

EC08 Daily Report

17 Jul 08

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Australia – DIGO

Location: DIGO in Canberra, Australia

POC(s): Jeff Frazier / Mitch Honeysett

- Personnel: 7 personnel with no issues to report
- Activities:
 - Summary of Planned Activities:
 - Attempt to access still imagery from CSD server
 - Monitor KG-250 progress to Australia
 - Significant Issues:
 - KG-250 left the US yesterday (Thursday 17 Jul 08 US time); expected in Australia 21 Jul 08
 - Still imagery was accessed from the CSD server; however, due to metadata issues, unable to place the annotated NITF's back onto the CSD
- Imagery Products:
 - Products Collected: Still imagery from China Lake that had been placed on the CSD
 - Imagery Quality: OK, but metadata issues stop our ability to re-populate the annotated NITF's back onto the CSD
- Summary:
 - Success: Analysts were able to access still imagery from China Lake that had been placed on the CSD
 - Lesson Learned: A better understanding of the SOCET program to exploit imagery, and the limitations in some area's the program has when compared to RemoteView
 - Where Help is Needed: DIGO IT (Mr. Mitch Honeysett) is looking into the metadata issues

Canadian Army – Task Force Victory

Location: ECR

POC(s): Major Keith Laughton

- Personnel: 53 personnel with no issues to report
- Activities:
 - Summary of Planned Activities:
 - All ground sensors deployed
 - Testing and TTP development ongoing
 - Significant Issues: Still no CFE
 - Have shelter, but no crypto
 - Products from today are ready to push to CFE to be shared
 - If no wire by tomorrow, will air gap

- Imagery Products:
 - Products Collected: Still imagery from TSK and Coyote
- Summary:
 - Success: Passage of still imagery from TSK and Coyote in the field through to Coalition CSD
 - TSK imagery correlated with automated contact reports
 - Lesson Learned: Several lessons relevant to Canadian TTPs
 - Where Help is Needed: CFE remains major outstanding issue

DCGS 10.2 / U-2 & Global Hawk / DIB Federation

Location: Langley AFB, DGS-X

POC(s): Chris Hadley

- Personnel: 6 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: DIB Federation is only partially complete; we continue to work through compatibility issues with the different DIB versions spread amongst the DDTE nodes
- Imagery Products:
 - Products Collected: Continue to work through compatibility issues with the different DIB versions spread amongst the DDTE nodes
- Summary:
 - Success: Expanded full DIB federation to the DCGS-I node

DCGS-A V3.0 and V3.1

Location: Danville, Echo, 513th, and Ft Monmouth

POC(s): David Usechak

- Personnel: 3 personnel at Danville, 2 personnel at Echo, 3 personnel at 513th 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 work on integrating DCGS-A V3.0 BAL into the JBAIIC system at Echo
 - Significant Issue: At the start of the day, the high speed guards to cross-domain data sharing were not place; however, late in the day the guards were approved to operate and they were turned on, and some of the nodes at China Lake started testing this capability
- Imagery Products:
 - Products Collected: DCGS-A continues to federate with external nodes, and the number of successful node connections continues to increase
 - Expect to be able to connect to all nodes by COB on 18 July 2008
- Summary:
 - Successes:
 - The number of nodes that DCGS-A V3.0 and V3.1 can federate with has increased for two reasons:
 - DDTE is starting to stabilize
 - The external nodes are starting to implement the recommended patch
 - The CGS at China Lake published MTI data and Tracks to the DCGS-A at China Lake
 - The CGS at Ft Monmouth received the MTI data and published Tracks to the DCGS-A in the T3 Lab
 - This was the first day in which the ASTOR system was able to provide a significant amount of data; additional operational data will be available starting 18 July 2008
- Additional Comments: Status of DCGS-A node connections – there are a total of 12 external nodes:

- DCGS-A V3.0 status is: 6 nodes are green, 5 are yellow, and 1 red
- DCGS-A V3.1 status is: 9 nodes are green, 2 are amber, and 1 red

DCGS-N

Location: DCGS-N Integration and Development Lab – SPAWAR System Center, Charleston, SC

POC(s): T.K. Quigley

- Personnel: 8 personnel with no issues to report
- Activities:
 - Summary of Planned Activities:
 - Complete repairs required to get our IPL working
 - Verify our aggregator is able to reach the IPL web service
 - Rebuilt content server (aggregator and adapters) and verify communications with IPL and DIB as well as portal interface
 - Validate external user access to the wiki
 - Significant Issue: Need usernames and passwords to access portals of other DDTE nodes
- Summary:
 - Successes: Completed all planned activities
 - Accessed portals of 9 sites
 - Arranged usernames and passwords for 4 sites
 - Attempted federated search on all four, obtaining search results on two
 - Downloaded product from DCGS-A V3.0 at Ft Monmouth

DHMO / DIA HUMINT Team – MIV-G

Location: Michelson Labs / Echo Range

POC(s): John Grant / Matt Leclaire / Bert Newton

- Personnel: 3 personnel with no issues to report
- Activities:
 - Summary of Planned Activities:
 - Conduct tests to determine TT&L system and technical viability in preparation for Friday scenario on Echo Range
 - Continue to make access to MIV-G data on CFE, COI and DDTE available to all on those networks
 - Provide assistance to the JIL to access MIV-G video on the China Lake CFE domain
 - Edit MIV-G data to make more accessible and usable on CFE
- Summary:
 - Successes:
 - Conducted tests to determine TT&L system and technical viability in preparation for Friday scenario on Echo Range (still awaiting results of test)
 - Edited MIV-G data to make more accessible and usable on CFE

DISA – JITC

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

POC(s): Eric Morgen / Jose Jiminez

- Personnel: 20 personnel (13 personnel at China Lake) with no issues to report
- Activities:
 - Summary of Planned Activities:
 - DCGS-I: Limited imagery transfer
 - DCGS-A: 7 of 14 nodes federated and passed data
 - DCGS-N: IPL installed working mapping issues; able to pull data from service portals
 - DCGS-MC: Pulled data from two nodes and limited imagery transfer
 - Motion Imagery: Scan Eagle and Coyote imagery analysis
 - NITF: King Air and ASTOR analysis
 - MAJIIC: Complete with their assessment objectives, will continue to collect and analyze data to confirm observations

- Imagery Products:
 - Products Collected: King Air and ASTOR data
- Summary:
 - Success: DCGS-N, DCGS-MC and DCGS-A were all able to accomplish point-to-point federation and pull data

GBS – CFBLNet – Project Diamond

Location: JARIC and Digby

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

- Personnel: 13 personnel with no issues to report
- Activities:
 - Summary of Planned Activities:
 - Activate SOCET GXP / CGS software tomorrow morning UK time (~0800)
 - Continue to track the delivery of the CGS RAPTOR compliant sensor model from China Lake (Duane Brown) to JIRAC (Tex O'Hare) [Note: RAPTOR sensor model should arrive at China Lake at ~1030 PST on the 17th]
- Imagery Products:
 - Products Collected: Flat JPEG files of RAPTOR, Reaper Lynx SAR
 - Imagery Quality:
 - JARIC: Successfully demonstrated connectivity to China Lake CFBLNet / CFE IPL
 - Retrieved RAPTOR, Reaper Lynx SAR and HERTI test imagery using Q2 (Quick Query) Client
 - Used PowerPoint (SOCET GXP not available at time of test) to produce flat JPEG file (i.e. the "product")
 - Posted flat files to the China Lake CFBLNet / CFE IPL
 - JARIC: Received test imagery via GBS
 - JARIC: Received SOCET GXP / CGS license key from China Lake
 - SOCET GXP / CGS will be useable tomorrow (Friday) morning ~0800 UK time
- Summary:
 - Successes:
 - Began receiving intermittent Scan Eagle video over GBS starting ~2140 local UK time
 - JARIC: Successfully demonstrated connectivity to China Lake CFBLNet / CFE IPL
 - Retrieved RAPTOR, Reaper Lynx SAR imagery using Q2 Client
 - Used PowerPoint (SOCET GXP not available at time of test) to produce flat JPEG file (i.e. the "product")
 - Posted flat files to the China Lake CFBLNet / CFE IPL
 - JARIC: Received test imagery via GBS
 - JARIC: Received SOCET GXP / CGS license key from China Lake
 - SOCET GXP / CGS will be useable tomorrow (Friday) morning ~0800 UK time

LOS/BLOS

Location: China Lake

POC(s): David Setser / Peter Kuhl

- Personnel: 80 personnel with no issues to report
- Activities:
 - Summary of Planned Activities: Fly LOS/BLOS flight event #2 with Paul Revere airborne and multiple ground network nodes at China Lake
- Imagery Products:
 - Products Collected: Ingested simulated GMTI and imagery data from Paul Revere via the airborne network and Airborne Web Services
- Summary:
 - Successes:
 - Completed first LOS/BLOS event with Paul Revere airborne, and communicating with E-2C XHawk and multiple ground network nodes at China Lake
 - Airborne network testing successfully completed with multiple network configurations
 - Accomplished dry-run tests of NTISR threads to be used with full LOS/BLOS system

- Lessons Learned:
 - Need to plan better for the large amount of imagery being ingested by Airborne Web Services
 - Apps configurations should be more stable

MI Pilot (FAME, Smart Video, MISB Pilot, VPC, MAAS)

Location: NAWA China Lake

POC(s): John Bordner

- Personnel: 16 personnel with no issues to report
- Activities:
 - Summary of Planned Activities:
 - Solid collection from Scan Eagle and the General Atomic's King Air
 - VPC and MAAS were up, processing the imagery and providing Situational Awareness for the Air Boss
- Imagery Products:
 - Products Collected:
 - Streaming video for all but 15 minutes of Scan Eagle sortie
 - 15 minute loss due to network issue that was quickly resolved
 - King Air imagery will require downloading from the A/C post sortie and manually loaded on EC08 servers
- Summary:
 - Successes:
 - Solid Scan Eagle sortie
 - FAME is now connected to CFE and will begin processing imagery streams / metadata layers tomorrow
 - FAME will also perform an initial connectivity test with the Harris radios on Echo Range
 - Further engineering work to lower bit rate and increase image quality will need to be done before the initiative is fully operational – FAME people say that should be close to completion by early next week
 - The MISB/JITC team continue to collect data in support of their testing/compliance objectives
 - Lesson Learned: Good day for MI – we are still awaiting successful imagery delivery from the GA King Air platform
- Additional Comments:
 - As a note, the OGC Pilot's TigerShark UAS is collecting MI, but is only MI in the technical sense
 - More specifically, it is producing NITFs (still frame imagery standard) at a rate of 2 Hz which falls within the definition of Motion Imagery
 - Because of that, the JITC MI Lab will not be testing for compliance (but their NITF Lab will), even though the outcome will be of interest to the MI Pilot
 - Also of interest is the cooperation between FAME's initiative to push imagery via the Harris radios and VPC (and will engage MAAS as well)
 - The hope is that fully processed imagery from VPC can be pushed to the fielded warfighter that is equipped with the new Harris radios
 - This type of cooperation is highly encouraged and usually leads to synergistic increases in capabilities
 - With that said, we are also aware of proprietary data/design sharing that must be agreed to by all sides
 - Overall, the sense of cooperation within the MI related initiatives is very commendable

NSG-F, TEG, Co-Hosts, DCGS-IC, CIPs, DEAL

Location: PAX River, Australia, Reston (VA), Michelson Labs and Danville

POC(s): Robert Sacca

- Personnel: Number of personnel varies with no issues to report
- Activities:
 - Summary of Planned Activities:
 - Continue DIB federation

- Additional Comments:
 - NSG-F (China Lake):
 - Completed the DIB checkout
 - SOCET GXP needs to have the license server installed on DC1
 - NSG-F (PAX River): Continued federation with other nodes on DDTE
 - Co-Hosts: IESS contractors continued to refine the IESS installation on the CFE IPL Co-Host
 - TEG:
 - Pulled metadata from 8 sites, and data from 4 sites
 - Verified that SHARP, GH, SYERS-2, A2A, and TAC RECCE (SAR and EO/IR) are able to be cataloged in the MDC
 - DCGS-IC: Continued to work with our data feeds
 - DEAL: Federation changes:
 - Yellow with NSG-F #1 Michelson Labs China Lake
 - Orange with ITSFAC MC Stafford, VA
 - CIP: NSTR

OGC Pilot

Location: NGA Reston 2 and 3 / Michelson Labs, China Lake

POC(s): Sam Bacharach / Tom Merkle

- Personnel: 18 personnel at China Lake and 3 personnel at Reston with no issues to report
- Activities:
 - Summary of Planned Activities: TigerShark flights put OGC storage servers online
 - Significant Issue: Severe frequency interference is creating problems with data and control links to the UAV TigerShark
 - Will be working with China Lake Frequency Manager to identify sources
- Summary:
 - Success: OGC Storage Servers are now online
 - Where Help is Needed: Frequency spectrum interference identification and mitigation

PSTB

Location: Michelson Labs – Room 409

POC(s): Dwayne Squires / Mike Ellert-Beck

- Personnel: 8 personnel with no issues to report
- Activities:
 - Summary of Planned Activities: Provide live intelligence reporting to TF Lancer for GMTI and FMV; if data not available, conduct Bluegrass data scenarios
 - Significant Issues: Lack of situational awareness created hardship for analysts
 - Spoke to “Doc” Burklund and Rodney Brickell about marking Blue Force vehicles so we would know which are our’s
 - We also had no idea how many vehicles were in the convoy or when it SP’ed, or when they reached CPs – that should now be worked out as well
- Imagery Products:
 - Products Collected: Sent two SALT reports via chat and when we received the chemical alert from Agent Logic, we relayed that via chat
 - Imagery Quality: Initial grid coordinate for the chemical release was wrong
 - The grid was wrong on Agent Logic due to a conversion error when they manually converted the Lat/Long from SensorWeb to Agent Logic
- Summary:
 - Success: This was the actual first day of live analysis for the team, so although we did not get GMTI data, we did work out a lot of communications issues between PSTB analysts, TF Lancer and the collection management cell
 - Lesson Learned: Think through problems more thoroughly before posting them in Daily Reports
 - Reported yesterday that bandwidth was probably causing slow Constant Hawk video playback
 - After a good night’s sleep, realized that could not be the real issue
 - More than likely we have disk I/O speed issues; further troubleshooting needed to confirm

- Where Help is Needed: We need reliable GMTI data – it is the only wide area collection platform available to us
- Additional Comments: SensorWeb could be very beneficial
 - Integrating ShotSpotter into their system would be a nice enhancement
 - Know the SensorWeb personnel are already working hard just to get their system fully operational, but I do not think the integration will be too difficult to accomplish
 - ShotSpotter sends out their information in cursor on target messages, which shouldn't be too difficult to parse into SensorWeb
 - May be worth some emphasis from EC08 Leadership once SensorWeb is up

RAF: 5(AC) Sqn, 56(R) Sqn

Location: China Lake

POC(s): Sqn Ldr Tony Reeves / Flt Lt Chris Bishop

- Personnel: 64 personnel with no issues to report
- Activities:
 - Summary of Planned Activities:
 - Federated exploitation at JARIC
 - Observation at Digby
 - Significant Issues:
 - SOCET GXP License (to be fixed 18 Jul 08)
 - GBS fixed but FMV multi-cast unreliable
- Imagery Products:
 - Products Collected: Multiple JPEGs created from a variety of sensors
 - Quality Issue: Unable to re-post JPEGs to IPL
- Summary:
 - Success: Intermittent FMV stream at JARIC