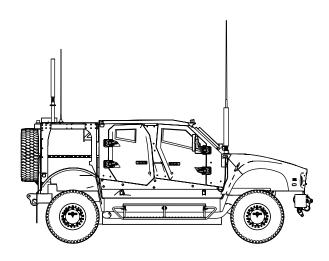
FBCB2 JCR Operator Quick Reference Handbook

26 March 2012 Version 1.0



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GETTING STARTED – DESCRIPTION OF FORCE XXI BATTLE COMMAND BRIGADE-AND-BELOW – JOINT CAPABILITIES RELEASE (FBCB2-JCR)

- The software-enhanced version of Force XXI Battle Command Brigade-and-Below/ Blue Force Tracking (FBCB2/BFT), is known as Joint Capabilities Release (JCR) in reference to its interoperability between all US Military Services.
- FBCB2-JCR is the "bridge" to Joint Battle Command-Platform (JBC-P), providing today's deployed units with Joint interoperability and secure data encryption.
- FBCB2-JCR provides near real-time Situational Awareness (SA) graphics on a map or imagery to include; friendly positions, observed enemy positions, and observed battlefield hazards information which is transmitted via FM terrestrial Enhanced Position Location Reporting (EPLRS) radios and/or satellite based communication systems.
- JCR is a Joint Command, Control, Communication, Computers, Intelligence, Surveillance and Reconnaissance (C4ISR) product used by:
 - US Army
 - US Marine Corps (USMC)
 - · US Air Force
 - · US Navy Forces

DESCRIPTION OF FORCE XXI BATTLE COMMAND BRIGADE-AND-BELOW – JOINT CAPABILITIES RELEASE (FBCB2-JCR)

- ➢ Blue Force Tracking 2 (BFT-2) is the upgrade to the BFT-1 Satellite system in use by FBCB2 satellite systems.
- > JCR uses the KGV-72 Platform Encryption Device (PED) to provide secure data encryption for:
 - Interoperability with all BFT and all EPLRS systems as well as other ABCS systems.
 - · Sending Secret data in the field.
 - · Sending preformatted Fire Missions.
- > The Tactical Services Gateway (TSG) provides the following for EPLRS systems:
 - Bridges from lower to upper TI networks.
 - Dynamic IP addresses.
 - Situational Awareness (SA).
 - Command and Control Registry (C2R).
 - Data Distribution Service (DDS).
- The Blue Force Tracking Global Network Operations Center (BGN) provides:
 - The bridge between Satellite-based BFT-2 and Terrestrial-based EPLRS vehicles.
 - The bridge between security domains (SBU and SECRET).
 - · Management of the overall satellite network.

IDENTIFY CONFIGURATION OF AN/UYK-128(V) COMPONENTS

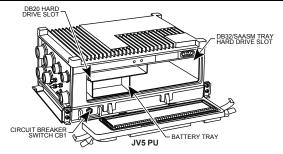


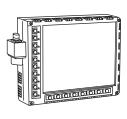
Proper configuration is vital. Soldiers must know what hardware is installed on their system to verify the platform's configuration.

The Satellite based configuration consists of the AN/UYK-128A(V)3 with KGV-72 PED. Terrestrial based configurations consists of the AN/UYK-128(V)1 with Internet Controller (INC). Common equipment for the AN/UYK-128A(V)3 and the AN/UYK-128(V)1 are the JV5 Processor Unit and the Display Unit (DU).

Satellite Configurations	Platform Encryption Device	Satellite Transceiver	GPS
AN/UYK-128A(V)3	KGV-72 PED	BFT-2 Satellite Transceiver	DAGR

Terrestrial Configuration	Platform Encryption Device	Satellite Transceiver	GPS
AN/UYK-128(V)1 (with INC)	N/A	N/A	DAGR



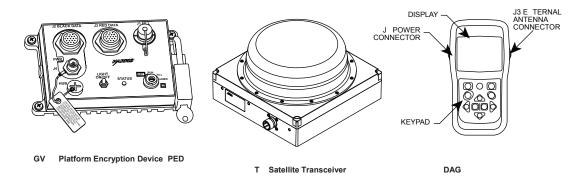


Display Unit

IDENTIFY CONFIGURATION OF FBCB2-JCR - IDENTIFY CONFIGURATION OF AN/UYK-128A(V)3

In addition to the JV5 Processor Unit and the Display Unit (DU) (equipment common to satellite and terrestrial systems) the AN/UYK-128A(V)3 also relies on the KGV-72 PED the BFT-2 satellite transceiver and the DAGR. The KGV-72 PED is an inline encryption device between the Hard Drive and the Satellite Transceiver. The KGV-72 PED authenticates to the Hard Drive instead of the Satellite Transceiver.

Satellite Configurations	Platform Encryption Device	Satellite Transceiver	GPS
AN/UYK-128A(V)3	KGV-72 PED	BFT-2	DAGR

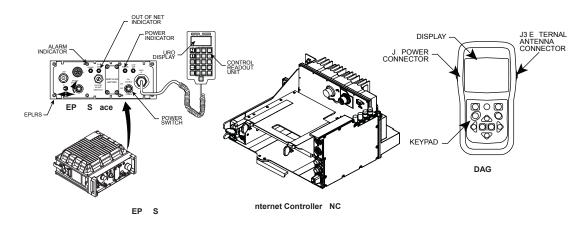


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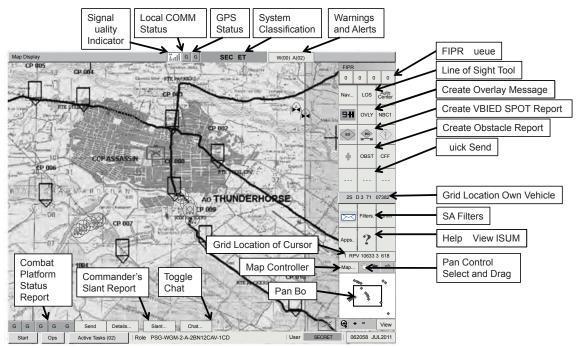
IDENTIFY CONFIGURATION OF FBCB2-JCR - IDENTIFY CONFIGURATION OF AN/UYK-128(V)1

In addition to the JV5 Processor Unit and the Display Unit (DU) (equipment common to satellite and terrestrial systems) the AN/UYK-128(V)1 also relies on the EPLRS the INC and the DAGR.

Terrestrial Configurations	Platform Encryption Device	Satellite Transceiver	GPS
AN/UYK-128(V)1 (with INC)	N/A	N/A	DAGR

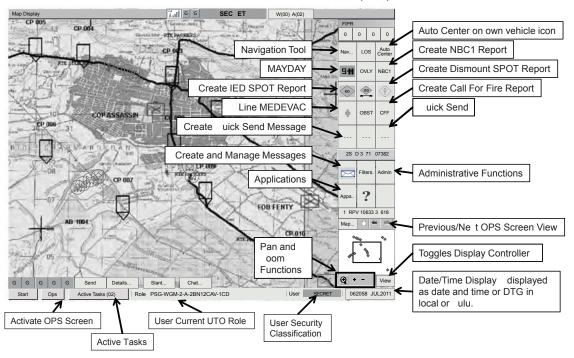


INTRODUCTION TO INTERFACE (OPS)



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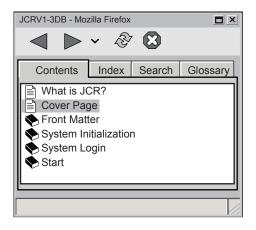
INTRODUCTION TO INTERFACE (OPS)



This page is unclassified but marked SECRET for training purposes only.

SYSTEM DESCRIPTION – DESCRIPTION OF INTERACTIVE SOFTWARE USERS MANUAL (ISUM) – LAUNCHED FROM START MENU

The Table of Contents in the left hand pane provides a list of headings for the different functional areas of the system. Under each heading are the individual topics that provide step-by-step instructions for operating the system.

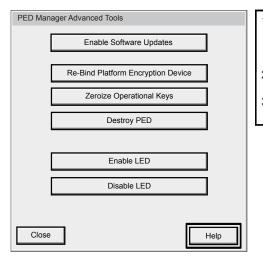


- 1. Select Start>Help>Main Help.
- Select one of the following four tabs in the left hand pane to find a topic:
 - Contents View help topics through the Contents structure.
 - Index Search for keywords with the Index feature.
 - Search Do a Search on any word or phrase.
 - d. Glossary Find the meaning of abbreviations used within the system through the Glossary feature.
- Select the X in the upper right hand corner to close the ISUM.

DESCRIPTION OF INTERACTIVE SOFTWARE USERS MANUAL (ISUM)- CONTENT SENSITIVE HELP (CSH)

TIP

Every dialog box contains a Help selection for the content.

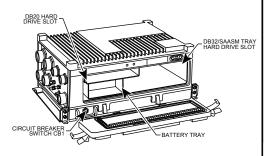


- The Interactive System User's Manual (ISUM) is an interactive Technical Bulletin that provides step-by-step instructions for operating the JCR software application.
- 2. Select Help to access information about content related to the topic of that dialog box.
- 3. CSH has the same Table of Contents as the ISUM launched from Start menu.

DESCRIPTION OF JV5 PROCESSOR UNIT (PU)



Battery charging does not occur when the PUs circuit breaker switch is in the OFF position.



JV5 PU

- The PU provides storage and data processing functions for the Joint Capabilities Release (JCR) software.
- It contains an audio printed circuit board (PCB) that can drive an outboard speaker or an operator headset for voice communications.
- 3. The JV5 configuration of the PU can provide screen resolutions up to 1280 102 pi els.
 - To run JCR software the system must have at a minimum a 120 (GB) or larger capacity hard drive disk.
- Each PU includes a removable backup Battery Tray. The rechargeable Nickel Cadmium (NICAD) batteries in the Battery Tray can sustain the PU for appro imately 10 minutes to allow the user to save any open files and perform a safe shutdown.
- Battery charging occurs whenever the battery is installed the battery temperature is within operating limits the PU s circuit breaker switch is in the ON position and the PU is connected to vehicular power.

DESCRIPTION OF DISPLAY UNIT (DU)

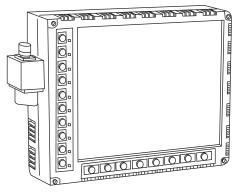


A N NG Drivers viewing the display unit while operating the vehicle may result in personnel ha ards/equipment damage. Drivers should not view display unit while vehicle is in motion. Failure to comply can lead to in ury or death.

The KU connector also serves as a USB port so the KU can be disconnected while the DU is powered up.

This permits a Secure Mission Data Loader (SecureMDL) to be connected to the DU at J2 in place of the

Keyboard Unit (KU) to download updates and Mission Data Sets (MDS).



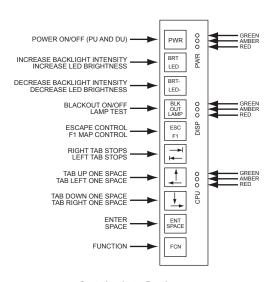
Display Unit

- The DU is a ruggedi ed LCD display panel with a touchscreen and a keyboard interface.
- The DU touchscreen provides the operator with information and one method of Soldier-Machine Interface (SMI).
- 3. LED indicators provide the operator with a visual status of the computer.
 - It features high brightness capability for operation in full sunlight and blackout for limited visibility operation.

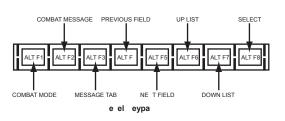
DESCRIPTION OF DISPLAY UNIT (DU)

Δ

A NNG Drivers viewing the display unit while operating the vehicle may result in personnel ha ards/equipment damage. Drivers should not view display unit while vehicle is in motion. Failure to comply can lead to in ury or death.



- DU has a Control Indicator Panel (CIP) on the left vertical edge of the display containing a row of ten function keys and three sets of status LEDs.
- Each DU has a Be el Keypad with a row of eight buttons at the bottom of the display.
- The Be el keypad is an alternate method of inputting data.

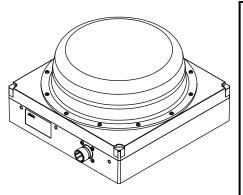


Control n icator Panel

DESCRIPTION OF BFT-2 SATELLITE TRANSCEIVER

Satellite Transceivers located in the same area must be kept a minimum of 2 meters or 6 feet apart.

Failure to maintain this distance can cause interference or possible equipment damage.



T Satellite Transceiver

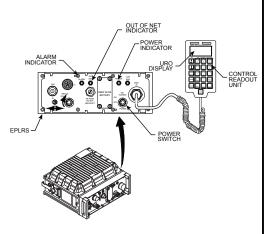
T e T Satellite Transceiver

- A full duple L-band satellite transceiver mounted on the platform where it has a clear view of the sky overhead
- The full duple system transmits and receives simultaneously.
- 3. With the e ception of a power source the transceiver is a self-contained satellite terminal.
 - Once the transceiver settings are configured the system automatically links up with the satellite and begins transmitting data.
- Refreshes SA Position Location Information (PLI) every 100 meters of travel or 5 minutes by default.
- Compatible with KGV-72 PED to ensure a secure network connection.

DESCRIPTION OF ENHANCED POSITION LOCATION REPORTING SYSTEM (EPLRS)



EPLRS communications are range limited limited by line of sight and by number of message retransmissions before message completion rate.



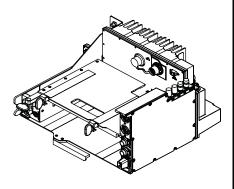
En ance Position ocation eporting EP S

- Provides secure am resistant wireless digital connection among battlefield computers allowing field commander's to form a oint network.
- Provides embedded situational awareness and position navigation. It is a common system for Army and Joint war fighting missions.
- EPLRS systems are capable of using COMSEC and frequency-hopping technology to encrypt and decrypt the information sent and received
 - EPLRS Radio Sets (RS) in the network are assigned time for short transmissions (called timeslots) during which it can transmit while other members receive.
- EPLRS RS communicate in one of two ways for host-to-host one-to-one which is more reliable but slower or many-to-many which while less reliable is faster.

DESCRIPTION OF INTERNET CONTROLLER (INC)



The INC translates the JCR data into radio language and then back again so it can be shared.



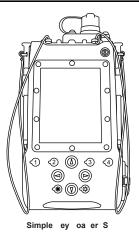
nternet Controller NC

- The INC is a tactical router that provides the interface between the EPLRS and FBCB2-EPLRS (JCR).
- 2. The INC is the traffic controller at the radio interface.
- The INC's traffic controller role is dependent on the dataset that JCR downloads into the INC software upon startup initiali ation with the FBCB2-EPLRS (JCR).
- The INC is internal and is a fi ed component on the right side of the Vehicle Amplified Adapter (VAA).
- 5. When a message is sent it goes through the INC which routes it to the radio. The message is sent through the radio and is received by other platform radios. The message then goes to each of the platform's INCs. The INC determines if the message is addressed to the platform and if not dumps it. If it is for the platform the message is routed to the PU and is displayed on the DU.

DESCRIPTION OF SIMPLE KEY LOADER (SKL)

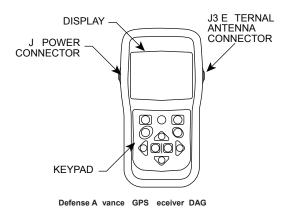
TIP

Operational Keys must be Safeguarded IAW DA Pamphlet 25-380-2 and 25-380-5.



- The purpose of the SKL is to supplement and eventually replace the Data Transfer Device (DTD).
- SKL is a ruggedi ed portable hand-held fill device that is used for receiving storing and transferring Communication Security (COMSEC) keys.
- Supports the RS-232 DS-101 and DS-102 protocols.
- Provides the ability to load both the Key Encryption Key (KEK) and Traffic Encryption Key (TEK) using profile during Black Key loading operations in support of the KGV-72 PED.
- Provides all of the functions of the DTD and incorporates new features that provide streamlined management of COMSEC keys Electronic Protection (EP) data and Signal Operating Instructions (SOI).

DESCRIPTION OF DEFENSE ADVANCED GPS RECEIVER (DAGR)



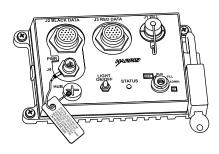
- The DAGR has a keypad for control and an LCD display which displays te t graphics and operational indicators.
- The system's position coordinates are displayed on an LCD panel.
- The DAGR receives timing signals from multiple GPS satellites that are overhead and computes the local position of the receiver and the JCR system.
- . Several grid reference systems are available on the DAGR.
- The DAGR is normally configured to display coordinates in Military Grid Reference System (MGRS) format.
- Refer to TB 11-5820-1172-10 DAGR Operator's Pocket Guide Chapter 1 for a detailed description of the DAGR displays and of each keypad key and its function.
- The Crypto Fill page provides capability to view current status of crypto variable (CV) keys and load new CV keys.

DESCRIPTION OF KGV-72 PLATFORM ENCRYPTION DEVICE (PED)



Once a system is connected to the KGV-72 PED it cannot go back to an Unclassified network.

N TE If you want to change the Hard Drive (HD) to UNCLASSIFIED from SECRET you must take the SECRET HD to a purge station. All data will be removed from the HD.



GV Platform Encryption Device PED

GV Platform Encryption Device PED

- 1. The KGV-72 PED provides Secret messaging capabilities for the AN/UYK-128A(V)3.
- A Type 1 encryption device used with the AN/UYK-128A(V)3 to allow connection to a secure network.
- All BFT-2 message traffic passed through the KGV-72 PED is encrypted regardless of the original data classification.
 - . KGV-72 has specific firmware files for BFT-2.

Security re uirements

- An operator must possess a SECRET clearance in order to load operational keys on the KGV-72 PED.
- 2. The connected system must be configured Secret.
- 3. Load handle and safeguard the keys for the KGV-72 PED IAW DA Pamphlet 25-380-2.
 - . The KGV-72 PED is a Controlled Cryptographic Item (CCI) when un-keyed and must be transported stored handled and reported IAW DA Pamphlet 25-380-2 and AR 380- 0.

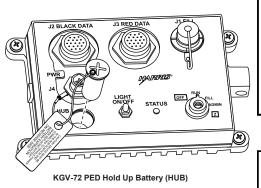
HOLD UP BATTERY (HUB)

 Φ

CAUTION: Only authorized personnel allowed to change the HUB. JOSEKI will be lost if not done properly. Accidently or purposely clearing the JOSEKI Key from the KGV-72 PED requires that the KGV-72 PED be returned to Electronic Maintenance Facility (ELM) to become operational.



When HUB is replaced, annotate the date on the HUB Tag.



Hold Up Battery (HUB):

- Replace the HUB after one year.
- Battery Type ½ AA 14250C: NSN 6135- 01-525-9943.
- 3. The HUB maintains the keys when primary power is removed.
- The keys will be lost if there is no HUB, and if external power is removed for more than 5 minutes.
- 5. If HUB is Low LED indicator will Flash Amber.

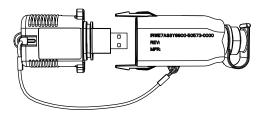
Disposal requirements:

Dispose of defective or discharged batteries in accordance with U.S. Army Technical Bulletin TB 43-0134, Battery Disposition and Disposal.

DESCRIPTION OF SECURE-MISSION DATA LOADER DEVICE (SECUREMDL)

- The SecureMDL must be clearly marked with SECRET classification when containing SECRET data.
- 2. Handle safeguard and transport the SecureMDL IAW DA Pamphlet 25- 380-2.
- Commander Security Officer (SO) or Information Assurance (IA) officer must appoint authori ed cleared individuals in writing who can write data from JCR systems to the SMDL. A list of authori ed cleared personnel will be maintained for accountability by the Security Officer.
- . Authori ed cleared personnel must sign a copy of the SFAE C3T FBC Procedure for Use of Removable Media to Write Data from FBCB2 Systems.
- 5. To write data the authori ed individual takes the SecureMDL to a designated JCR system to perform the write operation. The authori ed individual must have a second cleared individual to witness the operation and verify that the specific files are written to the SecureMDL. Each individual will then complete the table below.
- The completed table will be maintained by the authori ed cleared individual and returned to the Security Officer for security compliance.

Date/Time	File Name	Operator/FSR	Witness



Secure D

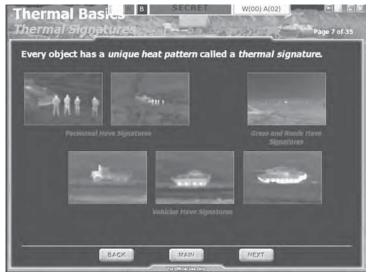
DESCRIPTION OF CO-HOSTED SOFTWARE - DESCRIPTION OF TACTICAL GROUND REPORTING (TIGR)

- TIGR is co-hosted on the JCR software.
- 2. A cleared user can access TIGR data for a specified area and view events which contain comments photos video and other after action data uploaded by other users.
- TIGR events are raw uncorrelated historical data and are not intended to provide a full intelligence
 picture of an area. Rather TIGR provides a Soldier's eye view of events that can familiari e
 operators with recent activity in a given area.



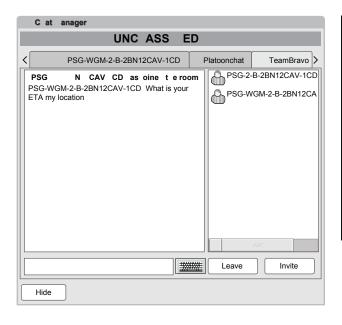
DESCRIPTION OF CO-HOSTED SOFTWARE - DESCRIPTION OF AND RECOGNITION OF COMBAT VEHICLES (ROC-V)

- ROC-V is co-hosted on the JCR software.
- 2. ROC-V helps Soldiers learn to identify the thermal signatures of combat vehicles.
- 3. ROC-V provides day optics and thermal sight training.



This page is unclassified but marked SECRET for training purposes only.

DESCRIPTION OF CHAT



C AT

- Chat rooms will always be unclassified.
- Built to conform with popular chat room conventions.
- Utili es the Address Book and the Message Addressing GUIs for building Buddy List .
- Chat provides ability to establish chat rooms that support up to 16 users per chat room.
- Up to 6 chat rooms per platform.
- Also allows instant messaging between two JCR users.

BEFORE OPERATIONS - PREVENTIVE MAINTENANCE CHECKS AND SERVICES (PMCS)

TTP

Always perform PMCS in the same sequence; by doing so, it will help to spot potential problems quickly.

NO.	INTERVAL	ITEM TO BE CHECKED OR SERVICED	PROCEDURE	EQUIPMENT NOT READY/AVAILABLE IF:
1	Weekly/Before Mission	DU	Inspect for cracks or other severe damage to the touchscreen. Clean touchscreen. Hand-tighten grounding strap thumbscrew.	Touchscreen is cracked or has severe scratches that would prevent touchscreen operation
2	Weekly/Before Mission	PU	Hand-tighten grounding strap thumbscrew.	
3	Weekly/Before Mission	RHDDC	Ensure RHDDC is present and properly seated.	
4	Weekly/Before Mission	RHDDC access door	Secure RHDDC access door.	Not secured properly; the seal will leak.
5	Weekly/Before Mission	KU	Inspect keyboard membrane seal (Broken or torn membrane could allow moisture to enter and damage KU). Inspect for inoperable, missing/sticking keys.	KU alpha numeric, or Enter keys do not function.
6	Weekly/Before Mission	Satellite Transceiver	Inspect for cracks, evidence of damage and cable connectors. Verify Transceiver is securely mounted to bracket.	
7	Weekly/Before Mission	Cable/Mounting Hardware	Tighten Ramball Mount assembly, if equipped.	Ramball too tight prevents DU movement.
8	Weekly/Before Mission	Cable/Mounting Hardware	Inspect cables for evidence of damage (i.e., frayed, broken, or bare wires).	
	·	NOTE: There are no manda	atory replacement parts for the AN/UYK-128(V) Computer	

PREVENTIVE MAINTENANCE CHECKS AND SERVICES (PMCS)



Peripheral equipment PMCS procedures need to be performed prior to performing AN/UYK-128(V) computer PMCS procedures.



Technical Manuals for the DAGR, EPLRS, ACADA, RADIAC, and LRAS3 contain specific PMCS procedures for the referenced equipment.

ITEM NO.	INTERVAL	ITEM TO BE CHECKED OR SERVICED	PROCEDURE	EQUIPMENT NOT READY/AVAILABLE IF:	
9	Weekly/Before Mission	Cable/Mounting Hardware	Inspect all cable connectors. (Properly mated, only the blue band is showing.)		
10	Weekly/Before Mission	Cable/Mounting Hardware	Inspect mounting bolts/hardware. (Tighten and secure.)		
11	Weekly/Before Mission		Ensure appropriate role specific peripheral equipment is present and operational IAW appropriate Technical Manuals.	DAGR, KGV-72 PED, EPLRS, LRAS3, RADIAC, or ACADA (if installed) are missing or not functioning.	
12	Weekly/Before Mission	PU Batteries	Check the Battery Tray/Battery Box inside the PU for charge. For Processor Unit (NSN 7021-01-496-2126), check front of Battery Tray to ensure that the charge indicator displays at least three (3) LED bars. For PU, press button twice on front of Battery Box to display diagnostic codes. Code "05" indicates battery/no charge. To recharge batteries: With platform power up and vehicle running, position CB1 switch to "ON" position. Leave system powered up for 8 hours to recharge backup batteries.	Battery charge indicators show that battery(s) have low charge/no charge. Degraded if: Backup battery(s) fail to charge.	
13	Weekly/Before Mission	KGV-72 PED	Inspect for cracks or other severe damage, missing or broken connectors.		
14	Weekly/During Mission	KVG-72 PED Hold Up Battery (HUB).	Verify HUB and informational tag are present and install date is on backside of tag.	Battery is older than one year.	
	NOTE: There are no mandatory replacement parts for the AN/UYK-128(V) Computer.				

PREVENTIVE MAINTENANCE CHECKS AND SERVICES (PMCS)

TP

Follow all safety procedures and practices listed in TM-11-7010-326-10. Comply with all warnings and cautions as you perform the PMCS tasks. A warning alerts personnel to the danger of physical injury or death. A caution alerts personnel to potential damage to equipment.

NO.	INTERVAL	ITEM TO BE CHECKED OR SERVICED	PROCEDURE	EQUIPMENT NOT READY/AVAILABLE IF:
15	Weekly	FBCB2-EPLRS (JCR) System	Initialize system and verify the operational status of the FBCB2-EPLRS (JCR) System as follows: Verify correct Unit/Role. Verify green LEDs are illuminated for PWR (Power), DISP (Display), and CPU (Central Processor Unit) on the DU Controls and Indicators Panel. Refer to WP 0099 if Comm Status is "A" (Amber). Verify Local Comm status is "G" (green). Verify GPS status is "G" (green) and platform icon is displayed on SA. Enter net and verify all is working. NOTE: For FBCB2-EPLRS (JCR) equipped platform, ensure that you can see platform icon outside your local net (i.e., platoon 1 to platoon 2).	Your Icon is not present on SA or GPS status shows an "R" (red) gumball. Unable to see another platform's icon and unable to
16	Weekly	BFT-2 System	Initialize system and verify the operational status of the BFT-2 System as follows: Verify correct Unit/Role. Verify green LEDs are illuminated for PWR (Power), DISP (Display), and CPU (Central Processor Unit) on the DU Controls and Indicators Panel. Refer to WP 0069 if Comm Status is "A" (Amber). Verify Local Comm status is "G" (green). Verify GPS status is "G" (green) and platform icon is displayed on SA.	Degraded if: Local Comm status gumball is "A" (amber). Status is Unknown if gumball is "W" (white). Local Communication status shows an "R" (red) gumball. Your Icon is not present on SA or GPS status shows an "R" (red) gumball.

PREVENTIVE MAINTENANCE CHECKS AND SERVICES (PMCS)

NO.	INTERVAL	ITEM TO BE CHECKED OR SERVICED	PROCEDURE	EQUIPMENT NOT READY/AVAILABLE IF:	
17	After Mission	AN/UYK-128(V) Computer	Tighten Ramball Mount assembly, if equipped. Inspect cables for evidence of frayed, broken or bare wires. Inspect all cable connectors (properly mated, only the blue band is showing). Inspect mounting bolts for tightness and verify mounting hardware is secure. Inspect keyboard for torn or broken membrane.	A Ramball too tight could prevent DU movement. Cables are missing/damaged. Membrane is torn or broken.	
19	After Mission	PU, DU, and KU	Safeguard with 5200 series lock(s)/cables to secure PU, DU, and KU as applicable to your platform.		
		FBCB2-BFT			
20	After Mission	BFT 2 System	Verify AN/UYK-128(V) Computer and peripheral equipment are present, secured and properly stowed to avoid damage.	DU, PU, KU, and/or peripheral equipment are missing/damaged, and thereby prevent proper system operation.	
21	After Mission	Satellite Transceiver	Inspect for cracks, evidence of damage and cable connectors. Verify Transceiver is securely mounted to bracket.		
	NOTE: There are no mandatory replacement parts for the AN/UYK-128(V) Computer.				

STARTUP THE AN/UYK-128A(V)3



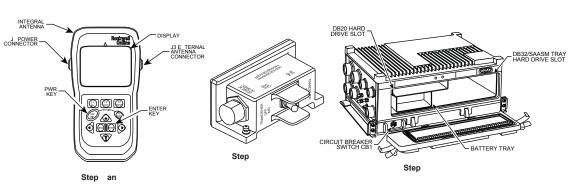
Proper startup and configuration is vital to the operation of JCR. A ma ority of system malfunctions are a direct result of improper startup and shutdown by the operator.



It may take as long as 15 minutes for the DAGR to acquire satellites. Ensure that the DAGR has a good view of the sky. The platform should not be under a roof or large overhead obstruction.

- 1. Select PWR/ uit to power up the DAGR.
- 2. Verify that the Sky View screen displays and changes to Present Position screen.
- Toggle system circuit breaker switch on PMA to N (BFT-2 only).
 - Set circuit breaker switch C on PU to N

(Continued ne t page)



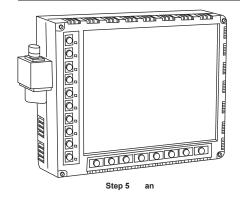
STARTUP THE AN/UYK-128A(V)3 (continued)

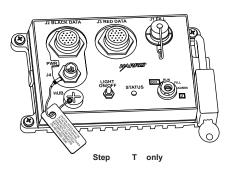


Complete a Virus Scan on the first Friday of the month (or by Digital SOP DTG).

(Continued)

- 5. On the DU control panel press and hold **P** for at least seconds.
- 6. Select Start ogin
- 7. Enter password and select Continue
- 8. If Virus Scan dialog bo is displayed select **N** to continue logging in.
 - . Select **PS** to start the OPS screen
- 10. Turn Mode Switch on KGV-72 PED from to **UN** (BFT-2 only if equipped).
- 11. Verify the status of the GPS and Local COMM status indicators (gumballs).

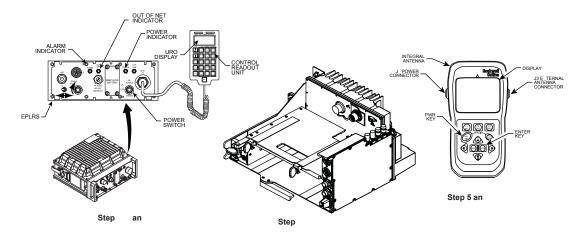




STARTUP THE AN/UYK-128(V)1

- Set EPLRS P E switch on Radio to N AUD E (EPLRS only).
- 2. At VAA/INC set CB1 Po er to N position (EPLRS only)
- 3. Verify COMSEC crypto key is loaded.
 - . Verify PC T mo e
- 5. Select **P** / **U T** to power up the DAGR.
- 6. Verify that the Sky View screen displays and changes to Present Position screen.

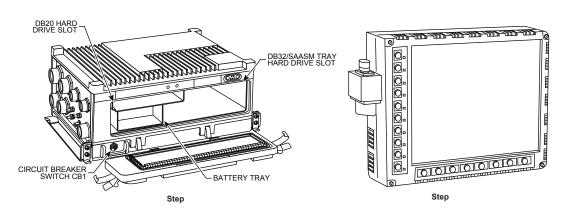
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STARTUP THE AN/UYK-128(V)1 (continued)

(Continued)

- Set circuit breaker switch C on PU to N
- 8. On the DU control panel press and hold **P** for at least seconds.
 - . Select Start ogin
- 10. Enter password and select Continue
- 11. If Virus Scan dialog bo is displayed select N to continue logging in.
- 12. Select PS to start the OPS screen



CONFIGURE PLATFORM SETTINGS (INITIAL CONFIGURATION) AN/UYK-128A(V)3

Proper configuration is vital - the system requires proper entries during product configuration. Double check every setting before making the selection. If an improper product selection is made during product configuration, the process will need to be started over.

- Power up AN/UYK-128A(V)3.
- 2. Type in password at login prompt
- 3. Select Start>FBCB2>Mission Data Load>Mission Data Loader.
- Install the UTO. Select the 'Copy From' tab, use the 'Copy From Source' drop down box to select
 the source that contains the mission data set. Virus scan will run. Select the mission data set and
 select the <- Extract button.
- After the file has been Extracted select OK.
- Select the Install tab. Select the file you just copied, select Install Mission.
- When installation is complete, select OK, select Close.
- Select Product as FBCB2 JCR.
- 9. Select BFT2, select OK.
- 9. Select Platform Encryption Device, select OK.
- 10. Select a Platform/Vehicle type on the Platform Type tab, select **Apply**.
- 12. Select the Hardware tab and verify hardware configuration.
- 13. Select the Comm tab and verify all the connections on this tab, select **OK**.
- 14. Ensure that the attached devices you configured in previous steps are connected and operating normally before you reboot the platform.
- 15. Select Reboot.
- 16. When the system comes back up, login in with your password and select your role.
- 17. Configure the Platform Encryption Device.

CONFIGURE PLATFORM SETTINGS (INITIAL CONFIGURATION) AN/UYK-128(V)1

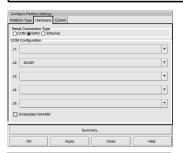
- 1. Power up AN/UYK-128A(V)1.
- Type in password at login prompt.
- 3. Select Start>FBCB2>Mission Data Load>Mission Data Loader.
- Install the UTO. Select the Copy From tab, use the Copy From Source drop down box to select
 the source that contains the mission data set. Virus scan will run. Select the mission data set and
 select the <- Extract button.
- After the file has been imported select **OK**.
- 6. Select the Install tab. Select the file you just copied, select Install Mission.
- 7. When installation is complete, select **OK**, select **Close**.
- 9. Select Product as FBCB2 JCR.
- 10. Select Army EPLRS Network, select OK.
- 11. Select INC, along with the INC-attached devices on your platform (i.e., EPLRS), select OK.
- 12. Select a Platform/Vehicle type on the Platform Type tab, select **Apply**.
- Select the Configure Hardware tab and enter the fbcadmin password. Configure hardware if necessary.
- 14. Select **OK** to confirm all the changes. Ensure that the attached devices you configured in previous steps are connected and operating normally before you reboot the platform.
- 15. Select Reboot.
- 16. When the system comes back up, login in with your password and select your role.

VERIFY AN/UYK-128A(V)3 CONFIGURED FOR OPERATION

TIP

To configure platform settings, follow instructions below and make changes as necessary.

Always select Apply before selecting OK when making changes.





- 1. Select Start>Configure Platform.
- Select Hardware tab.
- Use cursor to drag Special User Authentication dialog box out of way.
- 4. Verify Hardware Settings.
 - a. Connection Type is set to SIAD.
 - b. J2: is set to DAGR.
- 5. Select Summary.
- 6. Verify Ethernet setting:

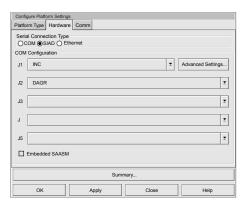
Eth: 0

Alias: <blank>

Device: BFT2 PED

- Contact Signal/Comm Maintenance to correct improper settings.
- 8. Select Close.
- Select Cancel on Special User Authentication dialog box.
- 10. Select Close.

VERIFY AN/UYK-128(V)1 CONFIGURED FOR OPERATION



- 1. Select Start Configure Platform
- 2. Select ar are tab.
- Use cursor to drag Special User Authentication Dialog Bo out of way.
- Select S AD from the Serial Connection Type pane.
 - Verify NC on J .
 - b. Verify **DAG** on **J** .
- Contact Signal/Comm Maintenance to correct improper settings.
- Select Cancel on Special User Authentication dialog bo
- Select Close.

TOUCH SCREEN CALIBRATION



The touch Screen is the primary interface to JCR - make sure this is calibrated properly to avoid selecting the wrong function/location.



When calibrating the touch screen, all running programs will be closed and the system will be restarted prior to starting the operation.



Each hardware configuration has a different screen display for touchscreen calibration.



- Select Start>Settings>TouchScreen Calibration.
- 2. Type **v** for yes.
- Select Enter (System reboots).
- Touch center point of each red target with the stylus as they appear. Be sure to position stylus or mouse control as close to center point as possible when displayed.
- Select OK.
- Type y for yes.
- 7. Select Enter.
- Type y for yes.
- Select Enter.

CHANGE ROLE

There may be situations when a leader must leave his platform and "jump track" to a subordinate's vehicle. Changing roles is easier with JCR than previous software versions, however all data will be lost when a system is re-roled. Depending on the situation and time available you may: a. Jump to a subordinate's vehicle and only change your alias (call sign) in the log-in screen on his system.

- b. Jump to a subordinate's vehicle and re-role his system, which will correctly show your role on all other platforms' SA, but will erase all your subordinate's data.
- c. If time is available, remove your hard drive and install it in your subordinate's system. This will retain your saved data and allow your role to properly display on all other platforms' SA. If you are BFT equipped, you must unbind and bind the satellite transceivers. The subordinate's KGV-72 PED must also be re-authenticated to your hard drive and have operational keys re-loaded. This can only be done on systems utilizing the same hardware (e.g. BFT to another BFT system). If the hardware is different this will require extensive signal support involvement to reconfigure the systems correctly.

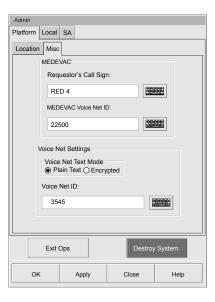


- 1. Select Start>Log Off.
- 2. Select Yes.
- Select Start>Login.
- 4. Enter <password>.
- Select Current Role option arrow.
- Select YES.
- Select role(s) from the Select Platform dialog box (in order from top to bottom).
- Select a match found within Matches.
- 9. Select OK.
- 10. Enter <call sign> for the platform in the **Alias** text box.
- 11. Select OK.

SETUP MEDICAL EVACUATION (MEDEVAC) FREQUENCIES

The Misc tab on the ADMIN dialog box displays radio device information and allows configuration of the Medical Evacuation (MEDEVAC) settings. Requestor's Call Sign and MEDEVAC

Voice Net ID must be set to create a MEDEVAC message.

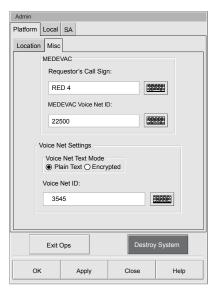


- Select Admin on the OPS Screen
- Select Platform.
- Select Misc.
- 4. Enter <call sign> in Requestor's Call Sign text box.
- Enter current MEDEVAC voice net ID into the MEDEVAC Voice Net ID text box.
- Select Plain Text or Encrypted in Voice Net Text Mode pane.
- Enter unit's current voice net ID in the Voice Net ID text box.
- 8. Select Apply.

SETUP CALL SIGN



The information entered in the Voice Net Settings pane will not be deleted or changed when the user logs out or changes role.

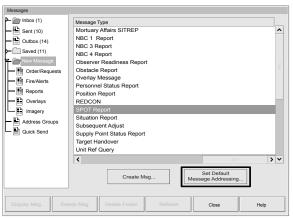


- Select Admin on the OPS Screen.
- 2. Select the Platform tab.
- 3. Select the Misc subtab.
- Type your Call Sign in Requestor's Call Sign: text box.

NOTE: The Alias that was entered at login will not display here as the Requestor's Call Sign.

5. Select Apply.

SETUP MESSAGE ADDRESSING



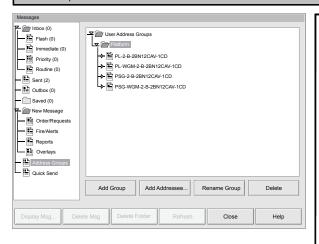


- 1. Ensure Messages dialog box is open.
- Select "New Message" in left folder pane.
- Select <message > in Message Type pane.
- Select Set Default Message Addressing.
- Select Message Settings.
- Select precedence>.
- Select Acknowledgements checkbox(es) when a confirmation of receipt is required or when an OR (Operator Response) is required.
- Select Message Addressees.
- 9. Select role(s) from the Select Platform dialog box.
- 10. Select OK.
- 11. Select OK.
- 12. Select Close.

SETUP ADDRESS GROUPS



If the correct match is not displayed, use the Search feature. Type all or part of the platform/unit identifier in the Search text box in the Lookup area and select Search.



- I. Ensure Messages dialog box is open.
- Select "Address Groups" in folder pane.
- Select Add Group.
- Enter <name of new group> in Group Name text box.
- 5. Select OK.
- Select Add Addressee.
- Select role(s) from the Select Platform dialog box.
- Select Apply. (repeat steps 8 and 9 to add more)
- 9. Select Close.
- 10. To rename an Address Group: Select "Address Groups" in folder pane.
- 11. Select <appropriate group> folder in right pane.
- 12. Select Rename Group.
- Enter <new name> in Group Name text box.
- 14. Select OK.

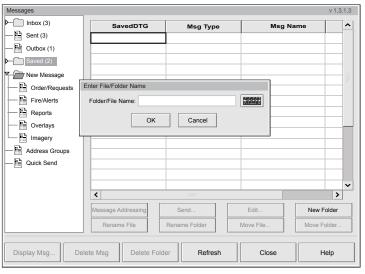
SETUP MESSAGE FOLDERS



Naming conventions need to be standardized within a unit to prevent confusion. This is usually established in a unit's Digital Standard Operating Procedure (SOP), which can encompass folder names, messages, and overlay names.



The Saved folder stores folders created for saving messages. After a folder is created, it can be renamed, moved, or deleted.



- Ensure Messages dialog box is open.
- Select "Saved" folder in folder pane.
- 3. Select New Folder.
- Enter <file name> in Folder/File Name text box.
- Select OK.

OPEN AND CLOSE CHAT MANAGER

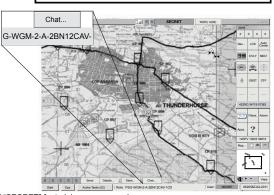
NOTE: When you receive a message or invite, the Chat button on the OPS screen will flash.

Overview

- 1. Select Chat from the main screen.
- 2. The Chat Manager dialog box displays the following:
 - a. Classification Banner.
 - b. Tabs.
 - 1) Buddy List.
 - a) Buddy List Pane.
 - b) Modify Buddy List.
 - c) Chat.
 - 2) Chat Rooms.
 - 1) Active Rooms pane.
 - 2) Pending Invites pane.
 - 3) New Room.
 - Accept.
 - 5) Reject.
 - c. Hide.

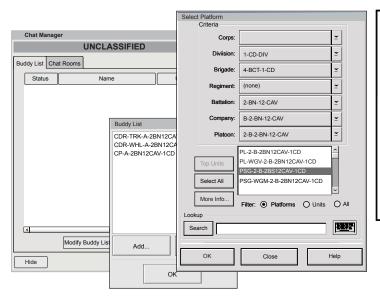
Option Menu

- Select a Chat Room tab and the following will be displayed.
 - a. Chat Pane.
 - . Members List Pane.
 - c. Text box
 - d. Leave
 - e. Invite



FOUO

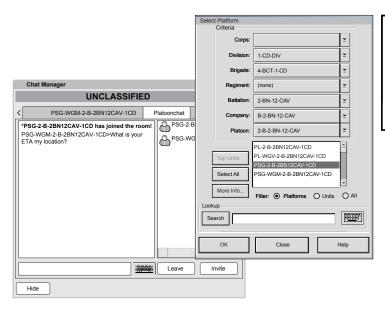
CREATE A BUDDY LIST AND A CHAT ROOM



- 1. Select Buddy List.
- 2. Select Modify Buddy List.
- Select Add...
- Select role(s) to be entered on the buddy list from the Select Platform dialog box.
- 5. Select **OK**.
- 6. Select OK.
- 7. Select Chat Rooms on the Chat Manager dialog box.
- 8. Select New Room.
- Enter <unique name> for the chat room
- 10. Select OK.

FOUO

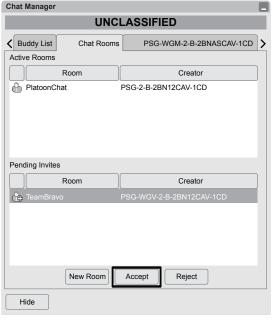
INVITE ROLES TO A CHAT ROOM



- Select chat room that you created.
- 2. Select Invite.
- 3. Select role(s) to invite to chat room from the Select Platform dialog box.
- 4. Select OK.
- 5. Select OK.

PARTICIPATE IN A CHAT SESSION AND LEAVE A CHAT ROOM

NOTE: If you select Leave to leave a chat room, the chat room will be deleted locally.



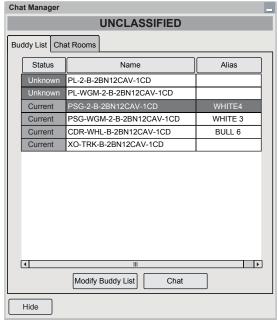
- Select Chat Rooms.
- Select a room in the Pending Invites pane.
- 3. Select Accept.
- 4. Select <name of chat room>.
- 5. Enter <message> in the text box.
- 6. Select Enter.
- To leave a chat room select Leave, or select another Chat room.
- 8. Select Yes.
- 9. To reenter an existing chat room select <Name of Chat Room>.

NOTE: You cannot reenter a chat room until invited if you select **Leave** for that chat room.

SEND AN INSTANT MESSAGE

TIP

Instant Message tabs count against the six chat room maximum each user is allowed.



- . Select a role from the Buddy List.
- 2. Select Chat.
- 3. Select <name of chat room>.
- 4. Enter <message> in the text box.
- 5. Select Enter on keyboard.

MANAGE FLASH/IMMEDIATE/PRIORITY/ROUTINE MESSAGES (FIPR QUEUE)



To sort messages, select column heading. The messages are sorted and displayed in descending order.



OR column will change from Y to R when the appropriate action is performed: Have Complied, Can't Comply, or Will Comply.

Access messages in FIPR queue

- Select FIPR button with message(s) indicated.
- 2. Select message from list.
- 3. Select Display Msg.

Save displayed message

- Select Save As.
- Select Msg folder.
- 3. Enter <file name> in File text box.
- 4. Select Save.
- Select OK.
- Select Close.

Delete FIPR message Select message to delete.

- Select Delete Msg.
- 3. Select Yes or No.
- 4. Select Close.

USING OPEN OFFICE

NOTE: Open Office is a software application suite which is compatible with Microsoft Office format and is only available to **SECRET** cleared operators on a secure system. Open Office is available from the Start menu.

NOTE: Writer is a word-processing program, Calc is a spreadsheet program and Impress is a slide presentation program that is a part of the Open Office suite of applications.

- Select FBCB2>Open Office>(Text Document) (Spreadsheet) or (Presentation).
- Create the file.
- Save the file
 - a. Select File>Save as.
 - b. Enter <name> in the File name: text box.
 - c. Select a type from the File type: option.
 - d. Check or uncheck the Save with pass<u>w</u>ord and Automatic file name extension check boxes as required by unit SOP.
 - e. Select Save.
- 4. Select **Help** for more detailed instructions.

CREATE SPOT REPORT

The SPOT report can be sent with minimal interaction. When a SPOT report is sent, the system will automatically display an icon at the reported location on the SA display, whether it is an IED, VBIED or Dismounted Personnel that is selected.



The SPOT report cannot be saved or sent until the sender's location is entered on SPOT report. The location will be entered by default if it is current. If the message sender's reported location isn't current, then it **must** be entered by selecting **Additional Info.**

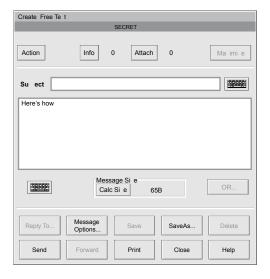
- Select the hostile forces icon from Display Controller on main screen. The Display Controller will disappear.
- Select a location on the map using the crosshair (cursor) as a pointer. The SPOT report dialog box will be displayed.
- All of the <u>required</u> information is automatically filled in according to the input from the user's computer. The user may choose to adjust the following default information:
 - Select Line 1 Option Size. No Comment by default.
 - Select Line 2 Option Activity. Stationary by default.
 - Select Line 3 Option Location. User selected location by crosshair.
 - d. Select Line 4 Option **U**niform. Blank by default.
 - e. Select Line 5 Option Time/Observed DTG. Time NOW by default.
 - Select Line 6 Option Equipment . Dismount Personnel, IED or VBIED by default (dependant on quick send button selected).

- Select Additional Info and enter the Observer's location, if not current. Observer's current location is REQUIRED INPUT
- Enter information in other optional fields as needed.
- Select Save to save the SPOT report to the Combat Messages folder in the Saved folder in Messages.
- Select **Send** to send the SPOT report to default addressees.
- The Combat Messages dialog box will close once the SPOT report has been sent.

SETUP UICK SEND BUTTONS - FREE TE T SETUP FOR ROUTINE REPORTS



Creating a uick Send Free Te t message button will save time when sending frequent routine messages for e ample daily Green 2 Sensitive Items Reports.



This page is unclassified but marked SECRET for training purposes only.

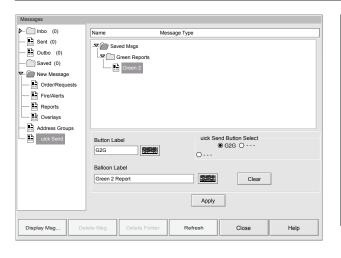
- Select the envelope icon from the Display Controller.
- Select r ers/ e uests from the Ne essage folder in the left hand pane.
- Select ree Te t essage from the essage Type pane.
 - Select Create essage.
- 5. Select essage ptions
- Select Message Addressees.
- 7. Select role(s) from the Select Platform dialog bo
- 8. Select
 - . Select
- 10. Create the message.
- 11. Select Save As
- 12. Enter uick Send Free Te t in Folder te t bo .
- 13. Select Create.
- 1 . Select arrow to e pand Saved Msg folder.
- 15. Select uick Send Free Te t folder.
- 16. Enter uick Send Free Te t in File te t bo .
- 17. Select Save
- 18. Select

(Continued ne t page)

SETUP UICK SEND BUTTONS - FREE TE T SETUP FOR ROUTINE REPORTS (continued)



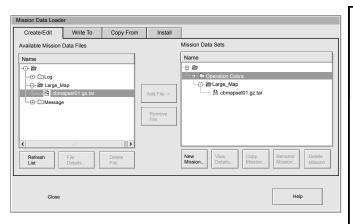
Button file and folder names should be standardi ed by Unit Digital SOP.



(Continued)

- Select uick Send from left hand pane.
- 20. Select uick Send Button Select option.
- Select message uick Send Free Te t in Saved Messages folder.
- Enter abbreviated name of message type in Button Label te t bo . (ma imum of characters)
- 23. Enter name for mouse over balloon in Balloon Label te t bo . (ma imum of 6 characters).
- Select Apply.
- Select Close.

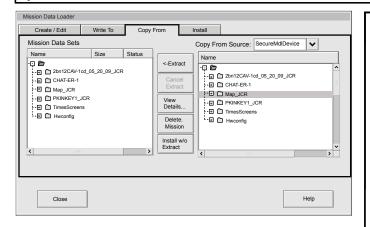
CREATE MISSION DATA SET (MDS)



- Select Start > FBCB2 >
 Mission Data Load > Mission
 Data Loader.
- Select Create/Edit.
- Select New Mission.
- Enter <name for Mission Data Set> in Mission Name:* text box.
- **NOTE:** Additional information such as a Point of Contact and a description of the MDS can be added but are not required.
- Select Classification option.
- Select Save.
- Select Close.
- Select <name of Mission Data Set> from the Mission Data Sets pane.
- Select plus (+) sign left of folder in Available Mission Data Files pane to expand the folder.
- Select <name of Mission Data File> from Available Mission Data Files pane.
- 11. Select Add File ->.

COPY MISSION DATA SET (MDS) FROM SECUREMDL

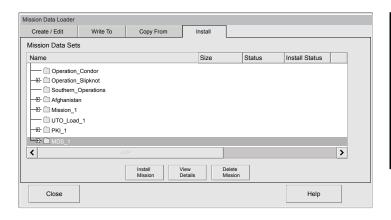
JCR performs a virus scan on all files on the SecureMDL prior to listing the files. The virus scan can take a long time depending on how much data is stored on the SecureMDL when it is installed to the system.



- Connect SecureMDL.
- Select Start>FBCB2>Mission Data Load>Mission Data Loader.
- 3. Select Copy From tab.
- Select SecureMdIDevice from Copy From Source option.
- Enter SecureMDL password.
- 6. Select OK. Virus scan runs.
- Select <name of MDS> folder in Copy From Source pane.
- 8. Select <- Extract.
- 9. Select **OK.**
- 10. Disconnect SecureMDL.

FOUO

INSTALL MISSION DATA SET (MDS) FROM SECUREMDL

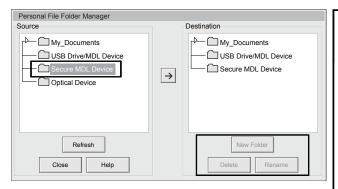


- Connect the SecureMDL.
- Verify/Copy MDS from SecureMDL.
- 3. Select Install.
- Select <name of MDS> folder.
- 5. Select Install Mission.
- 6. Select **OK.**
- 7. Select OK.
- 8. Select Close.
- 9. Disconnect SecureMDL.

USING PERSONAL FILE FOLDERS



Personal File Folders are only available on JCR platforms and only accessible by the **SECRET** cleared Soldier on secure systems.



- . Connect the SecureMDL through the J2 connection on the DU.
- Select Start >FBCB2>PFF Management.
- Select "SecureMDLDevice" in the Source pane.
- Enter <password>.
- Select OK.
- Select the file.
- Select action to be performed:
 - a. Rename.
 - o. Delete.
 - c. New Folder.
- Select OK.
- Disconnect the SecureMDL and connect the keyboard through the J2 connection on the DU.

IMPORT TIGR CLIENT DATA FROM SECUREMDL



Personal File Folder allows a **SECRET** cleared Soldier the option to import/export files from/to a SecureMDL. Files (including Open Office files) from a personal file folder can be attached to messages when the cleared Soldier is logged in on a secure system.



You must logged in as Secret User on Secret system and have an account established by the TIGR server admin.

Import Files from SecureMDL to PFF

- 1. Connect the SecureMDL through the J2 connection on the DU.
- 2. Select Start >FBCB2>PFF Management.
- Select "SecureMDLDevice" in the Source pane.
 - a. Enter <password>.
 - b. Select OK.
- 4. Select the SneakerNet file from Source pane.
- Select My_Documents in the Destination pane.
- Select arrow -> between Source and Destination panes.
- 7. Select Close.
- 8. Disconnect the SecureMDL.

Import the data from the file listed:

- Select Start>TIGR
- Enter < User Name > and < Password >...
- 3. Select Login.
- 4. Select TIGR>Admin>SneakerNet
- 5. Select Import SneakerNet.
- 6. Select Browse.
- Select <SneakerNet> file from the File Upload Directory pane.
- Select Done.
- 9. Select Start.
- 11. Select OK.
- Select the x in the upper right corner of the Admin SneakerNet Import and Export window to close dialog box.

EXPORT TIGR CO-HOST DATA TO SECUREMDL



SneakerNet is viewed by the JCR system as two separate files, one with a .001 identifier to distinguish them.

- 1. Disconnect the keyboard and connect the SecureMDL through the J2 connection on the DU.
- Select Start > TIGR.
- 3. Enter <User Name> and <Password>.
- 4. Select Login.
- On the TIGR window select TIGR>Admin>SneakerNet.
- Select Export SneakerNet.
- Enter the appropriate date and ensure that the Regular TIGR Data option is checked. Retain the other default values
- Select Start.
- 9. Select OK.
- 10. Select Start>FBCB2>PFF Management.
- 11. Select "SecureMDL Device" in the Destination Pane.
- 12. Enter <password>.
- 13. Select OK.
- 14. Select "My_Documents" from the Source Pane.
- 15. Select file from My Documents folder in the Source pane.
- 16. Select **arrow ->** between Source and Destination panes.
- 17. Repeat steps 14. and 15. for all SneakerNet files to be copied.
- 18. Select Close.
- 19. Disconnect the SecureMDL and connect the keyboard through the J2 connection on the DU.

- The map formats used with JCR are Vector Product Format (VPF) and Raster Product Format (RPF).
 - a. VPF is a military standard for vector-based digital map products produced by the U.S. Department of Defense (DoD). Vector Product Format shows basic features without a lot of information.
 - b. RPF compresses image files such as aerial photographs or satellite imagery to be quickly viewed without decompressing the entire file, "like" Google™ Earth and MrSID.
- Specific map types are available for use with JCR and will be available on the layers tab of the Map Control dialog box when they are loaded on the system.
- 3. Select the best map type for the selected scale:
 - a. 1:5K-10K (MrSid/JP2)
 - b. 1:20K CIB 1 Meter
 - c. 1:50K-100K CIB 5 Meter
 - d. 1:200K CADRG
 - e. 1:500K-1M CADRG
- 4. CIB, CADRG, DTED and MrSID are some of the types of maps used with JCR.

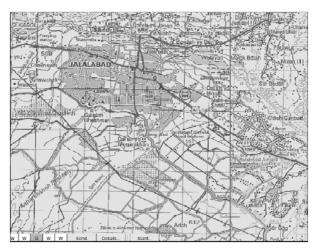
CIB – Controlled Image Base is a dataset of photos, made from black and white aerial images that are produced to support mission planning and command, control, communications, and intelligence systems.



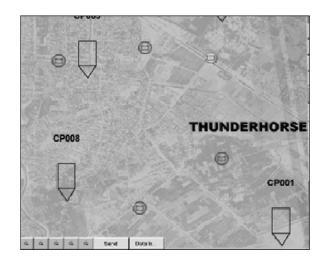


Moving great distances or scrolling on the map can cause a delay when imagery maps are displayed. When performing these tasks, change to a CADRG map background to reduce the refresh time on the screen.

CADRG - Compressed Arc Digital Raster Graphic is a "scanned in" artist rendered area with military gridlines, contour lines, vegetation, built up areas identified and AOIs indentified.



DTED - Digital Terrain Elevation Data provides relief information and terrain in 3D and allows for calculations such as line of sight. Allows greater flexibility and use of maps, also allows for sub-meter resolution providing greater detail.



MrSID - "MultiResolution Seamless Image Database" is a data format that allows image files to be substantially compressed with little to no loss of image quality. This format allows you to view any portion of a MrSID image at any resolution very quickly.

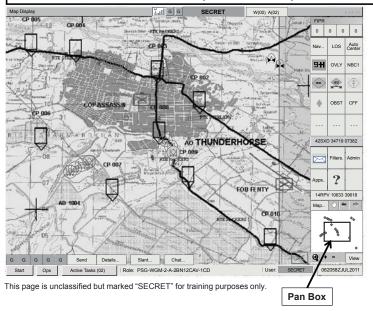






PERFORM PAN BOX OPERATIONS

NOTE: The dots inside the Pan Box represent the icons position on the OPS screen.

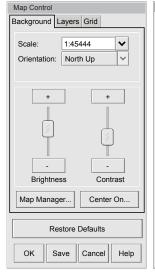


- To use the pan box function located at the bottom of the Display Controller:
 - Select the edge of the pan box using the cursor.
 - b. Drag the pan box to the desired location within the square. The Map View will adjust to the selected area within the Pan Box.
- To return the map to the previous view, select the left pointing arrow located above the pan box.
- The hand tool located above the pan box can also be used to manipulate the map to a new view.
 - a. Select the hand tool.
 - Select and drag the map to a different perspective using the hand tool.

FIND A UNIT/PLATFORM ON A MAP



Use this technique to locate a friendly unit or platform by centering the map on that unit's icon.





- . Select **Map...** from the OPS screen.
- 2. Ensure that the Background tab is selected.
- 3. Select Center On...
- 4. Select Unit/Platform/Object tab
- Enter <role name> or <platform type> in the Lookup pane text box.
- Select Search.
- Location of unit or platform searched for is displayed within the Fill Loc: text box in Center Location pane.
- Select the platform to center on from the Unit/Platform/Object pane.
- Select **OK** to center the map on the unit or platform icon.

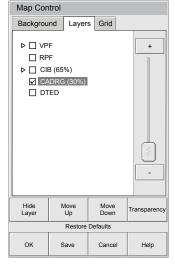
MAP LAYERS

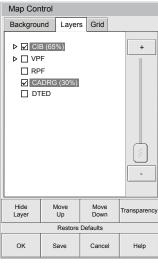


Recommend setting CIB at approximately 65% and CADRG at approximately 30%.



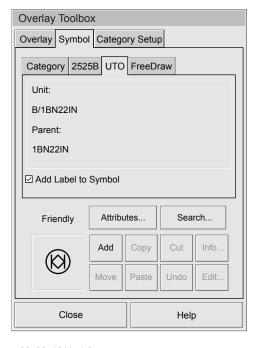
More than one layer can be viewed at a time, but only one layer can be highlighted at a time. Therefore, the transparency can only be adjusted for one layer at a time.





- I. Ensure Map Control dialog box is open.
- Select Layers.
- Select a map format/type:
 - 1. VPF
 - 2. RPF
 - 3. CIB
 - 4. CADRG
 - 5. DTFD
 - 6. (other map types when loaded)
- 4. Select a layer to highlight so transparency can be adjusted.
- Select and drag Transparency slider tool up to increase transparency and down to decrease it.
- Select Move Up or Move
 Down to change order layers
 are listed.
- Select Save.

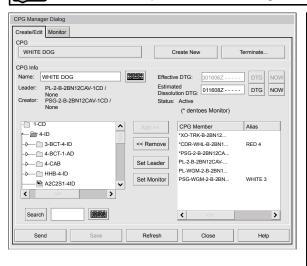
SYMBOLOGY



- Select OVLY from the Display Controller.
- Select Symbol.
 - Category displays a list of main category and sub category symbols that are on symbol list.
 - 2525B contains text lists representing warfighting symbols, tactical graphics, weather and signals intelligence symbols.
 - UTO displays the UTO. Select a unit name and the unit icon will be displayed for inclusion in an overlay message.
 - d. Free Draw displays a set of options to select from to create symbols IAW MIL-STD-2525.

MANAGE CONVOY PATROL GROUP

The Convoy Patrol Group (CPG) is a flexible grouping function that allows platforms to observe convoy or patrol movements during a combat or resupply mission.

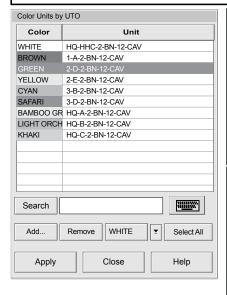


- 1. To Create a Convoy Patrol Group:
 - Select Apps from OPS screen.
 - Select Convoy Patrol Group Manager.
 - . Select Execute.
 - Select Create/Edit.
 - e. Select Create New.
 - Enter <convoy name> in Name text box in CPG Info pane.
 - g. Select **NOW** in Effective DTG text box.
 - Enter estimated expiration date and time in Estimated Dissolution DTG text box.
 - i. Select role(s) to add from the UTO tree.
 - Select Add >> for each role selected.
 - k. Select a single role to serve as Convoy Leader.
 - Select Set Leader.
 - m. Select role(s) to serve as Convoy Monitor.
 - n. Select Set Monitor.
 - o. Select Send.
 - Select Send.

MANAGE CONVOY PATROL GROUP

NOTE: The Monitor tab displays the CPG Summary Info that provides a listing of all CPGs that the operator is a part of, the operator is the creator of, or the operator has been assigned to monitor.

NOTE: The Convoy Color feature is used to assign the local color setting for the selected CPG.



To Monitor CPG:

- a. Select Apps from OPS screen.
- Select Convoy Patrol Group Manager.
- Select Execute.
- d. Select Monitor.
- Select active CPG in CPG Summary Info table.
- Set Convoy Color: option.
- g. Select Apply.
- h. Select Center on Leader.
- Select Refresh to update CPG Summary Info table.
- Select Close.

To Terminate CPG:

- a. Select Apps from OPS screen.
- b. Select Convoy Patrol Group Manager.
- c. Select Execute.
- Select Create/Edit.
- e. Select convoy from list.
- f. Select Terminate.
- g. Select Yes.
- h. Select Close.

HOOK DIALOG BOX COMPONENTS - CONVOY TAB



Use neon green or other light colors to highlight Convoy Patrol Group (CPG).

- The following tabs will be displayed in the Hook Dialog "dialog" box:
 - a. Details
 - Attachments (only active if Secret user)
 - c. BDA
 - d. Convoy
 - . Fire Mission

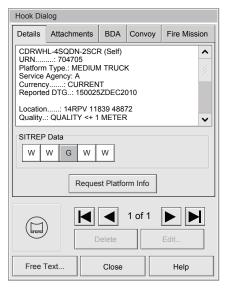


- Convoy Tab lists: lists the Name, Leader, Alias; also provides the following buttons - Free Text to Leader, Rename, Terminate, Center-On-Leader and Convoy Color.
- 2. Name: name of convoy.
- 3. Leader: role of the convoy leader
- 4. Alias: alias (Call Sign) of the convoy leader
- Free Text to Leader: quick send button to send a message to convoy leader; displays Create: Free Text dialog box when selected.
- Rename: displays a HookCPGRename dialog box when selected.
- The following are only active when user is a member of a convoy:
 - a. Terminate: terminates the Convoy Patrol Group (CPG), removes the CPG from the OPs screen and CPG Manage Dialog dialog box when CPG creator, Commander or higher selects.
 - b. Center on Leader: centers own vehicle's OPs screen on he convoy leader when selected.
 - c. Color: displays which color the convoy is preset to display on own vehicle OPs screen. Change Color menu is displayed when selected.

HOOK DIALOG BOX COMPONENTS - DETAILS TAB



The Alias information that was entered during Login will be displayed on the Details tab. Alias for PSG-WGM is shown as White 3 here



- 1. The following functions are displayed on the Details tab:
 - a. Request Platform Info Requests the currently selected Vehicle's Platform Information if unknown. The selected vehicle's most recently sent SITREP data will be displayed.
 - b. Platform selection arrows –pages through multiple platforms when more than one are "hooked".
 - Delete deletes the displayed created icon from the users OPS map.
 - Edit edits the information about the displayed created icon.
 - e. Free Text... opens a free text message dialog box to prepare and send a message to the selected platform.

SITUATIONAL AWARENESS (SA) FILTERS



WARNING! FILTERING OFF FRIENDLY SA DATA INCREASES RISK OF FRATRICIDE.



The SA Filter de-clutters SA map display by filtering SA data, so the user is not overwhelmed by unnecessary information.

Selecting **All On** will display all SA. Selecting **All Off** will hide all SA. Selecting **All** in any pane will display all SA for that option, Selecting **None** in any pane will hide all SA for that option.

Selecting **Select** will display more options to choose from.

- 1. Select Filters from the OPs screen.
- Select the SA tab.
- 3. The following panes and options are displayed:
 - a. Labels.
 - All None
 - b. Friendly
 - All Select None
 - c. Enemy
 - All Select None
 - d. Unknown
 - All None
 - e. Georef
 - All None
- Select Set as Default to save the options as default choices
- Select Apply Filter to set the filter options.
- 6. Select **Help** for more detailed information.

- Selecting Select in the Friendly pane displays the following options:
 - a. Currency
 - Dimension Air Ground
 - c. BDA
 - d. Fchelon
- Selecting Select in the Enemy pane displays the following options:
 - a. Currency
 - b. Dimension Air Ground
 - c. BDA
 - d. Type unit type or vehicle
 - Source of info

CLEAR DATA



CAUTION! This action will delete the selected data.

Recommend using Clear Data function on a daily basis or when system performance is degraded. Most Units employ the Clear Data function twice a day per SOP, during each shift change.

Select Start>FBCB2>Clear Data... Select check box(es)next to corresponding option(s) in Select Items to Clear: pane. Select Apply. Select Yes. Select Close. Select Close. Select Items to Clear: Console Log Communications Logs Message Transmission Logs -----SA Snapshot Data-----All Snapshot Data SA Raw Own Position SA Friendly Data SA Observed Data SA Observed Air Data SA Georef Data -Messages-----All Messages Incoming Msg Queue (FIPR) Saved Messages

Sent Messages

	ns to Clear (cont.):
	ded Message Data
	readed Message Data
	SITREP Data
	Fire Mission Data
	CTIL/Logistics Data
	Supply Point Data
	Task Management Data
	Personnel Status Report Data
	Field Order Data
 -User E	Defined Settings
All Us	er Defined Settings
	Filter Settings
	Local Settings
	Map Settings
	Named Locations
	MEDEVAC Call Sign and Net Frequency
	Message Options
_	Overlay Frequently Used Symbols
_	
ā	SA Data Currency Filter Settings
$\overline{\Box}$	Autopost Overlay Selections
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SCREEN LOCK FUNCTION



The screen lock should be activated any time the JCR system operator needs to leave the immediate area and will be out of sight of the system.

Screen Lock can be activated regardless of what is open.

If three unsuccessful login attempts are made, a warning screen will appear with the following message: "Number of login attempts exceeded. Please contact your security officer. Login aborted."

Should this happen, you will be locked out and will need to logout and login again from the Start menu with correct ID and Password. Contact the Security Officer.



- Select Start>Screen Lock
- 2. When the screen lock is activated:
 - The system maintains the current operator's logged in operational status in the background.
 - b. Displays a Screen Lock login dialog box.
 - c. Denies access to an unauthorized operator.
 - Allows the operator to log back in or to log out.
- It should be activated any time the operator needs to leave the immediate area and is out of sight of the system.
- To Deactivate Screen Lock:
 - a. Enter <password>.
 - b. Select Authenticate.

LOCAL DESTROY



CAUTION: Accidently or purposely clearing the JOSEKI key from the KGV-72 PED requires that the KGV-72 PED be returned to Electronic Maintenance Facility (ELM) to become operational.



A MAYDAY Message will be sent when Destroy System is used.

Destroy KGV-72 PED (LOCAL)

- Select Start>Platform Encryption Device Manager.
- Select Advanced on Platform Encryption Device Manager dialog box.
- Select **Destroy PED**.
- Select Continue.
- Allow countdown to complete or select **Now** to destroy KGV-72 PED immediately.
- 6. Select Ok.

Destroy the Hard Drive, KGV-72 PED, and Satellite Transceiver Using the Destroy System Command (JCR) (LOCAL)

- 1. From Ops screen, select Admin.
- 2. Select Destroy System.
- Select **Now** or allow countdown to proceed to end.

ZEROIZE KGV-72 PED



CAUTION: Use of Zeroize will make KGV-72 PED device inoperable for mission requirements.

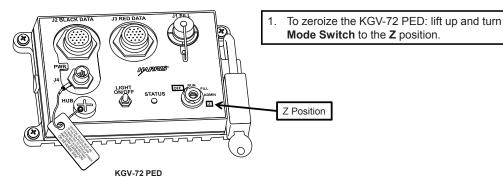
NOTE: The KGV-72 is tamper resistant and will zeroize if an attempt is made to get inside the device.



Zeroize removes all operational keys and deletes all system presets and configuration settings to default values. Encryption/decryption operations are not possible until encryption keys are reloaded and the KGV-72 PED has been authenticated to the hard drive.



If mode switch is moved to Z, while the KGV-72 PED has no power source connected to the PWR port, the device will zeroize the next time it is powered on.

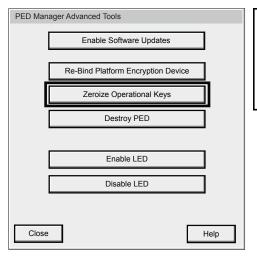


ZEROIZE KGV-72 PED



CAUTION: Use of Zeroize will make KGV-72 PED device inoperable for mission requirements.

NOTE: The KGV-72 PED in an UNKEYED state, is a Controlled Cryptographic Item (CCI). Ship, store, handle and report the KGV-72 PED IAW DA Pamphlet 25-380-2 and AR 380-40. Refer to DA Pam 25-380-2 for guidance on handling, storage, accountability and special reporting requirements for CCI.



- To zeroize the KGV-72 PED using PED Manager: Select Start > Platform Encryption Device Manager.
- 2. Select Advanced.
- 3. Select Zeroize Operational Keys.
- 4. Select Continue.
- 5. Select OK.

FBCB2-JCR SYSTEM SHUTDOWN - SHUTDOWN THE FBCB2-JCR SYSTEM - BFT-2

CAUTION! Do not shut off power to the PU without first following the system shutdown procedure. Failure to comply may cause loss of program data or damage to the PU.

CAUTION! Leaving the PU circuit breaker/switch set to ON will enable the battery pack to continuously charge as long as external DC power is available. This could possibly result in a dead vehicle battery if left in this condition over an extended period.

CAUTION! Do not select Destroy System. Selecting Destroy System will cause a Flash Mayday message to be sent, and operational data set and executable files on hard drive will be erased (overwritten).

NOTE: The KGV-72 PED in an UNKEYED State is CCI and must be handled, stored, transported and reported IAW DA Pamphlet 25-380-2 and AR 380-40.



Across the board, users stated that improper shutdown procedures are a major problem and cause for either faulty or slow start-up when the system is brought back up.

- Select Start>Shut Down>Shut Down.
- Select YES.
- Set CB1 on PU to OFF position.
- 5. Toggle PMA/S1 to TRANSCEIVER OFF.
- Turn Mode Switch to OFF on KGV-72 PED.
- 7. Shut down DAGR (if installed): Press PWR/Quit key.

FOUO

SHUTDOWN THE FBCB2-JCR SYSTEM - EPLRS

CAUTION! Do not shut off power to the PU without first following the system shutdown procedure. Failure to comply may cause loss of program data or damage to the PU.

CAUTION! Leaving the PU circuit breaker/switch set to ON will enable the battery pack to continuously charge as long as external DC power is available. This could possibly result in a dead vehicle battery if left in this condition over an extended period.

CAUTION! Do not select Destroy System. Selecting Destroy System will cause a Flash Mayday message to be sent, the INC will be reset to factory defaults, and operational data set and executable files on hard drive will be erased (overwritten).

- 1. Select Start>Shut Down>Shut Down
- Select YES.
- 3. Set CB1 on PU to OFF position.
- **4. SHUTDOWN INC:** Set CB1 to **OFF** (i.e., down position).
- SHUTDOWN EPLRS: Set POWER switch to OFF.
- SHUT DOWN DAGR: Press and hold PWR/QUIT.

TROUBLESHOOTING - SIGNAL QUALITY INDICATOR NO SIGNAL

WARNING! Do not disconnect or connect any cables without first properly powering down the system and turning off all power. Where applicable, always disconnect the ground cable last when disassembling and always connect the ground cable first when assembling. Failure to comply can cause injury to personnel or damage to equipment.

Start

- Verify Satellite Transceiver line of sight is unobstructed.
- 2. Does Signal Quality Indicator display bars?
 - a. Yes EXIT.
- b. No Go to next step.
- 3. Is KGV-72 PED installed?
 - a. Yes Go to step 10.
 - b. No Go to next step.
- 4. Verify PMA switch is set to On.
- 5. Does Signal Quality Indicator display bars?
 - a. Yes EXIT.
 - b. No Go to next step.
- 6. Verify/connect W1A cable.
- 7. Verify/connect W3Z and DC power cable.

- 8. Does Signal Quality Indicator display bars?
 - a. Yes EXIT.
 - b. No Contact Signal/Comm maintenance.
- Verify PMA switch is set to On position and KGV-72 PED mode switch set to Run.
- 10. Does signal quality indicator display bars?
 - a. Yes EXIT.b. No Go to next step.
- 11. Load operational keys IAW TM.
- 12. Does signal quality indicator display bars?
 - a. Yes EXIT.
 - b. No Contact Signal/Comm maintenance.

Finish

TROUBLESHOOTING - AN/UYK-128(V) COMPUTER FAILS TO POWER UP

WARNING! Do not disconnect or connect any cables without first properly powering down the system and turning off all power. Where applicable, always disconnect the ground cable last when disassembling and always connect the ground cable first when assembling. Failure to comply can cause injury to personnel or damage to equipment.

NOTE: If the internal battery has been run-down, AN/UYK-128(V) computer will not remain on when power is interrupted. When the external power problem has been resolved, AN/UYK-128(V) computer must be operated for eight (or more) hours to recharge the internal battery.

Start

- 1. Check PU cable connections.
- 2. Does PU power up?
 - a. Yes EXIT.
 - b. No Contact Signal/Comm Maintenance.

Finish

TROUBLESHOOTING - CANNOT SEE OWN ICON

WARNING! Do not disconnect or connect any cables without first properly powering down the system and turning off all power. Where applicable, always disconnect the ground cable last when disassembling and always connect the ground cable first when assembling. Failure to comply can cause injury to personnel or damage to equipment.

CAUTION! Do not connect or disconnect the DAGR interface cable without first powering down the computer and DAGR. Failure to comply will result in equipment damage.

NOTE: If other vehicle icons are displayed on the situation monitor, but not own vehicle icon; follow troubleshooting procedures for **Can See Other SA but Not Own SA**.

NOTE: Allow up to 15 minutes for GPS to acquire satellite.

Start

- Is the GPS gumball green?
 - a. Yes Select AUTO CENTER from the OPS screen EXIT.
 - b. No Go to next step.
- DAGR Ensure GPS passes boot test IAW TM 11-5820-1172-13 (DAGR) during system start up. Replace GPS if boot test fails.
- Verify that all cables are connected properly.
- Select GPS gumball.
- 5. Check time, position and heading status.
- 6. Are all three a go?
 - a. Yes Refresh screen EXIT.
 - b. No Go to next step.

(NEXT PAGE)

TROUBLESHOOTING - CANNOT SEE OWN ICON

NOTE: If the internal battery has been run-down, AN/UYK-128(V) computer will not remain on when power is interrupted. When the external power problem has been resolved, AN/UYK-128(V) computer must be operated for eight (or more) hours to recharge the internal battery.



When there are issues with perceived faulty or inaccurate SA, relocate and force the system to update itself based on new location.

(CONTINUED FROM PREVIOUS PAGE)

- Verify the following GPS settings, if available, using procedures in TM 11-5820-1172-13 (DAGR), or GPS/SAASM Control/Management Utility: Almanac<3days old, TFOM = 5 or less, FOM = 4 or less, Correct Datum installed
- 8. Verify operating mode is "Continuous".
- 9. Verify correct keys are loaded.
- 10. Move platform so the GPS antenna has a clear view of the surrounding sky and away from any communication jamming system operating nearby.
- 11. Is the GPS tracking at least three satellites?
 - a. Yes EXIT.
 - b. No Contact Signal / Comm Maintenance.

Finish.

TROUBLESHOOTING - KGV-72 PED LED FLASHING GREEN/AMBER (BFT-2 ONLY)

WARNING! Do not disconnect or connect any cables without first properly powering down the system and turning off all power. Where applicable, always disconnect the ground cable last when disassembling and always connect the ground cable first when assembling. Failure to comply can cause injury to personnel or damage to equipment.

NOTE: If the KGV-72 PED LED is flashing Green/Amber prior to black key load, the KGV-72 PED needs to be authenticated to the Hard Drive. To authenticate, turn the mode switch to Admin.

NOTE: During Start-Up of KGV-72 PED with keys loaded - when turning mode switch to Run position, if KGV-72 PED LED is flashing Green/Amber turn mode switch to the Off position then back to Run.

Start.

- Turn KGV-72 mode switch to Admin.
- 2. Is KGV-72 PED LED flashing green/amber?
 - a. Yes go to next step.
 - b. No EXIT.
- Verify/connect W3Z cable.
- 4. Is the KGV-72 PED LED flashing green/amber?
 - a. Yes Contact Signal/Comm maintenance.
 - b. No EXIT.

Finish.

TROUBLESHOOTING – KGV-72 PED LED SOLID RED (BFT-2 ONLY)

NOTE: If the KGV-72 PED LED is red, it is an alarm state indicating a loss of JOSEKI or mismatched keys.

CONTACT SIGNAL / COMM MAINTENANCE

TROUBLESHOOTING – KGV-72 PED LED IS FLASHING AMBER (BFT-2 ONLY)

NOTE: If the KGV-72 PED LED is flashing amber, it indicates that the HUB is low (5% charge) or missing.

CONTACT SIGNAL / COMM MAINTENANCE

TROUBLESHOOTING - JCR SYSTEM LOCKS UP OR STOPS RESPONDING

NOTE: If the JCR system locks up or is slow to respond, the hard drive is probably filled or too many windows open at the same time. Follow troubleshooting procedures for **Computer Slow to Respond to Commands**, (below).

Start

- Select Local Comm gumball/general.
- 2. Is Disk Threshold capacity at 97%?
 - a. Yes Perform maintenance procedure Clear Data.
 - 1). Is the system responding correctly?
 - a) Yes EXIT.
 - b) No Go to 2.b.
 - b. No Close windows until system operates normally.
- 3. Is the system responding correctly?
 - a. Yes EXIT.
 - b. No Contact Signal/Comm Maintenance.

Finish

TROUBLESHOOTING - OPERATING SYSTEM NOT FOUND

WARNING! Do not disconnect or connect any cables without first properly powering down the system and turning off all power. Where applicable, always disconnect the ground cable last when disassembling and always connect the ground cable first when assembling. Failure to comply can cause injury to personnel or damage to equipment.

Start

- 1. AN/UYK-128(V) fails to boot-up.
- 2. Power down the AN/UYK-128(V) computer set.
- 3. Ensure One (1) RHDDC is present.
- 4. Reseat RHDDC.
- Power up the AN/UYK-128(V).
- 6. Is the system operational?
 - a. Yes FXIT
 - b. No Contact Signal/Comm Maintenance

Finish

APPENDIX A – FREQUENTLY ASKED QUESTIONS (FAQS)

1. Where can I find out more information about JCR?

Information about Army Battle Command Systems can be found on the following web sites:

- a. PM-FBCB2 Readiness Center: https://fbcb2.army.mil.
- b. BFT Network Operation Center Field Service Center: https://fbcb2-bfthelp.army.mil
- c. Army Knowledge Online FBCB2 Discussion Group: After Login, go to AKO Discussions under AKO Services from the Home Page: http://www.us.army.mil

2. What does a terrestrial unit need to do in order to "see" BFT platform icons in their Area of Responsibility?

PRIOR TO THE MISSION/DEPLOYMENT, the requesting unit must submit a reachback (GRE Tunnel) request to the BGN. Log into AKO website https://fbcb2.kc.us.army.mil/ and download the SIPR Reachback Request Form. Fill it out and include the following information:

- a. Provide Network POC.
- b. Router IP addresses of the newly installed 2801.
- c. Software version type of platforms (makes a difference for Multicast).
- d. Provide a list of URNs that comprise BFT "Key leaders" no more than 35% of total unit platforms.

APPENDIX A – FREQUENTLY ASKED QUESTIONS (FAQS)

3. How do I configure my satellite transceiver?

This procedure is used to request provisioning (configuration) of a satellite transceiver by the BGN. This provisioning is required in order for the AN/GYK-62F System to communicate with the BFT network. Once a request is processed, the provisioning will be done by the BGN. No interaction with the Signal Support System Specialist or S6 is required. The provisioning procedure consists of five steps:

- a. Establish a trusted relationship with the BGN.
- b. Request provisioning.
- c. Monitor the platform while being provisioned.
- d. Verify the provisioning.
- e. Notify the BGN of any problems.

4. Is there Computer Based Training available for FBCB2?

The PM-FBCB2 Readiness Center currently hosts the most current Computer Based Training courses for FBCB2 configurations.

5. How do I submit a recommendation for a FBCB2 system change?

Submit all recommendations for FBCB2 system changes or FBCB2 system feedback to the applicable links on the PM FBCB2 Readiness Center Home Page located at https://fbcb2.army.mil.

APPENDIX B - CAPABILITIES MATRIX

Backwards Compatibility & Interoperability 28 Apr 2011

TO

	6.5 EPLRS	6.5 BFT	JCR 1.3 EPLRS	JCR 1.3 BFT (L-Band)
6.5 EPLRS	Full SA	Full SA	Full SA	Full SA
	Full C2 N2	C2 – 3 Msg ^{N1}	C2 – 13 Msg N5	C2 – 3 Msg N1
6.5 BFT	Full SA	Full SA	Full SA	Full SA
	C2 – 3 Msg ^{N1}	Full C2	C2 – 3 Msg	Full C2 N4
JCR 1.3 EPLRS	Full SA	Full SA	Full SA	Full SA
	C2 – 3 Msg	C2 – 3 Msg	Full C2	C2 – 21 Msg
JCR 1.3	Full SA	Full SA	Full SA	Full SA
BFT (L-Band)	C2 – 3 Msg ^{N1}	Full C2	C2 – 21 Msg	Full C2
JCR 1.3	Full SA	Full SA	Full SA	Full SA
BFT /BFT2 (Type 1)	Full C2 N3	C2 -21 Msg N1	Full C2	C2 – 21 Msg ^{N1}
6.5 IDM 8.1.3/9.1.2	Full SA	Full SA	Full SA	Full SA
BFT-AVN	C2 – 3 Msg	C2 – 3 Msg	C2 – 3 Msg	C2 – 3 Msg
6.5 EDM 1.1.6/1.2.1/1.2.2	Full SA	Full SA	Full SA	Full SA
BFT-AVN	C2 – 1 Msg*	C2 – 3 Msg*	C2 – 1 Msg*	C2 – 3 Msg*
JCR EDM 1.2.1/1.2.2	Full SA	Full SA	Full SA	Full SA
BFT-AVN w/ or w/o PED	C2 – 1 Msg*	C2 – 3 Msg*	C2 – 3 Msg*	C2 – 3 Msg*

N1 = Messages can only be sent if message is Unclassified.

N2 = Within Common Database, if not 3 Messages Only.

N3 = If Secret to Secret.

N4 = With same Master Address book.

N5 = With Extended address book.

N6 = OH-58D utilize 8.1.3, AH-64D utilized 9.1.2.

N7 = Limited fielding of EDM/BFT-AVN with PED

APPENDIX B - CAPABILITIES MATRIX

Backwards Compatibility & Interoperability 28 Apr 2011

TO

	JCR 1.3	6.5 IDM	6.5 EDM	JCR EDM
	BFT /BFT2	8.1.3/9.1.2	1.2.1/1.2.2	1.2.1/1.2.2
	(Type 1)	BFT-AVN	BFT-AVN	BFT-AVN w/ or w/o PED
6.5 EPLRS	Full SA	Full SA	Full SA	Full SA
	Full C2 N3	C2 – 3 Msg N1	C2 – 1 Msg*	C2 – 1 Msg*
6.5 BFT	Full SA	Full SA	Full SA	Full SA
	C2 – 21 Msg	Full C2	C2 – 3 Msg*	C2 – 3 Msg*
JCR 1.3 EPLRS	Full SA	Full SA	Full SA	Full SA
	Full C2	C2 – 3 Msg	C2 – 3 Msg*	C2 – 3 Msg*
JCR 1.3	Full SA	Full SA	Full SA	Full SA
BFT (L-Band)	C2 – 21 Msg N1	Full SA	C2 – 3 Msg*	C2 – 3 Msg*
JCR 1.3	Full SA	Full SA	Full SA	Full SA
BFT /BFT2 (Type 1)	Full C2	Full SA	C2 – 3 Msg*	C2 – 3 Msg*
6.5 IDM 8.1.3/9.1.2	Full SA	Full SA	Full SA	Full SA
BFT-AVN	C2 – 3 Msg	Full C2	C2 – 3 Msg*	C2 – 3 Msg*
6.5 EDM 1.1.6/1.2.1/1.2.2	Full SA	Full SA	Full SA	Full SA
BFT-AVN	C2 – 3 Msg*	C2 – 3 Msg*	C2 – 3 Msg*	C2 – 3 Msg*
JCR EDM 1.2.1/1.2.2	Full SA	Full SA	Full SA	Full SA
BFT-AVN w/ or w/o PED	C2 – 3 Msg*	C2 – 3 Msg*	C2 – 3 Msg*	C2 – 3 Msg*

N1 = Messages can only be sent if message is Unclassified.

N2 = Within Common Database, if not 3 Messages Only.

N3 = If Secret to Secret.

N4 = With same Master Address book.

N5 = With Extended address book.

N6 = OH-58D utilize 8.1.3, AH-64D utilized 9.1.2.

N7 = Limited fielding of EDM/BFT-AVN with PED

FOUO

APPENDIX B - CAPABILITIES MATRIX

C2 Messages

C2 – 3 Messages	C2 – 13 Messages	C2 – 21 Messages
Free Text* [EDM] Overlay MEDEVAC Request	Messages 1-3 plus: 4. MAYDAY 5. Situation Report (SITREP) 6. Engagement Report/BDA 7. Field Order 8. Obstacle Report 9. Land Route Report 10. Bridge Report 11. NBC1 Report 12. Logistics Report 13. Observer Readiness Report	Message 1-13 plus: 14. Check Fire 15. Call for Fire 16. Observer Mission Update 17. On Call Fire Command 18. Message to Observer (MTO) 19. End of Mission and Surveillance (EOM) 20. Subsequent Adjust 21. Position Report* [EDM]

APPENDIX C - COMBAT CHECKS - PRE-COMBAT CHECKS

TTP	The following is an abbreviated example of a Pre-Combat Checklist to ensure your system is
	fully mission capable. Checklist should be according to unit SOP.

TIP Always use the appropriate Technical Manual when performing maintenance.

Pre-Combat Checks to Perform	Completed Date and Initials
□ Perform required PMCS	
☐ Verify Touch Screen is Calibrated	
☐ Setup/Verify Message Addressing	
☐ Setup/Verify Quick Send Buttons	
☐ Setup/Verify MEDEVAC Frequencies and Callsign	
☐ Setup Message Folders	
☐ Verify SA Filter Settings in accordance with unit SOP	
☐ Send Free Text Message to Verify Communications	
☐ Verify Map Management Settings	
☐ Verify Graphics/Overlays	
☐ Import TIGR Data (Secret user ONLY)	

FOUO

APPENDIX C - COMBAT CHECKS - POST-COMBAT CHECKS

TTP	The following is an abbreviated example of a Post-Combat Checklist to ensure your system is
	fully mission capable. Checklist should be according to unit SOP.

TIP Always ensure your equipment is in top condition after conducting missions.

Post-Combat Checks to Perform	Completed Date and Initials
□ Perform Required After Operations PMCS	
☐ Perform Clear Data	
☐ Perform Proper Shutdown Procedures	
☐ Properly Secure FBCB2-JCR Equipment	
☐ Export TIGR Data (Secret user ONLY)	

APPENDIX D - TECHNICAL SUPPORT SERVICES

- PM FBCB2 Readiness Center (RC) website https://fbcb2.army.mil
- FBCB2 BFT Network Operations Center-Field Support Center:
 - For up-to-date information on FBCB2 networks, equipment, and documentation.
 - Use Army Knowledge Online (AKO) or Common Access Card (CAC) credentials when registering with the Readiness Center.
 - S6/Signal Support System Specialist must be registered as trusted operator on BGN help Web site and added to the BGN 'Trusted Relationships' database to request and receive operational support services.
 - DSN: 312-648-2119.
 - Commercial: 443-395-2119.
 - NORTHCOM / SOUTHCOM / PACOM / EUCOM: BGN2 VoSIP: 302-691-2105
 - CENTCOM: BGN2 VoSIP: 302-691-2105
 - Email: <u>bfthelp.conus@us.army.mil</u>
 - NIPR: https://fbcb2-bfthelp.army.mil bfthelp.conus@us.army.mil
 - SIPR: https://fbcb2-bfthelp.army.smil.mil
 bfthelp.conus@us.army.smil.mil
- TRADOC Capability Manager Brigade Combat Team Mission Command (TCM BCT-MC) website (CAC required):
 - https://www.benning.army.mil/mcoe/cdid/TCM-BCT-MC.HTM
- TCM BCT/MC Knowledge Network: https://www.us.army.mil/suite/community/5606

APPENDIX D - TECHNICAL SUPPORT SERVICES

•	Fort Bliss MTC	Commercial (915) 568-6242
•	Fort Carson MTC	Commercial (719) 526-5410
•	Fort Knox MTC	Commercial (502) 624-2389
•	Fort Riley MTC	Commercial (785) 239-1492
•	Fort Sill MTC	Commercial (580) 442-9514
•	Fort Hood MTC	Commercial (254) 288-1446
•	Fort Campbell MTC	Commercial (270) 798-0493

- Digital Training Facilities
 - · Listed on following pages

Site Location	DTF Building/Room/Phone #	POC Phone #
AK		
Ft. Richardson	Bldg 7, Rms 106 & 07	Phone: 907-384-0701
Comp: AC	Phone: 907-384-0565 (0564)	DSN: 317-384-0970
Seats: 32	DSN: 317-384-0565	
Ft. Wainwright	Bldg 1031, Rms. 1, 2, & 3	Phone: 907-353-7270
Comp: AC	Phone: 907-353-6799	
Seats: 48		
AL		
Anniston	Pelham Range AFRC	Phone: 256-848-9512
Comp: RC	Bldg P8427 Rm. 224	
Seats: 12	Phone: 256-820-7698	
Mobile		Phone: 251-665-5918
Comp: RC	Information not available	Phone: 251-665-5902
Seats: 16		
Montgomery	Bldg 1730, Room 244	Phone: 334-244-9239
Comp: RC	Phone: 334-213-7537	Cell: 678-371-8193
Seats: 16		
AR		
N. Little Rock	Bldg 2, Rms. DL-1, 2 & 3	Phone: 501-771-7805
Comp: RC	Phone: 501-771-7396	Cell: 210-639-8203
Seats: 36		
AZ		
Ft. Huachuca	Greely Hall Bldg 61801, Rm. 1046B	Phone: 520-533-2390
Comp: AC	Phone: 520-533-9476	
Seats: 48	(6962, 6964 or 6966) DSN: 821	
BE		
Camp Chievres	Bldg 20104	DSN: 476-2378
Comp: AC	Phone: 011-32-6827-6155	
Seats	DSN: 361-6155	

CA		
Camp Bell	Bldg 334	Phone: 323-307-4864
Comp: RC	Phone: 323-307-4863	
Seats: 24		
Ft. Hunter Liggett	Bldg 291, Rms. 1 & 2	Phone: 831-386-3456
Comp: RC	Phone: 831-386-2003	
Seats: 24	DSN: 686-2003 DL1: 2318 or DL2: 2003	
Ft. Irwin	Bldg 284, Rms. 2, 3 & 4	Phone: 760-380-2984
Comp: AC	Phone: 760-380-2103 (2129, 2128 or 2127)	
Seats: 48	DSN: 470	
March ARB	Bldg 2605, Rms. 100C & 100F	Cell: 951-205-7925
Comp: RC	NO DSN DTFM: : 951-653-4697	
Seats: 24		
Mare Island	Bldg 1296, Rms. 112, 118 & 122	Phone: 707-562-6090
Comp: RC	Phone: 707-562-6150 (6060, 6063 or 6064)	
Seats: 36		
Parks RFTA	Bldg 514, Rms. 1 & 2	Phone: 925-875-4304
Comp: RC	Phone: 925-875-4702 (4704)	925-875-4301
Seats: 24		925-719-5984
Sacramento	Bldg 682, Rms. 1 & 2	Phone: 916-386-5609
Comp: RC	Phone: 916-386-6512	
Seats: 24		
W. Los Angeles	Holderman Hall - Bldg 1250, Rm. 106	Phone: 310- 235-4275
Comp: RC	Munimouri Hall - Bldg 1250, Rm. 218	
Seats: 24	Phone: 310-235-4145 (4145 or 4141)	
со		
Ft. Carson	Bldg 1117, Rms. 303A, 316A, 316B	Phone: 719-526-3821
Comp: AC	Phone: 719-524-2161 (2301, 0973 or 2535)	
Seats: 48		

FL		
Jacksonville	Bldg 751, Rms. 106, 109 & 2115	Phone: 904-766-3714
Comp: RC	Phone: 904-766-7830 (7840 or 7929)	
Seats: 36		
Tampa	Bldg 11, Rms. 3-15	Phone: 813-353-3188
Comp: RC	Phone: 813-353-3184	ext 4735
Seats: 24		
W. Miami Perrine	Bldg 13601, Rms. 1 & 2	Phone: 786-581-2005
Comp: RC	(North West Side of the building)	
Seats: 24	Phone: 786-581-2022 (2023)	
GA		
Ft. Benning	Module C0003, Rm.114, 115	Phone: 706-545-6868
Comp: AC	Phone: 706-545-3299 or 9086	Cell: 706-457-1537
Seats: 48		
Decatur RTC (Atlanta)	Bldg 1650, Rms. 201A, 201B & 201C	Phone: 404-286-6359
Comp: RC	Phone: 404-286-3218 (3216 or 3217)	
Seats: 36		
Ft. Gordon	Greely Hall - Bldg 29809, Rm. 130	Phone: 706-791-2303
Comp: AC	Saltzman Hall - Bldg 29811, Rm. 115	
Seats: 48	Allen Hall - Bldg 29813, RM. 132	
	Phone: 706-791-7159 (7135 or 3156)	
Ft. Stewart	Bldg 626, Rms. DL-1, 2, 3, 4, 5 & 6	Phone: 912-767-3855
Comp: AC	Phone: 912-767-1516 (0536, 1516, 1686,	
Seats: 96	(4646, 2646 or 2116) DSN: 870	

GE		
Bamberg	Warner Barracks - Bldg 7055, Rms. DL-1, 2 & 3	DSN: 476-2378
Comp: AC	Phone: 0951-300-8118	
Seats: 48	DSN: 314-469-8118 (8117 or 8822)	
Baumholder	Smith Kaserne - Bldg 8280, Rms. DL-1, 2 & 3	DSN: 476-2378
Comp: AC	Phone: 06783-6-8289	
Seats: 48	DSN: 314-485-8289 (8290, 8296, 8294, or 8292)	
Grafenwoehr	Bldg 3144, Rms. DL-1, 2 & 3	DSN: 476-2378
Comp: AC	Phone: 09641-454-2381	
Seats: 48	DSN: 314-474-2381 (2383 or 2385)	
Illisheim	Bldg 6541, Rms. DL-1 & 2	DSN: 476-2378
Comp: AC	Phone: 09841-83-4373	
Seats: 32	DSN: 314-467-4373 (or 4343)	
Kaiserslautern	Bldg 2874, Rms. DL-1, 2 & 3	DSN: 476-2378
Comp: AC	Phone: 0631-3406-4327 (4480,4327,4329)	
Seats: 48	DSN: 314-493-4327	
Mannheim	Coleman Barracks Bldg 25, Rms. DL-1, 2 & 3	DSN: 476-2378
Comp: AC	Phone: 0621-779-4384 (4381, 4384 or 4388)	
Seats: 48	DSN: 314-382-4384	
Schweinfurt	Conn Barracks Bldg 64, Rms. DL-1, 2 & 3	DSN: 476-2378
Comp: AC	Phone: 0992-196-8564	
Seats: 48	DSN: 314-353 (8564, 8566 or 8568)	
Stuttgart	Panzer Barracks Bldg 2931, Rms. DL-1 & 2	DSN: 476-2378
Comp: AC	Phone: 0703-115-2329 (or 2936)	
Seats: 32	DSN: 314-431-2329 (or 2936)	
Vilseck	Rose Barracks Bldg 355, Rms. 101, 102, 103, Rms. 201 202 & 203	DSN: 476-2378
Comp: AC	Phone: 09662-83-3758 (3029 or 2156)	
Seats: 96	DSN: 314-476-3758	
Wiesbaden	Bldg 1638, Rms. DL-1, 2 & 3	DSN: 476-2378
Comp: AC	Phone: 0611-705-5074 (5076 or 5082)	
Seats: 48	DSN:314-337-5074	

ні		
Ft. Shafter	Bldg 1554, Rm. 109	Phone: 808-438-1600
Comp: RC	Phone: 808-438-0451	ext. 3317
Seats: 13		
Wheeler	Bldg 1006, Rms. DL-1, 2 & 3	Phone: 808-656-9261
Schofield Barracks	Phone: 808-656-0453	
Comp: AC	DL1 808-656-0159; DL2 808-656-0164	
Seats: 48	DL3 808-656-6600 DSN: 456	
IA		
Des Moines	Bldg 50, Rm. DL-1	Phone: 515-285-4692
Comp: RC	Phone: 515-285-4692	ext. 3323
Seats: 12	ext 3308	
IL		
Chicago Sheridan	Bldg 599, Rm. 34	Phone: 847-266-2556
Comp: RC	Phone: 847-266-3407	
Seats: 24		
IN		
Grissom ARB	Bldg 639	Phone: 765-689-9179
Comp: RC	Phone: 765-689-9106	ext. 222
Seats: 13		
Indianapolis	Bldg 124, Rms. DL-1 & 2	Phone: 317-532-4180
Ft Ben Harrison	Phone: 317-532-4172	
Comp: RC		
Seats: 12		
IT		
Vincenza	Caserma Ederle – Bldg 128, Rm. DL-1 & 2	DSN: 476-2378
Comp: AC	Phone: 39-0444-71-7989	
Seats: 32	DSN: 314-634-7989 (or 8326)	

KO		
Camp Carroll	Bldg 205	DSN: 315-724-3313
Comp: AC	Phone: 011-82-54-970-8948	
Seats: 16	DSN: 765-8948	
Camp Casey	Bldg 2406	DSN: 315-724-3313
Comp: AC	Phone: 011-82-31-869-3288	
Seats: 48	DSN: 730-3288	
Camp Henry	Bldg 1131	DSN: 315-724-3313
Comp: AC	Phone: 011-82-53-470-7911	
Seats: 16	DSN: 315-768-7911	
Camp Hovey	Bldg 3671	DSN: 315-724-3313
Comp: AC	DSN: 730-5441	
Seats: 32	Phone: 011-82-31-869-5441	
Camp Humphreys	Bldg T-302, Rm. DL-1 & 2	DSN: 315-724-3313
Comp: AC	Phone: 011-82-31-690-7558	
Seats: 32	DSN: 315-753-7558	
KS		
Ft. Leavenworth	Bldg 62, Rm. L3	Phone: 913-684-7345
Comp: AC	Phone: 913-684-2940	
Seats: 16	DSN: 552	
Ft. Riley	Bldg 8388, Rms. DL-1, 2, 3, 4, 5 & 6	Phone: 785-239-5500
Comp: AC	Phone: 785-239-4527 / 1399	
Seats: 96	(9071, 9954, 9063, 1066, 9308, 1251)	
	DSN: 856	
Wichita	Bldg 3130, Rms. D208 & D208A	Phone: 316-681-1759
Comp: RC	Phone: 800-892-7266	ext 1265
Seats: 24	ext 1355 or 1358	

KY		
Ft. Campbell	Bldg 6912 Rms. DL-1, 2 & 3	Phone: 270-798-3255
Comp: AC	Bldg 6911 Rm. DL-4, 5 & 6	
Seats: 96	Phone: 270-798-6142	
	(6141, 6139, 6142, 3938, 5233, 5338 or 5373)	
	DSN 635	
Ft. Knox	DL2, Boudinot Hall, Room B101	Phone: 502-626-1188
Comp: AC	Phone: 502-626-0174	
Seats: 16	DL3, Boudinot Hall, Room B103	
	Phone: 502-626-0173	
Ft. Knox	DL2, Boudinot Hall, Room B101	Phone: 502-626-1188
Comp: RC	502-626-0174	
Seats: 24	DL3, Boudinot Hall, Room B103	
	502-626-0173	
Lexington	Bldg 1051, Rms. DL-1 & 2	Phone: 859-254-2085
Comp: RC	Phone: 859-422-4336 (4338)	
Seats: 24		
LA		
Bossier City (Shreveport)	Rms. 226/223	Phone: 318-759-1346
Comp: RC	Phone: 318-759-1365	
Seats: 24		
Polk	Bldg 660, 337-531-5665; DSN 863	Phone: 337-531-0248
Comp: AC	DL1 (Rm 206) 337-531-8541	DSN: 863-0248
Seats: 48	DL2 (Rm 227) 337-531-5989	
	DL3 (Rm 229) 337-531-5996	
MA		
Devens RFTA	Bldg 656, Rms. DL-1, 2 & 3	Phone: 978-796-2113
Comp: RC	Phone: 978-796-3612 (2605 or 2626)	-3951
Seats: 36	DSN: 256	

МІ		
Grand Rapids	Walker USARC	Phone: 616-735-4050
Comp: RC	Phone: 616-735-4050	ext 132
Seats: 13	ext 142	
Southfield	Poxon Hall – Bldg 26402, Rm. DL-1	Phone: 248-208-2830
Comp: RC	Phone: 248-356-5514 (4092)	ext. 230
Seats: 24		
Ft. Snelling	Bldg 506, Rms. B115A-1 & B115A-2	Phone: 612-713-3127
Comp: RC	Phone: 612-713-3620 (3616)	
Seats: 12	DSN: 783	
МО		
Belton	Bldg 1200, Rm. DL-1	Phone: 816-318-0007
Comp: RC	Phone: 816-318-0007	ext 2607
Seats: 13	ext 2739	
Independence	Sergeant Charles Long - Rms. 130A & 130B	Phone: 816-836-0005
Comp: RC	Phone: 816-836-0005	ext 2103
Seats: 12	ext 2158	
St. Louis	Goodfellow USARC - Rm. 122	Phone: 314-382-9013
Comp: RC	Phone: 314-382-9013	ext 2346
Seats: 36	ext 2423, 2422 or 2424	
NC		
Ft. Bragg	Bldg 3915, Rms. 302A, 302B & 303A	Phone: 910-396-6625
Comp: AC	Phone: 910-907-4174 (4175 or 4176)	
Seats: 48		
Charlotte Concord	Bldg 1300, Rms. DL1, & DL2	Phone: 704-342-5124
Comp: RC	Phone: 704-347-5828	
Seats: 24		

NJ		
JBMD (Ft. Dix)	Bldg 5506, Rms. DL-1, 2 & 3	Phone: 609-562-4852
Comp: RC	Phone: 609-562-4477 (5640, 5644 or 5642)	
Seats: 36		
NY		
Ft. Drum	Bldg P4300, Rms. 142, 143 & 144	Phone: 315-772-5361
Comp: AC	Phone: 315-772-9475 (9798 or 9978)	Phone: 315-772-4857
Seats: 48		
Rochester	Bldg, Rm. 132	Phone: 800-238-3138
Comp: RC	Phone: 585-266-4152	ext 2303
Seats: 12		
Ft. Totten	Bldg 200, Rms. 2013/DLC-C,	Phone: 718-352-5566
Comp: RC	Rms. 2014/ DLC-B Rms. 2016/DLC-A	
Seats: 36	Phone: 718-352-6723 (5347 or 2251)	
	DSN: 312-456-0723	
ОН		
Cincinnati Kings Mills	Bldg 100, Rms. 18 & 19	Phone: 513-683-7648
Comp: RC	Phone: 513-683-4146 (0794)	7637 ext 400 or 402
Seats: 24		
Columbus	Bldg 165, Rms. 236, 237, 238	Phone: 614-692-2850
Comp: RC	Phone: 614-693- 9561 (9514 or 9546)	
Seats: 36		
ок		
Ft. Sill	Bldg 730, Rms. 105, 106 & 107	Phone: 580-442-2573
Comp: AC	Phone: 580-442-6895 (3566, 4156 or 5809)	
Seats: 48	DSN: 639	

PA		
Harrisburg	Bldg 2997, Rms. DL-1 & 2	Phone: 717-234-5986
Comp: RC	Phone: 717-234-5985	ext 8433
Seats: 24 Steve Lea	ext 8414	
Philadelphia - Willow Grove	Bldg 5500	Cell: 610-969-8845
Comp: RC		
Seats: 36		
Coraopolis	Rm. 219 DL-1	Phone: 412-604-8045
Comp: RC	Phone: 412-604-8053	
Seats: 12		
PR		
Ft. Buchanan	Bldg 507, Rms. DL-1 & 2	Phone: 787-707-4174
Comp: RC	Phone: 787-707-4330 (707-4332 or 707-4333)	
Seats: 24		
sc		
Ft. Jackson	Bldg 4600, Rms. DL1 - B200,	Phone: 803-751-7209
Comp: AC	DL2 - B208, DL3 - B308	
Seats: 48	Phone: 803-751-3988 (4110 or 4163)	
	DSN: 734	
N. Charleston	Bldg 3270, Rms. 1 & 2	Phone: 843-743-0305
Comp: RC	Phone: 843-743-0593 (0591)	DSN 569
Seats: 24		
TN		
Millington	Bldg 786, Rm. 103 Bldg 751, Rm. 135	Phone: 901-874-6066
Comp: RC	Phone: 901-874-6047 or 874-6033	
Seats: 24	DSN: 882	
Nashville	Bldg 160, Rms. DL-1 & 2	Phone: 615-354-6000
Comp: RC	Phone: 615-352-1680 or (615) 352-1499	ext 8232
Seats: 24		

тх		
Ft. Bliss	Bldg 2C, Rm. 220 Bldg 2439, Rm. 102	Phone: 915-744-6873
Comp: AC	Bldg 2473, Rm. 139	
Seats: 48	Phone: 915-569-5370 (5368 or 5361)	
	DSN 979	
Dallas Grand Prairie	Bldg 310, Rms. 169, 225 & 226	Phone: 972-343-4179
Comp: RC	Phone: 972-343-4094 (4118 or 4096)	
Seats: 36		
Ft. Hood	Bldg 91042, Rms. DL-1, 2 ,3	Phone: 254-286-6243
Comp: AC	Phone: 254-285-5705 DSN:663	
Seats: 48	Phone: 254-618-8373 DSN:259	
Sam Houston	Bldg 2841, Rms. 0501, 1407, & 1406	Phone: 210-221-8367
Comp: AC	Phone: 210-221-6400 (6468 or 6389)	
Seats: 48	DSN: 471	
Seagoville	Bldg 1000, Rms. DL-1 & 2	Phone: 972-287-0955
Comp: RC	Phone: 972-287-9111 (9112)	
Seats: 24		
UT		
Salt Lake City	Bldg 3, Rms. DL-1, 2 & 3	Phone: 801-712-3347
Comp: RC	Phone: 801-364-9303	
Seats: 12	ext. 253, 259, or 248	

VA		
Ft. Belvoir	Cell: 202-903-7788	Phone: 703-805-5239
Comp: AC		
Seats: 32		
Ft. Eustis	Bldg 650, Rm. 14 Bldg 2730, Rm. I-1	Phone: 757-878-3761
Comp: AC	Phone: 757-878-6934 (DL#1) Hunter Hall	
Seats: 16		
Richmond	Bldg 6700, DL1 & DL2 Phone: 804-743-5617	Phone: 804-271-5812
Comp: RC	Phone: 804-743-5617	
Seats: 24		
WA		
JBLM (Ft. Lewis)	Bldg 3201, Rms. DL-1, 2,3,	Phone: 253-967-2197
Comp: AC	Bldg 6238, Rms. DL- 4,5,6	
Seats: 100	DSN: 357; 347 & 782	
	Phone: 253-967-9771 (966-6098, 6096 or 6094)	
	Phone: 253-968-7938 (7797, 7753, 7664)	
wı		
Ft. McCoy	Bldg 50, Rms. DL-1, 2 & 3	Phone: 608-388-8589
Comp: RC	Phone: 608-388-2474 (3908 or 3801)	DSN 280-8589
Seats: 36	DSN: 280	
Milwaukee	Bldg 318, Rms. DL-1 & 2 Bldg 317, Rm. DL-3	Phone: 414-535-5863
Comp: RC	Phone: 414-535-4101 (4105 or 4103)	
Seats: 36		

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APPENDIX E - ABBREVIATIONS/ACRONYMS

(V) – Version
Admin – Administrative
Apps – Applications
BDA – Battle Damage Assessment
BFT – Blue Force Tracking
BGN – BFT Global Network Operation Center
BRT – Brightness
C2R – Command and Control Registry
C4ISR – Command, Control, Communication,
Computers, Intelligence, Surveillance and
Reconnaissance
CADRG – Compressed Arc Digital Raster Graphic
CB – Circuit Breaker
CCI – Controlled Cryptographic Item
CFF – Call for Fire
CIB – Controlled Image Base
CIP – Control Indicator Panel
Comm – Communication
COMSEC – Communication Security
COTS – Commercial off the Shelf
CPG – Convoy Patrol Group
DAGR – Defense Advanced GPS Receiver
DDS – Data Dissemination Service
Digital SOP – Digital Standard Operating Procedure
DTF – Digital Training Facility
DTD – Data Transfer Device
DTED – Digital Terrain Elevation Data
DTG – Date/Time Group

DU – Display Unit
ELM – Electronic Maintenance Facility
EP – Electronic Protection
EPLRS – Enhanced Position Location Reporting System
FAQs – Frequently Asked Questions
FBCB2 – Force XXI Battle Command Brigade-and-Below
FIPR – Flash/Immediate/Priority/Routine Precedence
FOUO – For Official Use Only
FREQ – Frequency
GB – Gigabyte
GPS – Global Positioning System
HUB – Hold Up Battery
IED – Improvised Explosive Device
INC – Internet Controller
IP – Internet Protocol
IPB – Intelligence Prep of the Battlefield
ISUM – Interactive Software Users Manual
ISUM – Interactive System User Manual
JBC-P – Joint Battle Command-Platform
JCR – Joint Capabilities Release
KEK – Key Encryption Key
KU – Keyboard Unit
LCD – Liquid Crystal Display
LED – Light Emitting Diode
LOS – Line of Sight

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APPENDIX E - ABBREVIATIONS/ACRONYMS

LTI – Lower Tactical Internet
MDL – Mission Data Loader
MDS – Mission Data Set
MEDEVAC – Medical Evacuation
MGRS – Military Grid Reference System
Misc – Miscellaneous
MRT – Military Rugged Tablet
Msg – Message
MTC – Mission Training Complex
Nav – Navigation
NiCad – Nickel Cadmium
OBST – Obstacle
OPS – Operations
OR – Operator Response
OVLY – Overlay
PCB – Printed Circuit Board
PED – Platform Encryption Device
PFF – Personal File Folders
PLI – Position Location Information
PMCS – Preventive Maintenance Checks and Services
PSG – Platoon Sergeant
PU – Processor Unit
PWR – Power
R/T – Receiver Transmitter
RC – PM FBCB2 Readiness Center
RHDDC – Removable Hard Disk Drive Cartridge

ROC-V – Recognition of Combat Vehicles
RPF – Raster Product Format
RS – Radio Sets
SA – Situational Awareness
SAASM – Selective Availability Anti-Spoofing Module
SBU – Sensitive But Unclassified
SecureMDL – Secure Mission Data Loader
SITREP – Situation Report
SKL – Simple Key Loader
SMI – Soldier-Machine Interface
SOI – Signal Operating Instructions
SQ ON – Squelch On
SSD – Solid State Drive
STBY – Standby
TEK – Traffic Encryption Key
TIGR – Tactical Ground Reporting
TSG – Tactical Services Gateway
TTP – Tactic, Technique or Procedure
USB – Universal Serial Bus
USMC – US Marine Corps
UTO – Unit Task Organization
VAA – Vehicle Amplified Adapter
VBIED – Vehicle Borne Improvised Explosive Device
VPF – Vector Product Format
WGM – Wingman