

EC08 Daily Report

28 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:
 - Continue to troubleshoot GBS
 - Practice / train FMV process
 - Significant Issues:
 - GBS, GBS, GBS, GBS, GBS... still unable to receive imagery packets for TIP
 - Had little-to-no FMV feed
 - GBS engineers are looking into it
- Imagery Products:
 - Products Collected: Five canned Global Hawk images pulled from the China Lake Co-Host
- Additional Comments:
 - After discussions with the GBS support here in Canberra, the GBS issues of not being able to receive the imagery packets from China Lake has not been resolved
 - Furthermore, after troubleshooting last Friday with the GBS support in China Lake, it has been discovered that the issue is not isolated here in Canberra; it is with all receive nodes
 - The lesson here is for all GBS support to give daily updates to the leads at every node so the leads can feed that information back
 - We may have been able to resolve this issue earlier if the other nodes would have fed this information in a timely manner

Canadian Army – Task Force Victory

Location: ECR

POC(s): Major Keith Laughton

- Personnel: 45 personnel with no issues to report
 - Summary of Planned Activities: All sensors deployed
 - Significant Issues:
 - The video multi-cast issues have been resolved using re-broadcast of the uni-cast
 - The configuration problems with CSD have been resolved – solution is being sent to Australia for implementation
- Imagery Products:
 - Products Collected: Still imagery from Coyote and TSK
- Summary:
 - Success: Exchanging CSD data with Langley
 - Lesson Learned: MCR practical limitations on imagery quality still to be defined

DGS-X

Location: Langley AFB, DGS-X

POC(s): Chris Hadley

- Personnel: 3 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 Issues:
 - We cannot connect to the Cross Domain Solution
 - Platform data-link appears to still be non-mission capable at the test bed site
 - ISR reporting details have not been defined for exploitation and dissemination from the AF PED node
- Imagery Products:
 - Products Collected:
 - IMINT
 - Targeting data from CGS
 - MPEG
 - Raw data from the GH mission
 - JSBA 08 JPEG data
 - Bitmap
 - Imagery Quality: Much of the data available for federation is not EC08-related data and has been populated by simulators to meet non-EC08-related needs
- Summary:
 - Successes:
 - We have expanded AF DIB federation to 9 out of 12 available sites, with 75% completion on the remaining 3 available sites
 - We have successfully exploited two images from the previous GH mission, and have posted the products to our IPL

DHMO / DIA HUMINT Team – MIV-G

Location: Michelson Labs

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

- Personnel: 4 personnel with no issues to report
- Activities:
 - Summary of Planned Activities:
 - Brief DHMO government DV on CONOPS to include use of MIV-G and PRISM
 - Load additional data into PRISM HUMINT module for operations on Tuesday morning
 - Continue to make access to MIV-G data on CFE, COI and DDTE available to all on those networks
- Summary:
 - Successes:
 - Government DV impressed with success at EC08
 - Loaded MIV-G tracks on SensorWeb globe on COI

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 2 personnel at Suffolk with no issues to report
- Activities:

- Summary:
 - Success: Boeing launched a Scan Eagle airframe equipped with both their standard EO FMV sensor and the prototype ImSAR “NanoSAR” synthetic aperture radar (SAR)
 - The NanoSAR in the X band, maps an area in a “strip map” mode at a range approximately .6 mile (1 km), at resolutions of up to 39 inches (01 meter)
 - NanoSAR offers the all-weather, day-night capability of a SAR, but due to power/heat/cooling/weight considerations, the Scan Eagle equipped with NanoSAR was forced to operate below 2,000 ft AGL
- Additional Comments:
 - JBAIIC’s activity today revolved around supporting the Convoy Commander (Falcon 06) with Blue Force Tracking data, Scan Eagle and aircraft LINK-16 tracks with SPOI, ShotSpotter-generated OPFOR locations, Scan Eagle FMV, JSTARS/ASTOR MTI data, and SensorWeb UGS positions
 - Simulated 155mm howitzer indirect fire missions were planned and executed on AFATDS (via DCGS-A) in response to request for fires
 - Additionally, JBAIIC tested DTRA preparations for tomorrow’s WMD / Biometrics vignette

JITC – DCGS

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

POC(s): Eric Morgen / Kelly Straub

- Personnel: 9 personnel [4 personnel at China Lake] with no issues to report
- Activities:
 - Summary of Planned Activities:
 - DCGS-I: NMC
 - DCGS-A: 13 of 16 nodes federated and passed data
 - DCGS-N: 60% of test objectives achieved – further testing through Thursday
 - DCGS-MC: TEG functionality improved; 75% complete with objectives
 - Motion Imagery: 100% complete with available data analysis
 - NITF: 90% complete with data analysis – U-2 and Global Hawk remain
 - MAJIIIC: Continuing to mature data query methods; 100 % complete with objectives
 - DCGS-IC: 100% complete with required objectives
 - Significant Issue: DCGS-I testing will have to occur during EC09 Spiral 1
- Summary:
 - Success: Excellent DCGS-N test results
 - Lesson Learned: Verify system configuration and software loads prior to STARTEX

LOS / BLOS

Location: China Lake / Nellis AFB

POC(s): David Setser / Peter Kuhl

- Personnel: Approximately 100 personnel at China Lake and Nellis 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
 - Objectives was to exercise NTISR, CAS and Strike threads using JADOCs, Chat and Airborne Web Services software
 - Degraded-network testing was planned for this flight event
 - Significant Issues: All platforms flew today, although AWACS was delayed due to a maintenance problem
 - AWACS and the NEP experienced partial AWS outages during this event
 - AWACS and Paul Revere accomplished NTISR and Strike threads
 - XHawk accomplished LINK-16 and JADOCs testing
 - AWACS and PR also worked with EC08 participants to move PR SAR imagery to other CFBL users
- Imagery Products:

- Products Collected: JSTARS collected SAR imagery of tasked areas on Echo Range (quality of imagery TBD)
- Summary:
 - Successes:
 - Partial success executing NTISR and CAS threads using PR and AWACS
 - Successful degraded-network testing
 - Lesson Learned: AWACS and PR experience several AWS problems, and troubleshoot a latent network configuration error that caused red-side network problems between PR and AWACS

SensorWeb

Location: JBAIIC Trailer and tactical sites throughout Echo Range / Michelson Labs Room 409

POC(s): Charlie Gates

- Personnel: 8 personnel with no issues to report
 - Travis Rennemann and Lisa Bradshaw came in on Sunday (SAIC)
 - Nick Bruntes and Brian Pattison came in to support USSOCOM project _OPUS (ProLogic)
 - Ed Yery reports in tomorrow to troubleshoot SDR
 - Matt Strehle (NMMO) reports in tonight
- Activities:
 - Summary of Planned Activities: Scan Eagle demonstration of TML viewer MSP to TML Parser Sensor Planning Service
 - Significant Issues:
 - Generator on Black Mountain went down late Friday night
 - The on/off switch malfunctioned, probably due to vibration
 - Direct wiring overcame the issue
 - Prototype Signature Delay Service (SRD) on Black Mountain is down after previous flawless performance
 - Hand-held Portable Device is a work-around
 - Kudos to L3-Com for sending a technician to troubleshoot this late in the game
 - ArgonST Night Scout still inoperable
 - Standing by to emplace on Black Mountain and connect to COI
- Summary:
 - Lesson Learned: Tool kits handy in vehicles are always a good thing
 - Where Help is Needed: Web Services and KML, CoT and SHAPE file feeds are available through us
- Additional Comments:
 - We are resident on four domains and interactive on two
 - We have a SensorWeb server set on COI (NIPRNet Clone) and DDTE Secret (SIPRNet clone)
 - We have moderate difficulty over the RHSGs NIPRNet (COI) to SIPRNet (DDTE Secret) data flow over the High Speed Guards
 - Our automated inter-service (SOS notifies SAS of new data, SAS goes through subscription lists and passes messages in the desired format [CoT in this instance] to the Web Notification Service for delivery to the designated IP or e-mail address)
 - The four sets of heavy thunderstorms and floods impacted our installed ground sensors
 - Receiving data from the DTRA sensors (chem. / bio, rad, and weather on COI)
 - Connected to IWARN, Silent Agent, JWARN, JPSTB, and JIL with SensorWeb data sending CoT to JBAIIC on COI
 - Connected to Open Geospatial Consortium Pilot Initiatives
 - We are providing data to OGC currently through the support of:
 - Get Capabilities
 - Describe Sensor
 - Get Observations
 - Integrated a Federated Information Discovery (FIND) service supporting SensorWeb discovery on the DIB
 - Test with JRI-SOA did not work
 - They use a DNI 2..4 report and we support another format

- Disseminating georSS feeds to Agent Logic in support of Joint Persistent Surveillance Test Bed
- We currently have the McQ OmniSense (two systems, six sensors each – Acoustic, Passive IR, Seismic, day and IR cameras)
 - These communicate locally by VHF, long haul by SATCOM, are routed through the INSCOM Portal, and are shifted to our static IP address
 - They are showing on SensorWeb
 - Systems are currently showing in SensorWeb and passed through CoT generator to JBAIIC
 - Sensor systems have captured vehicle and personnel in images
 - Acoustic feeds (.wav files) are sent to the Defense Signatures Program (DSP – Formerly National Signatures Program)
 - Working with DSP team to coordinate signatures and vehicle images, and disseminate/exploit as targets
- Harris RF Falcon Watch (two systems, total of 12 sensors – Passive IR, Seismic, day and IR cameras) reporting in and showing on SensorWeb
 - These communicate locally by VHF, long haul by SATCOM, and go through the DoD EMSS Portal and report in through e-mail
 - Sensor systems have captured vehicle and personnel in images at China Lake
- We demonstrated connectivity with the Army Research Lab (ARL) modified ground sensors deployed at Fort Dix, NJ for the C4ISR On the Move exercise for CERDEC
 - Data comes through ARL modified brigade (-) architecture over the Army INMARSAT link to the Paul Revere trailer on the China Lake flight line
 - Army personnel change it to KML (OGC Standard) and JPEG2k images, and FTP it for SensorWeb
 - SensorWeb shows the data on our visualization
 - Received data from an ARL deployed Harris RF sensor system in Fort Dix, NJ through the SensorWeb architecture
- Northrop Grumman ES CARDINAL (two systems, seven sensors each – Passive IR, Seismic, and day cameras) reporting in, but not currently showing on SensorWeb
 - These communicate locally by VHF, long haul by SATCOM, are routed from the DoD EMSS Access Server to modem(s) and are showing on SensorWeb
 - Replaced a series of batteries in the Qual-Tron cueing sensors and modified the Mission Profile in one systems
 - Changed the Plain Old Telephone System (POTS) number to the newly designated CARDINAL Line
 - This frees up a landline for coordination
 - CARDINAL System immediately captured significant vehicle traffic at and around the “border crossing” and Black Mountain intersection being monitored
- The L3-Com Tactical Remote Sensor System (USMC TRSS), US Army Battlefield Anti-Intrusion System (BAIS), and TRADOC REMBASS II sensor systems reporting in
 - We re-established two systems that were damaged from the recent weather
 - There are a total of 12 sensors in these systems
 - Systems are linked together by VHF communications and report directly to us over a fiber-optic drop in the SensorWeb trailer on Black Mountain
 - Programmed and emplaced the new TRSS medium- and short-range imagers
 - TRSS is now completely functional and cued by Army and TRADOC sensors
 - TRSS, BAIS and REMBASS are showing SensorWeb and to JBAIIC
- M83 system is almost ready to be emplaced
 - It is the only operational model remaining from a Canadian company that went out of business
 - Invaluable research tool
- We received the Critical Imaging LYNX systems and are evaluating the SensorWeb integration
- We have the DTRA/Persistent Surveillance Test Bed chem. / bio, radiological, and weather systems reporting in over 600 MHz range to a fiber optic drop, to SensorWeb and then outputting to IWARN
 - Receiving data from the DTRA sensors (chem. / bio, rad, and weather on COI)
 - Completed an end-to-end, cross domain demonstration of DTRA sensors through SensorWeb to IWARN and on to JWARN
 - SensorWeb pushed the data across the High Speed Guard from COI to DDTE
 - This was a highlighted event at the daily out-brief
 - We sent sample and actual data through the Raytheon High Speed Guards (HSGs)
 - We are continuing to improve actual data (abbreviated form) through the HSGs

- This is another accreditation limitation
 - Sample data was combined with provided WSDLs and schemas
 - Follow tests with actual data proved the Raytheon implementation was overly restrictive
 - DTRA sensor data was sufficiently terse to be allowed through the guard
- Other SensorWeb sensors have been truncated to be able to pass their data across the guard to DDTE
 - This problem is universal, not limited to SensorWeb
- We put a manned client in the JBAIIC trailer this morning
 - We have initiated a Sensor Alert Service in their name to PUSH the data to them in their desired CoT format
 - This is not optimum to demonstrate web services, but will enable our sensor data to show up on JBAIIC's Common Tactical Picture
 - Usually the client enables this in a "Warrior Pull" manner
 - JBAIIC is on a separate network attached to the COI network
- Manned the SensorWeb client in the JMSM trailer - They seem happy and cheerful
- Charlie Gates sent an email to Marcelley O'Hair reference the MIPR disposition – no response yet
 - No response from JBAIIC reference the MIPR either, although it was promised for today
- We have the Davis Weather Station transmitting from the SensorWeb trailer; wireless to our fiber-optic drop and showing on SensorWeb
- BIOMETRICS – Joe DeWolfe set up a good SensorML for Biometrics Automated Toolset BAT and camera peripheral, but we just have not had time to do anything with it
- We are cross-connected with the ARL/CERDE C4ISR On the Move exercise in Fort Dix, NJ
- We have hosted NMMO, DIA DT, DHMO, ARL, MITRE and TRADOC (Ft Huachuca) personnel so far