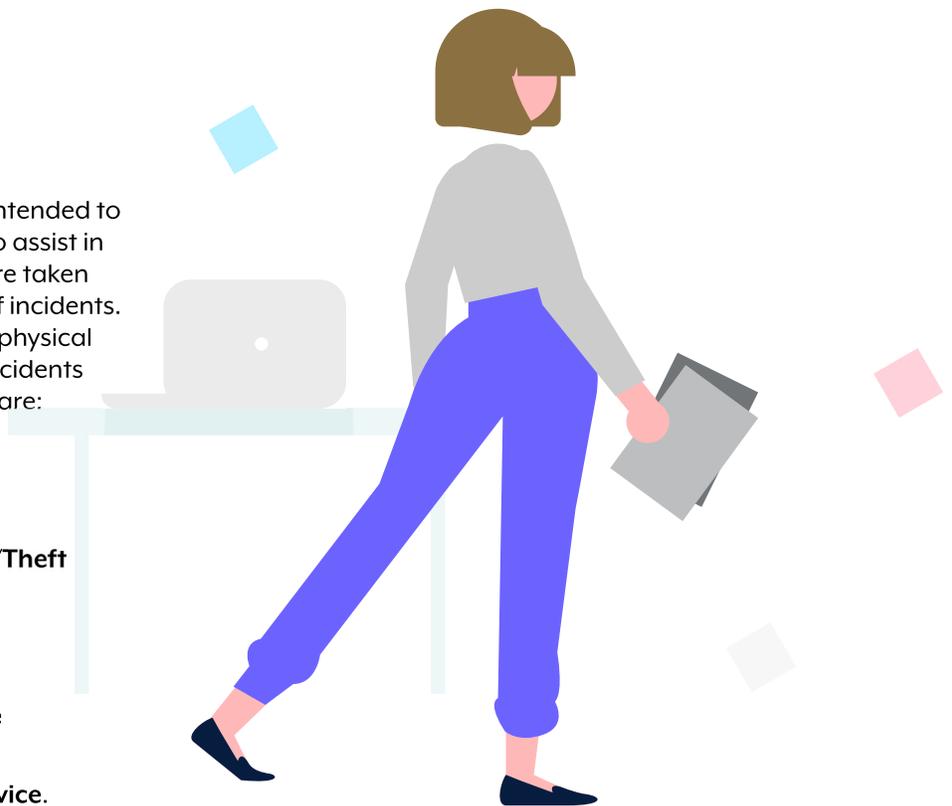
Include a list of Standard Operating Procedures (SOPs) developed to support your organisation's incident response, and their physical and electronic locations. Examples of separate SOPs are:

- Event detection, triage and analysis
- Post event/incident detection or notification (i.e. actions taken after becoming aware of an event/incident)
- Incident detection, investigation and analysis
- Incident containment, remediation and recovery (such as when to observe and protect in place and when to implement remediation/mitigation strategies)
- Communications plan (internal and external)
- Emergency management plan
- Crisis management plan
- Business continuity plan
- Disaster recovery plan.

8.2. Supporting Playbooks

Playbooks are documents that are intended to contain easy to follow instructions to assist in ensuring all the appropriate steps are taken when responding to specific types of incidents. Include a list of playbooks and their physical and electronic locations. Example incidents that may have a playbook for them are:

- Cyber Security Incident Response Playbook – **Phishing**
- Cyber Security Incident Response Playbook – **Data Breach/Theft**
- Cyber Security Incident Response Playbook – **Malware**
- Cyber Security Incident Response Playbook – **Ransomware**
- Cyber Security Incident Response Playbook – **Denial of Service.**



9. Sector, Jurisdictional & National Incident Response Arrangements

Include information about the relevant sector, state and/or territory, and national arrangements for actions including, but not limited to, notification, reporting, and/or seeking additional support.

The CIRP could include a process chart of when to report incidents to relevant state, territory and federal agencies and/or seek assistance.

9.1. Sector Arrangements

Include information about the relevant sector arrangements, and your organisation's policy and process for implementing these arrangements.

9.2. Jurisdictional Arrangements

Each state and territory jurisdiction has its own cyber incident response arrangements. Organisations should contact the relevant government agency in their jurisdiction to understand the arrangements that apply, and include key information in the cyber incident response plan.

Include your organisation's position and process for reporting to and/or seeking assistance from state/territory law enforcement.

9.3. National Arrangements

Include your organisation's position and process for reporting to and/or seeking assistance from Australian Government agencies.

Australia's Cyber Incident Management Arrangements (CIMA) outlines the inter-jurisdictional coordination arrangements and principles for Australian governments' cooperation in response to national cyber incidents.

The CIMA (December 2018) can be viewed at <https://www.cyber.gov.au/acsc/view-all-content/news/cyber-incident-management-arrangements-australian-governments>.

Examples of potential national cyber incidents include:

- An organisation with links across multiple jurisdictions being compromised through a cyber incident
- Malicious cyber activity affecting critical national infrastructure where the consequences have the potential to cause sustained disruption of essential services or threaten national security
- Malicious cyber activity where the cause and potential extent of its geographic impact is uncertain, and
- A large-scale information system breach of sensitive data affecting persons or organisations in multiple jurisdictions.

The ACSC leads the Australian Government's response to cyber incidents. For information on how to report incidents to the ACSC, and to seek advice and assistance, visit the ACSC's website at [cyber.gov.au](https://www.cyber.gov.au).

Appendix C lists some of the common triage questions the ACSC will use to assess the severity of a reported incident.

10. Incident Notification and Reporting

Include your organisation's position as well as internal and external processes for incident notification and reporting.

Consider sector, state and territory, and national incident notification and reporting obligations. Include details about who in your organisation is responsible for incident notification and reporting to external entities.

An example of this can be found in the below table:

Incident type/threshold	Organisation/agency to receive notification or report	Contact details for the notifying organisation/agency	Key notifying/reporting requirements and link to organisation/agency information (e.g. incident type, severity, deadlines)	Personnel responsible (e.g. CIRP role title)
Ransomware	Australian Cyber Security Centre (ACSC)	P: 1300 CYBERI E: asd.assist@defence.gov.au	Refer to https://www.cyber.gov.au/acsc/report	
Data breach	Office of the Australian Information Commissioner (OAIC)	See contact details at https://www.oaic.gov.au/about-us/contact-us/	Refer to https://www.oaic.gov.au/privacy/notifiable-data-breaches/report-a-data-breach/	

10.1. Legal and Regulatory Requirements

Include details about the legal and regulatory obligations relevant to your organisation, such as reporting requirements.

Work with your organisation's compliance/legal team to ensure the cyber incident response plan meets all relevant legal/regulatory requirements. Different incidents may require different or multiple legal and regulatory requirements.

The CIRP could include a process chart of when to report incidents to relevant organisations and regulators.

Include details about additional legal or privacy considerations that may impact your response (e.g. contractual obligations).

10.2. Insurance

Include relevant details about your organisation's insurance policy for cyber incidents.



11. Detection, Investigation, Analysis and Activation

Include your organisation's decision making framework for activating the CIRP.

Refer to your separate Standard Operating Procedures for incident detection, investigation and analysis. This may include how you become aware of an event or incident and your immediate actions in response.

Incidents could be detected in several ways, including, but not limited to:

- Self-detected incidents (e.g. Intrusion Detection and Prevention systems)
- Notifications received from service providers or vendors
- Notifications received from trusted third parties such as the ACSC.

11.1. Incident Classification

Include your organisation's framework and decision making process for classifying a cyber incident. This can assist with prioritising resources. Classification factors could include:

- Effects of the incident (confidentiality, integrity and availability of information and systems)
- Stakeholders affected (internal and external)
- Incident type
- Impact on the business and community.

For example:

Incident Classification	Descriptions
Critical	<ul style="list-style-type: none">• Over 80% of staff (or several critical staff/teams) unable to work• Critical systems offline• High risk to/definite breach of sensitive client or personal data• Financial impact greater than \$100,000• Severe reputational damage – likely to impact business long term
High	<ul style="list-style-type: none">• 50% of staff unable to work• Non critical systems affected• Risk of breach of personal or sensitive data• Financial impact greater than \$50,000• Potential serious reputational damage

11.1. Incident Classification (cont...)

Incident Classification	Descriptions
Medium	<ul style="list-style-type: none">• 20% of staff unable to work• Small number of non-critical systems affected• Possible breach of small amounts of non-sensitive data• Financial impact greater than \$25,000• Low risk to reputation
Low	<ul style="list-style-type: none">• <10% of non-critical staff affected temporarily (short term)• Minimal, if any, impact• One or two non-sensitive/non-critical machines affected• No breach of data• Negligible risk to reputation

For information about the ACSC Incident Categorisation Matrix see **Appendix K**.

11.2. Cyber Incident Response Team (CIRT) Activation

Include your organisation's decision making framework for activating the CIRT.
(Note: Some smaller incidents may be manageable without activation of the CIRT).
This could align with the Incident Classification framework.

11.2.1 Logistics and Communications

Include core logistical and communications protocols, mechanisms to support incident response.
For example:

- Operations Room/Security Operations Centre (SOC) location and setup
- Equipment required for offsite incident response
- Communications technologies such as phone/teleconference/online dial-in details, out-of-band communications (e.g. Slack or other similar applications).

11.3. Investigation Questions

To guide your incident response efforts and understanding of the scope and impact of the incident, develop a list of investigation questions. Not all questions may be answerable with the data available and questions may change as your investigation progresses.

Possible investigation questions include:

- What was the initial intrusion vector?
- What post-exploitation activity occurred? Have accounts been compromised? What level of privilege?
- Does the actor have persistence on the network or device?
- Is lateral movement suspected or known? Where has the actor laterally moved to and how?
- How is the actor maintaining command and control?
- Has data been accessed or exfiltrated and, if so, what kind of data?

11.4. Escalation and De-escalation

Include the escalation and de-escalation triggers and/or thresholds, and decision making authorities. You could include this in a table, for example:

Incident Classification	Action	Triggers and/or thresholds for escalation and de-escalation	Minimum level authority
Critical	De-escalate to High		
High	Escalate to Critical		
	De-escalate to Medium		
Medium	Escalate to High		
	De-escalate to Low		
Low	Escalate to Medium	SOC determines the incident may impact BAU activity	SOC Team Lead

12. Containment, Evidence Collection and Remediation

12.1. Containment

Refer to your organisation's separate detailed SOPs about containing the incident according to the incident type.

Containment actions are implemented in order to minimise the damage, prevent the incident from spreading or escalating, and prevent the attacker from destroying evidence of their attack.

When planning containment actions, consider:

- Any additional impacts there could be to systems/services
- Time and resources required to contain the incident
- Effectiveness of the containment solution (e.g. partial vs full containment)
- Duration that the solution will remain in place (e.g. temporary vs permanent solution).

12.2. Documentation

Include your organisations process for documenting the incident, responsible personnel, recipients and timeframes. Refer to **Appendix D** for a Situation Report template and **Appendix E** for an Incident Log template.

Situation reports may contain the following information:

- Incident date and time
- Status of the incident
- Incident type and classification
- Scope and Impact
- Severity
- External assistance required
- Actions taken to resolve the incident
- Contact details for incident manager and key CIRT personnel
- Date and time of the next update.

12.3. Evidence Collection and Preservation

Include your organisation's processes for collecting, preserving, handling and storing evidence, responsible personnel, recipients and timeframes. As this can be complex you may need to seek advice from digital forensic professionals, legal or law enforcement.

12.3. Evidence Collection and Preservation (cont...)

When gathering evidence, maintain a detailed log that clearly documents how all evidence has been collected. This should include who collected or handled the evidence, the time and date (including time zone) evidence was collected and handled, and the details of each item collected (including the physical location, serial number, model number, hostname, media access control (MAC) address, IP address and hash values). See **Appendix F** for a template.

Examples of commonly collected evidence include:

- Disk/hard drive/host images
- IP addresses
- Network diagrams
- Databases
- Screenshots
- CCTV, video and audio recordings
- Memory/RAM images
- Network packet captures and flows
- Log files
- Configuration files
- IR/investigation notes
- Social media posts
- Documents detailing the monetary cost of remediation or loss of business activity

12.4. Remediation Action Plan

Include your organisation's process for developing and implementing a Remediation Action Plan to resolve the incident, following successful containment and evidence collection. See **Appendix G** for a template.

When developing the Remediation Action Plan, consider:

- What actions are required to resolve the incident?
- What resources are required to resolve the incident (if not already included in the CIRT)?
 - Are there additional external resources you may require?
- Who is responsible for remediation actions?
- What systems/services should be prioritised?
- What systems/services will be affected during the remediation process?
 - How will these systems be affected?
- What is the expected resolution time?

13. Recovery

Include your organisation's process for developing, authorising and executing an agreed recovery plan.

The recovery plan should detail the approach to recovering IT and/or OT networks, systems and applications once containment and remediation is complete.

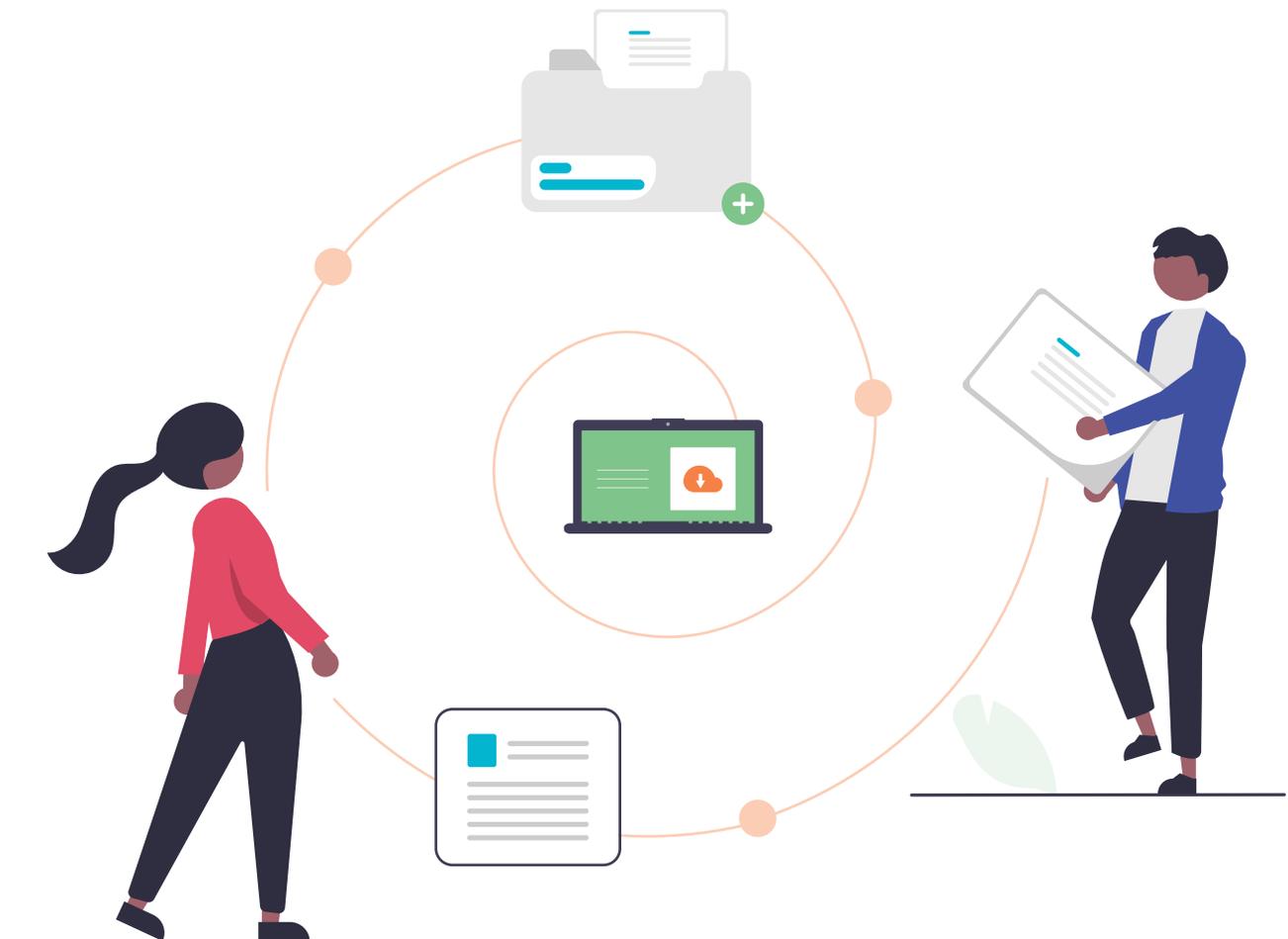
When developing the Recovery Plan, consider:

- How systems will be restored to normal operation and expected timeframes?
- How systems will be monitored to ensure they are no longer compromised and are functioning as expected?
- How identified vulnerabilities will be managed to prevent similar incidents?

13.1. Stand Down

Include your organisation's decision making process for standing down the CIRT and SEMT.

Include your process for completing an incident report, including recipients and timeframes. Consider creating an incident report template as an appendix to the CIRP.



14. Learn and Improve

Include your organisation's approach to learn from the incident and improve.

14.1. Post Incident Review

A Post Incident Review (PIR) is a detailed review conducted after an organisation has experienced a cyber security incident. It can include a hot debrief which is held immediately after an organisation has recovered its networks and systems from a cyber security incident and a formal debrief held after the incident report has been completed, such as within two weeks.

Key questions to consider in your PIR:

- What were the root causes of the incident and any incident response issues?
- Could the incident have been prevented? How?
- What worked well in the response to the incident?
- How can our response be improved for future incidents?

Refer to **Appendix H** for more detailed questions to consider in your PIR.

Recommendations that arise from the review can be documented in a corresponding Action Register. Refer to **Appendix I** for an Action Register template.

14.1.1 PPOSTTE Model

The PPOSTTE model can assist to reflect on key elements of the incident response.

People	Roles, responsibilities, accountabilities, skills
Process	Plans, policies, procedures, protocols, processes, templates, arrangements
Organisation	Structures, culture, jurisdictional arrangements
Support	Infrastructure, facilities, maintenance
Technology	Equipment, systems, standards, security, inter-operability
Training	Qualifications/skill levels, identification of required courses
*Exercise Management <i>This only applies to exercises</i>	Exercise development, structure, management, conduct

14.2. Update and Test Cyber Incident Response Plan

The PIR may result in changes to your CIRP, Playbooks and Templates. Changes should be communicated to the relevant personnel.

Significant changes may require the CIRP and Playbooks to be tested. Regular testing is important to ensure these documents remain current and are familiar to the relevant personnel. Testing methods could include discussion or functional exercises.

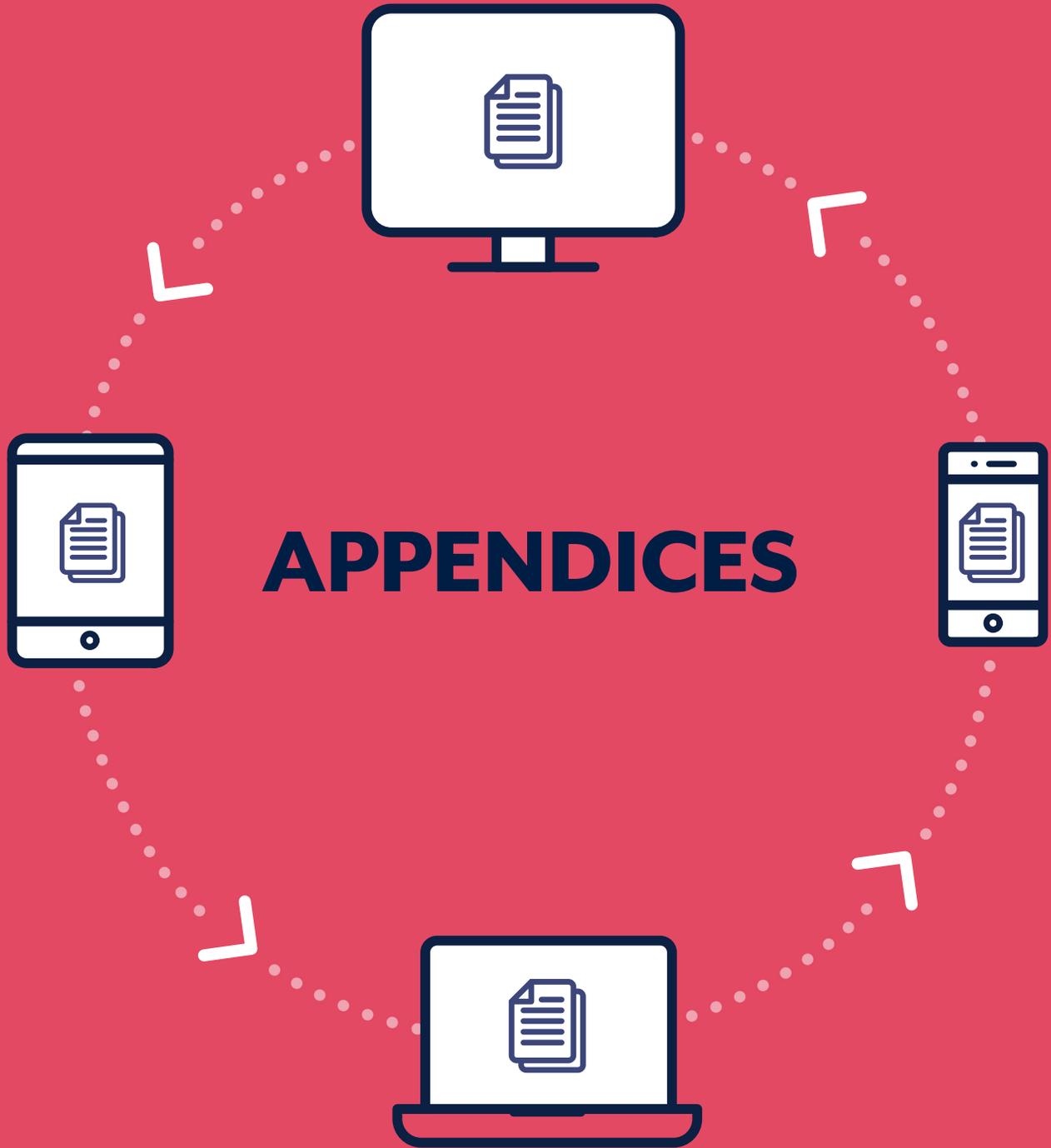
14.3. Training

Include your organisation's training activities to support personnel named in the CIRP to perform their roles.

The PIR may identify training needs for staff involved in incident response or cyber security awareness training for all staff.

Consider how your organisation will support your staff through training activities.





Appendix A

Terminology and Definitions

Use of consistent and pre-defined terminology to describe incidents and their effects can be helpful during a response. In your CIRP, include commonly used terms used in your organisation. ACSC defines cyber threats, events, alerts and incidents as follows:

Cyber threat

A cyber threat is any circumstance or event with the potential to harm systems or information. Other threats are listed on [cyber.gov.au](https://www.cyber.gov.au). Organisations can include a list of cyber threats of concern. The ACSC Annual Cyber Threat Report (2021) outlines the following threat environment and key cyber security trends:

- COVID-19 themed malicious activity including phishing emails and scams
- Exploitation of security vulnerabilities
- Business Email Compromise
- Ransomware
- Software supply chain compromise
- Cybercrime

Cyber security event

A cyber security event is an occurrence of a system, service or network state indicating a possible breach of security policy, failure of safeguards or a previously unknown situation that may be relevant to security.

A cyber security event has the potential to become, but is not confirmed to be, a cyber incident.

Examples of cyber security events include (but are not limited to):

- A user has disabled the antivirus on their computer
- A user has deleted or modified system files
- A user restarted a server
- Unauthorised access to a server or system.

Cyber security alert

A cyber security alert is a notification generated in response to a deviation from normal behaviour. Cyber security alerts are used to highlight cyber security events.

Cyber incident

A cyber incident is an unwanted or unexpected cyber security event, or a series of such events, that have a significant probability of compromising business operations. A cyber incident requires corrective action.

Examples of cyber security incidents include (but are not limited to):

- Denial-of-service attacks (DoS)
- Unauthorised access or attempts to access a system
- Compromise of sensitive information
- Virus or malware outbreak (including ransomware).

Appendix B

Cyber Incident Response Readiness Checklist

This checklist is to aid your organisation's initial assessment of its readiness to respond to a cyber security incident. This checklist is not an exhaustive list of all readiness activities.

PREPARATION	
<input type="checkbox"/>	Your organisation has a cyber security policy or strategy that outlines your organisation's approach to prevention, preparedness, detection, response, recovery, review and improvement. <ul style="list-style-type: none">• For example, does your organisation have a position on paying ransom, reporting incidents to government, publicly acknowledging cyber incidents, sharing information about incidents with trusted industry and government partners?
<input type="checkbox"/>	A Cyber Incident Response Plan has been developed, which: <ul style="list-style-type: none">• Aligns with your organisation's operating environment and other processes, including emergency management and business continuity processes.• Has been reviewed or tested in an exercise to ensure it remains current and responsible personnel are aware of their roles, responsibilities and processes.• Has prepared templates for information gathering, situation reports and other relevant events.
<input type="checkbox"/>	Staff involved in managing an incident have received incident response training.
<input type="checkbox"/>	Up-to-date hard copy versions of the Cyber Incident Response Plan and playbooks are stored in a secure location (in case of electronic or hardware failure) and are accessible to authorised staff members.
<input type="checkbox"/>	Specific playbooks to supplement the Cyber Incident Response Plan have been developed that provide clear guidance for response actions to common incidents, roles and responsibilities.
<input type="checkbox"/>	A Cyber Incident Response Team (CIRT) and a Senior Executive Management Team (SEMT) – or equivalents – have been formed to manage the response, with approved authorities.
<input type="checkbox"/>	All relevant IT and OT Standard Operating Procedures (SOPs) are documented and have been reviewed or tested in an exercise to ensure they remain current and responsible personnel are aware of their roles, responsibilities and processes.

Cyber Incident Response Readiness Checklist (cont...)

<input type="checkbox"/>	Arrangements for service providers, including cloud and software as a service, to provide and retain logs have been established and tested to ensure these include useful data and can be provided in a timely manner.
<input type="checkbox"/>	Log retention for critical systems have been configured adequately and tested to confirm that they capture useful data. Refer to the ACSC publications including Windows Event Logging and Forwarding for specific guidance.
<input type="checkbox"/>	Your organisation has internal or third party arrangements and capabilities to detect and analyse incidents. If these capabilities are outsourced, your organisation has an active service agreement/contract.
<input type="checkbox"/>	Critical assets (data, applications and systems) have been identified and documented.
<input type="checkbox"/>	Standard Operating Procedures (SOPs) have been developed, and roles and responsibilities assigned for use of facilities and communications technologies in response to cyber incidents, and these resources are confirmed as available. This includes alternative/back-up ICT-based channels.
<input type="checkbox"/>	Incident logging/records and tracking technologies used to manage a response are confirmed as available and have been tested.
<input type="checkbox"/>	Role cards have been developed for each person involved in the CIRT and the SEMT. Individual actions will depend on the type and severity of the incident. Example role card is available at Appendix J .
<input type="checkbox"/>	Your organisation has internal or third party arrangements and capabilities to monitor threats. Situational awareness information is collected from internal and external data sources, including: <ul style="list-style-type: none">• Local system and network traffic and activity logs• News feeds concerning ongoing political, social, or economic activities that might impact incident activity• External feeds on incident trends, new attack vectors, current attack indicators and new mitigation strategies and technologies.

Cyber Incident Response Readiness Checklist (cont...)

DETECTION, INVESTIGATION, ANALYSIS AND ACTIVATION	
Standard Operating Procedures (SOPs) have been developed, and roles and responsibilities assigned for:	
<input type="checkbox"/>	<p>Detection mechanisms typically include scanning, sensing and logging mechanisms which can be used to identify potential cyber security events and incidents. Monitoring processes could include the identification of unusual patterns of behaviour and logging that facilitates investigation and preserves forensic evidence. Monitoring processes would consider the broad set of events, ranging from the physical hardware layer to higher order business activities such as payments and changes to user access. Common monitoring techniques include:</p> <ul style="list-style-type: none"> • Network and user profiling that establishes a baseline of normal activity which, when combined with logging and alerting mechanisms, can enable detection of anomalous activity; • Scanning for unauthorised hardware, software and changes to configurations; • Sensors that provide an alert when a measure breaches a defined threshold(s) (e.g. device, server and network activity); • Logging and alerting of access to sensitive data or unsuccessful logon attempts to identify potential unauthorised access; and • Users with privileged access accounts subject to a greater level of monitoring in light of the heightened risks involved.
<input type="checkbox"/>	Incident detection, including self-detected incidents, notifications received from service providers or vendors, and notifications received from trusted third parties (e.g. ACSC).
<input type="checkbox"/>	Incident analysis, including how incidents are to be categorised, classified and prioritised, and controls related to how data is stored and transmitted (i.e. if out-of-band transmission is required).
<input type="checkbox"/>	Activating a Cyber Incident Response Team (CIRT) to manage critical incidents, with roles and responsibilities assigned.
<input type="checkbox"/>	Activating a Senior Executive Management Team (SEMT) to manage critical incidents, with roles and responsibilities assigned.
CONTAINMENT, EVIDENCE COLLECTION AND REMEDIATION	
<input type="checkbox"/>	Standard Operating Procedures (SOPs), playbooks and templates, have been developed, and roles and responsibilities assigned for containment, evidence collection and remediation. These can be included as appendices to the Cyber Incident Response Plan.
<input type="checkbox"/>	A secure location is available for storing data captured during an incident, which could be used as evidence of the incident and the adversary's tradecraft, and ready to be provided to third-party stakeholders if needed.

Cyber Incident Response Readiness Checklist (cont...)

COMMUNICATIONS	
<input type="checkbox"/>	Policy, plans, Standard Operating Procedures (SOPs) and templates have been developed to support communicating with: <ul style="list-style-type: none">– Internal stakeholders (e.g. Board, staff)– External stakeholders (e.g. stakeholders to assist with the response and stakeholders with an interest in the response).
<input type="checkbox"/>	Policy, plans, Standard Operating Procedures (SOPs) and templates for media and communications professionals have been developed, and roles and responsibilities assigned, to support public and media messaging.
<input type="checkbox"/>	Your organisation has assigned a public and media spokesperson, who is supported by subject matter experts.
<input type="checkbox"/>	Staff have been trained to implement the communications processes and execute their roles and responsibilities.
<input type="checkbox"/>	Staff who are not involved in managing incidents are cognisant of your organisation's policy and processes and their responsibilities when an incident occurs (e.g. exercising discretion, using approved talking points, referring enquiries to the designated officer).
INCIDENT NOTIFICATION AND REPORTING	
<input type="checkbox"/>	Processes, roles, responsibilities and contact details are assigned and documented to support the organisation to meet its legal and regulatory requirements on cyber incident notification, reporting and response. This includes the processes for obtaining authority to release and share information.
<input type="checkbox"/>	Processes are documented for insurance requirements.
POST INCIDENT REVIEW	
<input type="checkbox"/>	A process is documented to conduct Post Incident Reviews (PIR) following conclusion of an incident and PIR reports with recommendations are submitted to management for endorsement.
<input type="checkbox"/>	A process is documented to ensure actions following incidents and/or exercises are tracked and completed (e.g. Action Register).

Appendix C

ACSC Incident Triage Questions

Where applicable, personnel reporting cyber security incidents to the ACSC on behalf of their organisation should try to have information available to answer the following questions:

- Who is reporting the incident? (include their position e.g. CISO, ITSA, SOC Manager etc.)
- Who/what is the affected organisation/entity?
- What type of incident is being reported? (e.g. ransomware, denial of service, data exposure, malware)
- Is the incident still active?
- When was the incident first identified?
- Are you reporting for ACSC awareness or is ACSC assistance required?
 - If ACSC assistance is required, what assistance is needed?
- What type of system or network has been affected?
 - Information Technology (IT)
 - Corporate systems/networks, databases, servers, VOIP systems.
 - Operational Technology (OT)
 - SCADA, Remote sensors, BMS/BAS, logic controllers.
- What was observed (the sequence of events)? E.g. was lateral movement observed?
 - Date/Time
 - Effect/Event
- Who or what identified the problem?
- Has a data breach occurred?
 - What type of information was exposed?
 - What impact will this have on the organisation?
 - What impact (if any) will the breach have on public safety or services?
 - What volume of records/data was exposed?
 - Was it a misconfiguration/error, or was a malicious exfiltration or theft of data identified?
 - Has it been reported to the Office of the Australian Information Commissioner (OAIC)?
 - If not, organisations need to consider if mandatory reporting obligations apply under the Notifiable Data Breach (NDB) scheme
- What actions have been taken to rectify the issue?
 - Does the organisation/entity have internal or external IT and/or cyber security incident response providers?
 - Are services/business as usual operations interrupted?
 - If so, how long do they expect before they are back at normal operating capability?
- Will you be communicating publicly about the incident and engaging with media?
 - If so, please notify the ACSC beforehand if you will be referencing the ACSC.

Appendix D

Situation Report Template

Date of entry:	Time of entry:	Author:
Date and Time incident detected	20220125 – 1350hrs AEST	
Current Status – New, In Progress, Resolved	In Progress	
Incident Type	Ransomware or phishing or DDoS, etc.	
Incident Classification	Major or Critical or Routine, etc.	
Scope – list the affected networks, systems and/or applications; highlight any change to scope since the previous log	Payroll, IT management systems. As of 20220126: Point of Sale, customer management, etc.	
Impact – list the affected stakeholder(s); highlight any change in impact since the previous log entry	The internal stakeholders affected are: Human Resources, service desk. As of 20220126: Customer relations, Sales, etc.	
Severity – outline the impact of the incident on your organisation(s) and public safety or services; highlight any change to severity since the previous log entry	As of 20220126: Unable to conduct BAU operations, resulting in a catastrophic impact to business	
Assistance required – what assistance do we require from other organisations? (e.g. ACSC, law enforcement)	Have notified the ACSC and provided artefacts. Engaged with Law enforcement due to ransomware	
Actions taken to resolve incident	Current actions being taken by the CIRT	
Additional notes		
Contact details for incident manager and others if required	CIRT Manager – Contact details	
Date and Time of next update		

Appendix E

Incident Log Template

Date, Time	Notes (relevant facts, decisions, rationale)
2022 0330 – 0835hrs	SOC identified phishing that resulted in the successful deployment of ransomware to network
2022 0331 – 1455hrs	CIRT collected forensic artefacts (listed in Evidence Register) and initial investigation has assessed the incident as a major incident. The following systems are currently degraded or offline: ...
2022 0401 – 1150hrs AEST	SEMT voted to escalate incident to “Critical”. Next actions were agreed to, as follows:

Appendix F

Evidence Register Template

Date, Time and Location of collection	Collected by (name, title, contact and phone number)	Item Details (quantity, serial number, model number, hostname, media access control (MAC) address, IP addresses and hash values)	Storage location and label number	Access
2022 0402 – 1200hrs – Head Office	Jane Doe – CIRT – Contact Details	1 x disk and memory image, XYZ Desktop, ABC Model Number, IP ###.###.###.###, ...	Stored on HDD Asset Number ###, in IT Security Office and on network drive H:\...	CIRT team, law enforcement, ACSC

Appendix G

Remediation Action Plan Template

Date and Time	Category (Contain, Eradicate, Recover)	Action	Action Owner	Status (Unallocated, In Progress, Closed)
2022 0425 – 0900hrs	Contain	Isolate hosts identified as infected, per CIRT investigation.	CIRT Team Leader	In Progress

Appendix H

Post Incident Review Guide and Analysis Template

A Post Incident Review (PIR) is a detailed review conducted after an organisation has experienced a cyber security incident. The content of the review will vary for each organisation, but primarily focuses on establishing learnings and providing recommended actions to mitigate future incidents. The purpose of this document is to provide organisations that have experienced a cyber security incident with tools and techniques to conduct a PIR in order to identify areas to improve their cyber security posture.

How to use the guide

The guide contains high level steps recommended for organisations to follow after experiencing a cyber security incident. The guide should be used as a resource, and will need to be further tailored by organisations to suit and meet their individual requirements. The templates are generic documents, and will need to be tailored to suit specific organisational requirements.

This guide and the templates were informed by private industry and government resources.

Post Incident Review Steps

Step 1 – Hold incident debriefs

Post incident debriefs are useful for capturing observations from personnel directly involved in managing a cyber security incident and identifying actions to improve how the organisation managed the response, as well as how the incident could have been prevented.

There are two types of debriefs organisations may hold after experiencing a cyber security incident: a hot debrief and a formal debrief (or cold debrief).

A hot debrief is held immediately after an organisation has recovered its networks and systems from a cyber security incident

The benefits of holding a hot debrief include:

- The team involved in responding to the incident is available to provide instant feedback and lessons learned.
- Any urgent issues identified during the incident can be addressed immediately.
- Personnel involved in the incident are more likely to recall information and detail as it is still fresh in their minds.

Cyber Incident Response Plan

A formal debrief is held days to weeks after an organisation has recovered its networks and systems after a cyber security incident.

The benefits of holding a formal debrief include:

- It provides an opportunity for an organisation to discuss the cyber security incident in detail after it is resolved to gather key insights, learnings and opportunities for improvement.
- It enables time between the incident and debrief, providing time for emotions to settle, particularly for stressful incidents.
- It ensures all key personnel required for the discussion are present, especially senior management who will need to drive the implementation of actions.

The material below provides high-level guidance on how organisations can hold both types of debrief.

Hot debrief guidance

Time:

30 minutes – 1 hour*

*Timing may depend on the complexity of the incident and the personnel involved.

Aim:

The aim of the hot debrief is to review the incident, receive feedback on personnel observations and insights, and identify any urgent issues requiring immediate action.

Participants:

The debrief should be led by a manager who was involved during the incident, supported by a scribe whose role is to document attendance, key insights and immediate actions. It is recommended that debrief participants include all personnel involved during the detection, response and recovery phases of the incident, and upper management are excluded (i.e. CEOs and general managers). This will ensure personnel involved in the incident can speak openly without fear of repercussion.

Content:

The manager could guide discussion using the following questions:

1. What went well?
2. What could personnel and teams do differently next time to improve?
3. What action has been taken to remediate immediate risk? Are there any further issues that require immediate resolution?

Note, it is essential for the manager to remain objective during the discussion, and treat the incident as a learning point for all involved, without attributing blame to an individual or a team.

Conclusion:

At the end of the debrief, the manager should provide a summary of the discussions to participants who can confirm whether the key issues and actions were captured. The manager should explain the next steps, following the debrief, and the expected timeframes for these.

Cyber Incident Response Plan

Formal debrief guidance

Time:

1–2 hours.

Aim:

The aim of the formal debrief is to review the incident, validate what worked and produce actions and assigned responsibilities to improve the current arrangements.

Participants:

The debrief should be led by a facilitator who asks key questions, supported by a scribe to document key insights and actions.

It is recommended that debrief participants include:

- technical personnel who were involved in detecting, responding to, and resolving the incident
- non-technical personnel who were involved during the incident (at minimum – one staff member from each function)
- communications/media personnel involved in the incident.

Content:

Questions to consider in the debrief can be found at the Post Incident Review Analysis Template. The facilitator can use this document to lead the conversation with the participants, while the scribe documents the discussion directly into the Analysis template. The scribe can also use the Action Register Template to document any actions resulting from the discussion.

Conclusion:

At the end of the debrief, a decision should be made about whether additional discussions are required, or if finalisation of the incident documents can be completed. If email correspondence is selected to disseminate the documents, an action officer will need to be identified for completing them and circulating them to staff for endorsement.

Step 2 – Complete incident documentation

Based on the findings of the debriefs, the action officer should complete a draft of the Post Incident Review Analysis and the Action Register, and circulate them to the personnel involved in the hot debrief for their feedback and endorsement. Note, it is important that the Action Register details an assigned lead (action officer) for closing out each action.

Once feedback is received and incorporated, the documents should be sent to an executive staff member (a CEO or general manager, or equivalent) for endorsement. The executive staff member may advise on their expectations on the frequency of progress reporting of agreed actions, and nominate a staff member to lead the reporting/tracking.

Step 3 – Incident tracking and reporting

The identified actions should be tracked and reported at agreed frequencies by the nominated staff member.

PIR Analysis Template

INCIDENT SUMMARY	
Incident name	
Date of incident	dd/mm/yy
Incident Priority	Low/Medium/High Established from the impact and/or risk to the business
Time incident occurred	
Time incident was resolved	
Incident type	Malware, etc.
Personnel involved	Names of the individuals involved in resolving the incident and their function(s), including any service providers
Incident impact	What impact did the incident have? I.e. loss of systems
Brief summary	What happened?

Incident Analysis

The Incident Analysis is broken into the following categories:

- Incident timeline – Summary of what happened and when. Provides high level areas for improvement.
- Protection – Identifies the protection mechanisms that were in place at the time of the incident and their effectiveness. Establishes how to improve the protection of our systems and networks.
- Detection – Establishes how to reduce the time to identify an incident is occurring. Addresses what detection mechanisms were in place, and how those mechanisms can be improved.
- Response – Identifies improvements for the incident response.
- Recovery – Addresses improvements for incident recovery (i.e. how to recover from an incident faster).

Cyber Incident Response Plan

INCIDENT TIMELINE	
Date and time of detection	
When was the incident acknowledged?	When did your organisation identify that an incident was occurring?
Date and time of incident response	
Date and time of incident recovery	
Who discovered the incident first and how?	Or who was alerted to it first? How did the discovery or alert happen?
Was the incident reported externally? If yes, when?	For example, did your organisation report it to the ACSC?
Who supported resolving the incident? When did they provide support?	List the names of personnel involved in resolving the incident, and the time (and date if not all on the same day) they joined in.
What activities were conducted to resolve the incident? When were they conducted and what was their impact?	It is easier to do this in a list, for example: Time > Task > Impact
PROPOSED ACTIONS	Detail any resulting actions that can be incorporated into the Action Register. Brief description of action > Proposed Action Officer

Cyber Incident Response Plan

PROTECTION	
What <u>controls</u> were in place that were expected to stop an incident similar to this?	i.e. systems, networks, etc.
How effective were those <u>controls</u>?	Did they work? Why/why not? How could they be improved?
Are there other <u>controls</u> considered better for protecting against a similar incident?	What are they?
What <u>business processes</u> were in place to prevent this type of incident from occurring?	i.e. Your organisation's policies and procedures.
How effective were those <u>business processes</u>?	Did they work? Why/why not? How could they be improved?
Any other findings and/or suggestions for improvement?	**See the PPOSTTE model for guidance
PROPOSED ACTIONS	Detail any resulting actions that can be incorporated into the Action Register. Brief description of action > Proposed Action Officer

Cyber Incident Response Plan

INCIDENT DETECTION	
How was the incident detected?	How did you know the incident was happening?
What <u>controls</u> were in place to detect the incident?	
Were those <u>controls</u> effective?	Did they work? Why/why not?
Are there any ways to improve the 'time-to-detection'?	How could your organisation reduce that time?
Are there any indicators that can be used to detect similar incidents in the future?	
Are there any additional tools or resources that are required in the future to detect similar incidents?	Is there anything (from a detection perspective) that will help mitigate future incidents? Technology? Human resources with specific skills? Etc.
Any other findings and/or suggestions for improvement?	What activities worked well? What activities did not work so well? What could be changed with hindsight? **Also see the PPOSTTE model for guidance
PROPOSED ACTIONS	Detail any resulting actions that can be incorporated into the Action Register. Brief description of action > Proposed Action Officer

Cyber Incident Response Plan

INCIDENT RESPONSE	
What was the cause of the incident?	
How was the incident resolved?	What needed to happen for the issue to be resolved?
What obstacles were faced when responding to the incident?	
Were any <u>business policies</u> and/or <u>procedures</u> used in responding to the incident?	For example, does your organisation have an Incident Response Plan, and was this followed?
Were those <u>business policies</u> and/or <u>procedures</u> effective?	Did they work? Why/why not?
What delays and obstacles were experienced when responding?	
Were there any escalation points?	Were there any escalation points that the incident went through?
If there were escalation points, did they hamper the response OR were they at the appropriate level?	For example, having to escalate to a Chief Operating Officer (COO) to take action on an ongoing incident had severe timeline impacts on responding to an active incident.
How well did the information sharing and communications work within your organisation?	What worked well/what did not work well. How could it be improved? Was there any information that was needed sooner? How did your organisation communicate within the IR team, across jurisdictions, across time zones, legal teams, external comms teams, etc.?
Were there any media enquiries received during the incident?	If yes, WHAT was the media, and how did your organisation respond?

Cyber Incident Response Plan

INCIDENT RESPONSE	
Was media produced during the incident?	If yes, WHAT was the media, and how did your organisation respond?
Was the customer notified during the incident?	Why/why not? When? How?
Were trained staff available to respond?	Are there any staff knowledge and/or skills gaps? What are they? Were there enough resources available to respond?
Any other findings and/or suggestions for improvement?	**See the PPOSTTE model for guidance
PROPOSED ACTIONS	Detail any resulting actions that can be incorporated into the Action Register. Brief description of action > Proposed Action Officer

Cyber Incident Response Plan

INCIDENT RECOVERY	
How long did it take for all systems and networks to recover?	
How could this time be improved?	For example, how could the recovery time be reduced?
Are there any obligations to report externally about the incident?	
Were there any media enquiries after the incident?	
Were staff and/or customers notified of the incident?	Why/why not? How was the notification completed? Was it effective? How could it be improved?
Any other findings and/or suggestions for improvement?	**See the PPOSTTE model for guidance
PROPOSED ACTIONS	Detail any resulting actions that can be incorporated into the Action Register. Brief description of action > Proposed Action Officer

Appendix I

Action Register Template

ID	Action	Action Officer	Date expected to complete	Status	Updates	Comments
01	Describe the action in detail	Name of the person who will be leading the action	Date the action is expected to be completed	Complete In progress Not yet started	Insert date, and any updates to progressing the action You can also detail any blockers here	Any relevant information relating to closing out the action
02						
03						
04						
05						
06						
07						
08						
09						
10						

Appendix J

Role Cards

Example of a role card:

ROLE CARD CYBER INCIDENT RESPONSE
INCIDENT MANAGER
Reports to SEMT Chair
RESPONSIBILITIES
<ul style="list-style-type: none">• Activate the CIRP• Coordinate operations room setup• Manage a team of incident responders including preparing for, and tracking, daily investigation tasks• Provide administrative and logistical support for incident responders• Manage the passage of relevant operational information to the SEMT

ROLE CARD CYBER INCIDENT RESPONSE
KEY CONTACTS
Virtual Meeting Room: XXXX
Backup conference line: XXXX
Media: XXXX
Security: XXXX
Legal: XXXX

Appendix K

ACSC Incident Categorisation Matrix 2022

ACSC categorises cyber incidents by severity using a matrix that considers the:

- Cyber Effect (i.e. the impact, success, sustained and/or intent)
- Significance (i.e. sensitivity of the organisation)

Cyber Effect (impact, success, sustained and/or intent) ↑	Sustained disruption of essential systems and associated services	C6	C5	C4	C3	C1	C1
	Extensive compromise	C6	C5	C4	C3	C2	C1
	Isolated compromise	C6	C5	C5	C3	C3	C2
	Coordinated low-level malicious attack	C6	C6	C5	C4	C3	C3
	Low-level malicious attack	C6	C6	C5	C4	C4	C3
	Unsuccessful low-level malicious attack	C6	C6	C6	C6	C6	C6
		Member(s) of the public	Small organisation(s) Sole traders	Medium-sized organisation(s) Schools Local Government	State Government Academia/R&D Large organisation(s) Supply Chain	Federal Government Government shared services Regulated Critical Infrastructure	National security Systems of National Significance
		Significance (sensitivity of the organisation) →					

The severity of the cyber incident informs the type and nature of incident response and crisis management arrangements that are activated. Depending on the severity of the incident, the ACSC has a suite of capabilities that it may deploy to support the affected parties. However, ACSC determines which capabilities are appropriate and available given competing priorities. Organisations must not rely on the ACSC for their own ability to respond to cyber incidents in an appropriate and timely manner.

For more information, or to report a cyber security incident, contact us:
cyber.gov.au | 1300 CYBER1 (1300 292 371)



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