

# EC08 Daily Report

22 Jul 08

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## Australia – DIGO

*Location: DIGO in Canberra, Australia*

*POC(s): Jeff Frazier / Mitch Honeysett*

- Personnel: 8 personnel with no issues to report
- Activities:
  - Summary of Planned Activities:
    - Received and installed KG-250
    - SOCET and CGS Training
- Imagery Products:
  - Products Collected: Canned Scan Eagle FMV
  - Imagery Quality: Slight noise and occasional pixilation
- Summary:
  - Successes:
    - Received and installed KG-250
    - GBS operational

## Canadian Army – Task Force Victory

*Location: ECR*

*POC(s): Major Keith Laughton*

- Personnel: 49 personnel with no issues to report
- Activities:
  - Summary of Planned Activities: All sensors deployed
  - Significant Issue: Access to CFE has been achieved; working on resolving configuration problems with CSD
- Imagery Products:
  - Products Collected: Still imagery from Coyote and TSK
- Summary:
  - Successes:
    - Still images sent in near-real-time by TSK via MCR for first time
    - Sensor contact reports posted to coalition partners via chat for first time
  - Lesson Learned: MCR practical limitations on imagery quality still to be defined
  - Where Help is Needed: No access to-date to EO/TI/SAR/GMTI from other EC08 sensors

## DCGS-A V3.0 and V3.1

*Location: Danville, Echo, 513<sup>th</sup> and Ft Monmouth*

*POC(s): David Usechak*

- Personnel: 3 personnel at Danville, 2 personnel at Echo, 1 personnel at 513<sup>th</sup> and 12 personnel at Ft Monmouth with no issues to report
- Activities:
  - Summary of Planned Activities:
    - Continue to conduct DIB federation testing with other nodes
    - Continue to collect data from the sensor systems
    - Attempt to receive SIGINT from CGS
    - Attempt to build an SA overlay using MTI and SIGINT data
    - Attempt to conduct fire mission threads with AFATDS
  - Significant Issue: High speed guards are still not working and therefore we cannot federate with the CFBLnet
- Imagery Products:
  - Products Collected:
    - MTI from both JSTARS and ASTOR
    - SIGINT from RJ
    - Imagery from RAPTOR
- Summary:
  - Successes:
    - We were able to access sensor data from several different systems via the metadata catalog and then we were able to build an SA overlay
    - We were able to conduct several fire missions from Echo with AFATDS at Ft Monmouth
- Additional Comments: Status of DCGS-A node connections:
  - There are a total of 16 external nodes:
    - DCGS-A V3.0 status is: 7 nodes are green and 5 are yellow
    - DCGS-A V3.1 status is: 10 nodes are green and 2 are amber

## DCGS-N

*Location: DCGS-N Integration and Development Lab, SPAWAR Systems Center, Charleston, SC*

*POC(s): T.K. Quigley*

- Personnel: 4 personnel with no issues to report
  - Data Collection/Management SMEs returned to NSWC Corona, CA today – they intend to return to Charleston on 30 July to participate in PDM III tests and complete data collection activities
- Activities:
  - Summary of Planned Activities:
    - Continue search/discovery/retrieval of data using other DDTE node's portals and DIB query tools
    - Complete software changes required to search our DIB via the Fleet Enterprise Search, and return the correct results
      - This includes verifying the expected return from the Portal web proxy, which will be used during inbound NCES keyword query searches which will be conducted with the GSIL
  - Significant Issue: We continue to work to resolve minor issues affecting search web service of our IPL
    - We believe the problem may be related to IPL 6.0 implementation
    - Our Enterprise Engineering team is trying to recreate the issue at vendor sites to see if they can create a fix to the IPLWS application
- Summary:
  - Successes: Completed all planned objectives
    - Able to see 13 portals, access 6 and get metadata results from one – unable to pull any products
    - Search of our DIB via the Fleet Enterprise Search returned the expected/corrected results
      - This means the NCES adapter to the DIB is working properly and talking to our 1.3 Federated Search aggregator

- Received the expected return from the Portal web proxy
  - Based on this, we believe GSIL personnel will return results from our DIP during NCS keyword query tests planned for tomorrow
- The IPL search web service is experiencing a problem that may be related to the IPL 6.0 implementation
  - Working to recreate the issue on their side to see if we can create a fix to the IPLWS application
  - We expect to begin our work with personnel at the GSIL tomorrow at 0830
- Where Help is Needed: Would like Charles Wiggins to call re his email on DDTE DNS
  - VOIP: 768302 or commercial 843-218-5463/Kevin Quinn

## **DGS-X**

*Location: Langley AFB, DGS-X*

*POC(s): Chris Hadley*

- Personnel: 4 personnel with no issues to report
- Activities:
  - Summary of Planned Activities:
    - Support DIB federation across the DDTE enterprise
    - Function as a TPED node for U-2 and Global Hawk missions
    - Test DCGS 10.2 ingest capabilities of other available imagery from additional platforms during EC08
  - Significant Issue: Despite specific attempts to address DIB incompatibility between the AF and Army systems, we have not been able to successfully federate between the two sites
    - A more focused attempt at solving this issue will be attempted tomorrow
- Imagery Products:
  - Products Collected: NITF and MPG data from successfully federated DIB nodes

## **DHMO / DIA HUMINT Team – MIV-G**

*Location: Michelson Labs*

*POC(s): John Grant / Matt LeClaire / Bert Newton*

- Personnel: 3 personnel with no issues to report
- Activities:
  - Summary of Planned Activities:
    - Access PRISM HUMINT module
    - Continue to make access to MIV-G data on CFE, COI and DDTE available to all on those networks
    - Coordinate with SensorWeb to replicate the configuration of CFE to view MIV-G data on the COI and DDTE networks through SensorWeb
    - Troubleshoot Self-tracking BGAN INMARSAT antenna for near-real-time streaming of MIV-G data
  - Significant Issue: Still working issue with software and SIM chip status for self-tracking BGAN INMARSAT antenna for near-real-time streaming of MIV-G data
- Summary:
  - Successes:
    - Accessed PRISM HUMINT module on CFE and conducted chat with JSIC participants
    - Access to MIV-G data is available on CFE (with GoogleEarth integration) and COI (without GoogleEarth integration) to all on those networks
    - Coordinated with SensorWeb to replicate the configuration of CFE to view MIV-G data on the COI and DDTE networks through SensorWeb was accomplished; however, we need admin permissions on DDTE to install the MIV-G GeoViewer software
    - Self-tracking BGAN INMARSAT antenna for near-real-time streaming of MIV-G data still has issues with software and SIM chip
  - Lesson Learned: The configuration issue to view MIV-G on the COI through SensorWeb is now understood and is a significant lesson and plus to interoperability throughout a network
  - Where Help is Needed:
    - Need admin permission on DDTE to install GeoViewer software to view MIV-G data

- Need to socialize our plan to broadcast near-real-time MIV-G data from a moving platform (Ground Vehicle) to a stationary platform and possibly into one of the test networks
- Additional Comment: It would be a plus to have a PRISM administrator here for EC08

## **DTRA / Targeting P-ISR and Agent Logic**

*Location: Michelson Labs (Room 136 and 409), China Lake / WMD Response Cell, Joint Intelligence Lab, Suffolk, VA*

*POC(s): Evan Madsen (China Lake Targeting P-ISR) / Dave Pyle (JIL WMD Response Cell) / Bill Boylan (Agent Logic)*

- Personnel: 2 personnel at China Lake and 4 personnel at Suffolk with no issues to report
- Activities:
  - Summary of Planned Activities: Targeting P-ISR (China Lake)
    - Developing WMD Time Sensitive Targeting (TST) CONOP to be demonstrated during MDA scenario execution
    - Perform MDA ground scenario
    - WMD TST thread dry-run with DTRA personnel in the JIL
    - DTRA will participate actively in the MDA ground events on 23 and 29 Jul
- Summary:
  - Successes:
    - Targeting P-ISR (Suffolk)
      - Performed abbreviated MDA ground dry-run with China Lake
      - Passed hazard prediction plumes to GoogleEarth on CFBL and DDTE
      - Continuing to evaluate ability to pass and integrate WMD hazard prediction products (e.g. shapefiles, KML files) with COP systems (C2PC, FalconView, GoogleEarth, etc.)
      - Accomplished initial integration testing with Agent Logic
    - Agent Logic:
      - Passed chemical sensor activation via RSS feed from Agent Logic to APIX viewer (Targeting P-ISR system in JIL)

## **GBS – CFBLNet – Project Diamond**

*Location: JARIC and Digby*

*POC(s): Andy McAleer / Flt Lt Neil Towers*

- Personnel: 15 personnel with no issues to report
- Activities:
  - Summary of Planned Activities:
    - Try to Publish reports onto IPL Co-Host and prove connection and passage to China Lake IPL
    - Attempt to download from Diamond Site to CFBL using CD RW and onto IPL Co-Host
    - Prepare for VIP visit (DGIC) tomorrow
    - Create product from ASTOR NITF and repost to IPL
  - Significant Issues:
    - Lack of live FMV continues to hamper progress
    - Still awaiting PICTE
    - Unable to load JTIDS and CoT cop feeds – attempting to investigate
- Imagery Products:
  - Products Collected: Predator from DGS-4 Scan Eagle Video Feed
- Summary:
  - Successes:
    - Retrieved ASTOR products from China Lake IPL
    - IPL confirmed serviceable and holding up fine
    - Burnt to CD from Diamond Site to CFBL
    - Downloaded from Diamond Site to CFBL using CD RW and onto IPL Co-Host
    - Steve Etheridge managed to get GoogleEarth to give us the air picture, but only using the administrator accounts
  - Lesson Learned: Images from Diamond Site require specific changes to metadata to be able to load onto IPL Co-Host
  - Where Help is Needed:

- Need assistance from Duane Brown to load RAPTOR sensor model into SOCET GXP
- Still awaiting clearance for PICTE to be released onto CFE for download
- Still waiting final confirmation of thread to run for VIP visit tomorrow
- McAleer and Reeves coordinating with appropriate ESG and White Force reps
- Additional Comment: Although no live feed, have managed to be fairly productive in preparation for VIP visits 23 and 24 Jul 08

## JBAIIC

*Location: Echo Range NAWC China Lake, Ridgecrest, CA*

*POC(s): Charley Hart*

- Personnel: 27 personnel with no issues to report
- Activities:
  - Summary of Planned Activities:
    - Biometric event – exfiltration of biometric data from the depths of a cave and transmission to Biometric Fusion Center and National Maritime Intelligence Center
      - JBAIIC personnel successfully tested communications relay from an off-base cave (use coordinated with/approved by the Bureau of Land Management) in anticipation of tomorrow's biometric event
    - Support of DTRA (Defense Threat Reduction Agency) WMD scenario
      - The JMSM/TOC received DTRA test products via JADOCS from the WMD Response Cell in the JIL in preparation of tomorrow's WMD event
  - Significant Issue: At 1535L today, Scan Eagle returned to the air using the newly arrived (20 July) refurbished, tested, calibrated, and certified HoodTech pneumatic launcher (SN002) [See Additional Comments for expanded comments]
- Summary:
  - Successes:
    - Absent the Scan Eagle UAS for the majority of the day, JBAIIC's morning and afternoon activity revolved around supporting the Recon/Scout route clearance effort (Wolf 35), and the Convoy Commander (Falcon 06)
    - JBAIIC's mobile JTAC was able to coordinate three AV-8B/HARRIER strikes, using binoculars equipped with a laser range finder, a hand-held GPS and PRC-152 comms
    - Seven AFATDS simulated 155mm howitzer indirect fire mission were planned and four executed in response to requests for fires (both automated and verbal)
      - These AFATDS missions must be generated through voice comms with Ft Monmouth, NJ due to guard problems (CFE to DDTE) on DCGS-A, preventing connecting to the AFATDS FireClient website
    - The JMSM/TOC tasked an F/A-18 SHARP aircraft with acquiring BDA imagery of a simulated 155mm artillery (cluster rounds) strike
  - Lesson Learned: Today the COP included Global Hawk and JSTARS T3 MTI data, Fusion Exploitation Tool (FET – MIT Lincoln Laboratory) MTI track analysis, as well as Blue Force Tracking data, aircraft LINK-16 tracks with SPOI, and ShotSpotter-generated OPFOR locations
    - JMSM personnel received tippers from, and provided Blue Force situational awareness to Global Hawk/JSTARS T3 GCS personnel through mIRC chat
    - Tippers provided by the UK Sentinel R1/ASTOR Ground Surveillance Aircraft LNO were passed via CoT Chat and voice comms
  - Where Help is Needed: For unknown reasons, DIA/SAIC SensorWeb personnel are reticent to provide TML (Transducer Markup Language) data to JBAIIC via a TML to CoT translator, as discussed during myriad EC08 planning events, and as demonstrated during EC07
    - As a result, the JMSM/TOC CTP and the greater COP does not reflect over 120 deployed unattended ground sensors (UGS) or ArgonST's NightScout stationary, remotely controlled surveillance FMV
- Additional Comments: At 1535L today, Scan Eagle returned to the air using the newly arrived (20 July) refurbished, tested, calibrated, and certified HoodTech pneumatic launcher (SN002)
  - The Boeing/Insitu team, both here and in Bingen, WA worked hard to analyze the telemetry/video of both the two recent launch incidents and the successful launches, instrumented blivet launches at Boardman, OR test range, and both dummy blivet launches (both at China Lake and Boardman)

- Analysis of the data pointed to the former launcher (SN003), which was inducing 1.5 radians/second pitch over moment, more than 50% greater than a calibrated launcher (.6 to .7 rad/s)
- Commander, Naval Air Warfare Center Weapons Division, RDML Duanway; NSWC China Lake Chief Test Pilot, CDR Mark Thomas; and NSWC China Lake Range Safety Officer, Butch Spoons, authorized the renewed Scan Eagle operations

## JITC-DCGS

*Location: Danville, Michelson Labs, Ft Monmouth (NJ), ITSFAC, Charleston (SC), Langley AFB*

*POC(s): Eric Morgen / Lisa Heinemeier*

- Personnel: 16 personnel [11 personnel at China Lake] with no issues to report
- Activities:
  - Summary of Planned Activities:
    - DCGS-I: Attempted data collection but antenna issues resulted in none
    - DCGS-A: 11 of 16 nodes federated and passed data
    - DCGS-N: No further testing until 29 July
    - DCGS-MC: TEG functionality improved; 50% complete with objectives
    - Motion Imagery: TEG, GBS, VPC, MAAS, Concept CAR and FAME, MIV-G data analysis
    - NITF: Analyzed LSRS, ASTOR, LiMIT Imagery data
    - MAJIC: Complete with their assessment objectives; able to test in operational environment
    - DCGS-IC: Solved JWICS issues and worked on using EC08 data Planned Enterprise testing for tomorrow with 4 nodes

## LOS/BLOS

*Location: China Lake / Nellis AFB*

*POC(s): David Setser / Peter Kuhl*

- Personnel: Approximately 100 personnel at China Lake and Nellis AFB with no issues to report
- Activities:
  - Summary of Planned Activities: Planned and flew a joint airborne networking flight with Paul Revere, E-2 XHawk, E-3 AWACS and E-8 JSTARS airborne at China Lake
    - Objective was to exercise NTISR, CAS and Strike threads using JADOCs, Chat and Airborne Web Services software
  - Significant Issues:
    - All platforms flew today; operational checkouts of AWS, JADOCs and Chat were mostly successful
    - Operators used Chat to pass E-3 ESM tracks to JSTARS, which initiated SAR maps of the area
    - XHawk accomplished BDA and ISR threads with F/A-18s, passing SHARP imagery to JADOCs
- Imagery Products:
  - Products Collected: JSTARS collected SAR imagery of suspected emitter locations on Echo Range
- Summary:
  - Successes:
    - Success executing ISR, Strike and CAS threads using all platforms in multiple NTISR/Strike threads
    - Most JADICS, AWACS AWS and XHawk connectivity issues resolved
  - Lesson Learned: JADOCs configuration needs tighter control across all nodes/clients

## MI Pilot

*Location: NAWC China Lake*

*POC(s): John Bordner*

- Personnel: 16 personnel with no issues to report

- Activities:
  - Summary of Planned Activities:
    - Motion Imagery Standards Board personnel are starting to wrap up their collection efforts
    - The next two days are key as there are new systems that are just now coming up; such as China Lake's HSI sensor and hopefully the GA King Air and TigerShark
    - Today's flight schedule was robust, yet in the end very little MI collection was done
  - Significant Issues:
    - The Scan Eagle was only able to accomplish a short 15-minute test flight at the end of the day
      - The flight was successful and bodes well for tomorrow, but no useful MI was collected from it
    - HSI had a successful collection day, yet their imagery was no made available on the CFE net; their engineer said that is being worked
    - Also being worked in the TigerShark imagery that is only viewable by the system operator at this point
      - The BA King Air is on the air schedule for tomorrow, and their imagery releaseability will be addressed
- Summary:
  - Success: Few successes today with regards to Motion Imagery save for the data collection efforts by the MISB personnel
  - Lesson Learned: We just don't have the robust number of MI sensors required to push all the systems
    - Imagery is sporadically being saved and can be played back to fulfill testing requirements, but there isn't really much that affects the actual scenario
    - More systems should be coming on-line tomorrow and Friday
  - Where Help is Needed: Short of calling for an ad-hoc MQ-1 deployment, we are attempting to maximize the use of the limited MI sensors available