



Domain		Domain Description
Risk Management	RISK	Establish, operate, and maintain an enterprise cyber security risk management program to identify, analyse, and mitigate cyber security risk to the organisation, including its business units, subsidiaries, related interconnected infrastructure, and stakeholders.
Cybersecurity Program Management	PROGRAM	Establish and maintain an enterprise cyber security program that provides governance, strategic planning, and sponsorship for the organisation's cyber security activities in a manner that aligns cyber security objectives with the organisation's strategic objectives and the risk to critical infrastructure.
Asset, Change, and Configuration Management	ASSET	Manage the organisation's operations technology (OT) and information technology (IT) assets, including both hardware and software, commensurate with the risk to critical infrastructure and organisational objectives.
Identify and Access Management	ACCESS	Create and manage identities for entities that may be granted logical or physical access to the organisation's assets. Control access to the organisation's assets, commensurate with the risk to critical infrastructure and organisation objectives.
Cybersecurity Architecture	ARCHITECTURE	Establish and maintain clear mapping of your IT and OT assets and a plan as to where and how controls should be implemented to protect your environment in the event of a cyber security attack.
Threat and Vulnerability Management	THREAT	Establish and maintain plans, procedures, and technologies to detect, identify, analyse, manage and respond to cyber security threats and vulnerabilities, commensurate with the organisation's infrastructure (e.g., critical, IT, operational) and organisational objectives.
Situational Awareness	SITUATION	Establish and maintain activities and technologies to collect, analyse, alarm, present, and use operational and cyber security information, including status and summary information from the other model domains, to form a common operating picture (COP).
Event and Incident Response, Continuity of Operations	RESPONSE	Establish and maintain plans, procedures, and technologies to detect, analyse, and respond to cyber security events and to sustain operations throughout a cyber security event, commensurate with the risk to critical infrastructure and organisational objectives.
Supply Chain and External Dependencies Management	THIRD-PARTIES	Establish and maintain controls to manage the cyber security risks associated with services and assets that are dependent on external entities, commensurate with the risk to critical infrastructure and organisational objectives.
Workforce Management	WORKFORCE	Establish and maintain plans, procedures, technologies, and controls a culture of cyber security and to ensure that ongoing suitability and competence of personnel, commensurate with the risk to critical infrastructure and organisational objectives.
Australian Privacy Management	PRIVACY	Establish and maintain plans, procedures, and technologies to reduce privacy related risks, and manage personally identifiable information through its lifecycle - collection, storage, use and disclosure, and disposal (including de-identification).

Term	Definition
Access	Ability and means to enter a facility, to communicate with or otherwise interact with a system, to use system resources to handle information, to gain knowledge of the information the system contains, or to control system components and functions.
Ad hoc	In the context of this model, ad hoc (i.e., an ad hoc practice) refers to performing a practice in a manner that depends largely on the initiative and experience of an individual or team (and team leadership), without much in the way of organisational guidance in the form of a prescribed plan (verbal or written), policy, or training. The methods, tools, and techniques used, the priority given a particular instance of the practice, and the quality of the outcome may vary significantly depending on who is performing the practice, when it is performed, and the context of the problem being addressed. With experienced and talented personnel, high-quality outcomes may be achieved even though practices are ad hoc. However, because lessons learned are typically not captured at the organisational level, approaches and outcomes are difficult to repeat or improve across the organisation.
Anomalous	Inconsistent with or deviating from what is usual, normal, or expected.
Asset	Something of value to the organisation. Assets include many things, including technology, information, roles performed by personnel, and facilities. For the purposes of this model, assets to be considered are IT and OT hardware and software assets, as well as information essential to operating the function.
Confidentiality	The preservation of authorised restrictions on information access and disclosure, including means for protecting personal privacy and proprietary information. For an information asset, confidentiality is the quality of being accessible only to authorised people, processes, and devices.



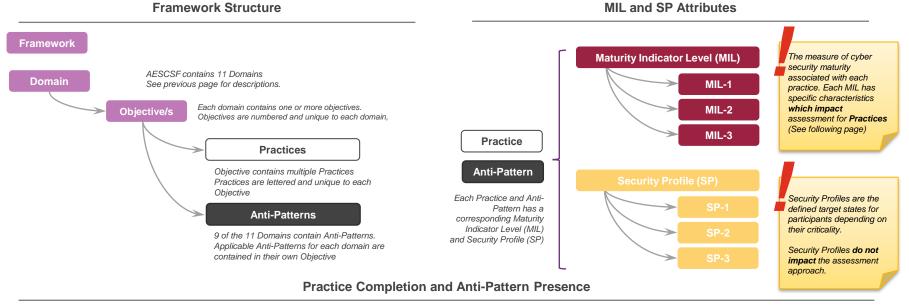


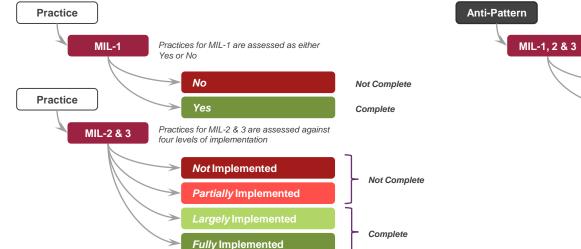
Term	Definition		
Controls	The management, operational, and technical methods, policies, and procedures-manual or automated-(i.e., safeguards or countermeasures) prescribed for an IT and ICS to protect the confidentiality, integrity, and availability of the system and its information.		
Credential	An object or data structure that authoritatively binds an identity (and optionally, additional attributes) to a token possessed and controlled by a Subscriber.		
Current	Updated at an organisation-defined frequency (e.g., as in the asset inventory is kept 'current') that is selected such that the risks to critical infrastructure and organisation objectives associated with being out-of-date by the maxin interval between updates are acceptable to the organisation and its stakeholders.		
Establish and maintain	The development and maintenance of the object of the practice (such as a program). For example, 'Establish and maintain identities' means that not only must identities be provisioned, but they also must be documented, ha assigned ownership, and be maintained relative to corrective actions, changes in requirements, or improvements.		
Event	Any observable occurrence in a system or network. Depending on their potential impact, some events need to be escalated for response. To ensure consistency, criteria for response should align with the organisation's risk crit		
Function	The high-level electricity system activity or set of activities performed by the utility to which the model is being applied. Generally, the function will be generation, transmission, distribution, and/or markets. When using the AESC evaluation survey, the function is the organisational line-of-business (generation, transmission, distribution, or markets) that is being evaluated by completing the model.		
Governance	An organisational process of providing strategic direction for the organisation while ensuring that it meets its obligations, appropriately manages risk, and efficiently uses financial and human resources. Governance also ty includes the concepts of sponsorship (setting the managerial tone), compliance (ensuring that the organisation is meeting its compliance obligations), and alignment (ensuring that processes such as those for cybersecurit management align with strategic objectives).		
Guidelines	A set of recommended practices produced by a recognised authoritative source representing subject matter experts and community consensus, or internally by an organisation. See standard.		
Identity	The set of attribute values (i.e., characteristics) by which an entity is recognisable and that, within the scope of an identity manager's responsibility, is sufficient to distinguish that entity from any other entity.		
Incident	An event (or series of events) that significantly affects (or has the potential to significantly affect) critical infrastructure and/or organisational assets and services and requires the organisation (and possibly other stakeholders) to respond in some way to prevent or limit adverse impacts. See also computer security incident and event.		
Institutionalisation	The extent to which a practice or activity is ingrained into the way an organisation operates. The more an activity becomes part of how an organisation operates, the more likely it is that the activity will continue to be performed over time, with a consistently high level of quality. ('Incorporated into the ingrained way of doing business that an organisation follows routinely as part of its corporate culture.' - CERT RMM). See also maturity indicator level.		
Logging	Logging typically refers to automated recordkeeping (by elements of an IT or OT system) of system, network, or user activity. Logging may also refer to keeping a manual record (e.g., a sign-in sheet) of physical access by to a protected asset or restricted area, although automated logging of physical access activity is commonplace. Regular review and audit of logs (manually or by automated tools) is a critical monitoring activity that is essent situational awareness (e.g., through the detection of cyber security events or weaknesses).		
Monitoring	Collecting, recording, and distributing information about the behaviour and activities of systems and persons to support the continuous process of identifying and analysing risks to organisational assets and critical infrastruct could adversely affect the operation and delivery of services.		
Periodic review/activity	A review or activity that occurs at specified, regular time intervals, where the organisation-defined frequency is commensurate with risks to organisational objectives and critical infrastructure.		
Personnel	Employees of the organisation. This includes full time, part time, and contracted employees.		
Risk	A measure of the extent to which an organisation is threatened by a potential circumstance or event, and typically a function of (1) the adverse impacts that would arise if the circumstance or event occurs and (2) the likelihoo occurrence.		
Stakeholder	An external organisation or an internal or external person or group that has a vested interest in the organisation or function (that is being evaluated using this model) and its practices. Stakeholders involved in performing a given practice (or who oversee, benefit from, or are dependent upon the quality with which the practice is performed) could include those from within the function, from across the organisation, or from outside the organisation.		
Threat	Any circumstance or event with the potential to adversely impact organisational operations (including mission, functions, image, or reputation), resources, and other organisations through IT, OT, or communications infrastructure unauthorised access, destruction, disclosure, modification of information, and/or denial of service.		
Vulnerability	A cyber security vulnerability is a weakness or flaw in IT, OT, or communications systems or devices, system procedures, internal controls, or implementation that could be exploited by a threat source. A vulnerability class is a grouping of common vulnerabilities.		

Australian Energy Sector Cyber Security Framework – version 2 (AESCSF v2)

Quick Reference Guide – Key Framework Components







do not impact assessment of Anti-Patterns Anti-Patterns are no Not Complete longer attached to individual Practices. however they remain linked Complete to an AESCSF Domain and MIL.

Anti-Patterns are assigned a MIL, however

Present

Not Present

the MIL, and it's associated Management Characteristics,

Australian Energy Sector Cyber Security Framework – version 2 (AESCSF v2)

Quick Reference Guide - Completion & Management Characteristics



MIL-1 Practice

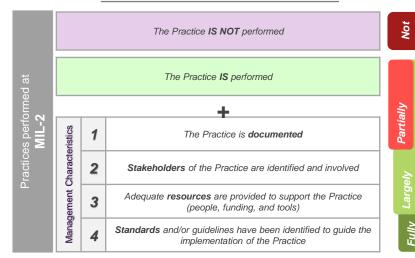
The Practice is **NOT** performed

The Practice **IS** performed

Note: For MIL-1 this can be ad-hoc, and may therefore vary in frequency, accuracy, and completeness, based on the skills and tools of the personnel completing the activities

Implementation Response

MIL-2 Practice



Implementation Response

Any Fully Implemented practice at MIL-3 requires **all** Management Characteristics from **both** MIL-2 and MIL-3.

MIL-3 Practice

Not The Practice IS NOT performed, OR the Practice is performed HOWEVER MIL-2 Management Characteristics (1, 2 and/or 3) are MISSING The Practice IS performed. AND AT LEAST MIL-2 Management Characteristics 1, 2 and 3 are present Activities are guided by **policies** (or other organisational Management Characteristics directives) and governance Personnel performing the Practice have adequate **skills** and knowledge Policies include compliance requirements for specified standards and/or quidelines Responsibility and authority for performing the 8 Practice is assigned to personnel Activities are periodically reviewed to ensure they 9 conform to policy

Implementation Respons

Anti-Patterns

This activity IS exhibited within the function (either pervasively or within a limited context)

This activity IS exhibited within the function

This activity IS NOT exhibited within the function

Implementation Response

Present