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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:
  Sur
  - Summary of Planned Activities:
    - Continuation training on SOCET/CGS, MITools, MAAS, and CLIC
    - Continue to troubleshoot GBS
  - Significant Issues:
    - Uploading Scan Eagle images to CSD using Mediaware (Mission Monitor)
    - See Additional Comments Uploading imagery to Co-Host and CSD using SOCET
    - See Additional Comments GBS
    - No change in Fazzt status
      - Continue troubleshooting with SBM and TIP
- Imagery Products:
  - Products Collected: Scan Eagle FMV
  - Imagery Quality: Nothing significant; clear FMV and, at times, "choppy" and "pixely"
- o Summary:
  - Successes:
    - Able to do a Scan Eagle live mission and PED products and post to Co-Host and CSD
    - Able to fully test our infrastructures with no significant issues
  - Lesson Learned: SPIA Tag requirements for disseminating products using Mediaware you cannot load images to CSD because CSD does not recognize Mediaware
  - Where Help is Needed: A better understanding of how the taskings are coming down
- o Additional Comments:
  - Uploading Scan Eagle images to CSD using Mediaware (Mission Monitor), we discovered that when you try and upload an image that was captured from Mediaware, the ID default is "Mediaware" and the CSD does not recognize Mediaware, therefore, receive an error and will not upload; however, you can upload to the Co-Host
    - There is a call to the SOCET people to look into this
    - Our fix for now is not to use Mediaware using MITools and MAAS, there is no problem
  - Uploading imagery to Co-Host and CSD using SOCET, we discovered why we were unable to upload images to the Co-Host and CSD... SPIA Tags!
    - With the help from the UK, they walked us through how to fill out the required fields
    - They had the same issues yesterday and, so, therefore, had an answer for us

# Canadian Army – Task Force Victory

#### Location: ECR

POC(s): Major Keith Laughton

- o Personnel: 48 personnel with no issues to report
- o Activities:
  - Summary of Planned Activities: No change from last DSR
  - Significant Issue: Good chat comms with rest of coalition
- Imagery Products:
  - Products Collected: Still imagery from Coyote and TSK
- o Summary:
  - Successes:
    - Successfully moved imagery from TSK without having to put rest of network on standby
    - Passed positional information between sensors
    - Queued between Coyote, TSK and Scan Eagle

## DCGS 10.2

Location: Langley AFB, DGS-X POC(s): Chris Hadley

- o Personnel: 4 personnel with no issues to report
- o 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 Issues:
      - At this time, we have not been able to fully federate with all the DDTE nodes
      - Access to imagery to support exploitation for the GH mission has impacted our ability to support the federated TPED mission
        - We could not access the imagery through DIB federation or through the site IPL
      - There is no clear connection between a scene collected and the exploitation requirement
        - If we can receive imagery, it will be cumbersome to identify the appropriate image to be exploited in connection with a specific requirement

#### o Summary:

- Lesson Learned: DIB federation cannot be the sole method for receiving IMINT for exploitation
  - A back-up method needs to be in place ahead of time in order to address unforeseen system issues associated with DIB federation

## 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, 2 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
    - Continue to receive SIGINT from CGS
    - Continue to build an SA overlay using MTI and SIGINT data
    - Continue to conduct fire mission threads with AFATDS
    - Attempt to exploit Global Hawk data
  - Significant Issue: High speed guards are still not working, and therefore we cannot federate with the CFBLnet

- o Imagery Products:
  - Products Collected: We were able to collect the following data:
    - MTI from both JSTARS and ASTOR
    - SIGINT from RJ
    - Imagery from RAPTOR
    - Pulled SHARP imagery
- o 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 Fort Monmouth
      - We did not exploit Global Hawk because the sensor malfunctioned, and therefore did not fly o Instead we downloaded SHARP data, performed exploitation, and posted the
        - resultant products via the DIB to the IPL
- 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

#### 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
- o Activities:
  - Summary of Planned Activities:
    - Access PRISM HUMINT module and add HUMINT data
    - 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
    - Conduct Demo collect for MIV-G
    - Coordinate with JFCOM JIL to access MIV-G data on CFE
    - Coordinate with JBAIIC Comms personnel to look into injecting MIV-G video over their wireless system, and broadcast near-real-time into the COI
  - Significant Issues:
    - Still working issue with software and SIM chip status for self-tracking BGAN INMARSAT antenna for near-real-time streaming of MIV-G data
    - JIL cannot access MIV-G files on CFE, although they can view them
- o Summary:
  - Successes:
    - Accessed PRISM HUMINT module on CFE and conducted chat with JSIC participants, target data build for HUMINT
    - JFCOM JIL able to see the MIV-G data on CFE; however, they were not able to access it
      Conducted MIV-G collect for future demo purposes
  - 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
    - Need Charles Wiggins and John Murphy to coordinate with JIL tech personnel in order to give permissions to JIL to access and view MIV-G data on CFE

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

Location: Michelson Labs (Rooms 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) / Adam Edleman (Agent Logic)

• Personnel: 2 personnel at China Lake and 4 personnel in Suffolk with no issues to report

- o Activities:
  - Targeting and P-ISR:
    - China Lake:
      - Coordinate DTRA reachback (fwd) cell at the JIL participation in the Multi-Domain Awareness ground scenario
    - Suffolk:
      - Provide Consequence Management (CM) and Consequence of Execution (CoE) decision support products to CAOC-X on the CFBL as events unfold during MDA ground scenario execution
  - Agent Logic: China Lake
    - Detect WND precursor event from open source intelligence
    - Correlate open source information against canned high side intelligence
    - Provide automated ship tracking via AIS data feed on CFE
    - Parse Cursor on Target (CoT) messages to identify location and nature of biometrics events (tasking, collection, identification)
    - Ingest match/no-match report from DoD Biometrics Fusion Center (BFC) for the purpose of high value target detection and alerting
    - Auto-generate warning order to potential target locations based on multi-source intelligence
    - For the MDA Ground Scenario: Detect chemical agent release from SensorWeb, track nearby vehicles based on analyst-created MTI products, and correlate biometric data pulled from vehicles with intelligence from MDA sea scenario
- Imagery Products:
  - Products Collected: Agent Logic (China Lake)
    - SensorWeb geoRSS feed not operational on the DDTE or COI networks; using stored sensor data until feed is up
    - Manually moving AIS data as KMX from CFE to DDTE
    - CoT messages flowing across guard to DDTE and received by Agent Logic UDP listener
    - Manually moving BFC match reports from Internet to DDTE
    - Monitoring PSTB machine on DDTE for analyst-created MTI products in shapefile format
    - Using canned open source intelligence on DDTE
    - Correlating open source intelligence with canned historical terrorist message traffic on DDTE
- o Summary:
  - Successes:
    - Targeting P-ISR
      - China Lake:
        - Provided Time Sensitive Target nomination support, and on-site coordination for CM and COE product tasking and receipt in support of MDA Ground Scenario
        - Suffolk:
          - Monitored JADOCS and the JPS and Operations chats and responded to request for consequence assessment on the WMD vehicle IED event and consequences of execution for strikes on vehicles identified as carrying containers of sarin
          - Performed hazard predictions on DDTE and moved products via the local TASO to CFBL and then published them to GoogleEarth for viewing at CAOC-X, China Lake and elsewhere
    - Agent Logic:
      - o Provided training on rule creation and alerting to PSTB analysts
      - o Suffolk:
        - Operations on DDTE at the JIL
        - Monitoring DTRA share folder for creation of new consequence PST and alerted WMD response cell analysts
        - Alerted analysts on new consequence management report for chemical release [Automatically created rules to deliver reports to analysts interested in chemical sensor events]
  - Lesson Learned: Targeting P-ISR will attempt to modify TTP to enable quicker notification of initial CM and CoE results to decision-makers

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

#### Location: JARIC and Digby

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

- o Personnel: 16 personnel with no issues to report
- Activities:
  - Summary of Planned Activities:
    - Complete RSTA tasking
    - Support VIP visit (DGIC)
    - Create product from ASTOR NITF and repost to IPL
  - Significant Issues:
    - RAPTOR Sensor Model data file here, but unable to load due to timing/support issue (local to JARIC); also, no targets qualified personnel here
    - PICTE software is here now will load tomorrow
    - No RQ-4 data available to exploit on IPL unable to complete RSTA tasking
- o Imagery Products:
  - Products Collected:
    - Predator from DGS-4
    - Scan Eagle live video feed
    - Imagery Quality: Some GBS freeze later on in the period disrupted reporting
- o Summary:
  - Successes:
    - IPL confirmed serviceable and holding up fine
    - Exploited live Scan Eagle feed iso VIP visit
  - Lessons Learned:
    - Appropriate use of LNOs proved invaluable in setting up thread for VIP visit
    - Must maintain constant update on chat to ensure all are kept informed
- Additional Comments:
  - Many thanks to those persons (UK LNOs, White Cell, Ops, and TPED Teams) for providing an excellent thread to support MOD's objectives during DGIC's visit today – please ensure this is articulated at the ESG and All Hands tonight
  - Grateful for similar opportunity tomorrow iso another visit we are happy to fit in the flow, but would appreciate tasking to support FMV over same period as today

#### JBAIIC

Location: Echo Range, NSWC China Lake, Ridgecrest, CA POC(s): Charley Hart

- o Personnel: 30 personnel with no issues to report
- o Activities:
  - Summary of Planned Activities: Continued support of ground vignettes and repetition of WMD and biometrics events
  - Significant Issues: Today, JBAIIC was able to display the Scan Eagle FMV stream in the JBAIIC tactical vehicle on both COI and CFE as an integral part of the CTP
    - The capability to push the CTP with imbedded UAS or aircraft FMV to a moving tactical vehicle may negate the requirement for dedicated video receives such as ROVER that require a dedicated receiver, antenna, laptop PC, and power supply
- o Imagery Products:
  - Products Collected: Biometric data on simulated suspected terrorists associated with today's simulated release of a WMD dispersant and historical association with illegitimate non-statesponsored WMD development
- o Summary:
  - Successes:
    - JBAIIC was able to display the Scan Eagle FMV stream in the JBAIIC tactical vehicle on both COI (300 kbps) and CFE (64 kbps due to guard constraints) as an integral part of the CTPs (GoogleEarth or FalconView)
      - A camera icon displayed on the CTP alerts the user to available FMV
      - o Clicking on the icon points to a video server reflecting the live UAS feed

- Depending on available bandwidth and video quality desired, potentially two or more motion imagery streams could be displayed simultaneously
- The capability to push the CTP with imbedded UAS or aircraft (AT FLIR, Lightning, etc.) FMV to a moving tactical vehicle may negate the requirement for dedicated video receivers such as ROVER (Remotely Operated Video Enhancement Receiver) that require a dedicated receiver, antenna, laptop PC, and power supply (battery or DC/AC adapter)
- In support of the biometrics event, JBAIIC was able to facilitate the movement of both biometric data (fingerprints, dual iris scans, 10 x fingerprints, facial photography, personal data, and full motion video) from the range and an off-base cave (use coordinated with/approved by the Bureau of Land Management) through a complex series of communications links to the Biometric Fusion Center in WVA
  - This effort used the lightweight (3 lbs) CrossMatch Seek ID device, a Sony digital video camera, TiaLinx Cheetah radios, the PRC-117G net, the COI network, the Tactical Network Topology network, and UHF SATCOM
- During the DTRA vignette, the JMSM/TOC coordinated strikes on a suspected WMD cache and a vehicle/personnel suspected of being involved with the deployment of a simulated WMD dispersant
  - DTRA provided Plume Analysis via a GoogleEarth display on CFE as well as alerts via Adobe Connect chat

# JITC-DCGS

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

POC(s): Eric Morgen / Jose Jiminez

- Personnel: 16 personnel [12 personnel at China Lake] with no issues to report
- o Activities:
  - Summary of Planned Activities:
    - DCGS-I: Imagery moved from IPL to HSG; will stabilize architecture and continue testing
    - DCGS-A: 12 of 16 nodes federated and passed data
    - DCGS-N: No further testing until 29 July
    - DCGS-MC: TEG functionality improved; 65% complete with objectives
    - Motion Imagery: 89% complete with available data analysis
    - NITF: Analyzing Scan Eagle and TigerShark data
    - MAJIIC: Continuing to mature data query methods; able to test in operational environment
    - DCGS-IC: Pulled images from the DCGS-IC IPL Enterprise testing with 3 DIB-enabled nodes; images discovered and moved between DIBs but unable to view due to the lack of enterprise services
- o Summary:
  - Success: Successful Enterprise test with 3 DIB-enabled 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
- o 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
    - Objectives 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 partially successful with AWS issues on AWACS
    - Operators again 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
- o Summary:
  - Success: Success executing ISR, Strike and CAS threads using all platforms in multiple NTISR/Strike threads
  - Lesson Learned: JADOCS configuration needs tighter control across all nodes/clients

#### **MI Pilot**

# Location: NAWS China Lake POC(s): John Bordner

- o Personnel: 16 personnel with no issues to report
- o Activities:
  - Summary of Planned Activities:
    - Excellent collection day for Scan Eagle which fed FAME
      - Separate from their metadata enhancement and search function, FAME continued engineering work on trying to improve their image quality while keeping the required bandwidth low enough for transport over Harris radios in the field
    - VPC and MAAS were up all day exploiting Scan Eagle imagery
    - MISB personnel made continued progress with their work with the JITC now reporting 90% complete
- o Summary:
  - Success: Military IAs took still frame extracts, formatted for ingestion into GoogleEarth and sent to Air Boss in support of an MDA thread; provided contextual awareness to the Commander
  - Lesson Learned: The "success" listed above was briefed at the 1700 All Hands meeting and generated a lot of questions and ideas for follow-on activities
    - That kind of interaction highlights one of the main strengths of Empire Challenge as it allows the fusion of ideas, TTPs and systems to provide synergistic increases in capabilities and efficiencies

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

#### Location: China Lake

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

- o Personnel: 64 personnel with no issues to report
- o Activities:
  - Summary of Planned Activities:
    - Federated exploitation at JARIC
    - Capability demo to DGIC at JARIC
    - ASTOR/JSTARS connectivity and interoperability
  - Significant Issues:
    - ASTOR unserviceable
- o Summary:
  - Successes:
    - DGIC visited the JARIC EC08 enclave and viewed a complete mission thread including SIGINT and JSTARS cross-cueing to a Scan Eagle UAV, with JARIC providing live federated exploitation of the FMV in support of the EC08 ground operations
      - The mission thread was a major success and in three hours met many of the DECISTAR demonstration objectives
    - Achieved TGS connectivity with JSTARS, further refining of parameters required
  - Where Help is Needed: Timing and round activity for thread execution 27 Jul 08