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National Guard Cyber Support

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Cyber Initiatives in Oregon



- In September 2016, Governor Kate Brown issued Executive Order No. 16-13 entitled "Unifying Cyber Security in Oregon"
- In July 2017, Senate Bill 90 was enacted.
 - Unification of agency information technology security functions.
 - State agency coordination
 - Oregon Cybersecurity Advisory Council
 - Oregon Cybersecurity Center of Excellence
 - Authority of State Chief Information Officer to enter into agreements
 - Moneys from federal government and other sources
- In July 2018, the ORNG's DCOE began working with the OTFC to improve the quality and timeliness of cyber intelligence sharing with SLTT partners.
- In fall 2018, the DCOE will coordinate with the Oregon Secretary of State's security team with regard to cybersecurity of election infrastructure.



Traditional National Guard Missions





The Guard has a unique dual mission, with both federal and state responsibilities. During peacetime, Guard forces are commanded by the governor through a state adjutant general.



The governor can call the Guard into action during local or state-wide emergencies, such as storms, drought and civil disturbances.





Duty Statuses Applicable to the National Guard



STATE FEDERAL

	State Active Duty	Title 32	Title 10		
Command and Control	Governor	Governor	President		
Where	In State or State to State	United States	United States and Global		
Pay	State	Federal	Federal		
Discipline	State Military Code	State Military Code	UCMJ		
Mission	State Domestic Operations	Federal Training & Missions	Overseas Training & Federal Missions		
Types	Law Enforcement support in authority of state law	Law Enforcement support in authority of state law	Law Enforcement within the U.S. limited by <i>Posse Comitatus Act</i>		



Cyber Mission Types



- Ongoing example: ORNG partnership with ESO and the OTFC to perform Cyber assessments for State customers (i.e. Counties, Cities, Schools, etc..), in order to increase their cyber posture.
- <u>As Needed</u>: State directed SAD and Title 32 missions to support CTAA. Guidance for these missions are dictated by DoD Policy Memo 16-002.
 - Title 32 Missions must not interfere with ORNG training requirements or unit readiness.
 - SAD Missions must be authorized by the Governor and pre-funded or reimbursed by the supported entity

Acronyms:

DCOE – Defensive Cyberspace Operations Element ESO – Enterprise Security Office

CTAA – Coordinate, Train, Advise, and Assist DSCA - Defense Support of Civil Authorities

OEM – Office of Emergency Management OMD – Oregon Military Department

SAD – State Active Duty

JRIC – Joint Regional Intelligence Center

DAS – Department of Administrative Services OTFC – Oregon Titan Fusion Center

NTOC – NSA/CSS Threat Operations Center NCCIC – National Cybersecurity and Communications Integration Center



Mission Roles and Responsibilities



- During a large scale cyber event, the Governor will activate NG cyber teams to assist State, Local, Tribal, and Territorial
 governments with combating cyber-attacks and restoring critical Industrial Control Systems Supervisory Control and
 Data Acquisition (ICS-SCADA) infrastructure (i.e. dams, power plants, mass transit) and services lost or damaged resulting
 from cyber-attacks.
- Deputy SECDEF Policy Memo 16-002: Cyber Support and Services Provided Incidental to Military Training and National Guard Use of DoD Information Networks, Software, and Hardware for State Cyberspace Activities.
- Presidential Policy Directive 21 (PPD-21): Critical Infrastructure Security and Resilience, signed June 2013, identified 16 critical infrastructure sectors:
 - Chemical
 - Commercial Facilities
 - Communications
 - Critical Manufacturing
 - Dams
 - Defense Industrial Base
 - Emergency Services
 - Energy

- Financial Services
- Food and Agriculture
- Government Facilities
 - Includes Cybersecurity of Election Infrastructure
- Healthcare and Public Health
- Information Technology
- Nuclear Reactors, Materials, and Waste
- Transportation Systems
- Water and Wastewater Systems



Additional Talking Points



- Cyber Incident Severity Schema
- Information Sharing and Analysis Organization
- NSA/DHS National Centers of Academic Excellence (CAE)
- Cyber Storm and Cyber Shield
- Cybersecurity of Election Infrastructure



Contact Information



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National Cyber Incident Response Plan (NCIRP):

https://www.us-cert.gov/ncirp

SLTTGCC Cyber Resource Compendium:

https://www.dhs.gov/publication/slttgcc-cyber-resource-compendium

JP 3-12 - Cyberspace Operations:

http://www.jcs.mil/Portals/36/Documents/Doctrine/pubs/jp3 12.pdf

Cyber Incident Severity Schema:

https://it.ojp.gov/GIST/178/File/Cyber%20Integration%20for%20Fusion%20Centers.pdf#page=29

NCCIC Cyber Incident Scoring System:

https://www.us-cert.gov/sites/default/files/publications/NCCIC Cyber Incident Scoring System.pdf

National Guard Cyber Defense Teams:

http://www.nationalguard.mil/Portals/31/Resources/Fact%20Sheets/NG%20Cyber%20Defense%20Team%20Fact%20Sheet%20(Dec.%202017).pdf

DTM 17-007 – Interim Policy and Guidance for Defense Support to Cyber Incident Response

http://www.esd.whs.mil/Portals/54/Documents/DD/issuances/dtm/DTM-17-007.pdf

CNGBI 3000.04 – National Guard Bureau Domestic Operations

http://www.ngbpdc.ngb.army.mil/pubs/CNGBI/CNGBI%203000.04 20180124.pdf

Cybersecurity Act of 2015

https://intelligence.house.gov/sites/intelligence.house.gov/files/documents/jes%20for%20cybersecurity%20act%20of%202015.pdf



References (Continued)



Oregon Emergency Operations Plan, Incident Annex 10 – Cyber Security https://www.oregon.gov/oem/Documents/2015 OR eop ia 10 cyber.pdf

National Exercise Program - Principals' Objective # 1: Intelligence and Information Sharing https://www.fema.gov/media-library-data/1531316812629-998bade9a8215eda367591b98963c0ec/NEP PO1 Fact Sheet 20180330.pdf

National Exercise Program - Principals' Objective # 4: Cyber Coordination https://www.fema.gov/media-library-data/1531317306234-5d5135caa2604e6e8fea7f4f4f2cb2b6/NEP_PO4_Fact_Sheet_20180330.pdf

National Cyber League https://www.nationalcyberleague.org

NSA/DHS National Centers of Academic Excellence (CAE) Requirements https://www.iad.gov/NIETP/CAERequirements.cfm

Designation of Election Infrastructure as a Critical Infrastructure Subsector https://www.dhs.gov/news/2017/01/06/statement-secretary-johnson-designation-election-infrastructure-critical

Example: California National Guard's Cyber Network Defense Team Reimbursement Authority http://web1a.esd.dof.ca.gov/Documents/bcp/1819/FY1819 ORG8940 BCP1751.pdf

Example: California National Guard's Cyber Service Catalog https://cdt.ca.gov/services/wp-content/uploads/sites/2/2017/02/CND-catalog.pdf

NG Cyber Capabilities Overview for Vigilant Guard 2018 https://wss.apan.org/ng/VGCTTX/Shared%20Documents/NG%20Cyber%20Capabilities%20Overview%20for%20VG18.pptx





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Backup Slides



DCOE Mission Execution



- Prior to the start of the mission, all DCOE team members are required to sign a Non-Disclosure Agreement (NDA) with the Customer.
- The DCOE Team Chief, along with the Customer, conduct a walk through of what is expected during the inspection prior to the mission being conducted.
- At the conclusion of the mission the Customer is provided with additional verification of, or updated information on, the Cyber Security posture of their network.
- All confidential materials are destroyed immediately after the tests, insofar as the information is not necessary for drafting the test reports. The remaining information is destroyed once the final report is submitted to the Customer.
- General trend information is collected from each mission and rolled into a final statewide, non-attributable report, providing feedback on the Cyber Security Assessment mission.
- DCOE Team deploys to assist organizations as "third party" SME's in cooperation with ESO, ensuring the following:
 - Empower the customer with the knowledge and tools needed to improve their cyber posture.
 - Create an experience that will build good relationships and provide a valued service for the customer.



Cyber Incident Severity Schema



Incident Level and Coordination

		Handling Precedence			
	General Definition	Interagency Coordination	Targeted Entity Contact ⁱⁱⁱ		
Level 5 Emergency (Black) ^{vi}	Poses an imminent threat to the provision of wide-scale critical infrastructure services, national government stability, or the lives of U.S. persons.	Immediate. An appropriate agency will initiate ECAP conferencing procedures.	If relevant and as needed.		
Level 4 Severe (Red)	Likely to result in a significant impact to public health or safety, national security, economic security, foreign relations, or civil liberties.	Immediate. Elevate to the CRG ^{ix} for rapid consultation; possible initiation of ECAP. ^x Convene UCG ^{ix} and C- CAR, ^{xii} as appropriate.	Immediate		
Level 3 High (Orange)	Likely to result in a demonstrable impact to public health or safety, national security, economic security, foreign relations, civil liberties, or public confidence.xiii	Begin coordination within 1 hour. Elevate to the CRG for its awareness and deliberation. Convene UCG and C-CAR, as appropriate.	Initiate contact withi 8 hours; in-person response within 24 hours.		
Level 2 Medium (Yellow)	May impact public health or safety, national security, economic security, foreign relations, civil liberties, or public confidence.	Begin coordination within 4 hours.	Initiate contact withi 24 hours; in-person response within 5 days.		
Level 1 Low (Green)	Unlikely to impact public health or safety, national security, economic security, foreign relations, civil liberties, or public confidence.	Discretionary	Discretionary		
Level 0 Baseline Unsubstantiated or inconsequential event.		Not warranted	Not warranted		

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Skillsets and Capabilities



Skillsets	Capabilities
 Operating System environments 	 Shared Situational Awareness – share, receive, filter/tearline, and broker cyber threat intelligence reports to/from the Customer, OTFC, ORNG JOC, ESO SOC, JRIC, NGCC, DHS NCCIC, NSA NTOC, and others
• Networking	 Network Scanning and Mapping - generate an independent, third-party perspective on the number, and types, of assets on the Customer's network
concepts and technologies	 Network Information Assurance Vulnerability Assessment (IAVA) Scan - scan the Customer systems for known vulnerabilities and common misconfigurations
 Network security assessment 	 Wireless Network Scan - ensure that all wireless hardware and networks are properly configured and secured using current best practices
techniques and	Audit Log Review - ensure that proper logs are kept on activity within the network
proceduresIndustry standard	• Firewall Review - verify firewall configurations, status of ports and the authorization of services/data flow running through the ports
security certifications include • Net + • Sec+	 Network Security Procedural Review - consult with the Customer on the current Security Management Posture of the network; identify security managers, security management procedures, limitations in management of the network (training, Hardware /software deficiencies, personnel); provide recommendations to enhance network security management posture
• Linux+	• Physical Security Review - a non-invasive, comprehensive examination of the physical security controls
• CEH • CCNA • CISSP	• Network Security Education - consult with the Customer on any additional training that is needed to enhance security posture of the network
• GCFA • GCIH • GCED	 Website Vulnerability Assessment (UPON REQUEST) - provide Customer with a passive scan of hosted websites in order to validate the security of web applications utilizing open source tools.

NG Duty



Cyber Activities and Authorities



_	Cyber Activity	Led k	у		Status	_
	Title 6 (Homeland) - Homeland Security - Critical Infrastructure - Homeland Defense & Operational Support		DHS DOJ	GUARD IN	Title 32 SAD	
<u> </u>	State Law Support		Gov/TAG	300	SAD	TO ACHIEVE CYBER SECURITY
US Code Provides		EXECUTED	DoD IC	NATTIONAL (Title 10 Title 32	
Direction 00		THAT ARE	DHS DOJ	SUPPORTED BY I	Title 32 SAD	
	Title 44 (Information Security) - National Security Systems		DoD	100g	Title 10 Title 32	
	Title 50 (Intelligence) - Counterintelligence - Intelligence Nets		DoD IC	SUF	Title 10 Title 32*	*Title 50 activities may be conducted in Title 32 Duty Status when training
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National Guard can support cyber operations across the entire cyber spectrum under Title 32, Title 10, and State Active Duty (SAD) statuses



Funding



Duty Status	State Active Duty	Title 32 502(a)	Title 32 502(f)(1)	Title 32 502(f)(2)	Immediate Response Authority
Description	Activation of NG by the Governor.	Planned NG Training. (One weekend a month, two weeks a year.) Additional training can be conducted pending availability of funds.	Planned NG Training with incidental benefit to an event. (Can be in addition to annual training requirements.)	NG operations with no other purposed than to conduct a specified mission	CDR's authority, in emergency circumstances where prior authorization is impossible, to engage temporarily in activities.
Funding	State Funded.	Federally appropriated training funds.	Federally appropriated training funds.	DoD funded or reprogrammed training funds.	Based on current duty status.
Considerations	Used at the discretion of the state at the cost of the state. No DoD funds are given.	Annually appropriated training funds. Statutorily mandated. Used for training purposes. Can be used to provide incidental support to an event.	Allows training with incidental benefit to an event. Requested by TAG. Approved by CNGB. Can also be additional training.	Used for activities that have a federal nexus. Can be in the form of authority only. Appropriateness, resource dislocation, Availability, Cost	(1) such activities are necessary to prevent significant loss of life or destruction of property (2) Authorities are unable or decline to provide protection for property gov functions.
References	As applicable to the respective state's laws	32 USC 502, SECDEF memo dated 16 DEC 2013 Leveraging Military Training	32 USC 502, DODD 3025.18, DODI 3025.20	32 USC 502, DODD 3025.18, DODI 3025.20	32 CFR 185.3, DODD 3025.18
Historic Events	Boston Marathon, Kentucky Derby, Illinois' floooding, ect ect.	RNC/DNC, NATO	Presidential Inauguration, NSJ, RNC/DNC, NATO Summit	Presidential inauguration, funerals, FEMA MAF sourced NG	California wild fires



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