Cybersecurity For LMR Systems

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Agenda

- Why Cybersecurity for LMR Systems
- Attack Surface
  - Ransomware
  - Other Identified Risks
  - How Threat actors target Radio systems
- State and Federal Government Cyber Requirements
- What can be done
  - Customers
  - Vendors

Why Cybersecurity is Important for LMR

- No longer ‘walled gardens’ or air gapped environments
- Increase in Cyber attacks such as **Data breaches**, **DDoS** and **Ransomware**

19%

increase in cyberattacks impacting public safety organizations globally in 2025

66%

Of all cyber incidents were related to Radio Dispatch systems

22%

Increase in number of ransomeware groups attacking public safety agencies in 2025

**2025 Public Safety Cyberattack Insights*

Threat Actors - Public Safety & LMR Systems

Qilin

- Russian based Highly organized Extortion syndicate
- Responsible for 50% of all comprises to Public Safety Systems
- Ransomware as a Service (RaaS)

NoName057

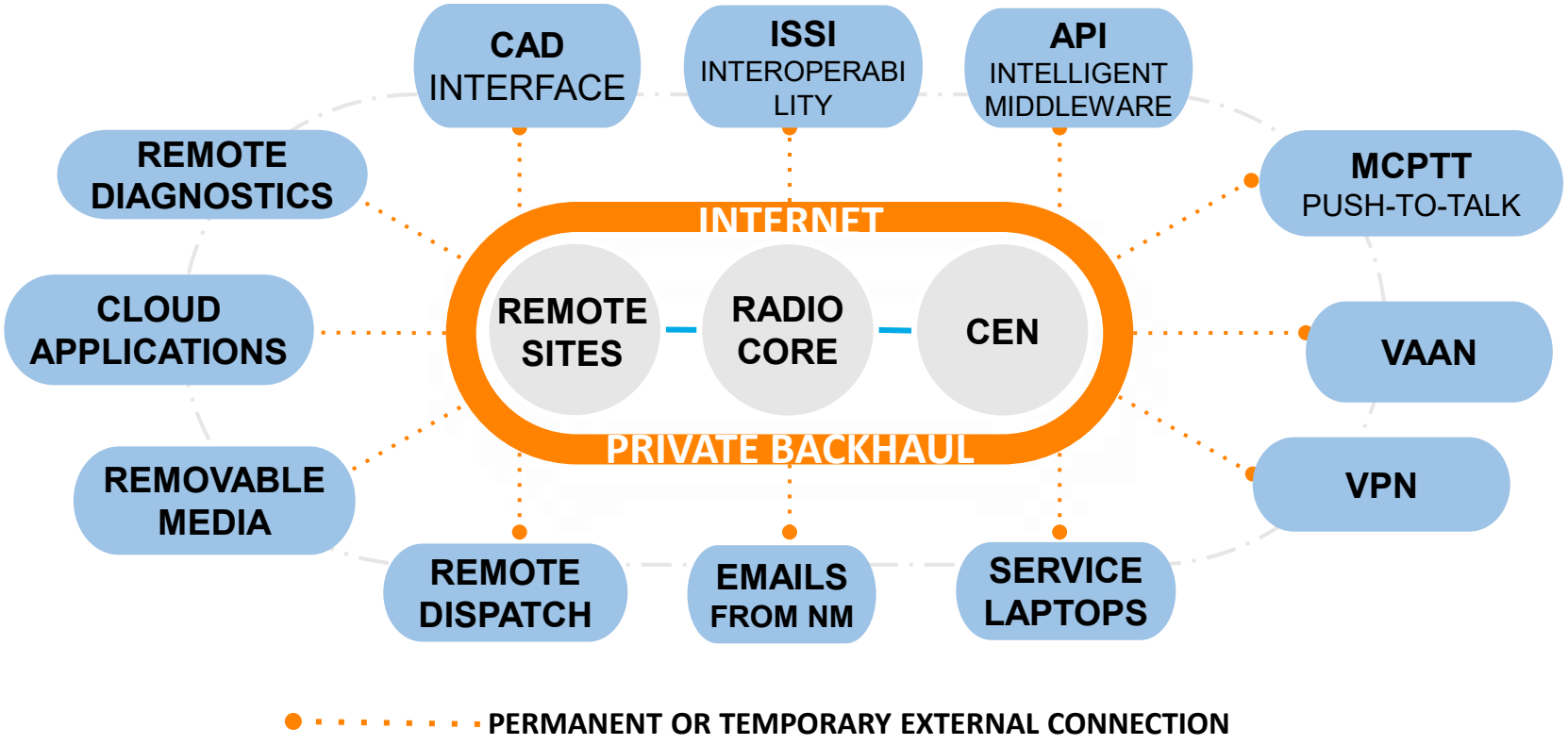
- Russian Hactivist group
- Disrupts services through DDoS
- Geo Politics driven

Volt Typhoon

- Origin China
- Targets Critical Infrastructure
- Use ‘Living of the Land’ techniques

LMR IS NOT A “CLOSED NETWORK”

LMR NETWORKS HAVE VULNERABILITIES SIMILAR TO THOSE FOUND IN IT NETWORKS

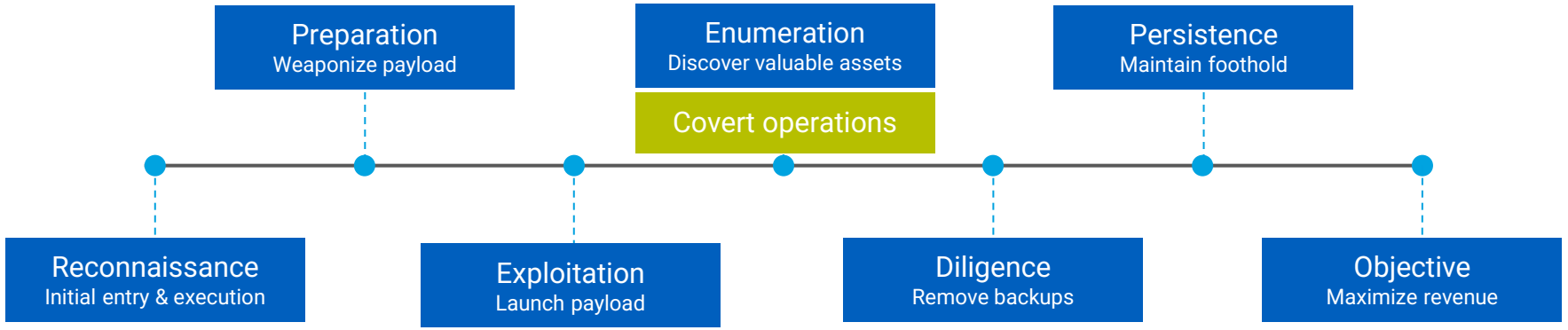


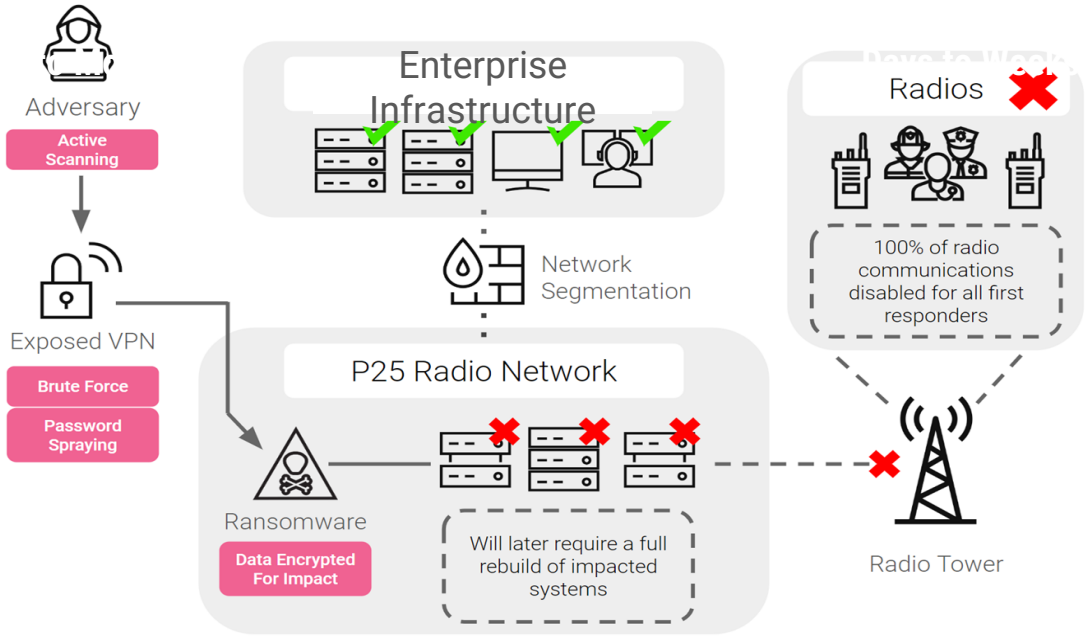
CISA-IDENTIFIED CYBER RISKS WITHIN LMR

- Interception or Eavesdropping
- Poor Cyber Hygiene
- Denial of Service
- Malicious applications, malware & Data Exfiltration
- Spear Phishing & social engineering

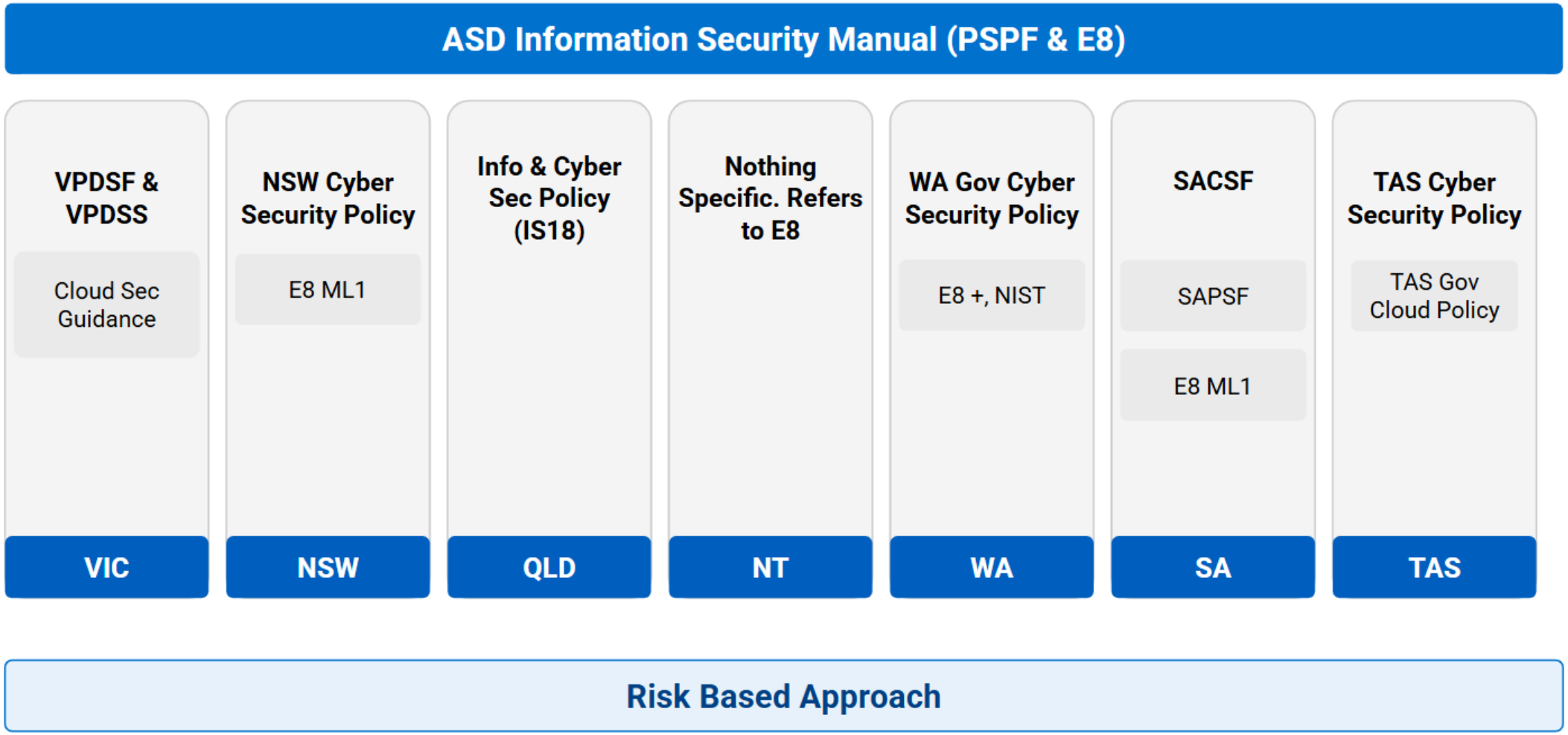
Attack Elements

Fundamental parts of every ransomware attack





State Government Cyber Frameworks & Requirements



What should we do to protect LMR systems in Australia

- Governance – People, Process & Technology
- Refer to ACSC guidelines - Essential 8, ACSC ISM
- Implement the required controls
- Managing Risks
- Continuous Improvement.

Motorola Solutions Cybersecurity Services

Defence In Depth Approach

Identify	Protect	Detect	Respond	Recover

Advisory

Risk assessments & Penetration Testing

Managed security services

Vulnerability Management

Patch testing & deployment

Managed Detection & Response

Advisory

Incident response planning & testing

Public Safety Threat Alliance

Embedding Cybersecurity in all our development, product suite and solutions

Thank You