

Department of Information And Communications Technology



CYBERSECURITY AND GOVERNANCE

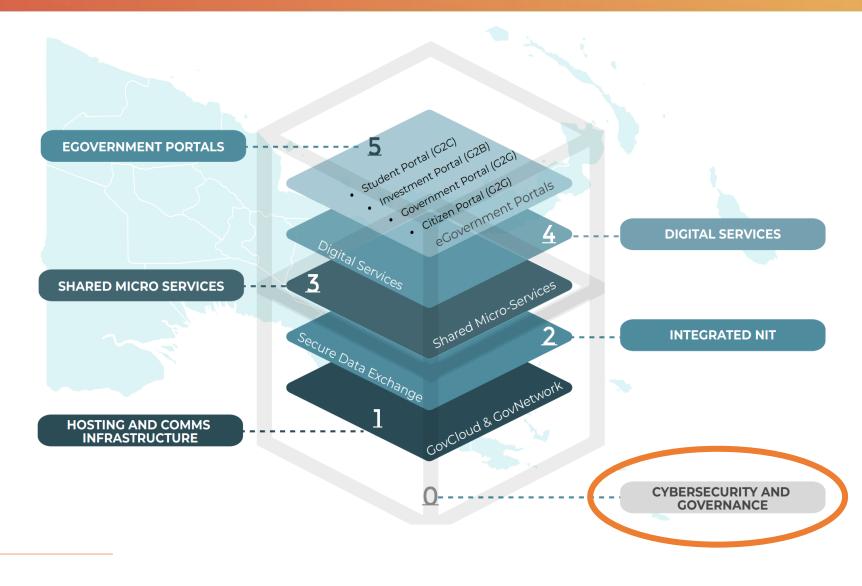
BY GEORGINA KIELE

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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

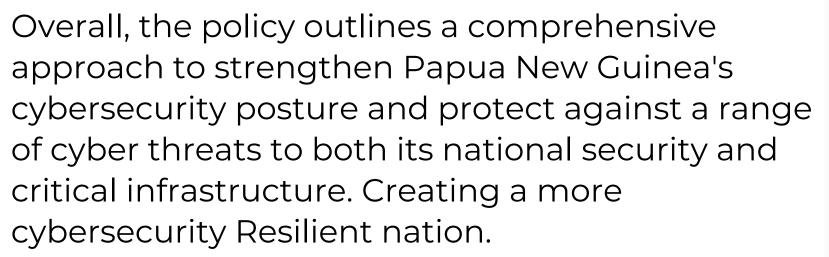
Other key points in the policy include:

- 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





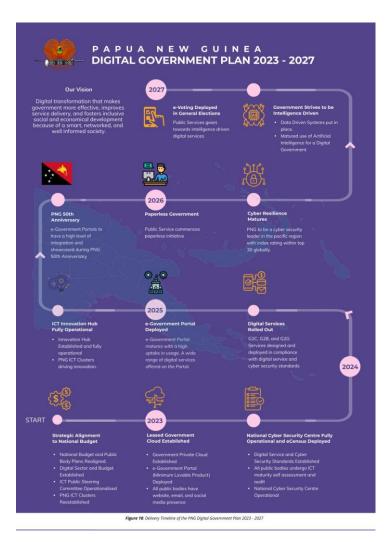


2023

- 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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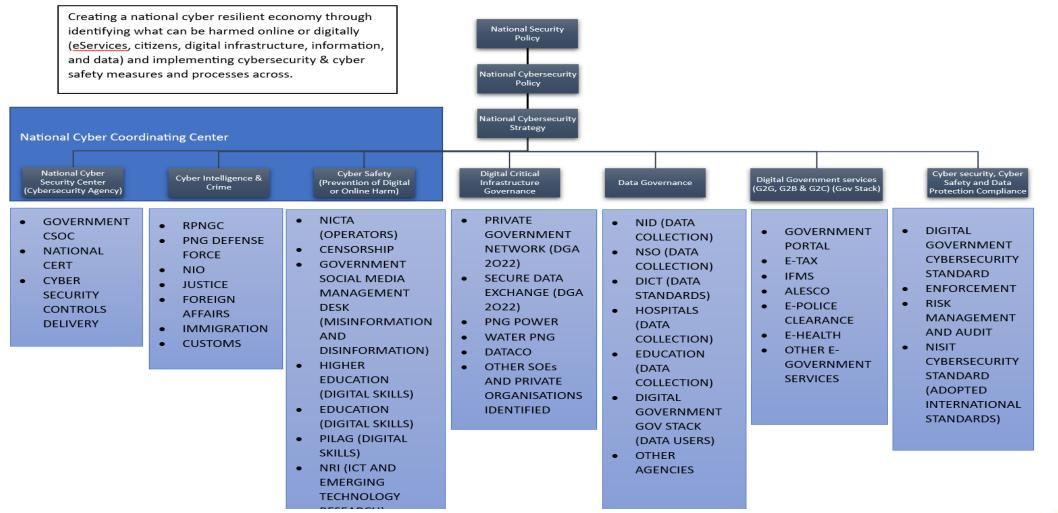
Digital Government Cyber Security Standards

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

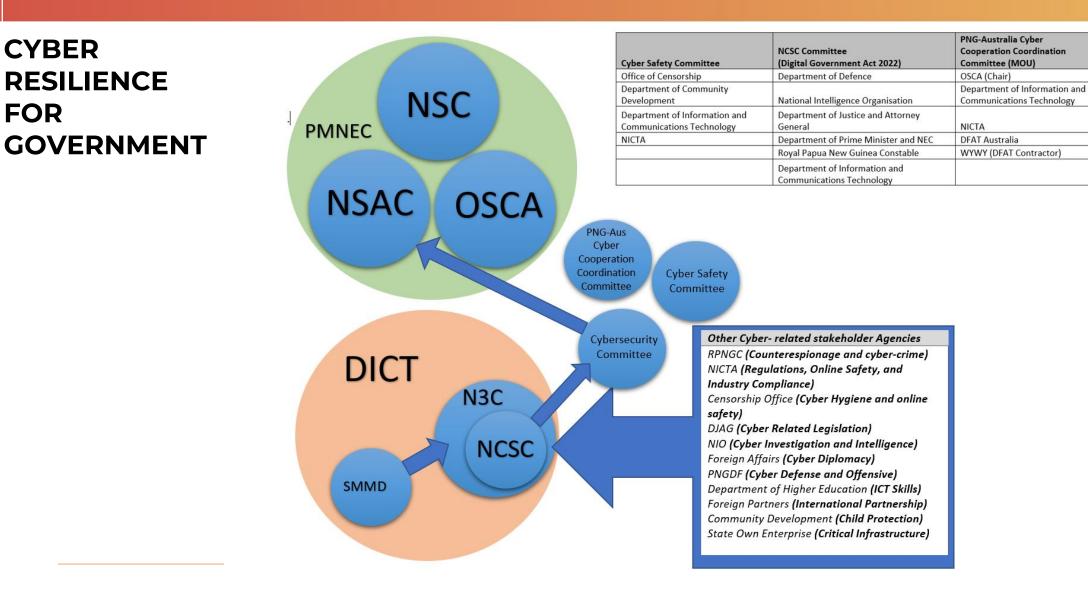


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NATIONAL CYBER COORDINATING CENTERN (N3C)

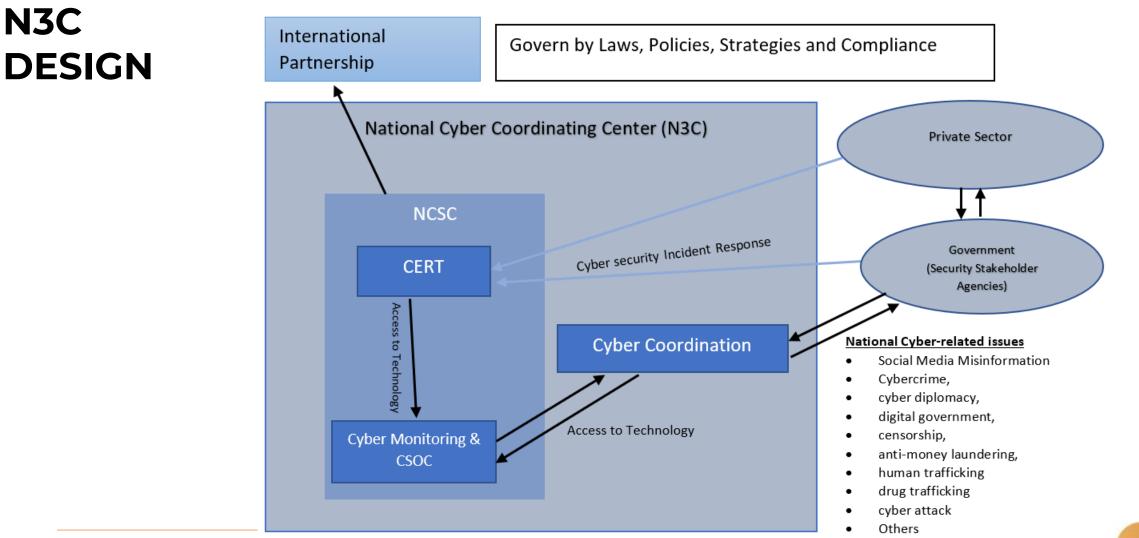




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NATIONAL CYBER COORDINATING CENTERN (N3C)



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THE NATIONAL CYBERSECURITY CENTER OPERATION

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OPERATIONS UPDATE

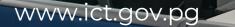
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NATIONAL CYBER SECURITY CENTER OPERATIONS

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

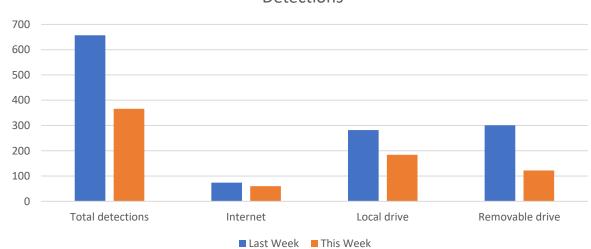
Handling

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