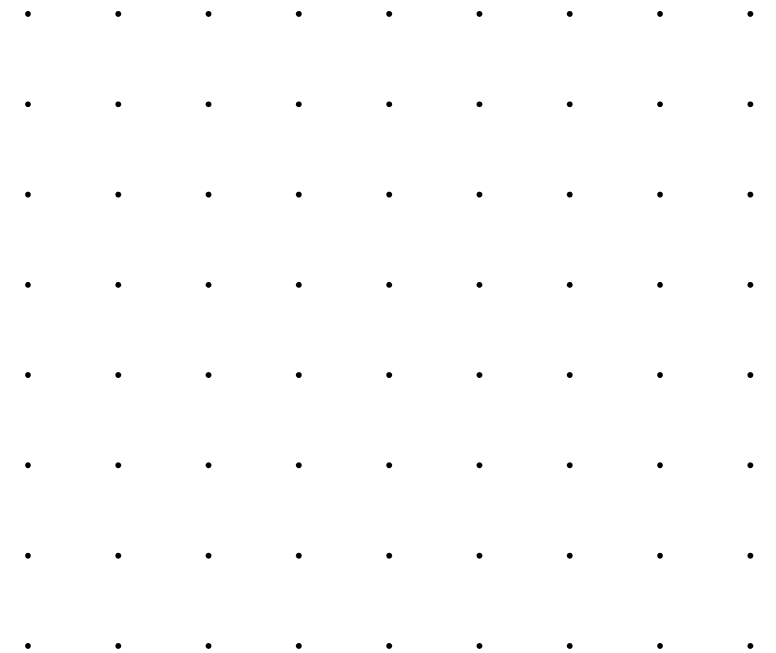


# TLP

Week 8B

**Presented by Dr Rory Coulter**



# Traffic Light Protocol

**The Traffic Light Protocol (TLP) is a system for sharing sensitive information securely**

Uses different colour-coded levels to indicate the degree of restriction on access and use

- Introduced to aid and support information sharing (with appropriate audience)
- TLP isn't a classification scheme (e.g., Secret, Top Secret)
- Designations:
  - TLP:RED
  - TLP:AMBER+STRICT
  - TLP:AMBER
  - TLP:GREEN
  - TLP:CLEAR

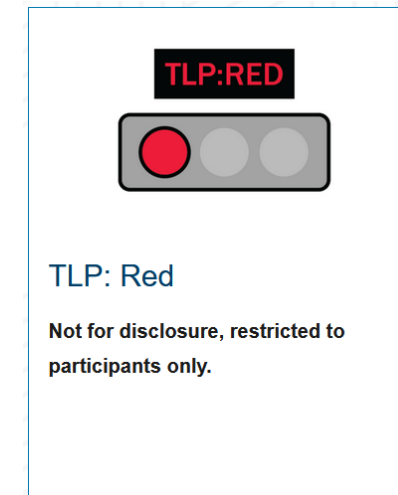


# Traffic Light Protocol(cont.)

## TLP:RED is the highest level of restriction

Information marked as TLP: RED should not be disclosed and is restricted to participants only

- It is used when sharing the information could pose significant risks to privacy, reputation, or operations of the organisations involved
- Recipients may not share TLP: RED information with parties outside of the specific exchange, meeting, or conversation where it was originally disclosed
- TLP: RED information is usually exchanged verbally or in person



# Traffic Light Protocol(cont.)

## TLP:AMBER+STRICT

TLP:AMBER+STRICT indicates a high level of restriction

- It is used when information requires support but still carries risks to privacy, reputation, or operations if shared outside the organisation
- Recipients may only share TLP: AMBER+STRICT information with members of their own organisation on a need-to-know basis to protect their organisation and prevent further harm

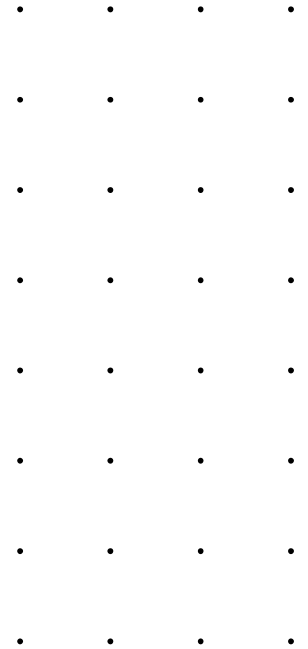
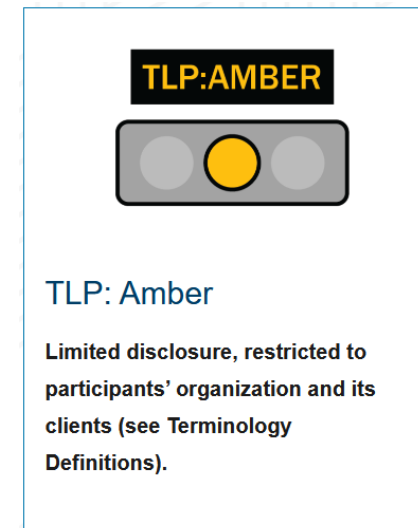


# Traffic Light Protocol(cont.)

## TLP:AMBER

TLP:AMBER signifies limited disclosure

- It is used when information requires support but still carries risks if shared outside the organisations involved
- TLP: AMBER+STRICT should be used to restrict sharing to the recipient organisation only
- Recipients may share TLP: AMBER information with members of their own organisation and its clients on a need-to-know basis to protect their interests



# Traffic Light Protocol(cont.)

## TLP:GREEN indicates limited disclosure

It is used when information can increase awareness within a specific community

- Recipients may share TLP: GREEN information with peers and partner organisations within their community but not through publicly accessible channels
- TLP: GREEN information is typically shared within the cyber security or cyber defence community

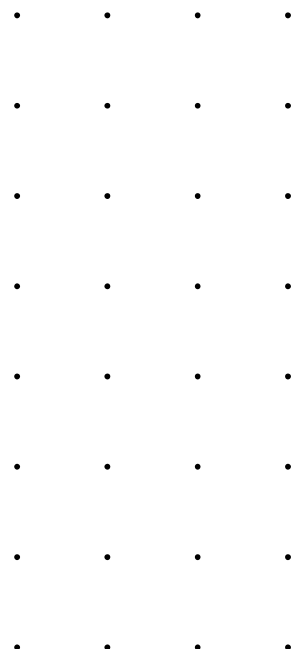


# Traffic Light Protocol(cont.)

## TLP:CLEAR signifies no significant restrictions on disclosure

It is used when information carries minimal or no foreseeable risk of misuse

- Recipients can share TLP:CLEAR information without restriction, following standard copyright rules and procedures for public release



# A Threat Advisory

## Let's look at a way intelligence is shared

TLP:CLEAR The what

- A Cyber Threat Advisory is a formal communication that provides organisations and individuals with critical information about potential or active cyber security threats
- Released by government and vendors
- Cyber Threat Advisories are typically issued by trusted cybersecurity authorities, government agencies, or industry-specific information sharing and analysis centres (ISACs)
- Primary purpose of a Cyber Threat Advisory is to raise awareness about specific cyber threats, vulnerabilities, or incidents that could impact an organisation's security



# A Threat Advisory (cont.)

## Let's look at a way intelligence is shared

TLP:CLEAR What may be covered

- Threat Description: Detailed information about the nature and characteristics of the cyber threat
- Indicators of Compromise (IoCs): Specific data or artifacts associated with the threat
- Vulnerabilities: Information about any software or hardware vulnerabilities being exploited
- Mitigation and Remediation: Guidance on how to detect, prevent, and respond to the threat
- Impact Assessment: An analysis of the potential impact on affected systems or networks
- Recommendations: Actions that organisations should take to protect themselves

# A Threat Advisory (cont.)

Let's look at a way intelligence is shared

Two Examples

- Top Vulnerabilities
  - See below for the link
- Actor Profile
  - See below for the link



## 2023-01: ACSC Ransomware Profile - Royal

24 January 2023

**Context:** Royal is a ransomware variant first observed in September 2022, used by cybercriminals to conduct ransomware attacks against multiple sectors and organisations worldwide, including Australia. Once gaining access to a victim's environment, cybercriminals use this ransomware for similar purposes to other variants such as encrypting their data, and extorting a ransom to return access to the sensitive files. This product provides information related to Royal's background, threat activity, and mitigation advice.

[https://www.cyber.gov.au/sites/default/files/2023-08/aa23-215a\\_joint\\_csa\\_2022\\_top\\_routinely\\_exploited\\_vulnerabilities.pdf](https://www.cyber.gov.au/sites/default/files/2023-08/aa23-215a_joint_csa_2022_top_routinely_exploited_vulnerabilities.pdf)

<https://www.cyber.gov.au/sites/default/files/2023-02/2023-01%20-%20ACSC%20Ransomware%20Profile%20-%20Royal.pdf>