



Distributed Tactical Communications System (DTCS)

Radio Only Alpha (ROA)



Position Location Information (PLI) Collector Training



Instruction Overview

In this module we will cover:

- DTCS ROA Collector Basics
- ROA PLI Collector Set-up with Voice Capabilities
- ROA PLI Collector Translator Software Set-up
- C2PC / DTCS Operations for COC/TOC



DTCS ROA Collector Basics

In order for the ROA unit to function as a PLI Collector, the following key components are required:

- A DTCS ROA unit and all components to include Iridium antenna and cable.
- A COC/TOC speaker box with accompanying AC 24V power supply and cables for monitoring voice nets.
- A handset or headset.
- A computer or laptop with C2PC and DTCS Translator software installed.
- Additional cables as required.



ROA PLI Collector Set-up





COC/TOC Speaker Box

Front



1. Speaker
2. Speaker Volume Knob
3. Speaker On/Off switch



COC/TOC Speaker Box

Bottom Front



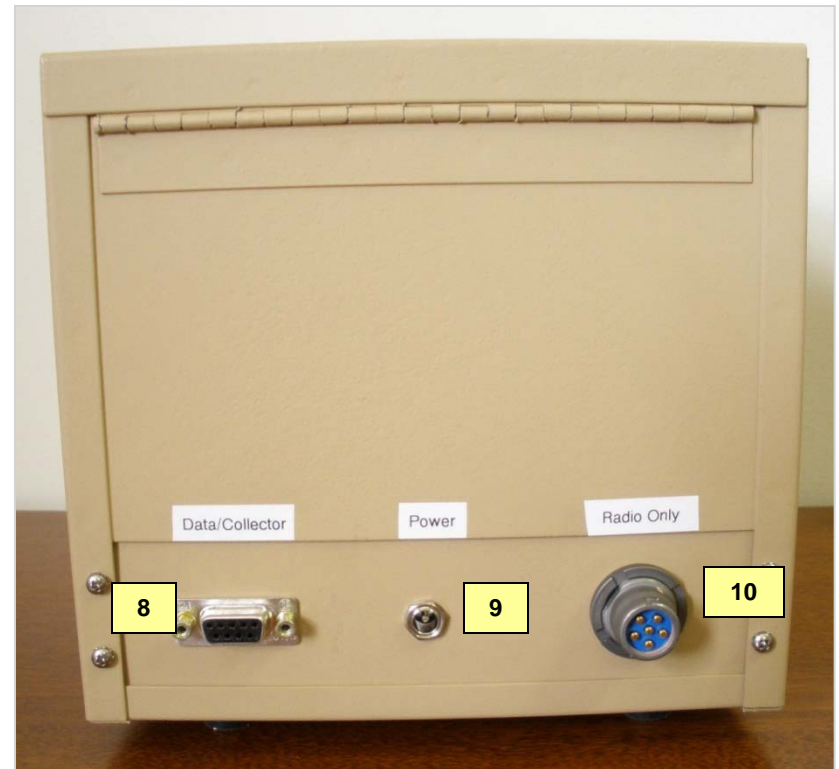
4. Handset/ Headset Speaker volume knob
5. Handset/ Headset 6-pin connector
6. On/Off LED light
7. Speaker box power On/Off switch



COC/TOC Speaker Box

Rear

- 8. **DB-9 Data/ Collector connection**
- 9. **AC 24V Power Supply connection**
- 10. **Radio 6-pin connection**





Directions for ROA PLI collector set-up with COC/TOC speaker box

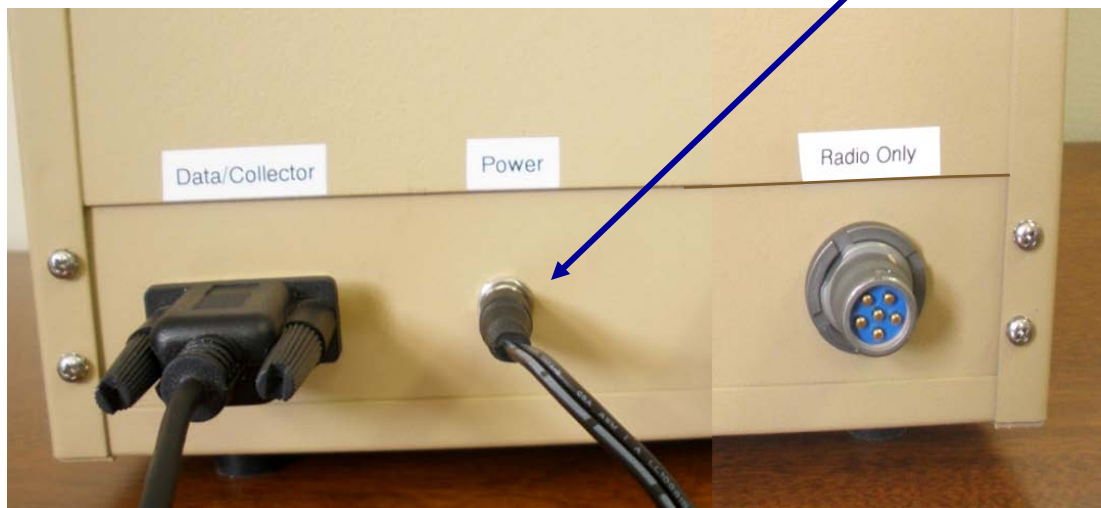
1. With the computer powered on, connect the DB-9 data cable to the PLI/C2PC computer and the rear of speaker box.





Cont..... Directions for ROA PLI collector set-up
with COC/TOC speaker box

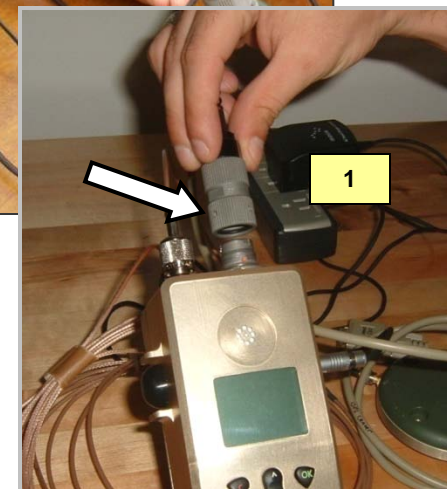
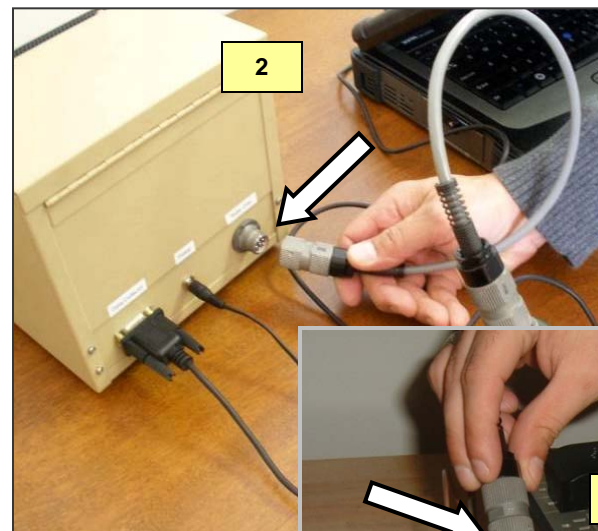
2. Connect the accompanying AC 24V power supply to the COC/TOC speaker box.





Cont..... Directions for ROA PLI collector set-up
with COC/TOC speaker box

3. Connect the 6-pin cable to the ROA then to the rear of the COC/TOC speaker box





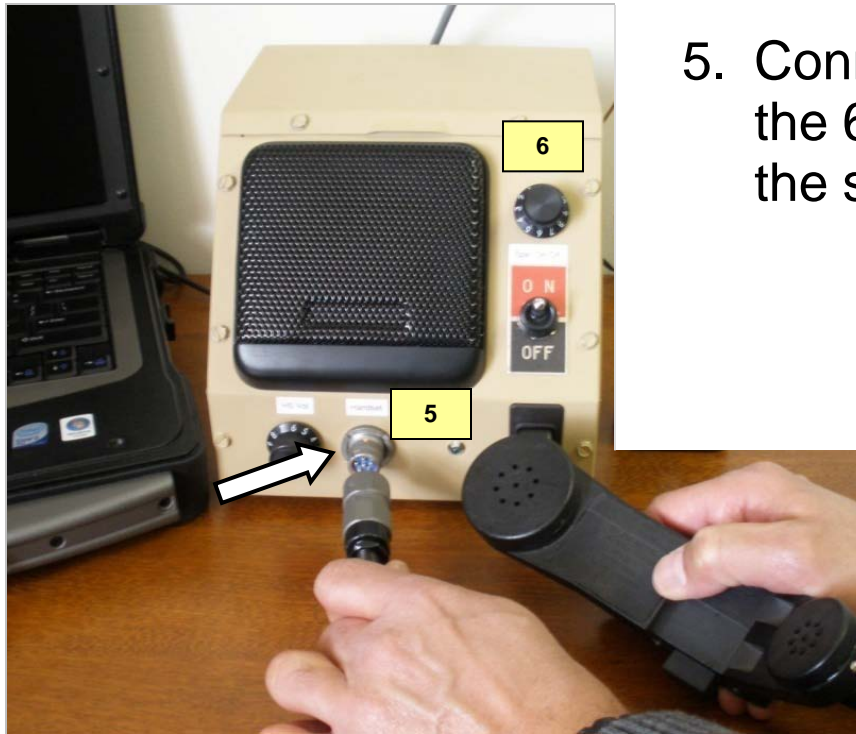
*Cont..... Directions for ROA PLI collector set-up
with COC/TOC speaker box*



4. Connect the antenna to the TNC connector on the ROA.



Cont..... Directions for ROA PLI collector set-up
with COC/TOC speaker box



5. Connect the handset/headset to the 6-pin connector on the front of the speaker box.
6. Once the COC/TOC speaker box is turned on, adjust the Speaker Volume Knob to the desired volume level.



Cont..... Directions for ROA PLI collector set-up
with COC/TOC speaker box



Complete ROA PLI Collector
with Voice Capabilities



ROA PLI Translator Software Set-up

1. Turn on the collector laptop.
2. Ensure the antenna cable and the audio cable are properly connected.



Ensuring Correct COM Port

When the RO and the C2PC Laptop are connected, you must ensure that the DB-9/USB data cable connection is set to the proper COM port. If not, the radio and the computer will not be able to communicate with one another.

If you are not sure what COM port the radio is on, you can find out by utilizing the Windows “Device Manager” located in the “My Computer” properties application, and expanding the COM port icon. (see example slides 16-19)



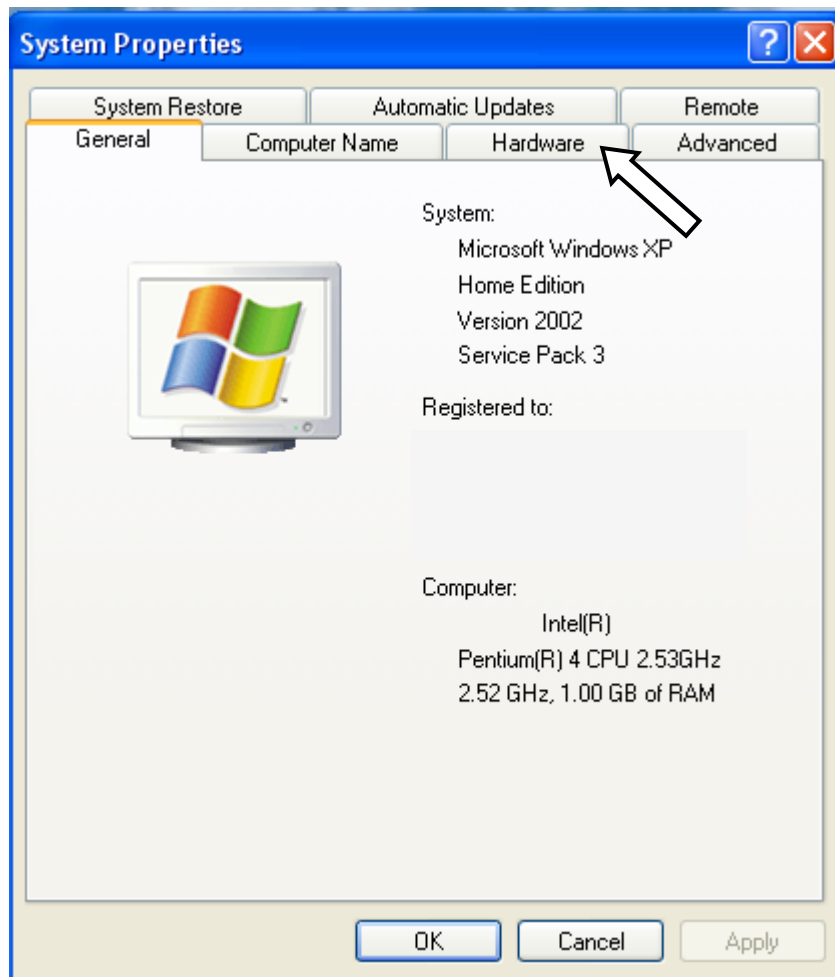
Cont..... Ensuring Correct COM Port

The screenshot shows a Windows XP desktop with several icons: 'My Documents', 'weds 1.2.1', 'My Computer', 'My Network Places', and 'Recycle Bin'. The 'My Computer' icon is highlighted with a red rectangular box. A context menu is open over this icon, listing various actions. The 'Properties' option at the bottom of the menu is highlighted with a red rectangular box, and a white arrow points to it from the right.

1. Power-on the radio and the C2PC Laptop.
2. From the C2PC Laptop, right click on the My Computer icon.
3. Click on **Properties**.



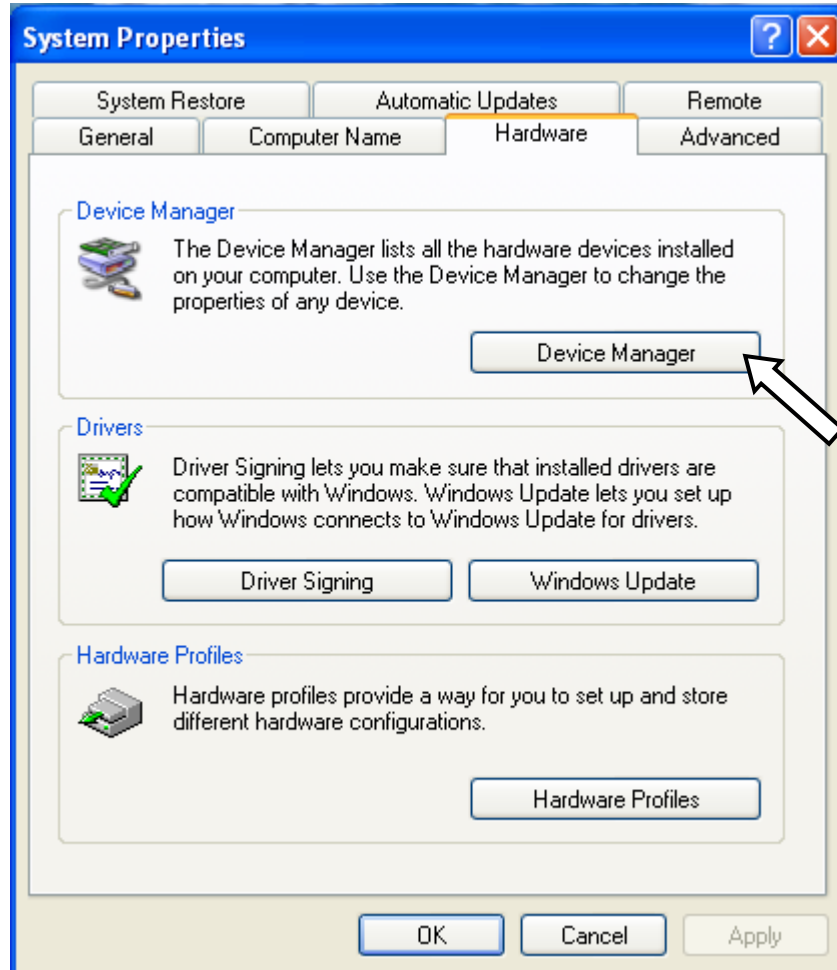
Cont..... Ensuring Correct COM Port



4. Click on the
“Hardware” Tab.



Cont..... Ensuring Correct COM Port



5. Click on the “Device Manager” button.



Cont..... Ensuring Correct COM Port

6. Expand the Ports (COM & LPT) icon. Note COM port 6 (COM6) is highlighted.

7. Close Device Manager Window and return to the desktop.



ROA PLI Translator Software Set-up



Enable DPL

- You must enable DPL on the ROA handset utilizing the HyperTerminal and typing the AT+P command in the run box.
- While in the HyperTerminal you will need to select the correct COM port.
- Once again, if you are not sure what COM port the radio is on, you can find out by utilizing the Windows “Device Manager” located in the “My Computer” properties application (See slides 16-19).

The following slides (22-27) will provide the steps necessary in enabling DPL.



Recycle Bin



NexGen
AutoDialer



NexGen
AutoDialer_...



C2CE



Internet
Explorer



Trans.dat



Auto Dailer
Step By ...



DTCS DV Brief
(19 May 08...



RO.ht



DTCS Trailer
Brief.ppt



NI_Scripts



Z14 Tech Brief
- DTCS v2.ppt



DTCS JCTD
Demo (1...



CWID DEMO
DTCS



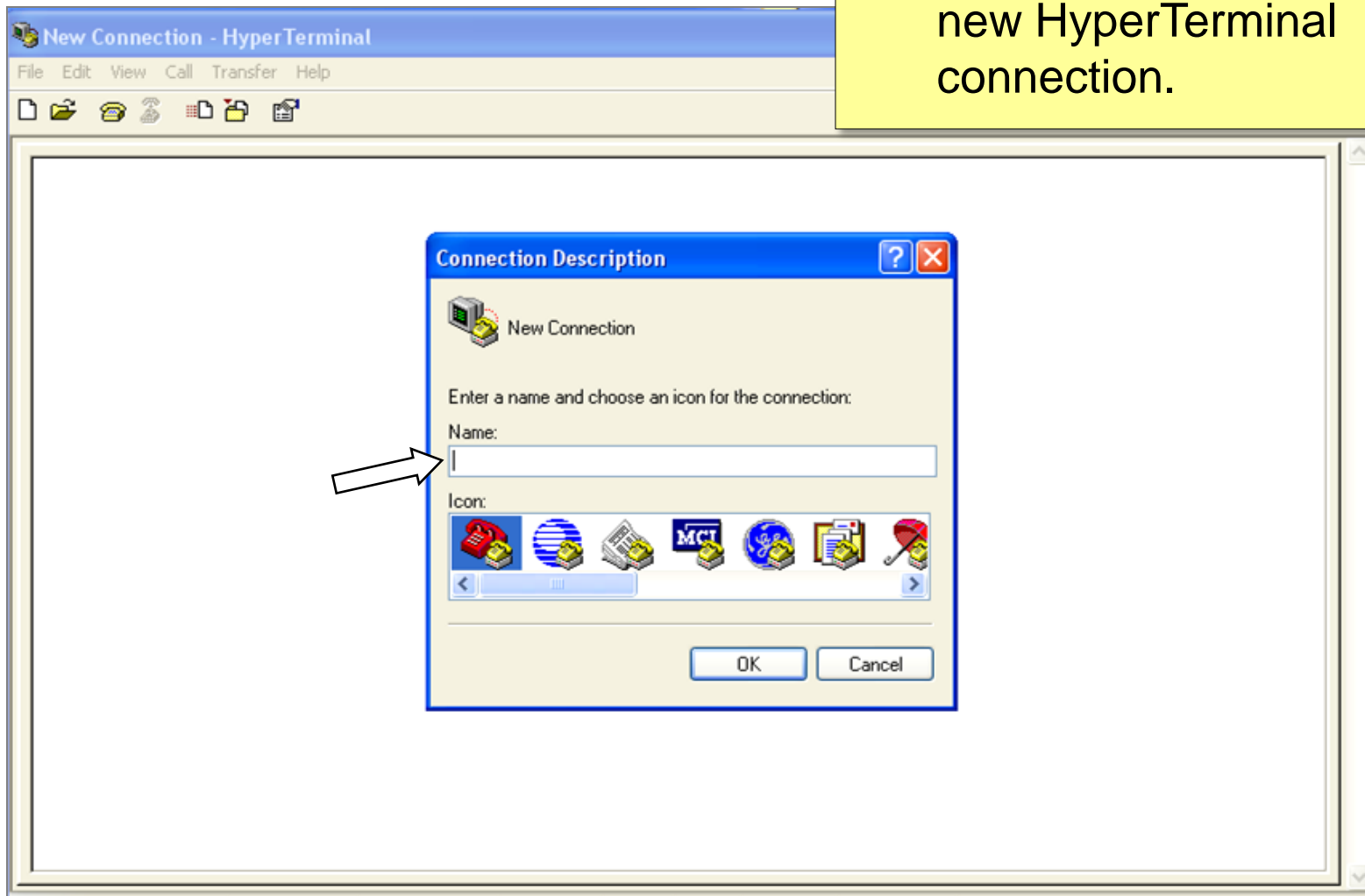
PACOM

① Double click the
HyperTerminal icon.

Ensure Radio is **Not**
turned on!



2 Enter a name for your new HyperTerminal connection.





Yuma1 - HyperTerminal

File Edit View Call Transfer Help

Connect To

Yuma1

Enter details for the phone number that you

Country/region: United States (1)

Area code: 540

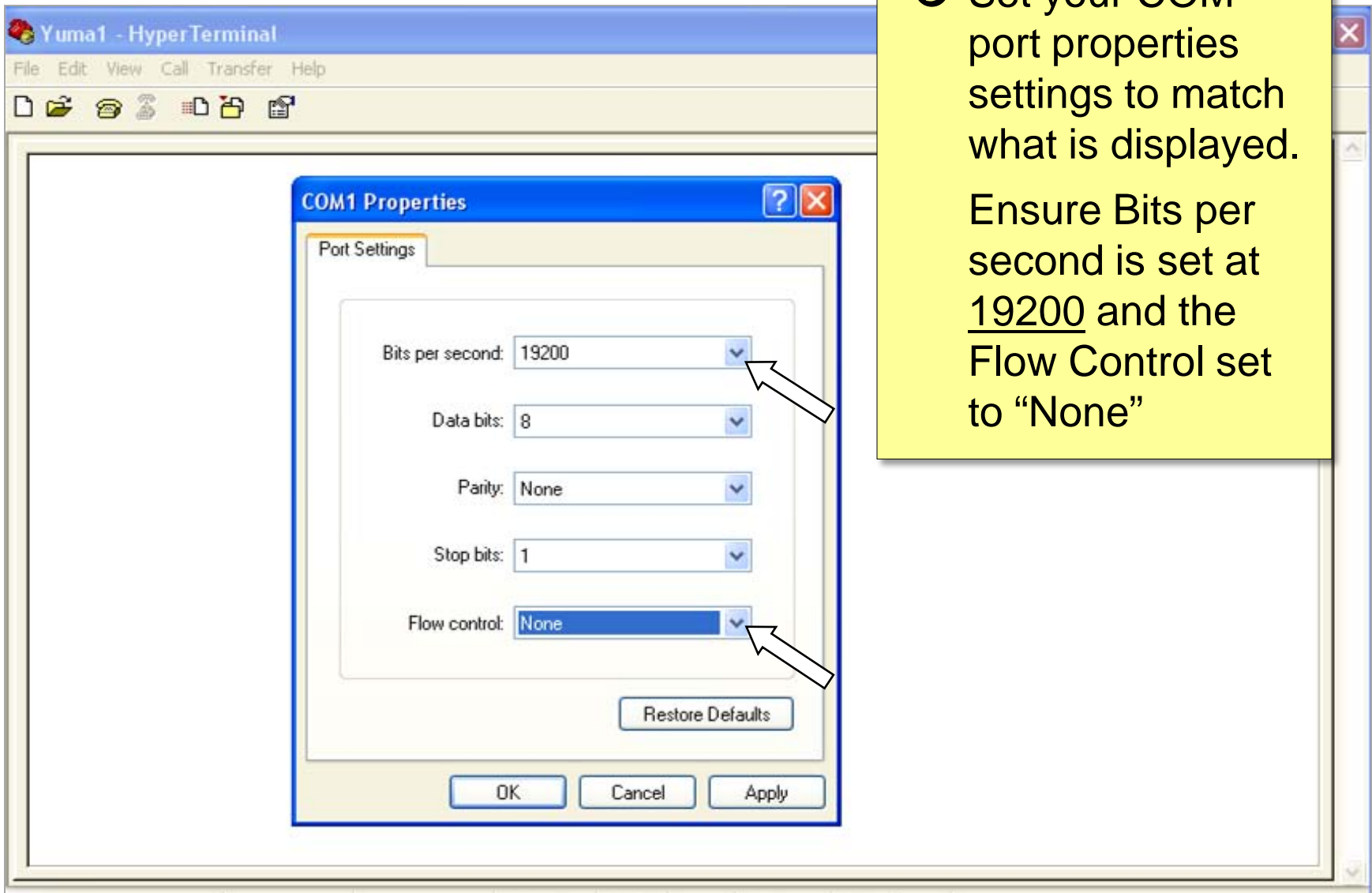
Phone number:

Connect using: COM1

OK Cancel

3 Click on the pull down menu to select the appropriate COM port that your radio is connected to.

4 Turn on the collector radio. Do not enter the default pin for the radio. The radio firmware will enter the user pin automatically. Simply turn the radio on.



5 Set your COM port properties settings to match what is displayed. Ensure Bits per second is set at 19200 and the Flow Control set to "None"

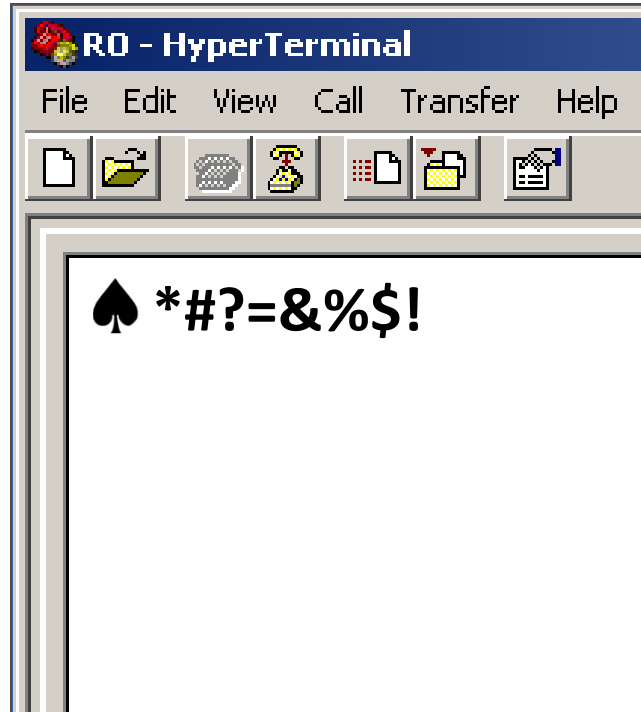


RD - HyperTerminal

File Edit View Call Transfer Help

at+p

⑥ Type **at+p**
Then press enter to
enable DPL on the ROA
handset.



Immediately after pressing the enter key, a string of special characters will be displayed. Note, special characters may not be the same as pictured on this slide.

⑦ Close out of the HyperTerminal.

Upon closing the HyperTerminal, Windows will prompt you twice with a:

1. Warning that you are disconnecting.
Click Yes.
2. Question asking if you want to save.
Click No.

Congrats! You are done enabling the DPL function.
On next to the Data Manager.



Data Manager (DM)

1. On the C2PC laptop, double click on the Data manger folder



Open Data Manager (DM) Config File

The screenshot shows a Windows Explorer window titled "Data Manager 17.4". The address bar displays the path: C:\Documents and Settings\Administrator\Desktop\DTCS Programs\Data Manager 17.4. The window contains a list of files and folders:

- Data Manager Logs (Folder)
- ChatPC (ChatPC)
- Data Manager Version Chart (XLS File, 44 KB)
- DTCS Chat Version Chart (XLS File, 21 KB)
- LockLog (Text Document, 0 KB)
- SIUSBxp.dll (3.1.0.0 SIUSBxp)
- BCTSummary (Text Document, 0 KB)
- Data Manager (1010 0011)
- DMConfig (Text Document, 1 KB) - **Highlighted with a red box and an arrow from the callout box.**
- JSON Translator
- PowerLog (Text Document, 0 KB)

On the left side, there are sections for "File and Folder Tasks" (Rename, Move, Copy, Publish, E-mail, Print, Delete) and "Other Places" (DTCS Programs, My Documents, Shared Documents, My Computer, My Network Places). A "Details" section is also visible at the bottom left.

2. Open the DMConfig Text file



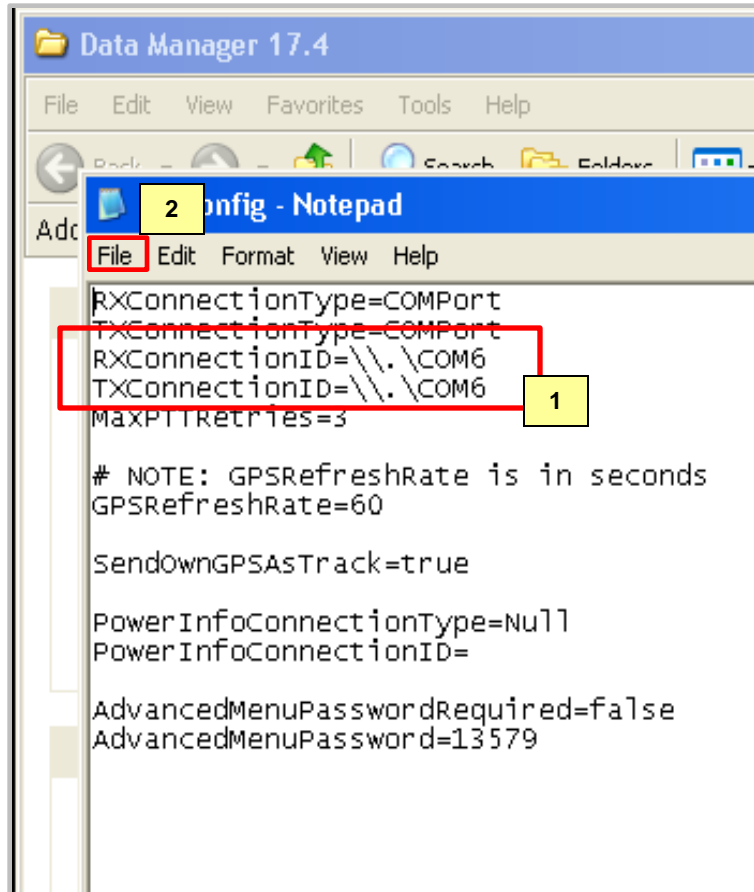
Cont..... Open DMConfig File

3. Ensure the bottom 2 lines of text is displaying the correct COM port.

If the COM port that the radio is on is not displayed or is incorrect, follow the instructions on the next slide to edit the text in the DMConfig file.



Cont..... Open DMConfig File



4. Steps to edit incorrect display of COM ports:

- 1 Position your mouse cursor where you can delete the incorrect COM port number and type in the correct number for both lines. “no spaces”.
- 2 Click on “File” from the standard tool bar, and select “Save” from the menu.
- 3 Close the DMConfig file.



Enabling the Data Manager (DM) Application Tool

The screenshot shows a Windows Explorer window titled "Data Manager 17.4" with the address bar set to "C:\Documents and Settings\Administrator\Desktop\DTCS Programs\Data Manager 17.4". The left sidebar shows "File and Folder Tasks" and "Other Places". The main area displays several files and folders, including "Data Manager Logs", "ChatPC", "Data Manager Version Chart", "DTCS Chat Version Chart", "LockLog", and "SIUSBxp.dll". The "Data Manager" icon, featuring red binary code, is highlighted with a red box. An arrow points from a callout box to this icon.

1. From the DM folder, double click on the DM Tool icon



Cont..... Enabling the DM Tool

2. DM Tool is displayed.

3. Green radio icon represents the radio on and connected.

4. Once your primary/secondary nets are displayed. You are ready to open C2PC.

5. Click on the minimize button to minimize the DM window. Do Not click on the close button.



Cont..... Enable PLI

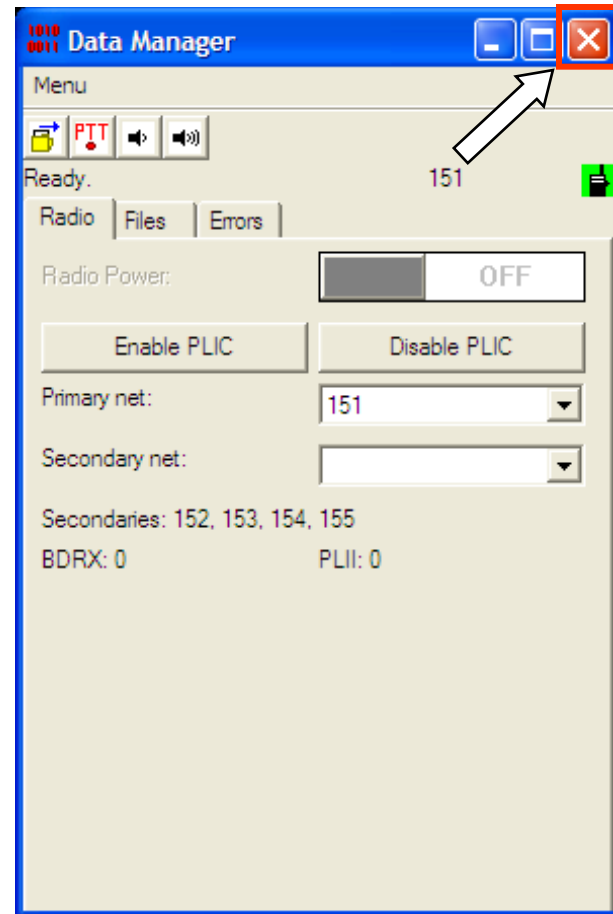
7. Immediately upon clicking the “Enable PLIC” button on the DM, the ROA collector radio will display the following:
 1. User Pin Prompt (radio software automatically enters pin)
 2. “GROUP XXX NI Ready”.





Disabling PLI

6. If you need to shut down the collector, or to refresh the nets after a change, click on the close button.





ROA C2PC Operations for COC/TOC



1. Double click on C2PC client icon on the desktop.

C2PC Client

The screenshot shows a Windows XP desktop environment. On the left side, there is a vertical column of icons including 'My Documents', 'My Computer', 'My Network Places', 'Recycle Bin', 'C2PC & Maps', 'C2CE', 'LaunchPLI', and 'Simple Network Tester'. To the right of these are several folders and application icons: 'weds 1.2.1', 'Internet Explorer', 'Bridgeport_...', 'CCleaner', 'flashing', 'EMP_PERF_...', 'EMP PERF REV - 2007 - Jo...', and 'Steps for Radio Revisionsi...'. A dark blue rectangular box with white text is positioned in the center-left, containing the instruction '1. Double click on C2PC client icon on the desktop.'. A white arrow originates from the right side of this box and points to a specific icon on the desktop labeled 'C2PC Client', which features a globe graphic.



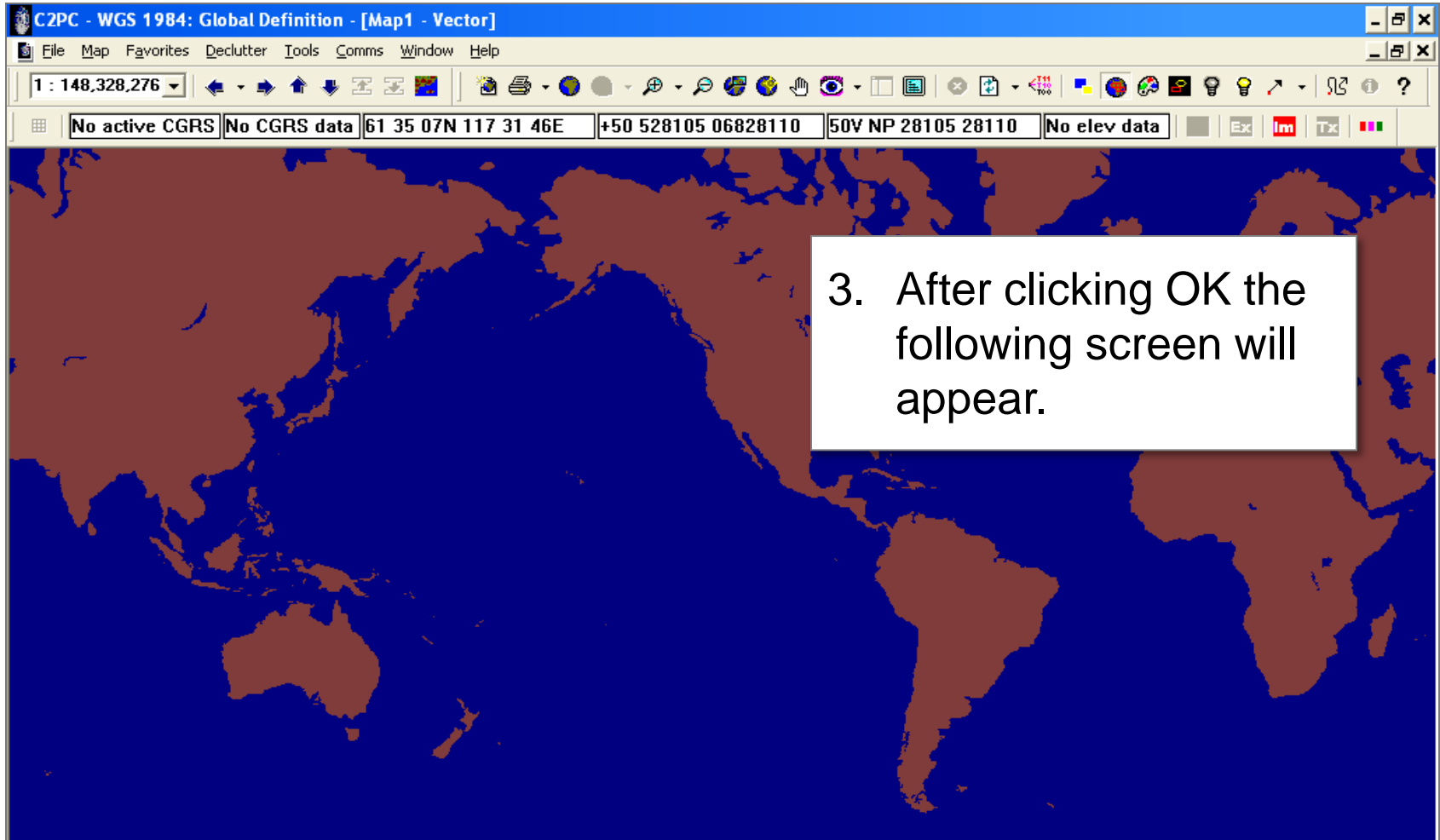
2. Under Role Name, DEFAULT should be highlighted. Click OK.

C2PC Role-Based Logon

Available Roles:

Role Name	URN	Command Profile
DEFAULT	1	Default
MCST	1	Default

Create Role...
Edit Role...
Delete Role...
OK
Cancel





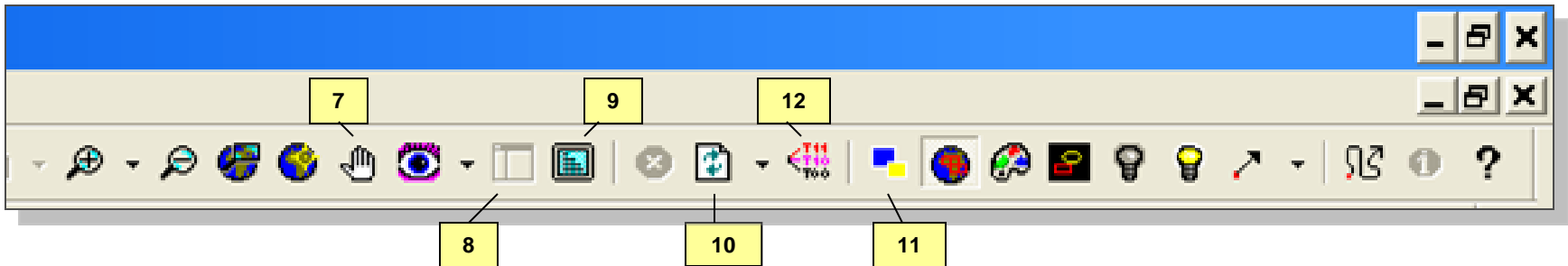
Map Features



1. **New Map**- Opens up a new map. Old map reduces but stays open.
2. **World Icon**- Zooms out to world view.
3. **Zoom in**- Magnifies map view
4. **Zoom out**- Reduces map view
5. **Zoom Box**- Selects specific box to zoom in on
6. **Re-center**- centers map on selected location or trackplot



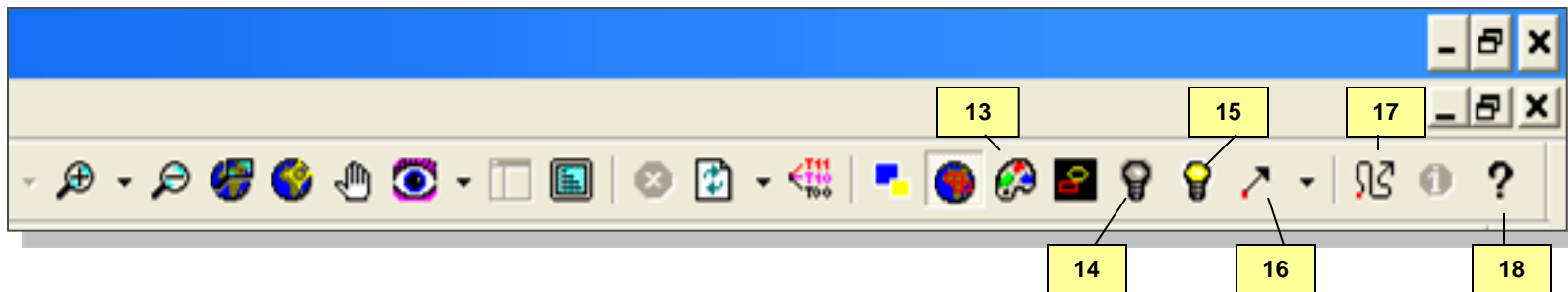
Cont..... Map Features



7. **Map Pan Tool**- manually slide map
8. **Toggle injector pane**- Opens/ closes left side bar
9. **Toggle Full Screen**- Full screen map
10. **Refresh Map**- Updates map
11. **Auto Declutter**- Separates trackplots when there are many in one area and draws lines to each
12. **Manual Declutter**- Manually slide trackplots



Cont..... Map Features



13. **Map Colors**- Adjust map colors

14. **Contrast**- Self explanatory.

15. **Brightness**- Self explanatory.

16. **Range bearing**- Distance “as the crow flies”, or point to point.

17. **Fluid range bearing**- Can follow roads, mountains, etc

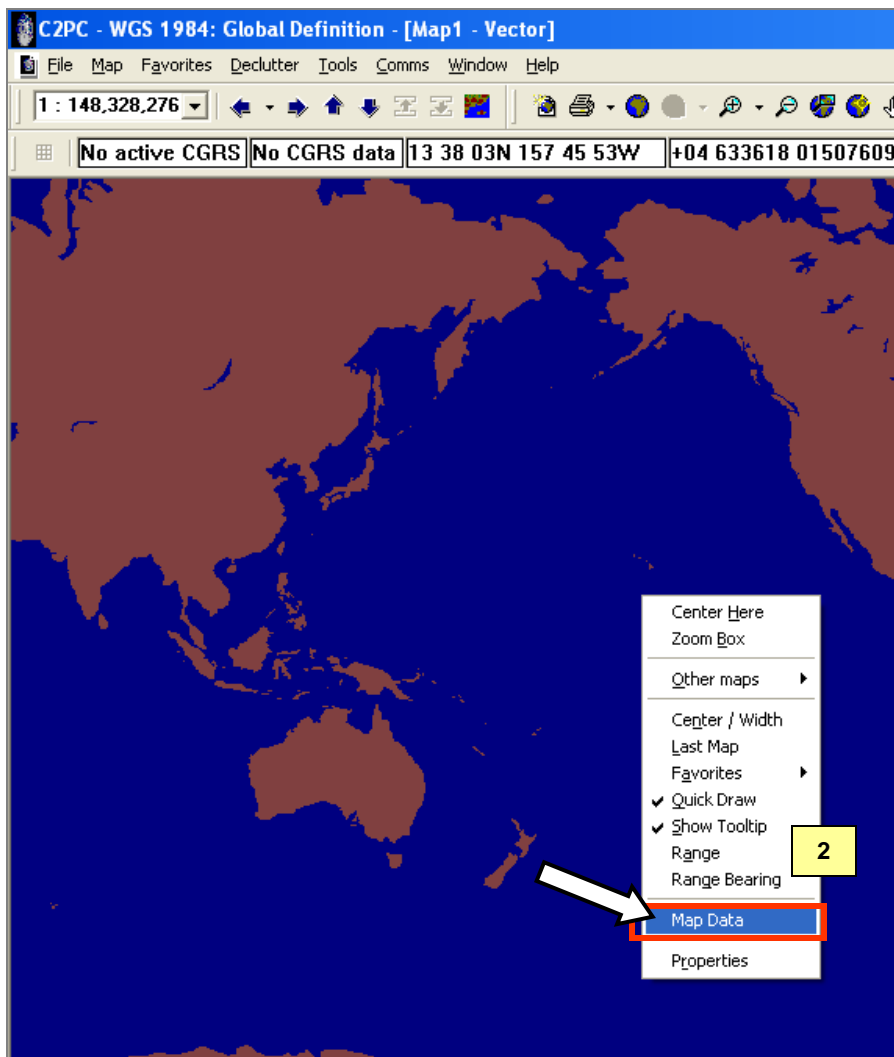
18. **Help**- Self explanatory.



How to Load a Map



Cont..... Loading Maps

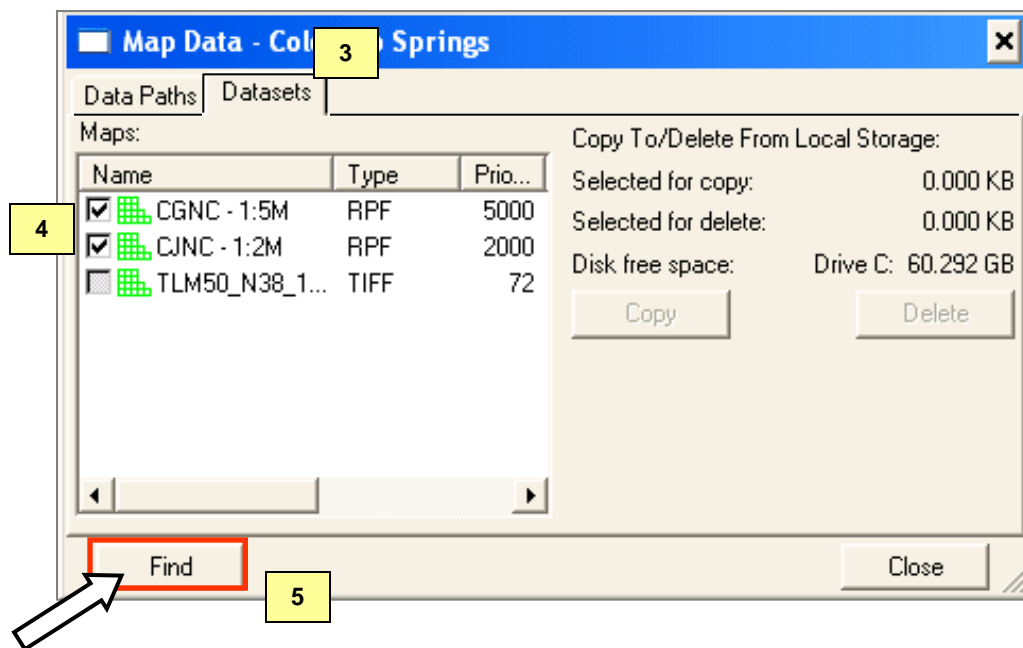


1. To load map(s), right mouse click anywhere on the map area.
2. Select Map Data from the menu.

Note, if there is a map already displayed that you do not wish to use, click on "File" from the standard tool bar and select "New Map".



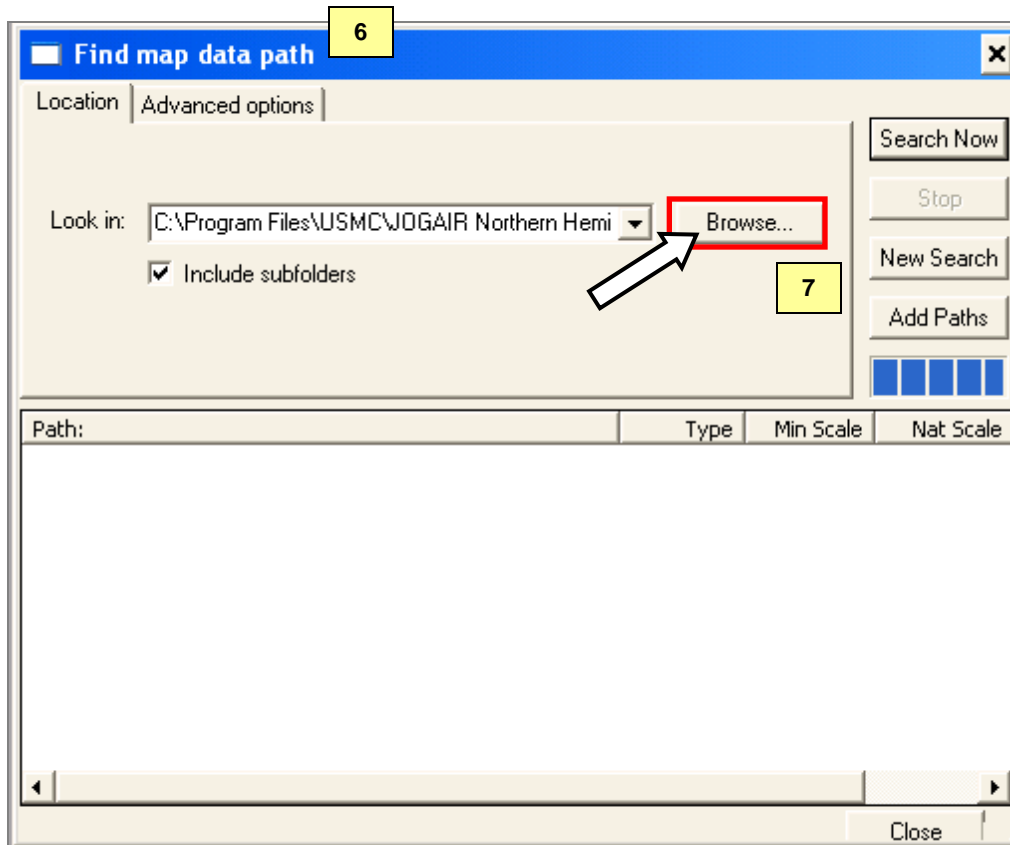
Cont..... Loading Maps



3. Select the Datasets tab from the Map Data window.
4. Scroll down the list of maps currently loaded into C2PC. Place a check by the map(s) you want to select.
5. If you wish to load a new map(s) from a disk or drive, click on the “Find” button on the bottom left-hand corner of the Map Data window.



Cont..... Loading Maps



6. The “Find map data path” window will appear.

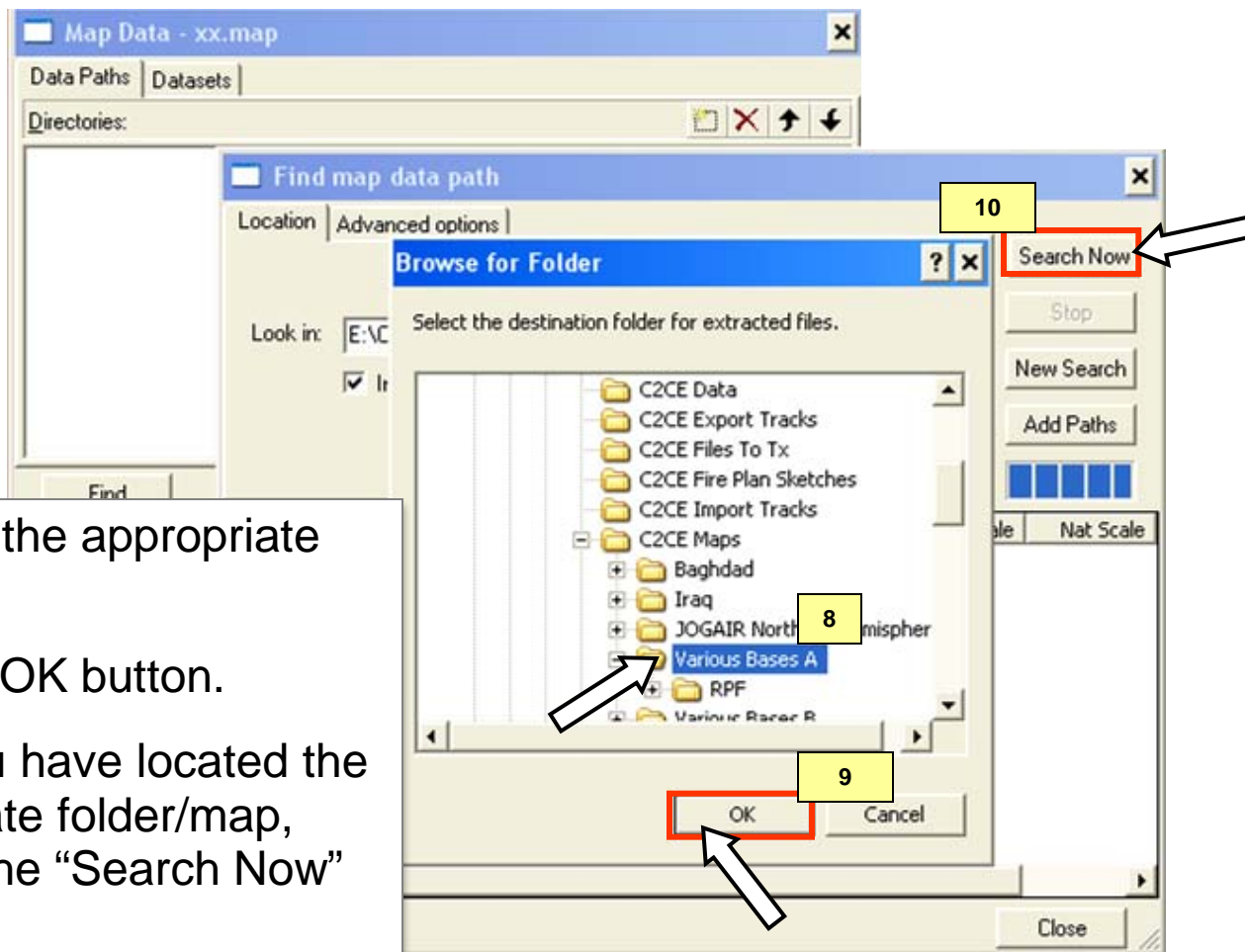
7. Click on the “Browse...” button to select a folder/map located in the directory.

C2PC recognizes the following map types:

- Topographic Line Map (TLM)
- TIFF and GEO TIFF
- JOG AIR
- RASTER
- Digital Terrain Elevation Data (DTED)



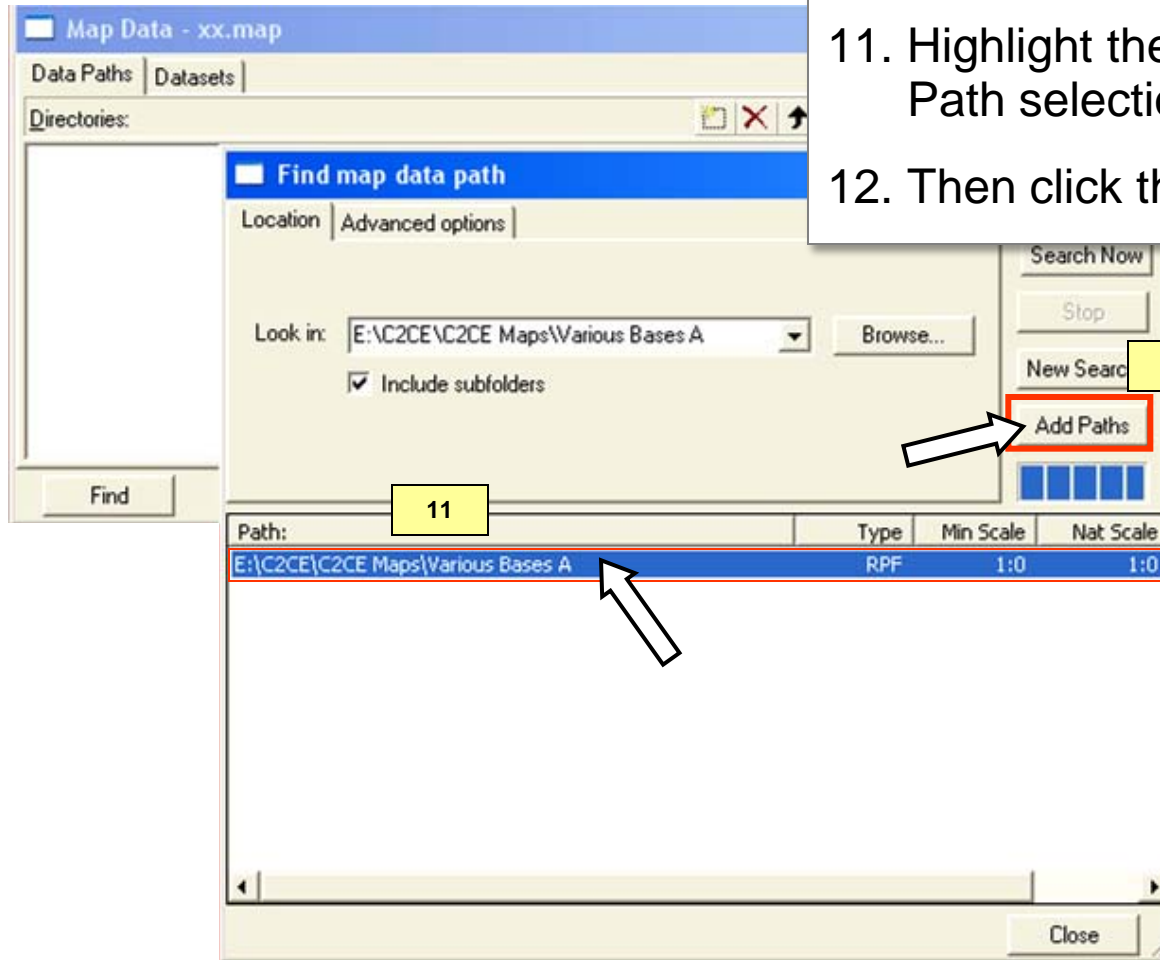
Cont..... Loading Maps



8. Highlight the appropriate map.
9. Click the OK button.
10. Once you have located the appropriate folder/map, click on the “Search Now” button.

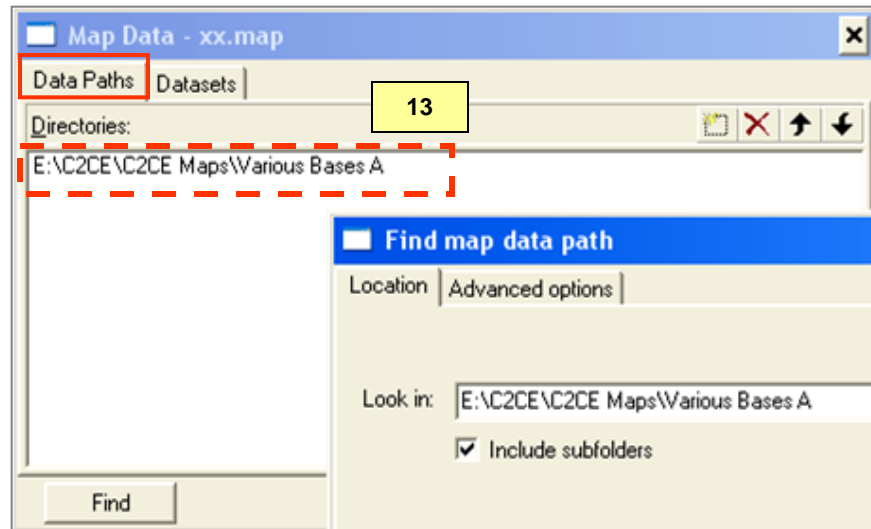


Cont..... Loading Maps



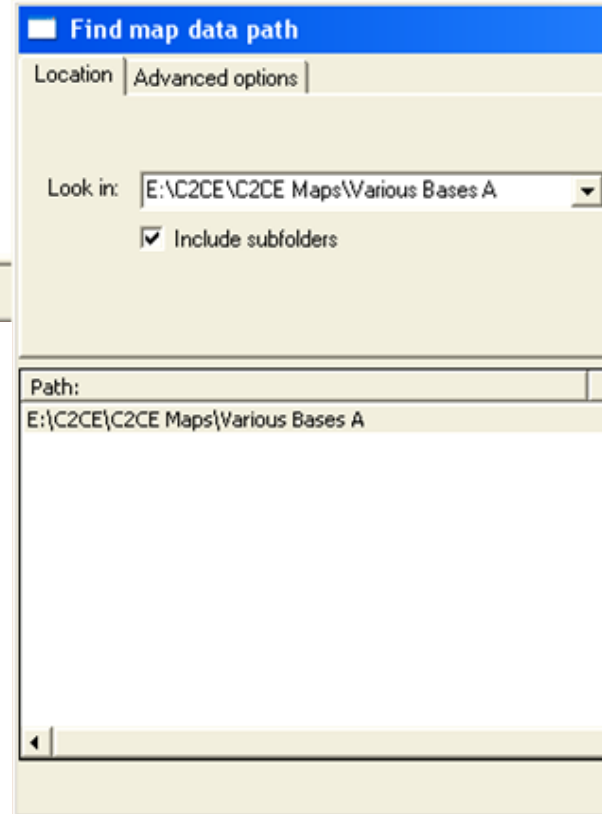


Cont..... Loading Maps



13. Note the map/file is now displayed in the MapData window, under “Data Paths” tab, in the Directories: list box.

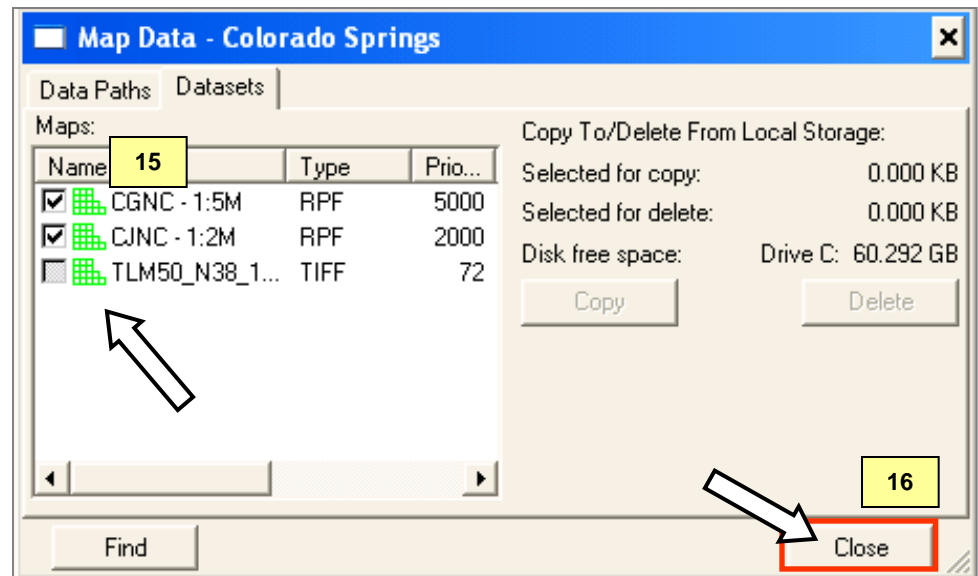
14. Click on the Close button located on the lower right corner of the Find map data path window.





Cont..... Loading Maps

15. Under Datasets tab, click inside the check boxes, next to all the new maps that have been uploaded.
16. Click the close button to return to the map.



*Cont..... Loading Maps*

17. Zoom into a general area of the map that you wish to be displayed by clicking the "Zoom Box" icon.

18. Use your mouse to drag and outline the area.



Cont..... Loading Maps

C2PC - WGS 1984: Global Definition - [Map1 - Vector]

File Edit View Insert Formations Map Favorites Declutter Tools Comms Window Help

1 : 574,498

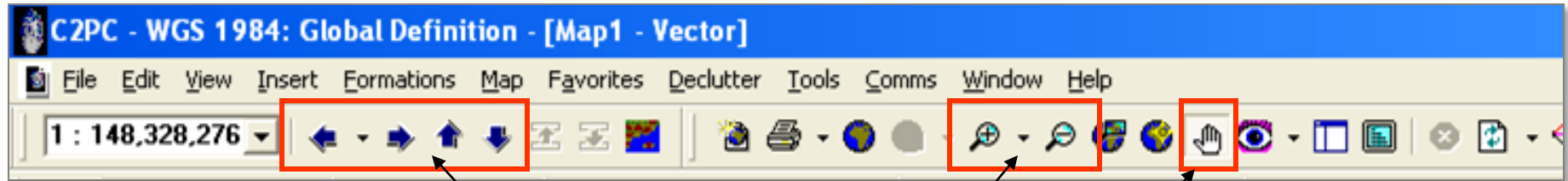
No active CGRS No CGRS data 38 48 28N 077 23 26W +18 292427 0429

19. Repeat step using your mouse cursor to zoom into the desired map. Maps will be represented by the red grid lines.

19



Cont..... Loading Maps



You may utilize any of the available tools to either move, zoom in/out, or pan to view the map area you would like to work with.



Cont..... Loading Maps

20. Click on the “Other Map” icon to view list of maps that were uploaded.

21. Click on a map you wish to be displayed. Example, CMM – 1;50000

22. Working map is displayed.



Cont..... Loading Maps

The screenshot shows a software window titled "C2PC - WGS 1984: Global Definition - [Map1 - CMM - 1:25K]". The interface includes a menu bar (File, Edit, View, Insert, Formations, Map, Favorites, Declutter, Tools, Comms, Window, Help), a toolbar with various navigation and map tools, and a status bar. A dropdown menu is open, showing options: "Vector", "CMM - 1:50000", and "CMM - 1:25K" (which is selected). A yellow box labeled "23" is positioned next to the dropdown menu. Below the menu, a map is displayed with various geographical features and labels such as "EVOC", "Athletic field", "Sewage disposal", "189 Camp Upstn", "RESTRICTED AREA", "L7B", "L7B GATE", "L7A GATE", "L7 PHEASANT", "L7 VULTURE", and "L7 SHUR GATE". A yellow box labeled "24" is placed on the map area.

23. Example selecting a different map CMM – 1;25K.
24. Working map displayed.



How to Activate VMF Tool



Activating the Variable Message Format (VMF) Tool

The screenshot shows the C2PC software interface. The title bar reads "C2PC - WGS 1984: Global Definition - [Map1 - Vector]". The menu bar includes File, Map, Favorites, Declutter, Tools, Comms, Window, and Help. The Tools menu is open, displaying a list of options: Planning, TbmD, Formations, Link16, TrackPlot, Routes, Overlays, DSTB, VMF, GPS Receiver..., Crossfix..., Sites..., Transmit File, Quick Range/Bearing, Quick Point, Laser Range Finder, Injector Manager..., Command Profile..., Range, Range Bearing, Set Time, Clock, Datum Conversion, Bearing Convert, ACO Decoder, and Options... The VMF option is highlighted with a blue selection bar. A white arrow points to the VMF option, and a yellow box with the number "1" is positioned above it. A white text box on the right contains the instruction: "1. From the Tools menu, scroll down and click on VMF".

1. From the Tools menu, scroll down and click on VMF



Cont..... Activating the VMF Tool

The screenshot displays the C2PC software interface. The title bar reads "C2PC - WGS 1984: Global Definition - [Map1 - Vector]". The menu bar includes "File", "View", "VMF", "Map", "Favorites", "Declutter", "Tools", "Comms", "Window", and "Help". The toolbar contains various navigation and tool icons. The status bar shows "1 : 148,328,276" and several data fields: "No active CGRS", "No CGRS data", "01 45 52S 105 31 46W", "-13 441117 09804969", "13M DU 41117 04969", and "No elev data". On the left side, there is a vertical toolbar with buttons for "Planning", "Formations", "TrackPlot", "Overlay", "DSTB", and "VMF". The "VMF" button is highlighted with a red rectangle and has a green checkmark next to it. A yellow box with the number "2" is placed over the "Overlay" button. A white text box with a black border is overlaid on the map area, containing the text "2. VMF tool is now activated." The main map area shows a world map with a blue background and brown landmasses.



Cont..... Activating the VMF Tool

C2PC - WGS 1984: Global Definition - [Map1 - Vector]

File View VMF Map Favorites Declutter Tools Comms Window Help

1 : 148,328,276

No active CGRS No CGRS data 01 45 52S 105 31 46W -13 441117 09804969 13M DU 41117 04969 No elev data

Planning Tcmd

Formations Link16

TrackPlot Routes

Overlays

3 VMF

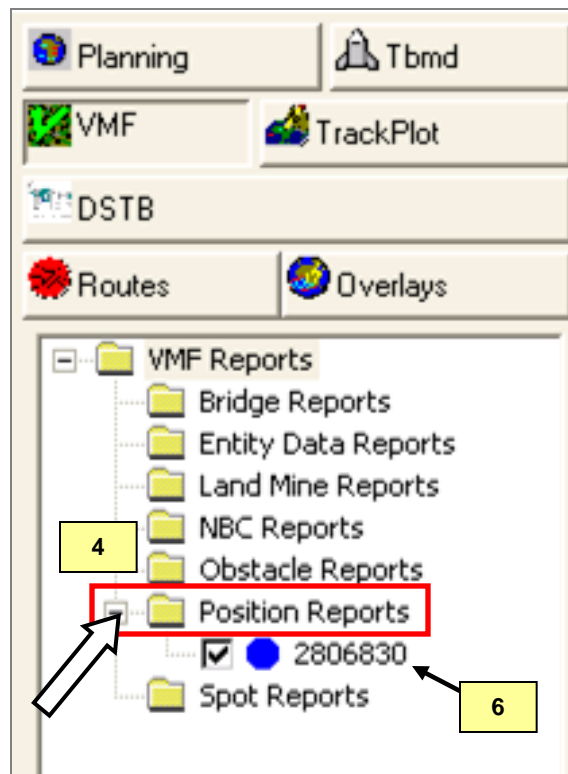
VMF Reports

3. Expand the VMF Reports folder

Note: VMF tool needs to be activated in order to view new /old PLI reports.



Cont..... Activating the VMF Tool



4. Expand the “Position Reports” subfolder.
5. Delete older reports that may be displayed. All PLI reports will be displayed by their International Mobile Equipment Identity (IMEI) number.
6. As new PLI reports are received, the Position Reports subfolder is where they will appear.



How to Activate Track Plot Tool



Cont..... How to Activate Track Plot Tool

The screenshot shows the C2PC software interface. The title bar reads "C2PC - WGS 1984: Global Definition - [Map1 - Vector]". The menu bar includes File, View, VMF, Map, Favorites, Declutter, Tools, Comms, Window, and Help. The Tools menu is open, and the "TrackPlot" option is highlighted with a red box and a white arrow. A yellow box with the number "1" is placed over the Tools menu button. The interface also shows a toolbar with various navigation and tool icons, a status bar with coordinates and data, and a main map area displaying a world map.

1. From the Tools menu, scroll down and click on TrackPlot.

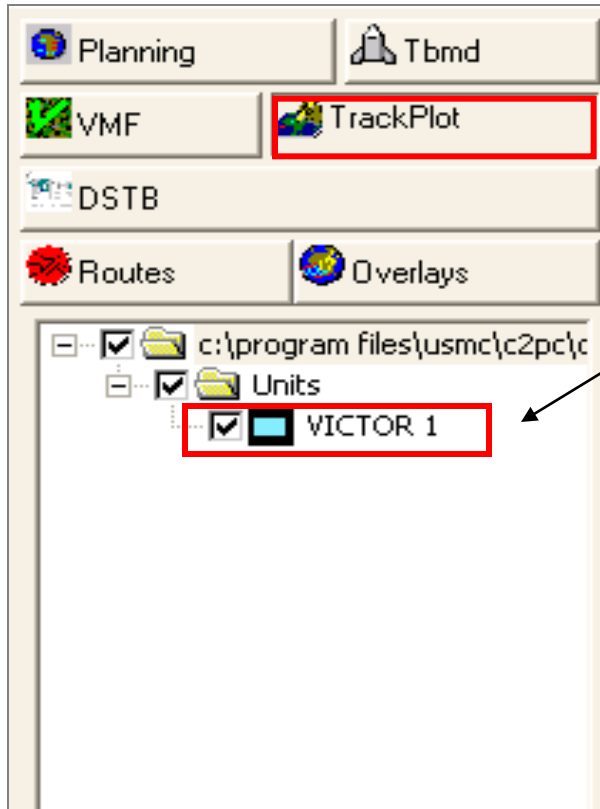


Cont..... How to Activate Track Plot Tool

The screenshot displays the C2PC software interface. The title bar reads "C2PC - WGS 1984: Global Definition - [Map1 - Vector]". The menu bar includes File, Edit, View, Insert, Database, TrackPlot, Map, Favorites, Declutter, Tools, Comms, Window, and Help. The status bar shows coordinates: 1 : 148,328,276, 23 19 39N 146 07 04E, +55 409792 02580045, 55Q DF 09792 80045, and No elev data. The left sidebar contains several tool buttons: Planning, Formations (with a yellow box containing the number '2'), TrackPlot (highlighted with a red box), Routes, Overlays, DSTB, and VMF. Below these is a file explorer showing the path e:\program files\usmc\c2\Units, with sub-items LU00228 and LU00231. The main map area shows a world map with two units: LU00228 (represented by a blue square) and LU00231 (represented by a yellow hexagon with a question mark). A white text box with a black border is overlaid on the map, containing the text "2. TrackPlot tool is now activated."



Cont..... How to Activate Track Plot Tool



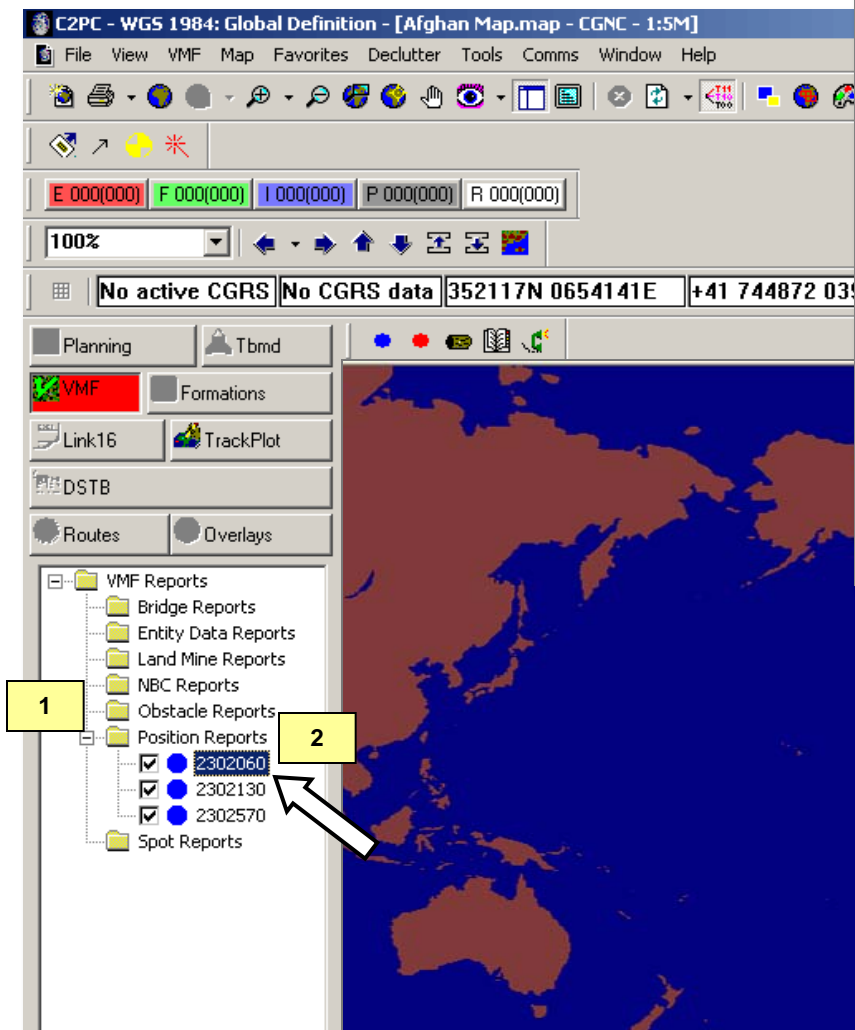
3. You may re-name a track at anytime by right mouse clicking on the track and selecting properties.
4. Older tracks displayed under the Units folder should be deleted when you first start C2PC.
5. Tracks that are located in either VMF and TrackPlot can be right mouse clicked and “Center On” from the right click windows menu, or the Recenter icon located in the C2PC tool bar. This will allow you to quickly locate a particular track on the map.



How to Create a Track



Cont..... How to Create a Track



1. In the VMF tool directory, expand the “Position Report” folder.
2. Right click on a International Mobile Equipment Identity (IMEI) number located under the folder, or the actual blue force PLI report icon displayed on the map.
3. Select “Create Track”



Cont..... How to Create a Track

The screenshot shows the C2PC software interface. The title bar reads "C2PC - WGS 1984: Global Definition - [Afghan Map.map - CGNC - 1:5M]". The menu bar includes File, View, VMF, Map, Favorites, Declutter, Tools, Comms, Window, and Help. The toolbar contains various navigation and tool icons. Below the toolbar are coordinate fields for Easting (E 000(000)), Northing (N 000(000)), UTM Zone (U 000(000)), Easting (E 000(000)), and Northing (N 000(000)). A zoom level of 100% is displayed. The status bar shows "No active CGRS", "No CGRS data", and coordinates "352117N 0654141E" with a scale of "+41 74487".

The left sidebar contains several panels: "VMF" (checked), "Formations", "Link16", "TrackPlot", "DSTB", "Routes", and "Overlays". Below these is a tree view for "VMF Reports" with sub-folders: "Bridge Reports", "Entity Data Reports", "Land Mine Reports", "NBC Reports", "Obstacle Reports", "Position Reports", and "Spot Reports". Under "Position Reports", three items are checked: "2302060", "2302130", and "2302570".

The main map area shows a map of Afghanistan with several blue rectangular markers labeled "LU00228", "2302060", "LU00231", and "2302130". A yellow question mark icon is also present on the map.

A "Track Type?" dialog box is overlaid on the map. It has a title bar "Track Type?" and a "Select Track" label. A yellow box with the number "5" is next to the "Select Track" label. Below this is a dropdown menu currently showing "Unit". A white arrow points to the "Unit" option in the dropdown. Below the dropdown are "OK" and "Cancel" buttons.

4. The "Track Type?" window will be displayed.
5. Click on the "Select Track" pull down for the type of track you want to display on the map. For training purposes, select Unit.
6. Click "OK".



Cont..... How to Create a Track

The screenshot displays the DTCS software interface. The main window title is "C2PC - WGS 1984: Global Definition - [Afghan Map.map - CGNC - 1:5M]". The interface includes a menu bar (File, View, VMF, Map, Favorites, Declutter, Tools, Comms, Window, Help) and a toolbar with various icons. Below the toolbar are coordinate fields (E 000(000), F 000(000), I 000(000), P 000(000), R 000(000)) and a zoom level of 100%. The status bar shows "No active CGRS", "No CGRS data", and coordinates "352117N 0654141E", "+41 744872 03915706", and "41S QV 448".

The left sidebar contains a tree view of reports: VMF Reports, Bridge Reports, Entity Data Reports, Land Mine Reports, NBC Reports, Obstacle Reports, Position Reports, and Spot Reports. The "Position Reports" folder is expanded, showing a list of reports with checkboxes and blue circular icons. The reports listed are 2302060, 2302130, and 2302570.

The "Add Unit Track" dialog box is open, showing the "Attributes" tab. The "Name" field is highlighted with a yellow box containing the number "7". The "Name" field contains the text "UNKNOWN". Other fields in the dialog include "Short Name", "Alert" (set to NONE), "Category", "Threat", "Flag", "OTG Type" (set to REAL-WORLD), "UIC", "Embarked", "Orig XRef", "Org Type", "Echelon", "Service", "Platform", "BE Number", "OSuffix", and "URN" (set to 2302060). The dialog has "OK", "Cancel", and "Apply" buttons at the bottom.

The “Add Unit Track” window will be displayed.

By default the Attributes tab will be displayed first.

7. In the “Name” text box, insert a name for the track you wish to monitor, and other attributes for ease of identification.



Cont..... How to Create a Track

8. Click on the “Mil Symbol” tab
9. Click on the “Affiliation” pull down to select track affiliation with your unit. Example , Friend, Hostile, Neutral, etc.
10. Select the “Size” of unit.
11. Select “Function ID” Example, Infantry, Aviation, Combat Support, etc.

The image displays three sequential screenshots of a software interface for creating a track, with numbered callouts (8, 9, 10, 11) indicating the steps:

- Step 8:** The 'Mil Symbol' tab is selected in the 'Attributes' section of the 'Add Unit Track' dialog.
- Step 9:** The 'Affiliation' dropdown menu is open, showing options like PENDING, UNKNOWN, ASSUMED FRIEND, FRIEND, NEUTRAL, SUSPECT, HOSTILE, JOKER, FAKER, EXERCISE PENDING, and EXERCISE UNKNOWN. 'ASSUMED FRIEND' is selected.
- Step 10:** The 'Size' dropdown menu is open, showing options like TEAM/CREW, SQUAD, SECTION, PLATOON/DETACH, COMPANY/BATTALION, BATTALION/SQUAD, REGIMENT/GROUP, BRIGADE, DIVISION, CORP/MEF, and ARMY. 'PLATOON/DETACH' is selected.
- Step 11:** The 'Function Id' dropdown menu is open, showing options like ANTI ARMOR, AVIATION, INFANTRY, ENGINEER, FIELD ARTILLERY, RECONNAISSANCE, MISSILE (SURF-SURF), INTERNAL SECURITY FORCE, COMBAT SUPPORT, COMBAT SERVICE SUPPORT, and SPECIAL C2 HEADQUARTERS. 'INFANTRY' is selected.



Cont..... How to Create a Track

12. You may click on the “Last Report” tab to view PLI report information, DTG and current grid location.

13. Click “OK.”

The screenshot displays the DTCS software interface. The main window title is "C2PC - WGS 1984: Global Definition - [Afghan Map.map - CGNC - 1:5M]". The interface includes a menu bar (File, View, VMF, Map, Favorites, Declutter, Tools, Comms, Window, Help) and a toolbar with various navigation and tool icons. Below the toolbar are coordinate fields: E 000(000), F 000(000), I 000(000), P 000(000), R 000(000), a zoom level of 100%, and a status bar with coordinates: No active CGRS, No CGRS data, 352117N 065414E, +41 744872 03915706, 41S QV 44872 15706, No elev data, Ex, Im, Tx.

The "Add Unit Track" dialog box is open, showing the "Last Report" tab. The fields are as follows:

- DTG: 132351:07Z AUG 09
- Timelate: (empty)
- Position: 42S WD 23379 67124
- Course: 000 T
- Speed: 0.0 KPH
- Alt / Depth: (empty)
- Sensor: (dropdown menu)
- Source: (dropdown menu)
- XRef: (empty)
- Radio buttons: Ellipse, Bearing Box, Line of Bearing
- Bearing: (input field)
- Smjr: (input field)
- Smnr: (input field)

A yellow box with the number "13" is positioned over the "OK" button. The background map shows a red crosshair over the location 2302060.



Note the IMEI that was listed in the VMF position reports folder is not displayed.

14. Your newly created track is now displayed on the map.

C2PC - WGS 1984: Global Definition - [Afghan Map.map - CGNC - 1:5M]

File View VMF Map Favorites Declutter Tools Comms Window Help

E 000(000) F 000(000) I 000(000) P 000(000) R 000(000)

100%

No active CGRS No CGRS data 354158N 0704320E +42 655826 03951980 42S XE 55826 51980 No elev data Ex Im Tx

Planning Tbrnd

VMF Formations

Link16 TrackPlot

DSTB

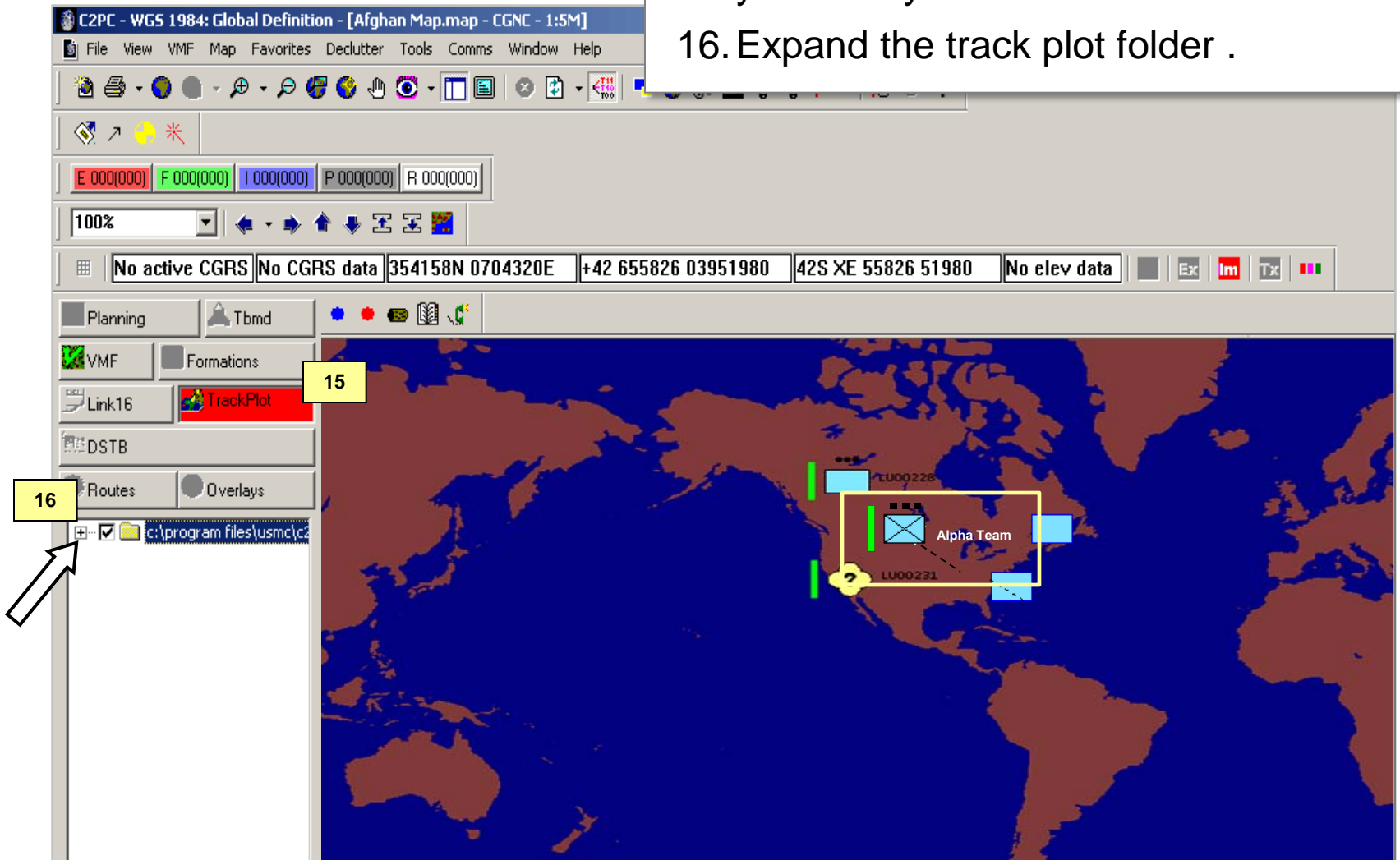
Routes Overlays

- VMF Reports
 - Bridge Reports
 - Entity Data Reports
 - Land Mine Reports
 - NBC Reports
 - Obstacle Reports
 - Position Reports
 - 2302130
 - 2302570
 - Spot Reports



15. Click on TrackPlot tool button to view your newly created track.

16. Expand the track plot folder .





17. Expand the Units folder to view your new track.

Note, you can right mouse click the track and click properties to change track attributes at any given time.

The screenshot displays the C2PC software interface. The title bar reads "C2PC - WGS 1984: Global Definition - [Afghan Map.map - CGNC - 1:5M]". The menu bar includes File, View, VMF, Map, Favorites, Declutter, Tools, Comms, Window, and Help. The toolbar contains various icons for navigation and map manipulation. Below the toolbar are coordinate fields for Easting (E 000(000)), Northing (N 000(000)), UTM (U 000(000)), Easting (E 000(000)), and Northing (N 000(000)). A zoom level of 100% is shown. The status bar displays "No active CGRS", "No CGRS data", "354158N 0704320E", "+42 655826 03951980", "42S XE 55826 51980", and "No elev data".

The left sidebar shows a tree view of the software's structure. The "Units" folder is expanded, and the "ALPHA TEAM" unit is visible. A yellow callout box with the number "17" points to the "Units" folder. A white arrow points to the "Units" folder in the tree view.

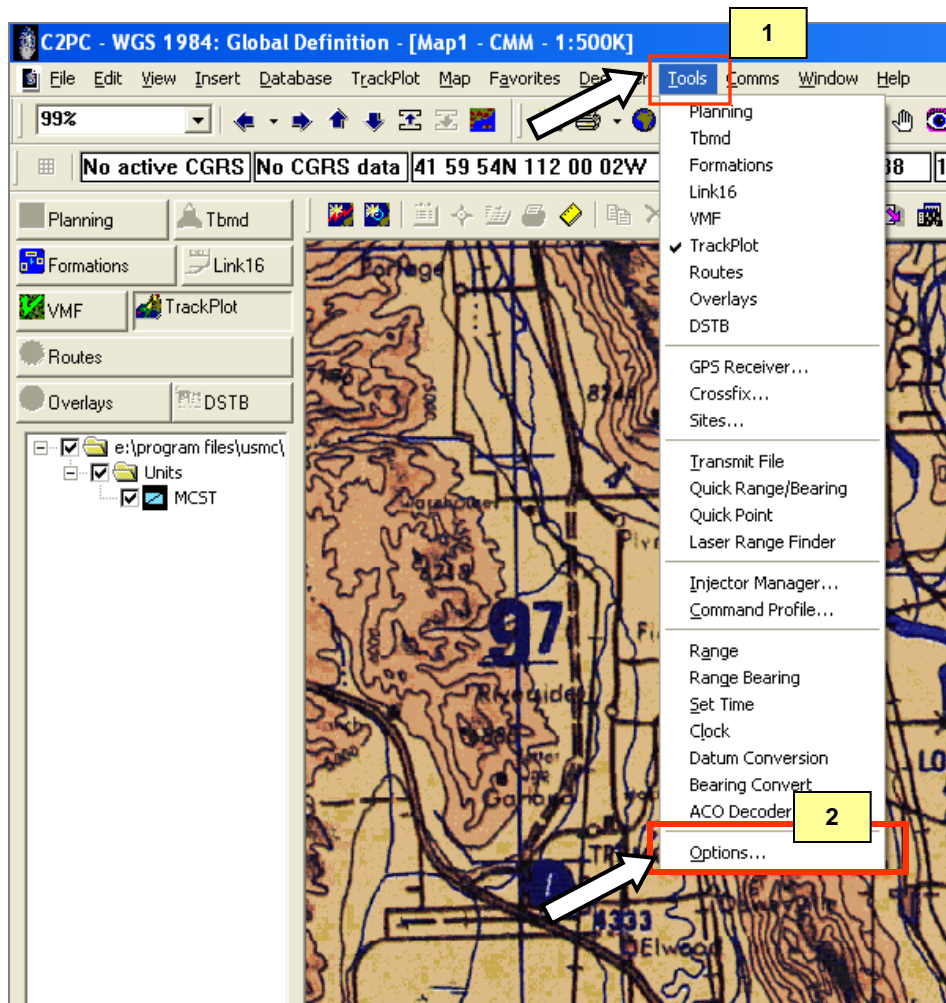
The main map area shows a world map with a track plot. A yellow circle is located on the map, and a blue box labeled "Alpha Team" is positioned near it. The map also shows other units like "LU00228" and "LU00231".



Map Extras



Map Extras



C2PC allows the end user to configure how they may want C2PC to display PLI reporting information. For example, position, distance, speed, DTG, and altitude.

You may change the settings from metric to standard, kilometers to miles, meters to feet.

1. Select “Tools” from the menu.
2. On the bottom of the drop down menu is “options”.

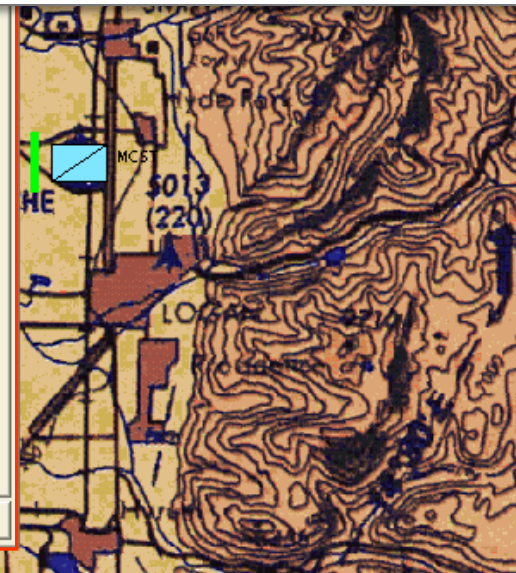
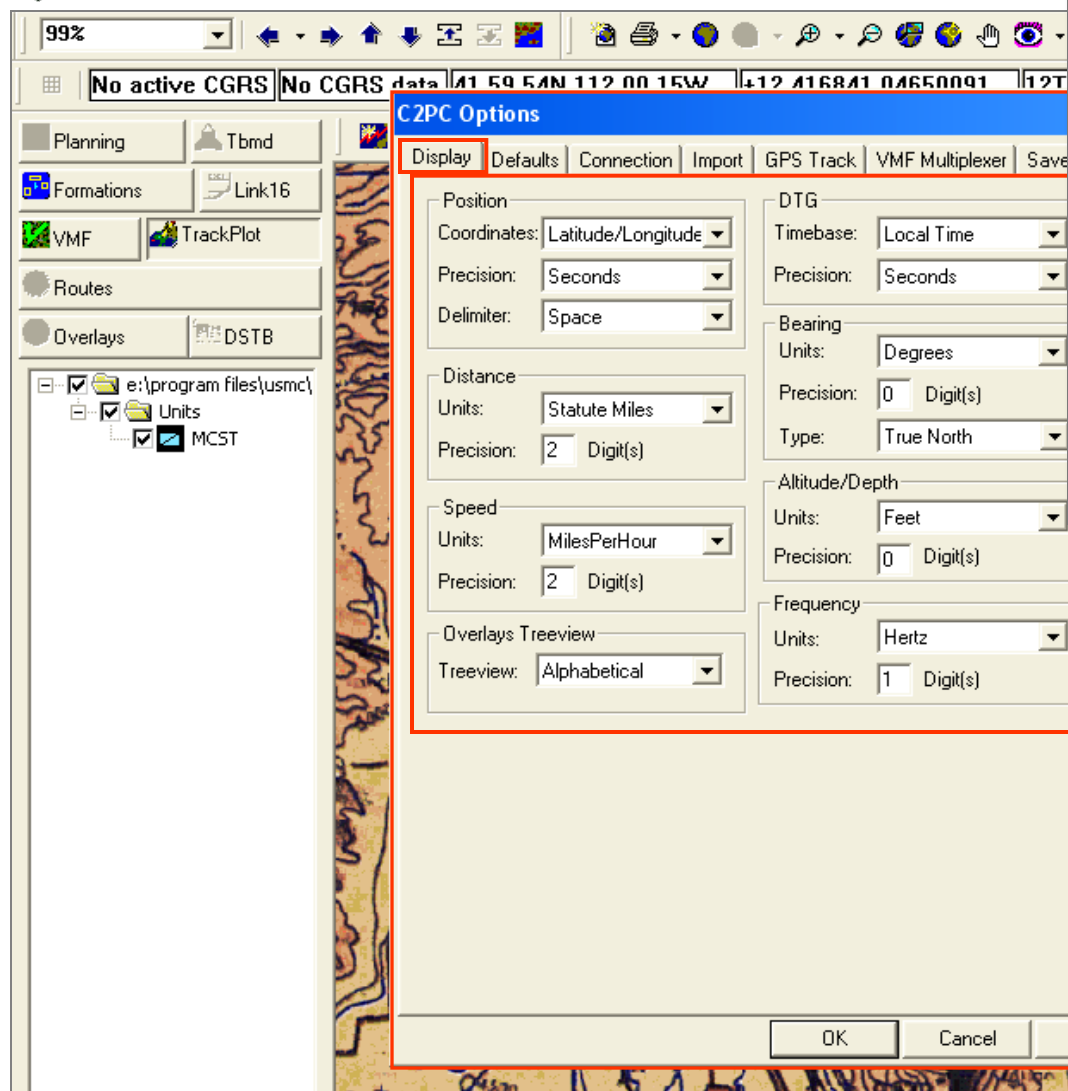


Cont..... Map Extras

The “Display” tab will be shown by default.

Adjust display options by clicking the series of pull-downs.

Click Apply, then OK to accept the changes..





Questions?



In this module we have covered:

- DTCS ROA Collector Basics
- ROA PLI Collector Set-up with Voice Capabilities
- ROA PLI Collector Translator Software Set-up
- C2PC / DTCS Operations for COC/TOC

