

This Briefing is: UNCLASS/FOUO





•As troop levels increase, demand for services will increase, NetOps elements must quickly meet current demand and posture for future demand based on force packages and planned movements

•The goal of the NetOps framework is to create a culture where unity of effort takes precedence over control of effort---a departure from past NetOps constructs

•NetOps elements focus on delivery and management of IT services within the AOR.

•NetOps will focus on the critical components of Enterprise Management, Content Management and Network Assurance using a Service Management framework



## **NetOps Governing Tenets**

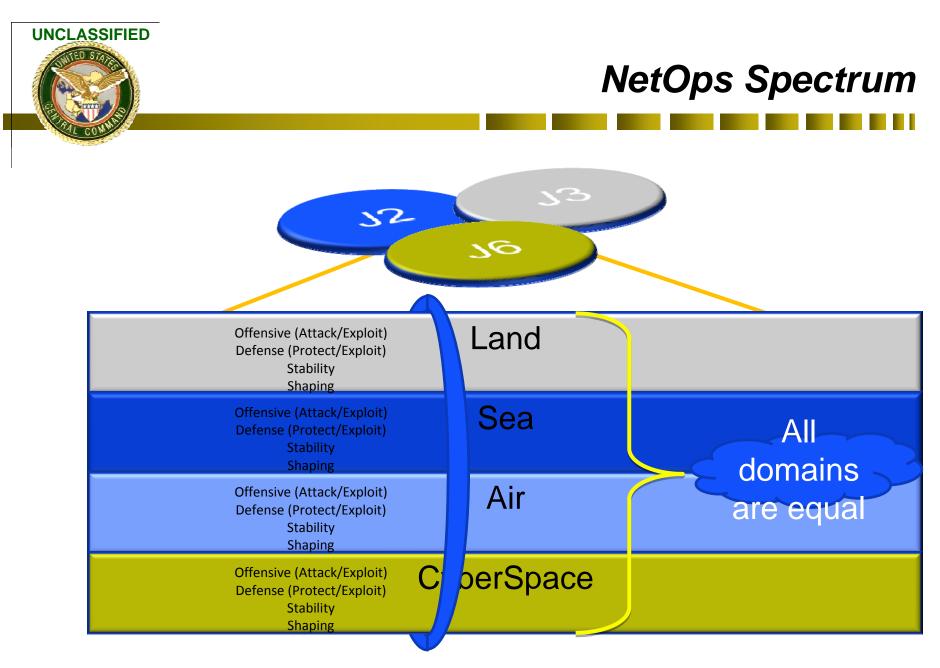
NetOps framework must be consolidated to the operational chain of command

•NetOps authority can be delegated and delegation can vary by phase of operation

•Commanders with NetOps authority will:

• Define NetOps authorities within his assigned battlespace or functional task force authorities

•Be responsible for Information assurance/Computer Network Defense(IA/CND) posture of the network across the full scope of his NetOps authority



Integrate C4ISR approach into entire theater

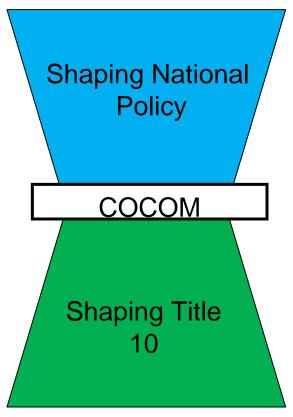
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# Role of USCENTCOM in NetOps

- C4ISR approach for entire theater
- Ensure the full spectrum of NetOPs is enabled
- Linkage to J2, J3/ Cyberwarfare and to AOR

CyberCommand & other National Command



Warfighter



 Coordinate and synchronize efforts of J2, J3 and J6

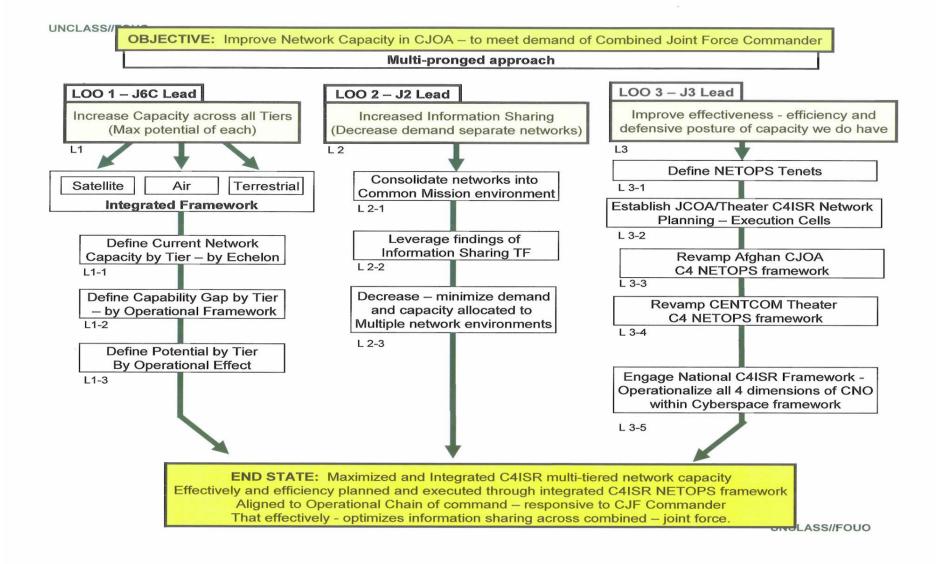
Provide network support to the CJOA

• Increase capacity, optimize and gain efficiency

 Improve information sharing by creating a common mission network

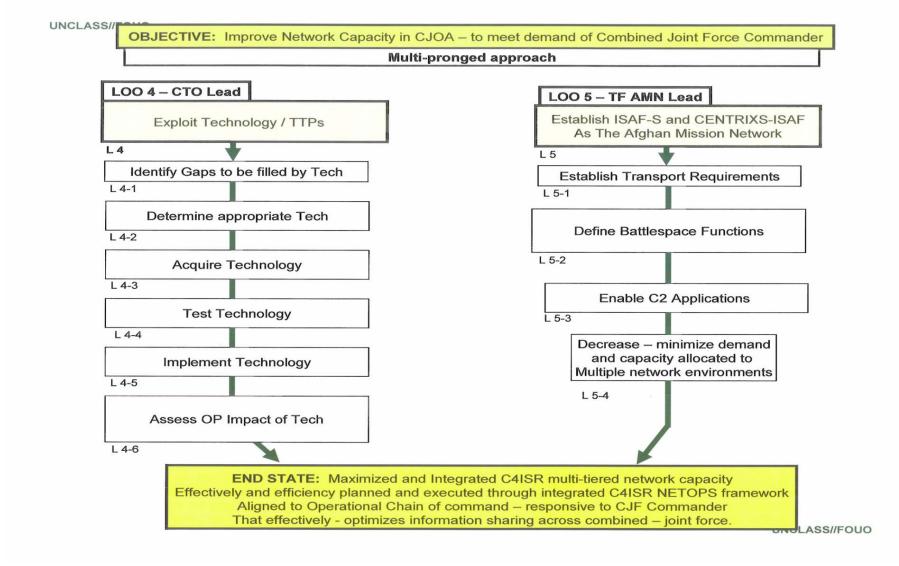


#### TF 236 Lines Of Operation



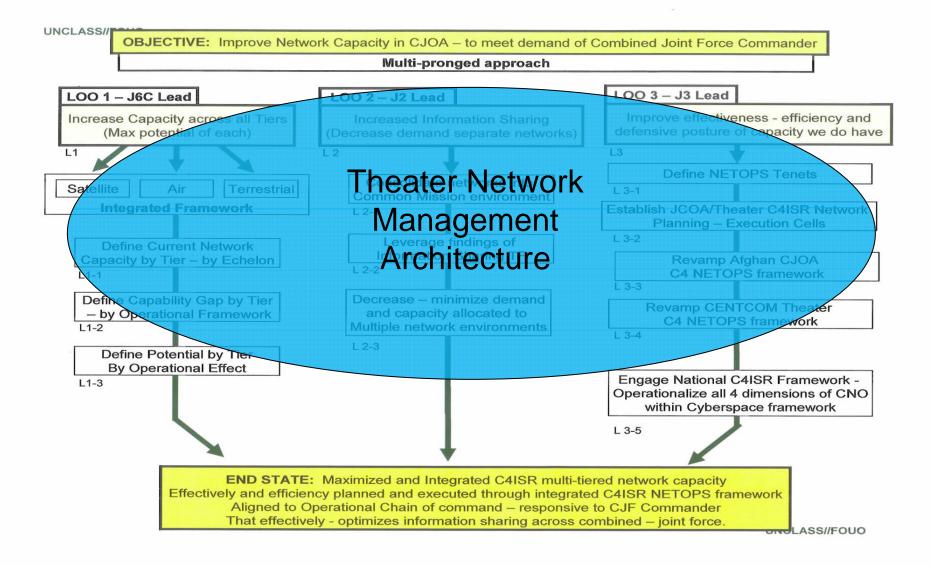


#### TF 236 Lines Of Operation (cont)





#### **Baselining the Network**



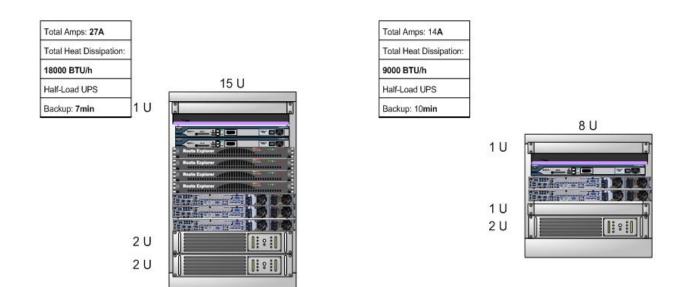


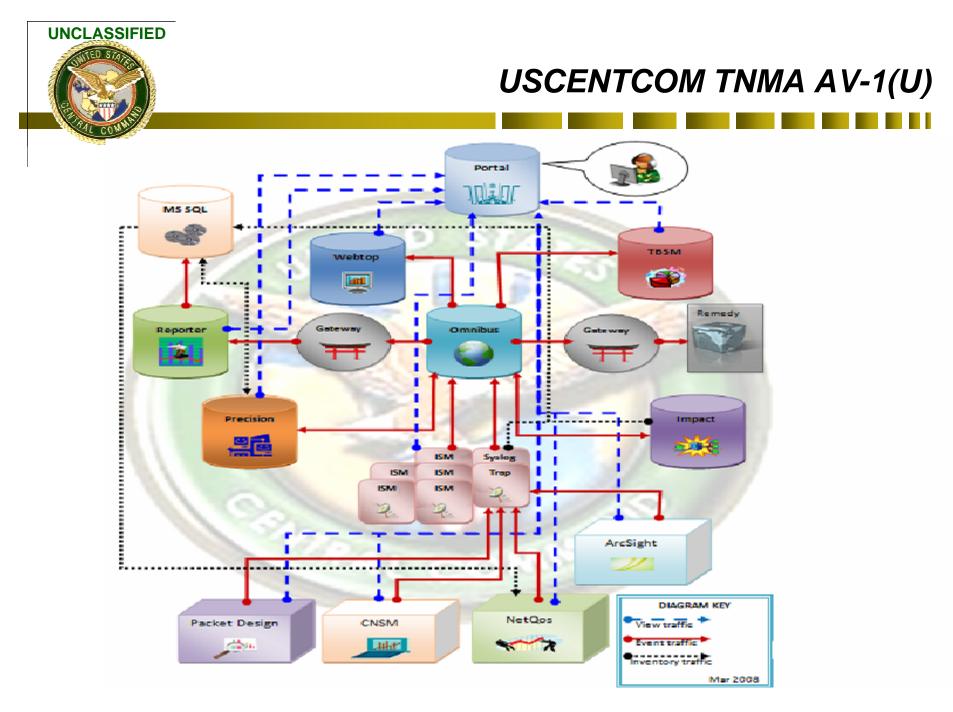
- Vendors traditionally prefer appliance based solutions
- Rack, Power, Ping are a scare resource within the CJOA
- Tiered information sharing and access to Network Management information
- Visibility to Security devices and information, has traditionally been second hand through the Title 10 organizations
- Interoperability with indigenous tools
- Training and Sustainment



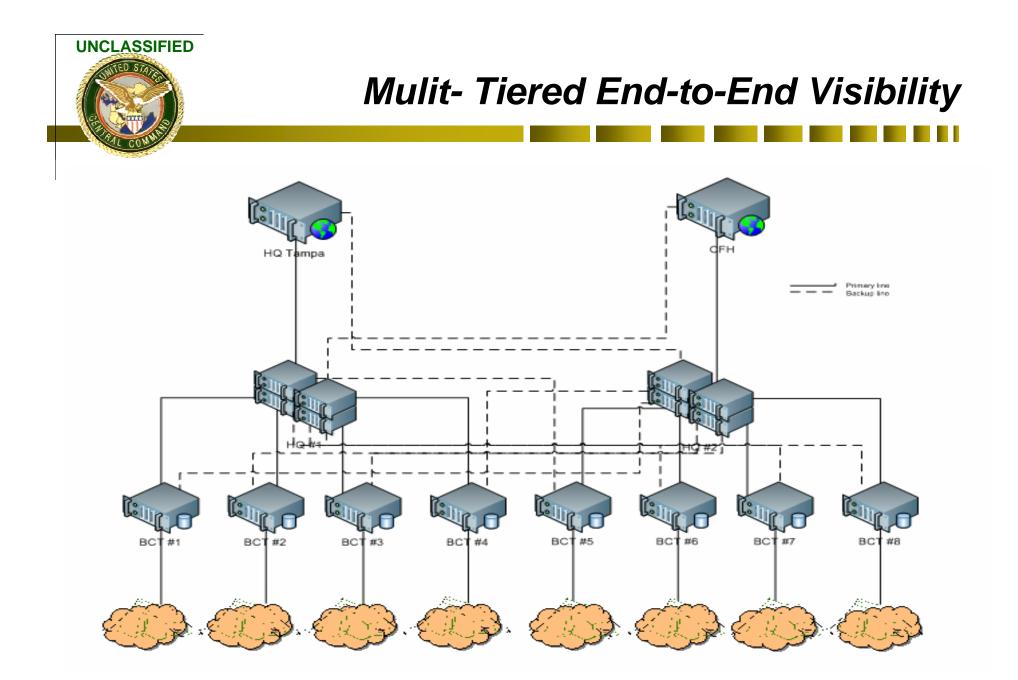
## Virtualized and Ruggedized

# THEATER NETWORK MANAGEMENT ARCHITECTURE (TNMA)

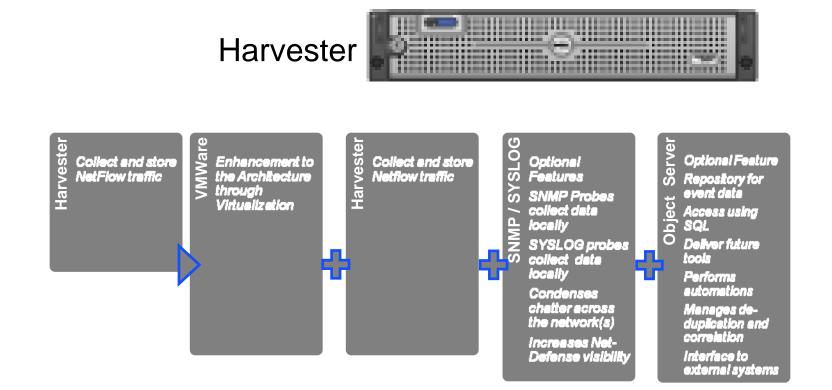




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- Implement a fully integrated, robust tool suite supporting real-time, correlated configuration, performance, status/event, and topology information in a common format enabling analysis and modeling capabilities available to all Components, JTFs, and Agencies
- Makes Service Assurance and Service Delivery possible across the network
- Enhances network defense through information exposure
- TNMA deployed on SIPR, NIPR and CX-I networks in the CJOA



# Questions?



- Donn Westerhoff, USCENTCOM CCJ6 Chief Technology Officer, 813-827-4557, westerda@centcom.mil
- Allen Noble, FedtechServices, 813-774-8060, anoble@ezfts.com