

Department of Information And Communications Technology



# CYBERSECURITY AND GOVERNANCE

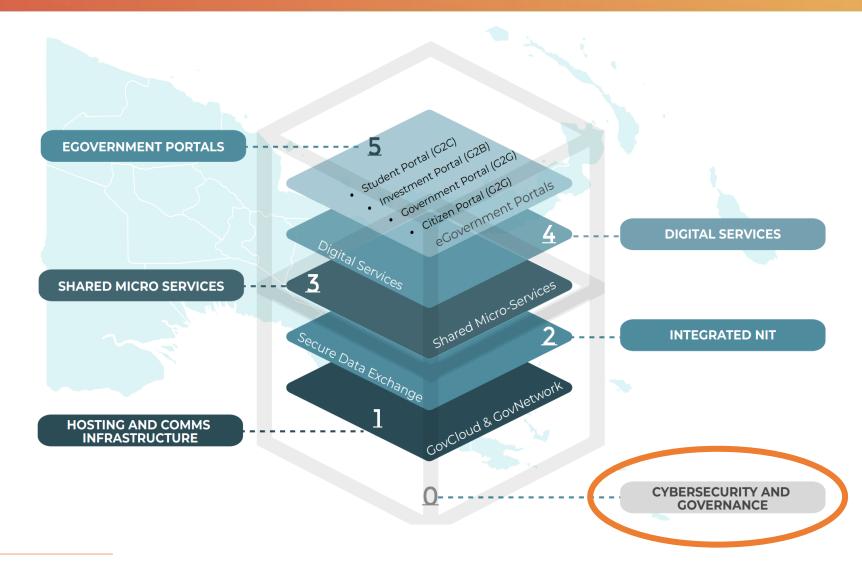
BY GEORGINA KIELE

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#### **GOV STACK**







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The National Cyber Security Policy of **aims to enhance the country's cybersecurity capabilities to protect its institutions, environment, resources, and people**. The policy is organized around several key goals:

- Establishing a coordination mechanism and specialized institutions for cybersecurity.
- Developing national capability and capacity, improving cyber knowledge and skills, and raising awareness of cyber safety among stakeholders.



NATIONAL CYBER SECURITY POLICY 2021



## **National Cybersecurity Policy 2021**

The policy involves the development of a **National Cyber Security Strategy** covering the:

- protection of information systems
- fighting cybercrime
- legal and regulatory framework development
- promoting digital trust
- national and international coordination.



NATIONAL CYBER SECURITY POLICY 2021

## **National Cybersecurity Policy 2021**

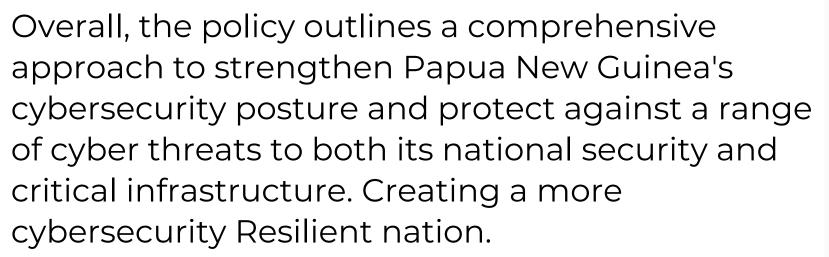
Other key points in the policy include:

- Establishment of a National Cyber Security Agency (NCSA) to coordinate government activities related to cybersecurity.
- Development of a National Cyber Security Legislation to implement the policy's goals.
- Recognition of the vulnerability of cyberspace to physical and cyber threats.
- The need to report cyber incidents, coordinate certification and accreditation of cybersecurity professionals, and improve cybersecurity laws and regulations.
- Protection of critical infrastructure from cyber threats.
- Collaborating with partners to identify and mitigate cyber risks effectively.











NATIONAL CYBER SECURITY POLICY 2021





# **Digital Government Act 2022**

Section 18

- The National Cyber Security Center (NCSC) is established

- NCSC is jointly operated by DICT, Defense, Police, Justice, National Intelligence Organization and PMNEC

- > Section 19
  - Functions of NCSC
- Section 21(2)(e)

- NCSC is declared as a Critical Digital Infrastructure

➤ Section 55

- NCSC approve technology cyber safety and security for Public body to an Internet Services Provider

No. 4 of 2022. Digital Government Act 2022. Certified on : 1 9 JUL 2022





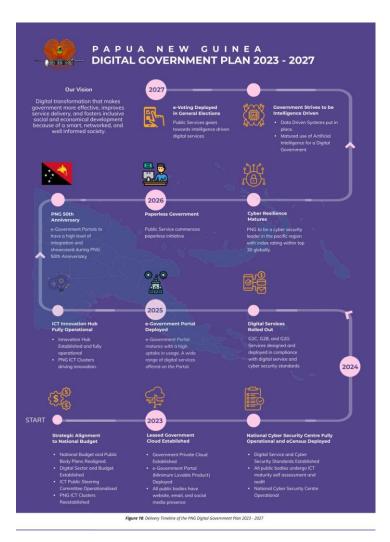


## 2023

- National Cyber Security Center is Operational
- Cybersecurity standards establish

## 2026

- Cyber Resilience Matures
- PNG to be Cybersecurity Leader in the Pacific Region with the index rating with top 30 globally



## Approved by NEC

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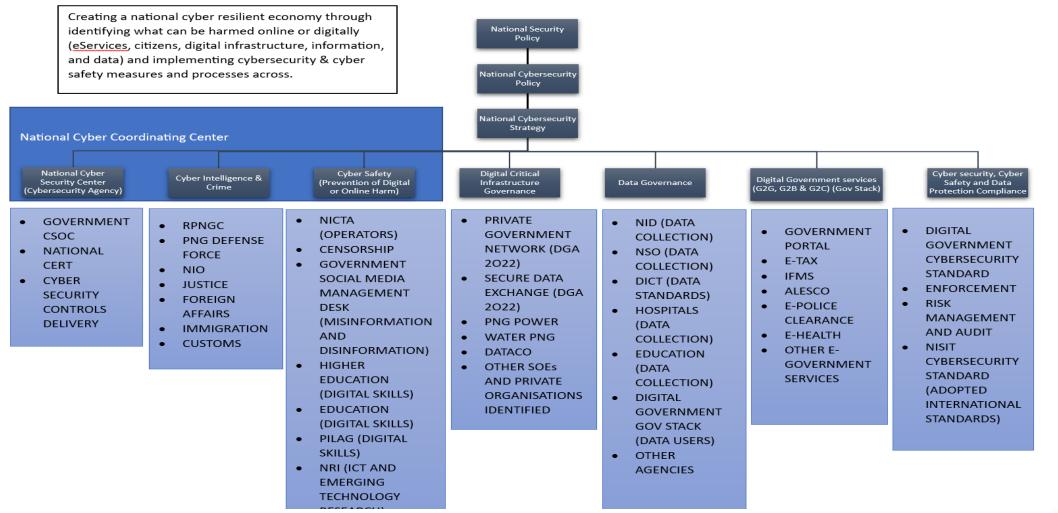
## **Digital Government Cyber Security Standards**

Implementation of the Digital Government Act 2022 (section 19)

## National Cybersecurity Strategy.

- Draft under internal Review
- The six goals are 1. Governance, 2. Risk Management, Preparedness & Resilience,
  3. Critical Infrastructure & Essential Services 4. Capability & Capacity Building and
  Awareness raising 5. Legislation and Regulations 6. international Cooperation

#### PROTECTING NATIONAL DIGITAL ECONOMY THROUGH NATIONAL CYBERSECURITY STRATEGY

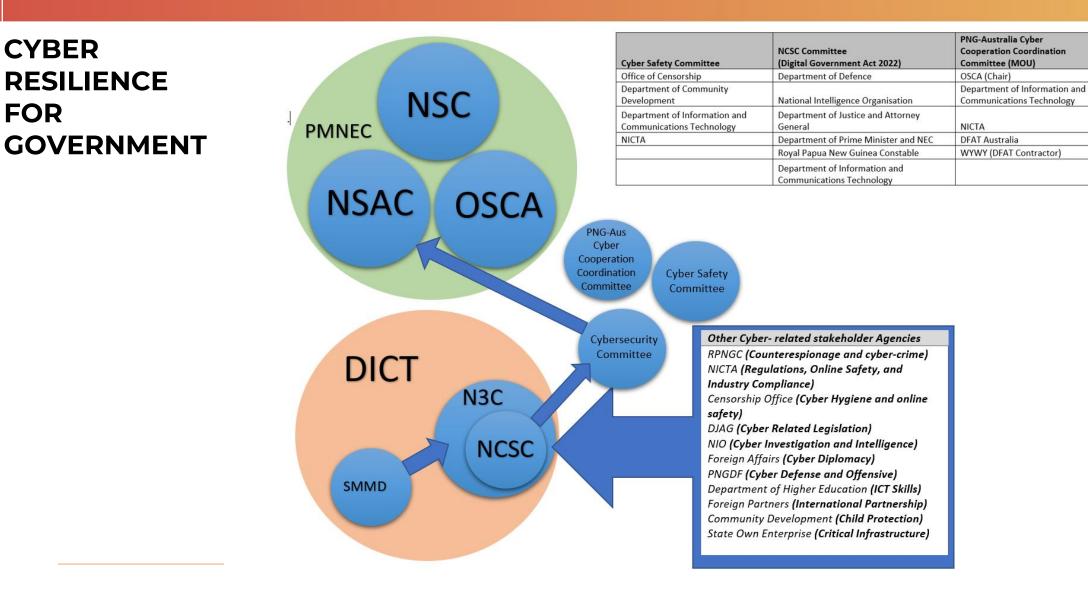


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#### NATIONAL CYBER COORDINATING CENTERN (N3C)

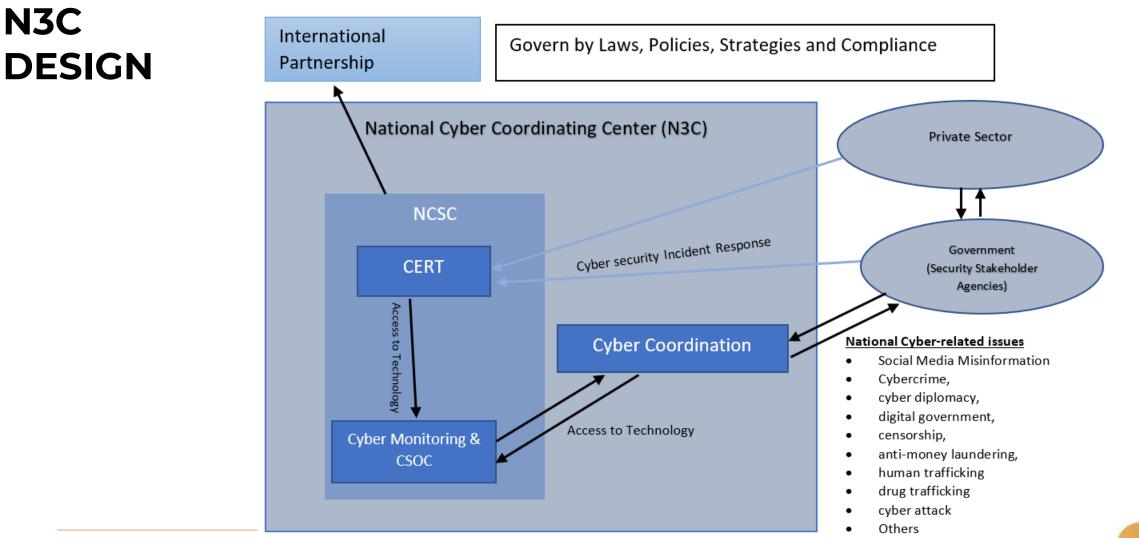




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### NATIONAL CYBER COORDINATING CENTERN (N3C)



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### THE NATIONAL CYBERSECURITY CENTER OPERATION

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# **OPERATIONS UPDATE**

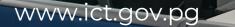
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## NATIONAL CYBER SECURITY CENTER OPERATIONS

## NCSC SERVICES

- Endpoint Protection for PC and Server (Available)
- Network Protection (Available)
- Cloud Security Monitoring (Available)
- Email Protection (coming soon)
- $\succ$  Online Training (Available)
- Cybersecurity Consultation (Available)
- $\succ$  SIEM and MDR (Available)
- Incident Handling Practices (Schedule by NCSC)



Incident

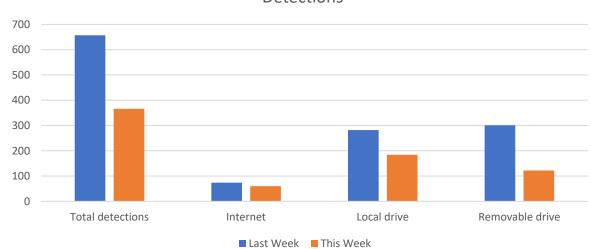
Handling

**Practices** 



#### **ENDPOINT PROTECTION**

# Statistics shown in Security information and event management (SIEM)



#### Detections

#### Endpoint Protection:

	Department	New	Total
	Name	Endpoints	Endpoints
1	DAL		3
2	DFCDR		1
3	DICT		145
4	DIRD		82
5	DPE		39
6	DPLGA	1	103
7	ICAC	3	47
8	MSHQ		37
9	NCDPHA	4	16
10	NCOBA		24
11	NCSC		27
12	NEFC		3
13	NFA		1
14	NPS		3
15	PMNEC		139
16	PNGCS		1
17	SILAG		131
18	EHP-UBD		1
	*UNKNOWN		61
	Grand Total	8	865

\* Departments are required to use a standard pamina convention



## NATIONAL CYBER SECURITY CENTER OPERATIONS



#### // Threat Details

On July 19, 2023, the MDR team was alerted to 'EQL-WIN-CRD-PRC-NTDSUTIL-CREATE-FULL-1' activity on host of the active of the act

masquerading as a legitimate file, and side-loading malicious code. We noted process activity for the user **Graphica** dimin' on the host **Graphica** which resulted in the legitimate process 'C:\Program Files\Common Files\microsoft shared\ink\ShapeCollector.exe' reaching out to the remote domain 'gw[.]allstaffs[.]net', which appears to be unexpected activity. The initial execution of 'ShapeCollector.exe' was initiated remotely from an unprotected host at address **Graphica**', which resolves to the hostname **Graphica** RINT-ICT'.

#### // Priority 1 Recommendations

1. Confirm if the activity described in our emails until date is expected.



3. Block the domain gw[.]allstaffs[.]net and remote IP address are not 165 at your network perimeter.

4. Perform domain-wide credential reset on administrator and service accounts, and all other accounts.

5. Reboot hosts

6. Configure Fortinet Firewall to not be public-facing:

Fortinet:

Device: FortiGate-81F

Model: FGT81F

Serial Number: FGT81FTK21010034

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# THANKYOU