INCIDENT COMMAND POST
COMMUNICATIONS PACKAGE LITE
QUICK REFERENCE GUIDE
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Process Overview

Successful data and voice connectivity is dependent on following these steps and instructions carefully.

1. Unpack all system components and select location for setup.
2. Determine BGAN terminal recommended pointing angle and direction:
    a. If power source is available, connect to laptop using appropriate power adapter.
    b. Power up the laptop
    c. Launch BGAN Launchpad software application.
    d. Enter "nearest city" or click near current BGAN location on the world map.
    e. Note the recommended angle and direction displayed below the world map.
3. Pointing the BGAN terminal:
    a. If power source is available, connect to BGAN using appropriate power adapter.
    b. Connect the blue Ethernet cable into the BGAN terminal Ethernet port (center).
    c. Adjust stand on BGAN terminal to angle listed noted on Launchpad.
    d. Using the compass on back of BGAN terminal, orient the terminal in direction noted on Launchpad.
    e. Power up the BGAN terminal and position terminal angle and direction to obtain optimum signal strength. If desired, turn on the audio by selecting the Audio button to assist in final position adjustments. Turn off audio after optimum signal is obtained.
4. Connect other end of blue Ethernet cable from the BGAN terminal to Internet port of the System/VOIP router. **Do not apply power to the router at this time**.
5. Connect one end of an Ethernet cable to network port on right side of the laptop. Connect the other end to the yellow Ethernet port of System/VOIP router and power up the router.
6. Establish data (internet) connection via BGAN network:
    a. On Launchpad application, click on "Search for BGAN Terminal".
    b. Register Hughes 9201 w/ BGAN network.
    c. Establish a data connection.
7. Establish voice/phone connection via Vonage Voice Over Internet Protocol (VOIP) network:
    a. Register VOIP router with Vonage network. (Note: Requires functional data connections via BGAN network). This may take a few minutes while System/VOIP router registers with the network.
    b. Establish VOIP phone connectivity.
8. Install Common Access Card (CAC) Reader (optional).
9. Making national and international phone calls via standard telephone set. (Note: If there is an ISDN phone available, it can be attached directly to the BGAN terminal ISDN port during initial Ethernet connection and will be functional after BGAN terminal is registered on the BGAN network.)
10. Using the Motorola Push To Talk (PTT) cellular phone.

Material/Equipment List

Qty	Description	Qty	Description
1	BGAN Terminal, Hughes 9201w/ power adapter	1	Standard Telephone w/handset and cable
1	Laptop Computer, Panasonic Toughbook w/ power adapter	1	Power Strip
1	Spare Computer Battery	2	Motorola PTT cell phone, Model i760
1	Common Access Card (CAC) Smartcard Reader, Model SCR331	Set	Ethernet Cables, Cat 5, long, blue, 2 ea.
1	System/VOIP Router. **(Note: only one of following is included)**	Set	Ethernet Cables, Cat 5, short, yellow, 2 ea.
		Set	Miscellaneous power adapters, connectors

- Motorola VOIP Router, Model VT2442, w/ power adapter
- Motorola VOIP Router, Model VT2142,w/ power adapter
- Vonage VDV21-VD VPortal (VOIP),w/ power adapter

Step	Description	Step	Description

NOTE: DO NOT APPLY POWER TO SYSTEM COMPONENTS UNTIL INSTRUCTED TO DO SO.

1.   **Setting Up The Laptop**

   a. Remove the power strip, cables, etc. from the case.
   b. If power is available, connect power strip to power source.
   c. Remove the Panasonic laptop computer from the case. If power is available, connect the power adapter to the power connector, located on the right side of the laptop. **NOTE: MAKE SURE TO USE THE CORRECT POWER ADAPTER.** Connect one end of the power cord to this adapter; connect the other end to the power strip.

   d. Connect one end of the yellow Cat 5 Ethernet cable to the network port on the right side of the laptop. The other end will be connected to a yellow Ethernet port on the System/VOIP Router as instructed in Step 4.
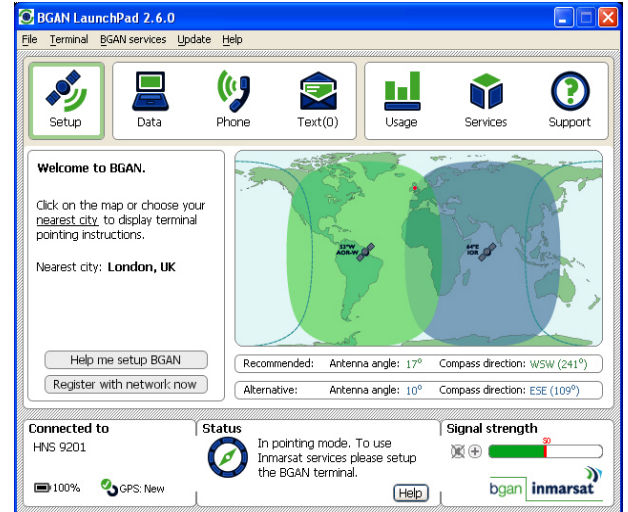   e. Apply power to the laptop using the slide switch on the right front.

2.   **Determine BGAN Orientation**

   a. Open BGAN LaunchPad software application by double clicking on the

BGAN LaunchPad icon on the laptop. Screen similar to following is displayed.

   b. Click on "**Nearest city**" link in the Welcome to BGAN box, then select city nearest present BGAN location, or click near current BGAN location on the world map.
   c. Note the recommended antenna angle and compass direction displayed below the world map.

3.   **Setting Up The BGAN Terminal**

Establishing a connection with the BGAN network requires careful orientation of the BGAN terminal towards the satellite.

   a. Remove the Hughes 9201 BGAN terminal from the case. The rechargeable battery and USIM card should already be installed in the terminal. Position the terminal outside on a flat surface, facing upwards with an unobstructed view of the sky.

b. If AC power is available, connect the power adapter to the right side (as viewed from the front) of the BGAN terminal. **NOTE: MAKE SURE TO USE THE CORRECT POWER ADAPTER.** Connect the other end to the power strip.

c. Position BGAN terminal to toward recommended angle and direction noted in Step 2.

   1) Using the BGAN terminal built-in compass, physically rotate terminal left or right until it points in the correct horizontal direction (azimuth). (**Note: make sure compass is horizontal to get an accurate reading).**

   2) Using the BGAN terminal graduated scale (on right side of terminal near thumbwheel), tilt the terminal slowly up or down until it points in the desired vertical direction (elevation).

d. Apply power to the BGAN terminal by pressing the Power button and hold for a few seconds. The GPS LED starts to flash green indicating the terminal is acquiring a GPS fix. After a few minutes the GPS LED turns solid green to indicate a valid GPS fix has been acquired. The GPS LED will turn off after a period of time to save power. (**Note: A valid GPS fix is required for proper operation.**)

e. Slowly position the BGAN terminal angle and direction to obtain optimum signal strength as indicated by the pointing indicator lights. To assist in pointing, use the Audio button to turn the buzzer on. The higher the pitch and shorter the interval, the stronger the received signal. Turn off buzzer after optimum signal is obtained.

f. Using one of the blue Cat 5 Ethernet cables, connect one end to the Ethernet port, located on the right side (as viewed from front) of the BGAN terminal. Slide the cable through the rubber door in order to secure and protect the connection. The other end will be connected to the System/VOIP Router as instructed in Step 4.

4. **Setting Up The System/VOIP Router**

   NOTE: DO NOT APPLY POWER TO THE ROUTER UNTIL ALL COMPONENTS ARE PROPERLY CONNECTED AS INSTRUCTED BELOW.

   a. Remove the System/VOIP Router from the case. (Note: Only one of the following three System/VOIP Routers is included.)

   Motorola VT2142

   Motorola VT2442

   Vonage VDV21-VD VPortal

   b. Connect the other end of the BGAN terminal blue Cat 5 Ethernet cable from Step 3 to the blue "Internet" port on the rear (as viewed from the rear) of the System/VOIP Router.
   c. Connect the other end of the laptop yellow Cat 5 Ethernet cable from Step 1 to the yellow Ethernet 1 port on the rear of the System/VOIP Router.
   d. Remove the standard phone set from the upper compartment of case. Connect the handset to the telephone using the standard, coiled phone cable provided. Connect one end of the RJ-11 cable to the phone set; connect the other end to the green RJ-11 jack labeled "Phone 1" on the rear of the System/VOIP Router. The Phone 1 LED on the front of the router will remain off until successful VOIP registration (Step 8).

   e. Connect the power adapter to the power port on the rear of the System/VOIP Router. **NOTE: MAKE SURE TO USE THE CORRECT POWER ADAPTER.** Connect the other end to the power strip.

   The power LED on the front of the System/VOIP router should start blinking green, and continue until successful registration with the Vonage VOIP network (Step 8). After 1-2 minutes, the power LED may begin to flash RED (depending on which router is in use) indicating the router has not yet registered with the Vonage VOIP network.

   The Internet LED on the System/VOIP Router will turn solid indicating a successful connection.

   Additionally, the Ethernet 1 LED on the System/VOIP Router will turn solid green to indicate successful connection between the laptop and the router.

5. **Register Hughes 9201 Terminal With BGAN Network.**

   a. On the Launchpad application, click on the "**Search for BGAN Terminal**" button. If the terminal is found, LaunchPad will display its status and signal strength on lower part of screen. If the BGAN terminal has a valid GPS fix, the status screen will read "GPS: New". (**Note: A valid GPS fix is required for proper operation.**)
   b. On the Launchpad application, click on **"Register with Network Now"** button.
   c. Upon successful registration, the LaunchPad application status zone reads **"Data Connection Open. Ready for Phone, Test and Data."**
   d. If status zone reads "**Standard Data Connection Open, Ready for Phone, Text**" (e.g. no data connection is

registered), select the "Data" icon at top of screen. Then double click on the **"Standard Data Connection"** to register and open a data connection.

6. **Establishing An Internet Connection**

    a. Make sure the computer is properly connected to the network (e.g. the LED labeled "Internet" and LED next to the Ethernet port to which the computer is connected are solid yellow). The LaunchPad application status zone should read **"Standard Data Connection Open. Ready for Phone, Text and Data.**"
    b. Launch the web browser by double clicking on the desktop icon entitled "Internet Explorer". The CNIC web page is set as the default page and should appear. (Note: connection speed is a function BGAN terminal orientation and may take a while for page to display.) If not, try entering a different web site such as **www.google.com** or **www.navy.mil**.
    c. If unable to connect to any web site, double check that all cables are correctly connected, the appropriate link LEDs are illuminated (Steps 1-4), the BGAN terminal GPS fix is valid and is registered on the BGAN network (Step 5).

7. **Establish Phone Connectivity**

    NOTE: Establishing VOIP phone connectivity is a two step process: 1) establishing an internet connection with the BGAN network (Steps 5 and 6, and 2) registering with the VONAGE VOIP network (Step 8).

8. **Register The VOIP Gateway With VONAGE Network.**

    Note: Registration with the Vonage VOIP network requires a functional BGAN

network (internet) connection (Steps 5 and 6).

The System/VOIP Router should automatically register with the Vonage VOIP network approximately 1-2 minutes after establishing an internet connection with the BGAN network (Step 6). However, if registration is not successful after a few minutes, or the power indicator begins to flash RED (depending on which router in use), a System/VOIP router restart may be required. This can be accomplished by disconnecting from the BGAN network, removing power from all system components, and then repeating Steps 2-6.

a. **Disconnect From BGAN Network**
    1) On the LaunchPad menu, select File, then Exit BGAN LaunchPad. When asked "Are you sure you want to shutdown the BGAN LaunchPad?", select "Yes".
    2) If a data connection has been established, the **BGAN Connection Screen** will be displayed. Select "Close all IP Data connections and exit" box at bottom. When asked "Are you sure you wish to close all IP Data connections?", select "Yes" to exit the LaunchPad software.
    3) Turn off the BGAN terminal by holding down the power button.
b. **Cycling The System/VOIP Router Power**
    1) Remove the power adapter from the power port on the router.
    2) Ensure the system components are properly connected (Steps 1-4).
    3) Wait 30 seconds for router to reset.
    4) Restart Launchpad application on the laptop.
c. Repeat Steps 2-6.

9. **Installing the Common Access Card (CAC) Reader (Optional)**

   a. Remove the CAC reader from the case. Connect the reader cable to the USB port on the right side of laptop computer.
   b. To use the CAC Smartcard reader, insert a CAC card into the slot of the reader. **Note: Use of a CAC card may require registration of the card with the specific software requiring its use (e.g. Microsoft Internet Explorer, Microsoft Outlook, etc.)**
   c. CAC Smartcard reader functionality can be tested as follows:
      1) Open the Smartcard user console by Active Client software by clicking the Start button, then selecting "All Programs", followed by ActiveIdentity, ActiveClient, and User Console. The screen should indicate that no "Card Is Detected".
      2) Insert a CAC card. The top of the ActiveClient screen should display identity information for the card and the "Tasks" section should provide a list of items for Smart Card, Personal, and Certificate Information. **Note: Access to some information may require the Personal Identification Number (PIN) for the card.**

10. **Making A National Phone Call**

    a. Make sure the phone set is connected to the System/VOIP Router and router is functioning on the network (e.g. the "Internet" and Phone 1 LEDs are solid).
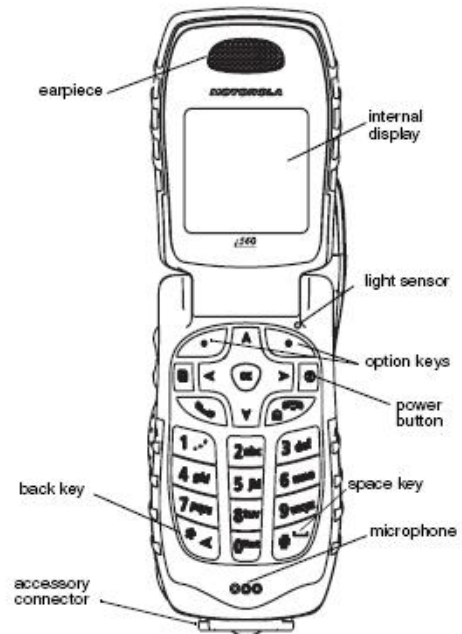   b. Dial 1, then area code followed by 7 digit telephone number.

    (Note: This ICP-CP Lite phone number can be found on the CNIC Portal, Emergency Communications section. It may also be found printed on the Vonage device.)
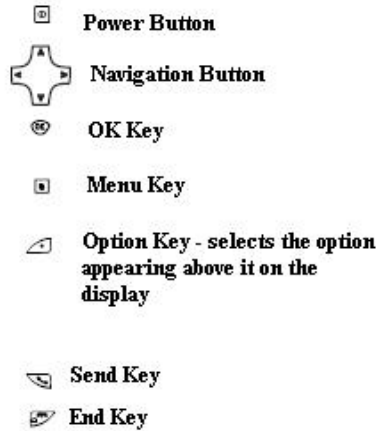
11. **Making An International Phone Call**

    a. Make sure the phone set is connected to the System/VOIP Router and router is functioning on the network (e.g. the "Internet" LED is yellow and Phone 1 LED is solid green).
    b. Dial 1, followed by desired international telephone number.

12. **Using The Motorola i760 PTT Mobile Phone**

    a. **Getting Started**

- Power Button
- Navigation Button
- OK Key
- Menu Key
- Option Key – selects the option appearing above it on the display
- Send Key
- End Key

1) **To power the phone on:**
   a) Open the flip.
   b) Press the Power Button. (As the phone connects to the network, a connecting message will be displayed.)

2) **To pwer the phone off:**
   a) Open the flip.
   b) Press and hold the Power Button.

3) **Finding the Phone Number:**
   a) Press the Menu Key.
   b) Scroll to **"My Info"**.
   c) Press the OK Key.
   d) Scroll to see the information:
      i. Line 1 and Line2 are the phone numbers. **Direct Connect** is the number others use to contact this phone via Push To Talk (PTT, walkie-talkie) service.

b. **Making Calls**

Two types of calls are available: digital cellular phone calls and Direct Connect long-range, digital walkie-talkie (PTT) call.

1) **Digital Cellular Phone Calls:**
   a) With the flip open: Enter the number to call in standard format (e.g. dial 1, then area code followed by 7 digit telephone number).
   b) To place the call, press the Send Key.
   c) To end the call, press the End Key.

2) **Digital Direct Connect (PTT) Calls:** (Note: every Direct Connect number has three parts - area ID, network ID, and member ID - with an asterisk between each part. For example: 999*999*9999. When placing a Direct Call, you must enter the whole number including the asterisks.)
   a) With the flip open: Enter the Direct Connect PTT number (Note: remember to include the asterisks).
   b) Press and hold the PTT button on the side of the phone. Begin talking after the phone emits a chirping sound. A Direct Connect PTT call ends automatically if there is no activity on the call for a few seconds.

c. **Receiving Calls**

1) **Digital Cellular Phone Calls:** When calls are received, the phone rings, vibrates, or lights up its backlight.

   a) Answering:
      i. Open the flip.
      ii. Press the Send Key, or
      iii. Press the OK Key, or
      iv. Press the Option Key under "**YES**" on the display, or
      v. Press any number key.

   b) Ending:
      i. Open the flip.
      ii. Press the End Key, or Press the Option Key under "**Exit**" on the display.

2) **Digital Direct Connect (PTT) Calls:** When calls are received, the phone emits a chirping sound or vibrates.

a) Answering:
   i. Wait for the caller to finish speaking.
   ii. Press and hold the PTT button on the side of the phone. Begin talking when the phone emits a chirping sound.
   iii. Release the button to listen.

b) Ending:
   i. Open the flip.
   ii. Press the End Key, or Press the Option Key under "**Exi**t" on the display.

   A Direct Connect PTT call ends automatically if there is no activity on the call for a few seconds.

ICP-CP Lite Connection Diagram