



John C. Stennis
Carrier Strike Group
N6 Post Deployment Brief
27 July 2011 – 02 March 2012



ITCS(SW/AW/NAC) Robert Riccitelli

Report Documentation Page

Form Approved
OMB No. 0704-0188

Public reporting burden for the collection of information is estimated to average 1 hour per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington VA 22202-4302. Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to a penalty for failing to comply with a collection of information if it does not display a currently valid OMB control number.

1. REPORT DATE MAR 2012	2. REPORT TYPE	3. DATES COVERED 00-00-2012 to 00-00-2012	
4. TITLE AND SUBTITLE John C. Stennis Carrier Strike Group N6 Post Deployment Brief 27 July 2011 - 02 March 2012		5a. CONTRACT NUMBER	
		5b. GRANT NUMBER	
		5c. PROGRAM ELEMENT NUMBER	
6. AUTHOR(S)		5d. PROJECT NUMBER	
		5e. TASK NUMBER	
		5f. WORK UNIT NUMBER	
7. PERFORMING ORGANIZATION NAME(S) AND ADDRESS(ES) John C. Stennis Carrier Strike Group, Naval Base Kitsap, Bremmerton, WA, 98314		8. PERFORMING ORGANIZATION REPORT NUMBER	
9. SPONSORING/MONITORING AGENCY NAME(S) AND ADDRESS(ES)		10. SPONSOR/MONITOR'S ACRONYM(S)	
		11. SPONSOR/MONITOR'S REPORT NUMBER(S)	
12. DISTRIBUTION/AVAILABILITY STATEMENT Approved for public release; distribution unlimited			
13. SUPPLEMENTARY NOTES Presenter at the 2012 US Navy and US Marine Corps Spectrum Conference, held in San Diego CA, on 27 Feb - 02 Mar 2012			
14. ABSTRACT			
15. SUBJECT TERMS			
16. SECURITY CLASSIFICATION OF:			17. LIMITATION OF ABSTRACT Same as Report (SAR)
a. REPORT unclassified	b. ABSTRACT unclassified	c. THIS PAGE unclassified	
			18. NUMBER OF PAGES 12
			19a. NAME OF RESPONSIBLE PERSON



Voice over Secure Internet Protocol (VOSIP)

Observations

- Reliable, secure comms relied on for Strike Group, Warfare Commander, CO, TAO, LNO discussions
- Secure, easy to use, high quality, joint, quick, affordable ~\$250 (v. \$3k/STE)
- No keymat required, less admin/overhead
- Non-std install approval ISO C5F Ops
 - C5F 170547ZOCT11

Discussion

- Once installed and configured in C7F, VOSIP quickly became the comms path of choice for secure phone calls.
- Supported OPSEC
- Used extensively for Air Defense Exercises with the CAOC
- Relied on for Warfare Commander synchronization

Recommendations

- Fund call managers at fleet NOCs
- Establish as a program of record
- Expand to unsecure VoIP
 - Allows for dynamic bandwidth allocation for phones



Strike Group Commander's tool of choice. If he could spend one more dollar...



Full Motion Video (FMV)

Observations

- JCSSG Strait of Hormuz transits
 - 20 Sep 11 (inbound) CDLS
 - 8 Oct 11 (outbound) CDLS, Rover 4/5
 - 12 Nov 11 (inbound) MC2
 - 27 Dec 11 (outbound) CDLS, MC2

Discussion

- Critical for situational awareness:
 - Used to identify unknown contacts
 - Critical to identify and track Warships
 - Verify intent
 - Monitor counter-piracy events and relay to HHQ for public affairs
- Video streamed to warfare commander watch stations via SIPR
- Real-time streaming to NAVCENT limited

Recommendations

- Fund FMV as a Program of Record
- Standardize CPED, establish Navy wide CONOP, TTPs
- Develop video feed for both internal viewing and external (HHQ)
- Exercise use during FRTP





JCSSG MC2 Video Scout install



Ad-hoc installation not ideal. Need fully developed solution.



Global Broadcast System (GBS)

Observations

- Potential to be a great resource
 - Split IP, Imagery (standing deck and ad-hoc), UAV (Predator/Raptor), TURBULENT WAVE, Legacy web downloads, 3 TV Channel broadcast
- No formal IT technician or end user training
 - Very little knowledge at CSG/CVN
- Difficult to manage
 - Broadcast footprint, theater chops, different process for each fleet

Recommendations

- Establish CONOP
- Establish formal GBS training for users and technicians-like 'ISNS end to end training'
- Exercise use during FRTP
- Establish standardized fleet Global Mission Requests (GMR) and Tactics, Techniques and Procedures (TTP)
- Make legacy web downloads transparent to users
 - Seed web cache with downloads

Discussion

- Critical for imagery downloads
- Other than imagery, GBS added little value
- Shore support not available 24x7
- Legacy web downloads were incomplete and not useful
- Maintaining system is manpower intensive

Untapped Potential
Too unreliable to rely on



Link Redundancy for Reliability

Observations

- Systems are fragile
- Utilized every data path and piece of equipment to keep COP
 - RF/Sat Link 16, HF/UHF Link 11, JREAP-C
- Large AOR required extensive use of SAT J and JREAP-C

Discussion

- High number of CRUDES CASREPs
 - Avg fix 2.5 wks.
- C5F JNL problems
- Shutdown of Link 16 towers in Iraq forced HF Link 11 as long haul link
- Ships conducting similar missions had to use SAT J/HF 11/JREAP-C
- Joint community using JREAP-C almost exclusively

Recommendations

- Maintain redundancy on link systems
- JREAP-C is way of future operations, connectivity easier
- Expedite fielding of Next Generation Command and Control Processor (NCG2P)
- Establish forward deployed Maintenance Assistance Module (MAMs) with high fail cards and chassis
- Establish forward deployed tech support



LINK Frequencies

Observation

- ❑ The Joint Information Control Officer (JICO) requires the use of frequencies listed in the Numbered Fleet Commanders OPTASK Link.

Discussion

- ❑ While deployed, transiting Strike Groups utilized link frequencies promulgated in the numbered fleet's OPTASK link vice frequencies provided by the standing CSG communications plan provided by the numbered Fleet Commander.
- ❑ While in C5F, the NMCSO disapproved C5F OPTASK Link frequencies for CSG maritime operations.

Recommendation

- ❑ Coordination required between various joint and Navy/Marine Corps spectrum offices to ensure no frequency conflict exist and frequencies are authorized for use throughout the AOR.



IP reliance

Observations

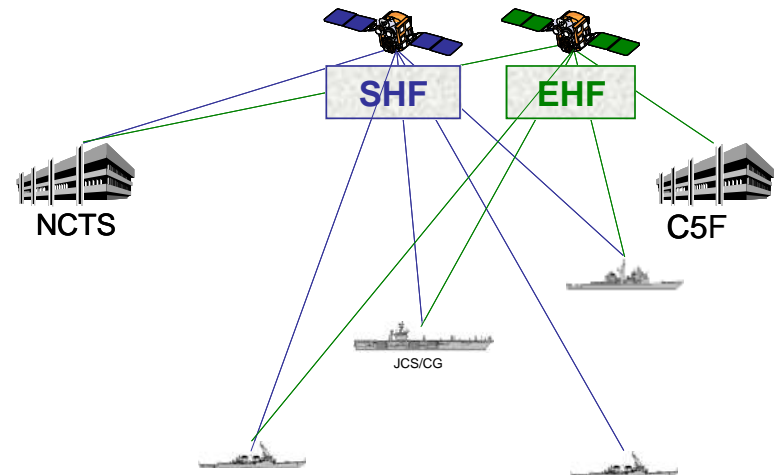
- All Strike Group functions are increasingly dependent on IP services
- Mission critical: time sensitive I&W feeds, command and control systems, NSAnet access, EP-3 and BAMS-D imagery, FMV, VTC, VOSIP, Logistic, Medical
- SHF cutovers can be difficult
- ADNS is single point of failure

Recommendations

- Redundancy required in satellites, frequencies and data paths
- Continue funding for SHF DSCS and CBSP
- Pursue larger allocation of bandwidth as an increasing number of war fighting systems are dependent on IP services
- Implement smart bandwidth usage
 - Authorized compression software
 - Acceleration
- LNO at shore station during cutovers

Discussion

- Redundancy is required to support war fighting
- Using SHF cross-patch, 8 Mbps DSCS carried NIPR services, routinely saturated
- Intelligence community migrated to reach back support, heavily dependent on IP services
- Unacceptable outages during SHF cutovers





C7F SATCOM Coverage GAP

Observations

- Transiting westbound from the Strait of Malacca, we experienced a UHF SATCOM coverage gap.
- Same gap in coverage experienced during eastbound transit

Discussion

- Impact:
 - No dedicated CSG DAMA package
 - No UHF DAMA voice communications with CTF 70
 - No dedicated GBS spot beam
 - Loss of LR SPRAC coverage

Recommendations

- ❑ Educate strike groups on expectations and coverage during transit. Two false planning assumptions for the last 3 CSGs:
 - ❑ C7F/CTF 70 knew about the gap in coverage
 - ❑ CSG DAMA package would transition to next UFO Satellite
 - ❑ Pursue solution to address coverage gap



We were not the first CSG to transit, but it seemed that way.



HYDRA

Observation

- HYDRA Radio use is restricted in all Gulf Co-operative Countries in order to avoid interference with trunked mobile radio systems.
- Similar restrictions exist in the 7th Fleet AOR for Japan port visits.

Discussion

- Ships must request approval from 5th Fleet N6 and NMCSO CENT Bahrain at least 96 hours prior to entering any port.
- Contact Numbers for each ship is required for an individual who can immediately secure transmissions if necessary.

Recommendation

- Channelization plans for each ship must be provided to the Strike Group Staff N6 and N39 shops prior to deployment to avoid delays in approval to operate.
- Securing of topside antennas will alleviate interference issues while still meeting Force Protection requirements.



RSN – USN PASSEX

Observation

- PASSEX conducted with the Republic of Singapore Navy and the John C. Stennis Strike Group from 30 Jan -02 Feb 12.
- Exercise was conducted using UHF LOS communications with HF as a backup. This required each ship to re-configure their communications suite.

Recommendation

- Warfare Commanders must provide input for communications guard requirements.
- Senior Leadership must be briefed on guard requirements and changes to standing communications configuration.

Discussion

- RSN-USN Planning conference was held at Changi Naval Base on 27 January. RSN communications requirements were more extensive than previously briefed by CTF 73 (4 UHF/HF voice nets, 2 UHF/HF Link). RSN listed over 20 VHF/UHF/HF voice and data nets.
- Minimal attendance by JCSSG personnel hampered dissemination of information.

Additional Information

- RSN conducts all exercises in local time vice Zulu.
- Plain voice used due to non-compatible encryption devices on RSN ships. RSN expects to have new crypto gear by summer of 2012.
- RSN very pleased with level of participation of USN and communications excellence.



N6 LL Topics

- **VOSIP**
- **FMV: MC2 Video Scout, Rover, Hawklink, CDLS**
- **GBS: Imagery (standing deck and ad-hoc), Legacy web scrapes, Predator, TURBULENT WAVE, Split IP, TV broadcast**
- **JADOCs**
- **Airwing NMCI embarkables**
- **Airwing Tactical iPads**
- **Link redundancy and spares**
- **CTN skill set in the CSG**
- **IAVA's**
- **CENTRIXS peripherals**
- **IAWF training**
- **C7F SATCOM dead zone**
- **IP reliance**
- **COMPOSE software issues**
- **JCS ISNS**
- **SIPR REL for UK Pilot**
- **HBSS**
- **Intel Systems: DCGS-N, TSVOSIP, Gale Lite Proforma Feed**
- **JICO: GCCS/CV-TSC; install Tacview for ADC**
- **distance support, VRAM, Retina**
- **Goods: JADOCs, C5F support, VTC, CTF 50 CAS, CENTRIXS CAS, CENTRIXS ISAF, Hawklink, DCO, COOPEX, Comms Denied tabletop, Fighting Hurt drills, SHF Cross patch**