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Marine Corps Network Operations and Security Center



AFCEA Quantico-Potomac Chapter

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Commanding Officer

7 March 2013

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Code Talkers Hall

“During World War II, the Marine Corps used one of the thousands of languages spoken in the world to create an unbreakable Code: Navajo” *Source CIA Website*

1918	Cherokee	2 nd Battle of Somme
1919	Choctaw	Meuse-Argonne
1944	Comanche	D-Day Landing
1942-1945	Navajo	Guadalcanal/Peleliu/Iwo Jima

“The entire operations was directed by Navajo code... They sent and received over 800 messages without error. Were it not for the Navajo code talkers the Marines never would have taken Iwo Jima” –

Major Howard Connor, 1945

The MCNOSC works every day to keep 21st Century Marine Corps communications just as secure



MCNOSC Mission

MCNOSC directs global network operations and computer network defense of the Marine Corps Enterprise Network (MCEN) and provides technical leadership ... in support of Marine and Joint forces operating worldwide.

Vision: We arm the Marine Corps for success on the network-centric battlefield by enabling secure, global information exchange across the full spectrum of operations.



Marine Corps Enterprise Network (MCEN)

The MCEN encompasses the **entirety of the Marine Corps'** general service (**NIPR and SIPR**), common user **network environment**, to include all communication circuits and attached devices and systems. The MCEN is comprised of the garrison network (**both NMCI and Legacy**), **deployed/tactical networks**, and infrastructure that supports access to Defense Information Systems Agency (DISA) managed **mainframe computer services**. The MCEN is the Marine Corps portion of the overall DoD Global Information Grid (GIG).

Total MCEN NIPR Hosts: ~115K+ (Garrison & Deployed)
Total MCEN SIPR Hosts: XXK (Garrison & Deployed)



US CYBER COMMAND



USSTRATCOM



USCYBERCOMMAND



MARFORCYBER



ARFORCYBER



FLEETCYBER



24th Air Force



MCNOSC



AGNOSC



ACERT



NCDOC



NNWC



NIOC



624th Operations Center





Opportunities

- MCEN Unification
- Seamless support from Fighting Hole to the Industrial Base
- “Operationalization” of Cyber
- #1: Network fit to Marine Corps’ Operational needs





Focus on Operating Forces Worldwide

- 24/7/365 Reach through NETOPS C2
 - Operations Center
 - Enterprise Services
 - Defensive Cyber Operations
- Deployed Support Teams
 - Predeployment training
 - Exercises & Operations
 - Custom Support to MARFORS & MEFS

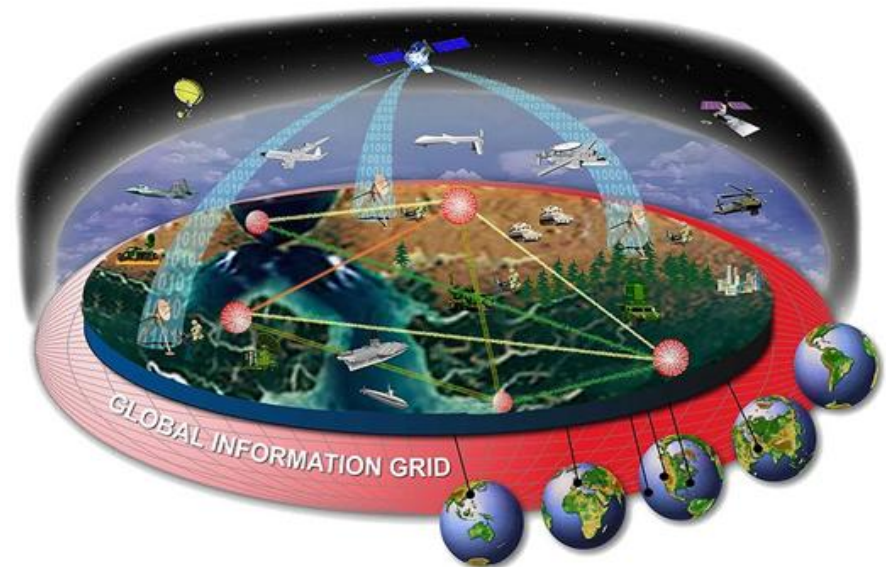


Centralized Management & Decentralized Execution Across the MCEN & Around the World



Operationalize Cyberspace

- Only man-made warfighting domain
- Sun Tzu and Clausewitz still apply
- General Mattis' 3 Flat A\$\$ Rules
 - Unity of Command
 - Geometry of Fires
 - Guardian Angels





Arrive to the Future

- Partnerships
 - Marine Corps: MARFORCYBER, HQMC, Marine Corps Systems Command, Marine Corps Installations Command
 - Operating Forces
 - Joint
 - Industry
- Creativity



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Questions?



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