



TACTICAL MISSION COMMAND

COMMAND POST OF THE FUTURE BC 13 User Pocket Guide

Product Manager (PdM TMC)

MSV 56





REMEMBER!

If your network is down, CPOF cannot connect to the server!*
If your network is slow, CPOF will run in a degraded mode.

* See 'Disconnected Operations' on page 20 for using CPOF offline.

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Saving your work.

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CPOF Communications Voice/Ventrilo

**Start CPOF
Voice:**

Right-click the **Netmon Star**,
select **Start**, and select **Voice**.

OR

Click **Start** → **All
Programs** → **Ventrilo** →
Ventrilo.



**Select a User and
Connect**



**Want
to
Talk?**



**Join a
Channel**

You are automatic-
ally put in the
"Lobby Ar-
ea".

Double-click
another
channel to
enter.



**Can't
Hear?**

Check
your
Windows
Volume
settings.

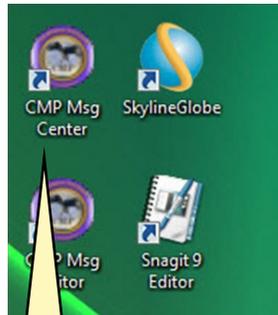
Press the **F3** key and speak into the microphone on the headset. Careful! Everyone on the channel can hear you!

CPOF Communications

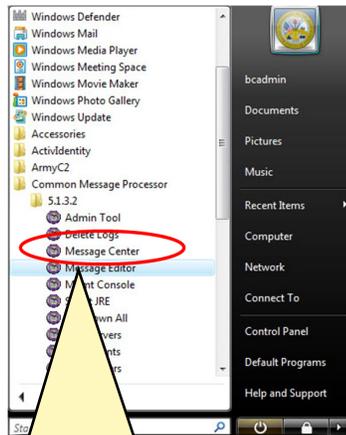
CMP - Common Message Processor

The Common Message Processor (CMP) is a generic military message processor for tactical systems that can prepare, receive, analyze, and validate military standard (MIL-STD) message baselines in either text-based or binary format.

To start CMP:



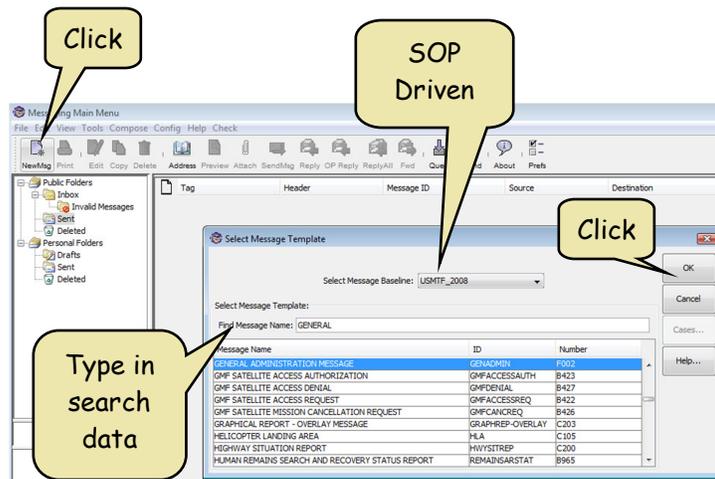
Click the icon on the Windows Desktop



Click Start > All Programs > Common Message Processor > 5.1.3.0 > Message Center

or

CPOF Communications CMP - Transmit a Msg



- 1) Click the NewMsg icon
- 2) Check the SOP for the proper Message Baseline
- 3) Select a Msg format, fill in the information & Validate
- 4) Add an address
- 5) Click Send

CPOF Communications CMP - Receive a Msg

The screenshot displays the Messaging Main Menu interface. The menu bar includes File, Edit, View, Tools, Compose, Config, Help, and Check. The toolbar contains icons for NewMsg, Print, Edit, Copy, Delete, Address, Preview, Attach, SendMsg, Reply, OP Reply, ReplyAll, and Fwd. The left pane shows a folder tree with Public Folders, Invalid Messages, Deleted, Personal Folders, and Deleted. The main pane shows a list of messages with columns for Re..., Tag, Header, and P. The first message is highlighted in blue. Below the list is a table for Recipient and Operator Ack. The bottom pane shows a User View with fields for TO, CC, and FROM, followed by a separator line and message details like DTG, PRECEDENCE, and CLASSIFICATION.

Received Messages

Click

Highlight a Message

| Re... | Tag | Header | P |
|-------------------------------|-----|--------|---|
| GENADMIN07150210Z_MAR_2011 | VMF | GENAD | |
| SPRT.DAACAT07151739Z_MAR_2... | VMF | SPRT.I | |
| AFU.FUS07152851Z_MAR_2011 | VMF | AFU.FU | |

| Recipient | Operator Ack |
|-----------------------------|--------------|
| OCPOFDBRG-TC4-MAIN-3CPS1... | |

| Precedence | Counters(3) |
|------------|-------------|
| Routine | 2 |
| Priority | 1 |
| Immediate | 0 |
| Flash | 0 |
| Ecp | 0 |

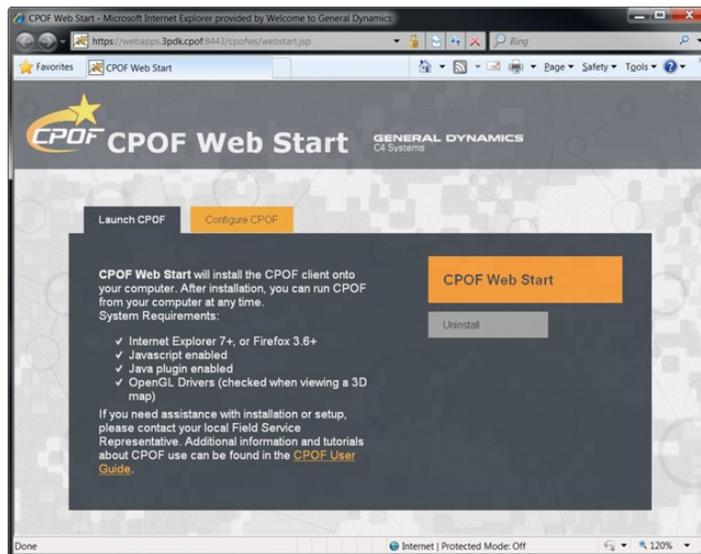
User View
TO : [1866056]
CC : []
FROM : 1866056

DTG : 071502Z MAR 2011
PRECEDENCE : ROUTINE
CLASSIFICATION : UNCLASSIFIED

- 1) View for unread messages
- 2) Highlight a message
- 3) Click Preview or double-click the message

Rich Web Application CPOF Web Start

Allows you too access repository data and collaborate with other users by downloading your client from a web link. Get the URL from the Helpdesk.



- Open a new web browser
- Enter the URL
- Click CPOF Web Start
- Follow the instructions

Rich Web Application CPOF Web Start cont.

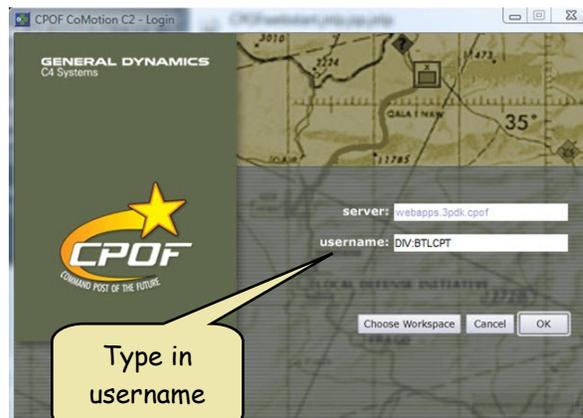


Image Pasteboard
Image/Overlay Table
Events Table
SIGACTS
Event Chart
Task Org Chart
Task Assistant
Fires
Air Frame
Logistics Frames
TAIS Air
Charts

Automation Unavailable

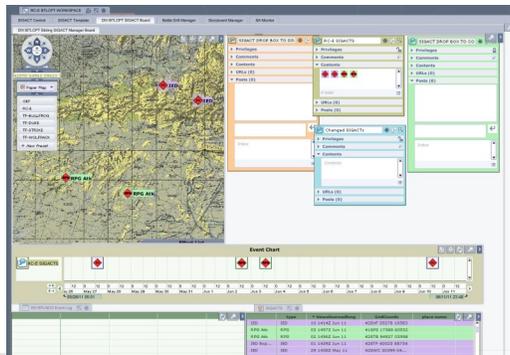
Automation
not available

- Type in username
- Normal CPOF operations minus the CPOF Automation
- Able to create multiple workspaces

Workspace Basics Orientation

Workspace Orientation: You can configure your workspace however you like! Below is just a recommendation. Think about how you want your workspace to look. Do you like Charts? Tables? Maps? It's all the same data, so configure it the way that's best for you!

Note: Your local SOP may dictate that certain Workstations be configured a specific way.



Sample Workspace Configuration

Spread the Workspace over two or three monitors



Workspace Basics

Essential Components

You must have a Frame Dispenser and a Trash Can, and you must know where your Ventrilo "Window" is. If you can't find your Frame Dispenser or Trash Can, right-click your blue CPOF Desktop and choose what you need.

The image shows a screenshot of the Ventrilo workspace interface. On the left, a vertical menu lists various components: Notification Console, Item Palette, Frame Dispenser, Library, Stickie, Tool Bar, Trash Can, Tree Viewer, Stats, About, and Help. Below this menu, a 'General Frames' window is open, displaying a list of frames: Pasteboard, Map, 3D Map, Schedule, Table, Tree Viewer, Stickie, Library, Spreadsheet, and Help. Two red circles highlight the 'Frame Dispenser' in the top menu and the 'Pasteboard' in the 'General Frames' list. Four yellow callout boxes provide additional information:

- Right-click → Choose **Frame Dispenser** or **Trash Can**.
- Library - Contains templates you can customize and works like a Frame Dispenser.
- Almost everything you need in CPOF comes from the Frame Dispenser.
- Use Pasteboards to hold multiple items in a single project.

Workspace Basics Mirrors and Trash

Mirror in CPOF:
Most CPOF objects can be duplicated (mirrored) in the CPOF Workspace. When you Mirror, you create another instance of the same data. Any manipulation of the original affects all instances.



When the original changes...
So do all mirrors!



Ctrl Ctrl-drag to mirror

To mirror data is also a Collaboration function. By sharing a Mirror with another user, you can update or analyze the same data in real-time.

To Produce a mirror, Ctrl-drag a frame, box, Ink stroke, etc., from one location on the Workspace to another. You should always Ctrl-drag rather than straight-drag to mirror so you don't mistakenly remove work products from a particular location.

Trash - All CPOF elements have a 'Trash' icon. Click the Trash icon to throw things away. There is also a Trash icon on the CPOF Desktop - simply drag items to the Trash icon to dispose of the items. Need to Retrieve Trash? Double-click the Desktop Trash icon to see everything in the trash. Drag an item from the Trash Table to the CPOF Desktop to restore it.



Workspace Basics

Useful Workspace Actions

Move: To Move an item, click and drag it to the desired location!

Clone: Shift-drag any frame to create a Clone of that frame. If you change the Content in either the original or the Clone, the Content will change in both, just like a Mirror. However, unlike a Mirror, you can change the Layout in one and the Layout in the other will not change.

Copy: If you want to take someone's work and use it to start your own project, make a Copy of it. Drag the **Copy Machine** from the Frame Dispenser then Ctrl-drag (mirror) any Frame or element into the Copy Machine and click **Make Copy**. Other than Real Units, your Copy will not be linked to the original in any way. If the Layout or the Content changes in either version, it will not affect the Layout or Content of the other version in any way.

| If I change the Layout / Content of one, does it affect the Layout / Content of the other? | | | |
|--|--------|---------|------------------|
| Action | Layout | Content | How to? |
| Move | - | - | Drag |
| Mirror | Y | Y | Ctrl-drag |
| Clone | N | Y | Shift-drag |
| Copy | N | N | Use Copy Machine |

CPOF Elements

Efforts, Resources, and GeoStickies

Effort

On a Map, Efforts act like overlays, displaying groups of specific items. Efforts are generic containers, intended to gather all the work products a user might need to work on a project or plan. They don't have a limit for the types of products they can contain. These efforts found in the Shared Products contain most all commonly used products like graphics, Events and SIGACTS.

Resource

Resources may be created and used by themselves or associated with a real or notional unit for planning and scheduling.

GeoStickie

Use a GeoStickie to quickly place a marker on the Map.

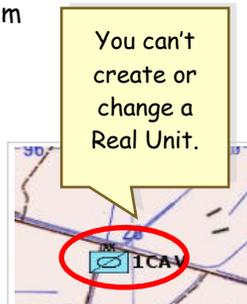
GeoStickie: Three ways to create:

1. Drag out from an Item Palette.
2. Enter coordinates in the Map Navigator Coordinate field.
3. Left click a location on your Map and press **Tab** → **Enter**.

CPOF Elements Units, Events, and SIGACTS

UNITS: There are two types of Units:

1. Live Feed/Real Units - come in from Mission Command feeds and can't be created or modified in CPOF.
2. Assertion (Notional) - these 'fake or user defined' Units can be created, changed, and used for many things, like planning a mission or showing headquarters locations, and can show task org./"children".



Create Notional Unit

Need to create a unit to plan a task or mission?



Drag a unit from the Item Palette. Change the Type, open the fields and fill in the data, place on map where you want it, and assign subordinate units as needed.



EVENTS: Events record what happened. They can be derived from spot reports, unit planning, etc.

SIGACTS: Events that meet CCIR and are promoted through the SIGACT Management Process.*

*Note: Your local SOP will dictate how SIGACTS are handled.

CPOF Elements Map Graphic

If you have a data set of grid coordinates (for example, from an MS Excel spreadsheet) that you want to turn into a graphic on a Map, you can use the Map Graphic item.



Item Palette

- Effort
- Event
- Unit - Friend
- Unit - Host
- Task
- Resource
- GeoStitch
- Map Graphic
- Spatial Filter

Drag out a Map Graphic from the Frame Dispenser.



Map Graphic

Privileges

- Owner (2)

Annotation

Map Graphic

Line and Fill Attributes

Line: UNKNOW

Friend: UNKNOW

Present: UNKNOW

Label:

Tools

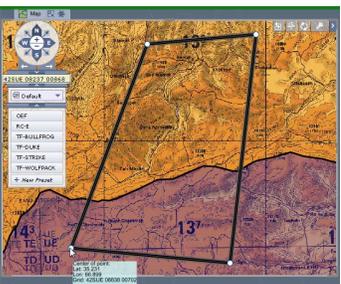
Additional Attributes

Coordinates

| Points (2 or more) |
|---------------------|
| 1 425UE 08838 00702 |
| 2 425UE 53544 95688 |
| 3 425UE 81827 93072 |
| 4 425UE 31369 57212 |
| 5 425UE 08838 00702 |

Buttons: Set, Cut, Copy, Paste

Enter the coordinates



Mirror the graphic onto a Map to check its coordinate position. You can edit the graphic's position manually by double-clicking and dragging in point edit mode or numerically by editing the grid coordinates in the graphic's box.

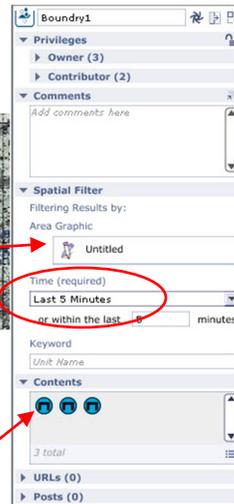
CPOF Elements Spatial Filter



The Spatial Filter is a filtering item available in the Item Palette that allows you to limit PLI display based on areas of interest, time last reported, and keywords.

In order to use Spatial Filters, you must be configured to receive PLI data.

Draw your boundary and mirror it to the Area Graphic field.



Either select or specify a time value in the Time region. The Contents region of the Spatial Filter populates with Units that have reported in the specified area within the specified time range.

CPOF Elements Tasks and Stickers

| | |
|----------|----------------|
| F | Fire |
| M | Maneuver |
| I | Intel |
| S | Support |
| E | Effect |
| D | Decisive Point |

TASK:

A Task contains the essential facts about a planned military operation: What it is, which Unit(s) will perform it, where, when, why, and how it will be performed.

Use the Schedule to set the time and duration of the Task and the Unit that will perform it.

| Task Status | |
|-------------|-----------|
| M | Planned |
| M | Requested |
| M | Executing |
| M | Done |
| M | Canceled |

STICKIES:

What is a Sticker?

Stickers allow you to place notes anywhere in CPOF.

They can be stuck to Maps, Efforts, Pasteboards, Desktops, etc.

Use a Sticker for briefings, memos, etc.

| Sticker Options | |
|---|--------|
| Sticker Color | > |
| <input checked="" type="checkbox"/> Show Header | |
| Iconify | |
| Send to trash | |
| Capture as Image | |
| Print | |
| Text | > |
| Paragraph | > |
| List | > |
| Table | > |
| Image Scaling | > |
| Clear Formatting | |
| Select All | Ctrl-A |
| Cut | Ctrl-X |
| Copy | Ctrl-C |
| Paste | Ctrl-V |

Sticker
Options

CPOF Elements

More stuff about Stickies

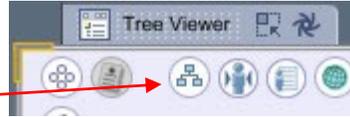
You can bring images into CPOF using Stickies.



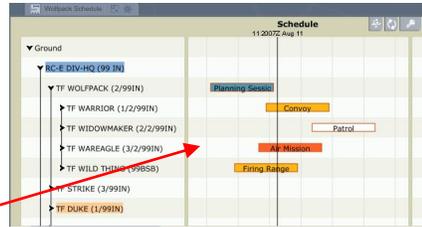
1. Copy and Paste multiple images into a Sticky using either the right-click menu or the standard keyboard shortcuts.
2. Save an image into your operating system clipboard and press **Ctrl+V** while in the 2D workspace—the image displays within a Sticky.
3. Drag an image file from Windows Explorer or your Windows desktop onto your workspace desktop—the image displays within a Sticky.

CPOF Elements Schedule

The Schedule is the central location for viewing, scheduling, and editing Tasks for a division's entire task organization or any part of the task organization. Use the Task Org icon on the Tree Viewer to select and



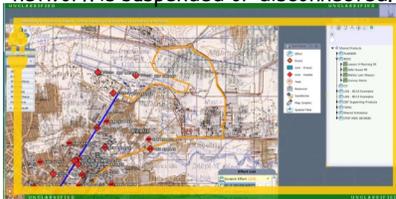
drag the Unit to the Schedule. You can assign and schedule a Task by dragging it to the timeline matrix (in the center of the schedule) in line with the Unit (shown on the left of the schedule) chosen to perform a mission (Task).



Then you can edit the Task to change the start and end times, status, and so on. If you are ready to assign a Task but not schedule it, you can drag it to the column to the right of the Unit's timeline matrix for later scheduling, or you can do so to allow the Unit to determine its own Task start and completion times.

Disconnected Operations What Does it Mean?

Visual border provides feedback for the CPOF Workspace when the network is suspended or disconnected.



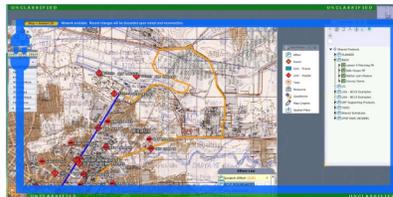
Suspended

When CPOF connectivity from a suspended state is returned, changes made while suspended "may" be maintained. It is recommended to stop work while suspended and restart CPOF when network connectivity is reestablished.



Disconnected

When disconnected and the network becomes available, a blue banner is displayed around the CPOF Workspace. A message telling the user to restart and reconnect appears; the message also alerts the user to the fact that recent changes made while disconnected will be discarded.

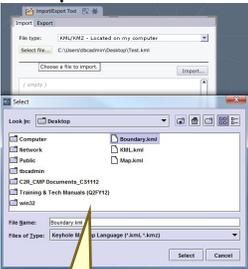


Network Available

Disconnected Operations Saving your Work

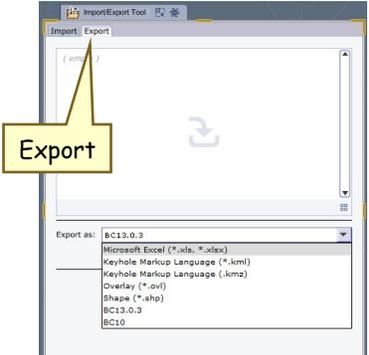
Import/Export Tool:

If you become suspended or disconnected, save your work by dragging the work products to the Export Frame of the Import/Export Tool, select the file format, and then click **Export** and select a filename and location for the export.



Import

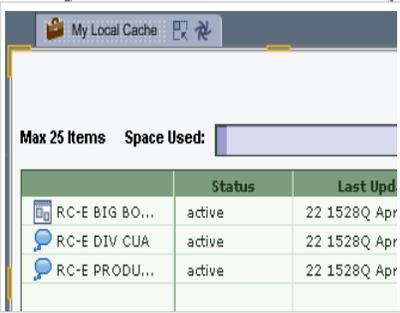
My Local Cache



Export

My Local Cache:

Add high-priority items to My Local Cache to frequently cache data so that it is as current as possible in case of disconnection.



CPOF Work Products Map

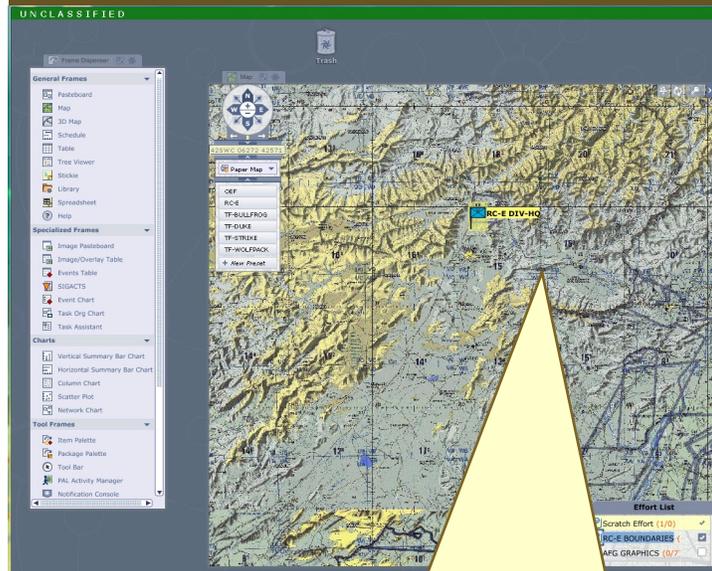
The Map is another frame. You can nest it in a Pasteboard. It has thumb tab controls and it can be expanded or contracted by using the drag handles.



Navigate a Map by using the Map Navigator, the shortcut menu, and keyboard shortcuts. The Effort List allows you to display or not display data contained in Efforts on the Map. Preset Views can be created to support briefings and revisit other Map views. To save a Map View as a Preset, click the + New Preset button on the navigator and name the preset.

CPOF Work Products

More good stuff about the Map



Use the mouse scroll wheel to zoom.

Press **Alt** → left-click and draw a box around the area to zoom.

Press the **Spacebar** and left-click to pan the Map.

Filter the Map's data.

CPOF Work Products Filter

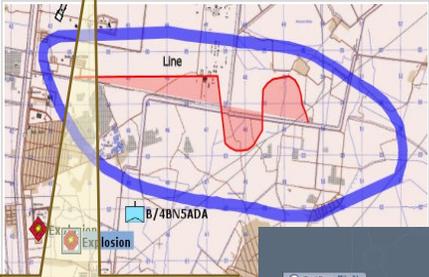
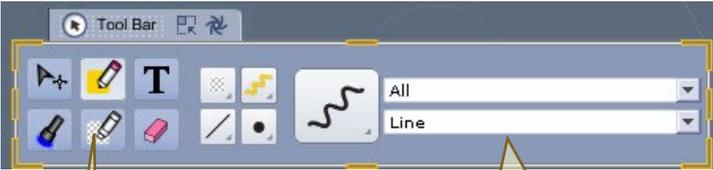
Filtering (window shade icon) lets you hide, show, or highlight data that shares a specific Attribute, allowing you to streamline the data that you present in your chart.



The filtering options are:

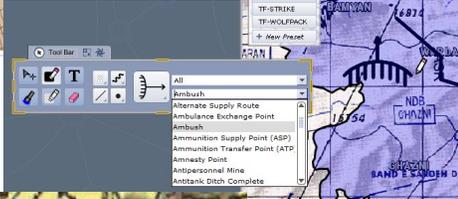
- Click **Show**: only the elements *with* the specified attribute display
- Click **Hide**: only the elements *without* the specified attribute display
- Click **Highlight**: the label text or symbol for the specified elements is highlighted

CPOF Work Products Tools and Graphics



Contains Military Tactical Graphics. Use the drop-down menu

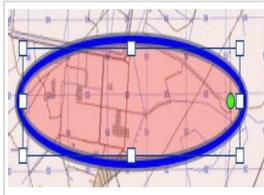
Keyboard shortcuts are
 "i" "g" = Ink; "f" = Flashlight;
 "t" = Text; "e" = Erase;
 "Esc" "s" gets the cursor back.



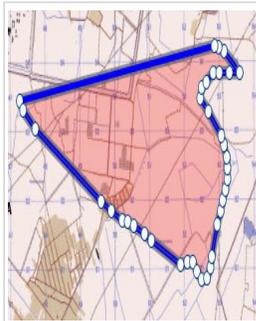
Did you know?
 Ctrl-drag the Flashlight to measure distance.

CPOF Work Products

Edit Graphics



Both Edit Modes:
Undo = U key.
Redo = R key.
Exit = Click outside the graphic or select the **Edit Mode: Exit** on the Graphics Palette.



Group Edit Mode: click once on the graphic.

Rotate the graphic by using the green ball.

Adjust the size by dragging the corner handles.

Adjust the graphic's height by dragging the edge handles.

Change the line style, width, color, fill color, and opacity of the graphic by changing them on the Graphics Palette.

Point Edit Mode: double-click on the graphic.

Edit by right-clicking one or more specific point(s) on a graphic, or its text.

Right-click to add/or delete a point.

Edit Text by selecting the **Text** tab on the Graphics Palette.

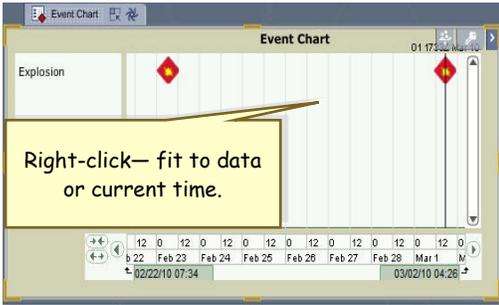
CPOF Work Products Tables & The Event Chart

3 kinds of tables -
Event Tables,
SIGACT Tables, and
generic Tables.

| | severity | timestamp | GRID/Coord | type | outcome | id |
|--------------------|----------|--------------|-------------------|--------------|---------|----|
| Enemy Surveillance | 03 | 1935Z Jun 04 | 385MB 48263 55760 | SURVEILLANCE | | |
| RPG Atk | 15 | 1835Z May... | 385MB 30877 81689 | RPG | | |
| VIDE | 23 | 1642Z Jun 04 | 385MB 41601 84953 | IED | | |
| Enemy Surveillance | 03 | 2235Z Jun 04 | 385MB 44863 84941 | SURVEILLANCE | | |
| RPG Atk | 06 | 1835Z Apr 04 | 385MB 30877 81689 | RPG | | |
| VIDE | 20 | 1642Z Jun 04 | 385MB 41601 84953 | IED | | |
| RPG Atk | 23 | 1718Z Jun 04 | 385MB 38267 77876 | RPG | | |
| Enemy Surveillance | 01 | 1835Z Jun 04 | 385MB 47415 81609 | SURVEILLANCE | | |
| RPG Atk | 17 | 1835Z Apr 04 | 385MB 30877 81689 | RPG | | |
| VIDE | 26 | 1642Z Apr 04 | 385MB 41654 84749 | IED | | |
| Enemy Surveillance | 01 | 1935Z Apr 04 | 385MB 47619 94281 | SURVEILLANCE | | |
| RPG Atk | 01 | 1935Z Apr 04 | 385MB 67404 88764 | RPG | | |
| VIDE | 17 | 1642Z Jun 04 | 385MB 41601 84953 | IED | | |
| RPG Atk | 23 | 1718Z Jun 04 | 385MB 38267 77876 | RPG | | |
| Survei | 05 | 1835Z Jun 04 | 385MB 49264 94297 | SURVEILLANCE | | |
| RPG Atk | 01 | 1835Z May... | 385MB 30877 81689 | RPG | | |
| VIDE | 14 | 1642Z Apr 04 | 385MB 41647 84667 | IED | | |

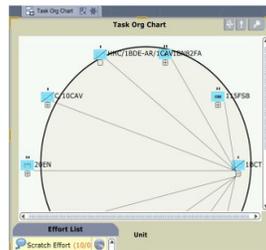
The Event and
SIGACT Tables are
global (displays the
same data to everyone). Sort a Table by clicking the
header at the top of the desired column. Select specific
value in a column by clicking on that value (e.g., IED).
Once one value is selected, all Events with the same value
are selected.

The Event
Chart provides a
way to display
the frequency of
Events and to
analyze the
relationship
between
different sets of Events on a timeline. Events must first
be contained in one or more Efforts.

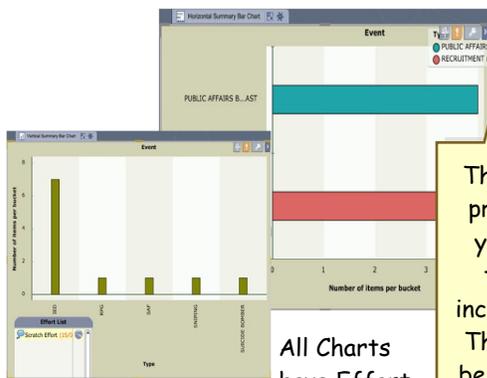


CPOF Work Products Charts

The Task Org Chart is a Network Chart that only accepts Units or Resources. It helps you visualize a Task Org in several different layouts to show hierarchy and relationships.



The Vertical & Horizontal Summary Bar Charts allow you to compare data on two specific attributes and bucket the data to create additional groupings.



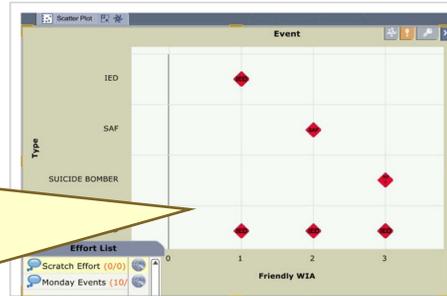
All Charts have Effort Lists like Maps and Schedules that you can add to the visualizations.



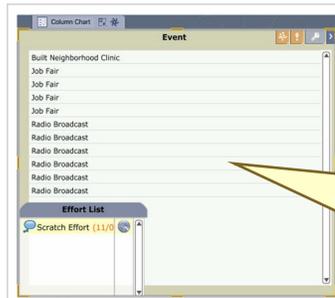
The Library will have pre-defined Charts; you may use one of these Charts and incorporate your data. The visualization will be determined by the pre-defined parameters of the Chart.

CPOF Work Products Charts

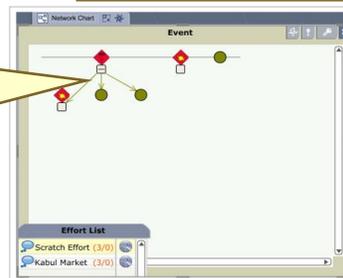
A Scatter Plot places data as Individual dots within the chart space, often best used to show the density of your data.



A Column Chart helps you visualize a single attribute (often most helpful when used as a supporting chart in a multi-chart visualization).

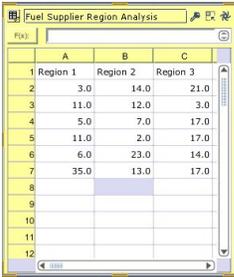


A Network Chart is best used to visualize and drill down on relationships.

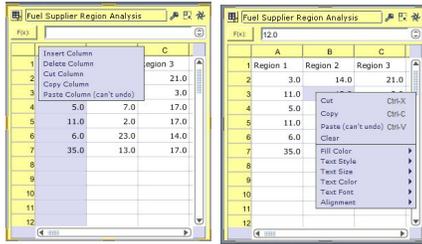


CPOF Work Products Spreadsheet

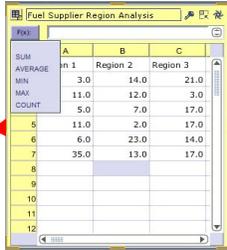
The CPOF Spreadsheet, located in the Frame Dispenser, allows you to collect, enter, and share tabular data similar to other spreadsheet applications. Spreadsheets **do not** hold CPOF data. You could not, for instance, drag a Unit to a Spreadsheet to visualize its attributes.



Right-click the column or row headers to add or remove columns or rows, and to access formatting options.



CPOF Spreadsheets support basic Excel-style formula functions which can be displayed by clicking the formula" or F(x): button.

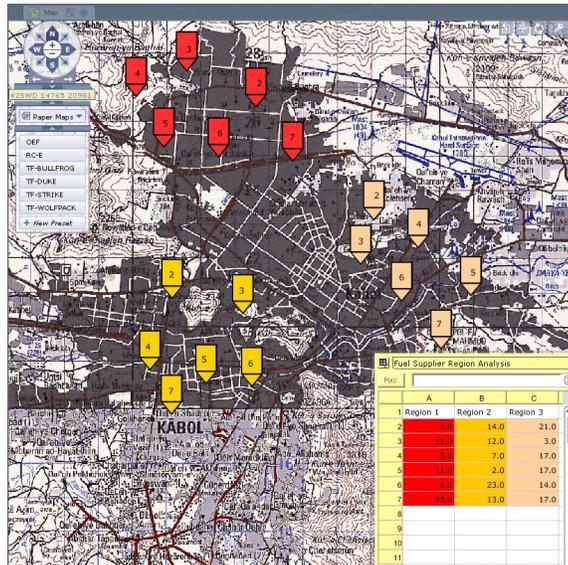


Clicking one of these functions pre-populates the formula field and the corresponding selected cell with the basic function code to calculate one of the following:

- **SUM** - the total sum of the numbers within the selected cell range
- **AVERAGE** - the average of the numbers within the selected cell range
- **MIN** - the lowest number within the selected cell range
- **MAX** - the highest number within the selected cell range
- **COUNT** - the number tally within a selected cell range

CPOF Work Products Spreadsheet

Use the Spreadsheet with other visualizations. Nest the Spreadsheet just like you would a Stickie. You can now use the tabular and visual information in a brief.



You can cut and paste text from a Table or any box fields into the Spreadsheet.

Remember: Any changes made to the Table or box fields you copied from will not change in the Spreadsheet.

CPOF Work Products Snagit

Start Snagit: **Start**
 → **All Programs** →
Snagit 9. Click the
Capture button or
 hotkey (Ctrl-Shift-P or
 Shift-Print Screen).
 Drag crosshairs cursor
 around what you want
 to capture. The
 Image appears in the
 Snagit Capture Preview



Window. Edit the image in the Snagit Capture Preview
 Window. If a profile hasn't been set up, select **Finish Profile**
 and select where you want the image to go.

The Snagit image will appear on the Image Overlay Table.

| Image/Overlay Table | created | |
|---------------------|---------|--|
| CG9.jpg | | |
| CG2_FSDB_1.jpg | | |
| ADCM-3_FSDB_0.jpg | | |
| CG16.jpg | | |

CPOF Work Products Publish and Subscribe

Data from CPOF and other Mission Command systems are available through the DDS Server and Web Services.

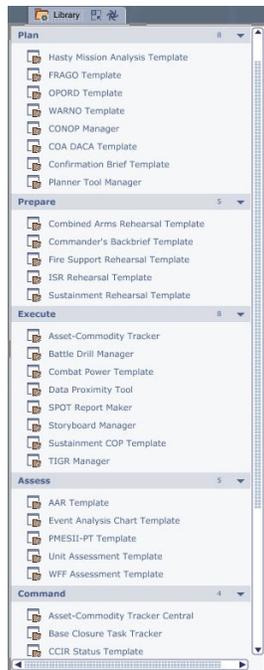
| System | Data Exchange with CPOF | Data Summary | Data Details |
|-------------|-------------------------|-------------------------|---|
| Command Web | ➡ | Collaborative Data Feed | Efforts, Graphics, Units, Events, Stickies, Geo-Stickies, Flashlighting |
| | ⬅ | Collaborative Data Feed | Efforts, Graphics, Units, Events, Stickies, Geo-Stickies, Map contents, Flashlighting |
| AFATDS/EMT | ➡ | Data Feed | Geometries (w/Graphics), Targets, Units |
| | ⬅ | Submission | Updates, Creates, Deletes (Geometries & Targets), Updates (Units) |
| TAIS | ➡ | Subscription | ACOs, ACMs, ACMRs |
| | ⬅ | Submission | ACMRs |

CPOF Work Products Publish and Subscribe

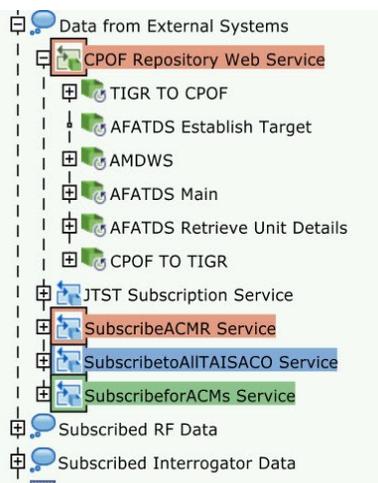
| System | Data Exchange with CPOF | Data Summary | Data Details |
|--------|-------------------------|---|--|
| CS/CMP | ➔ | Data Feed | Tactical Messages - Receive (K101, K05.17, K05.15, K03.06 & K05.13), C2R Address Book. |
| | ➜ | Submission | Create and Send (K101, K05.17, K05.15) |
| AMDWS | ➔ | Data Feed | Air Track, ADA Weapons, ADA Sensors, and RAM Event Feeds |
| BCS3 | ➜ | Status Query/Subscription | Unit Status and Supply Point Dashboards |
| TIGR | ➔ | Collaborative Data Feed | Collections (Places, Events, Reports w/Links to Media) |
| | ➜ | Collaborative Data Feed Time and Geographic Query for TIGR Data | Events |

CPOF Work Products WFF Elements

The CPOF Operator can now have access to WFF data using Templates in the CPOF library and data from Shared Products.



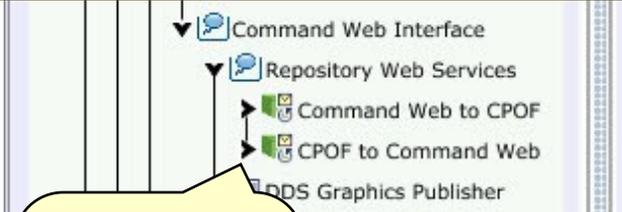
From the CPOF Library, dispense a WFF Template and place it onto the CPOF Desktop.



WFF information can be located in Shared Products. Contact your Helpdesk if you can't find it. Use the WFF data from the Publishers in Shared Products in either the WFF Templates, or mirror the information to a Map, depending on the information you are using.

CPOF Work Products

CPOF to Command Web

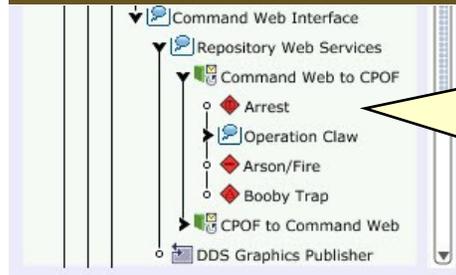


The Helpdesk will set up channels in the CPOF Shared Products for the Command Web and CPOF to share data

To send data to the Command Web, you can drag out the **CPOF to Command Web** channel and drop the data into the Contents region.



CPOF Work Products Command Web to CPOF



Data from Command Web will display in a Channel set up by Helpdesk.

The operator will take the data from Command Web located in Shared Products and place it on their CPOF Map.



CPOF Work Products TIGR to CPOF

CPOF SigActs sent to TIGR

TIGR patrol report accessed in CPOF

Channel packages

Locate the **TIGR to CPOF** Channel in Shared Products and Mirror it to the CPOF Desktop.

Privileges

Comments

Log Messages (0)

URLs (0)

Posts: 0

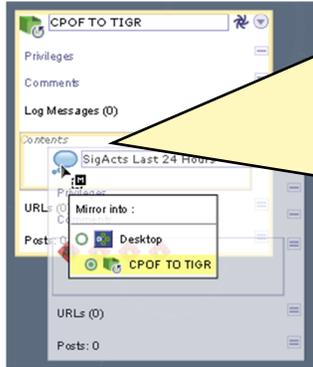
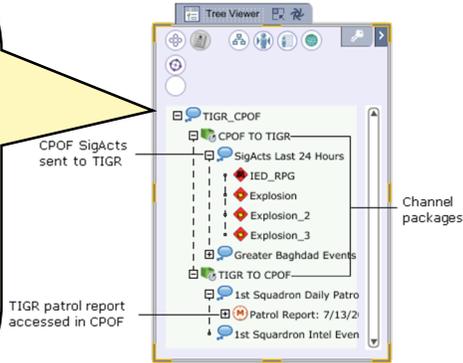
Mirror one of the Efforts to the CPOF Desktop.

Common items in the Efforts are Patrol Reports from TIGR which display as Tasks.

Mirror the Effort to the CPOF Map and monitor.

CPOF Work Products CPOF to TIGR

Locate the **CPOF TO TIGR** Channel in Shared Products and Mirror it to the CPOF Desktop.



Mirror Events or Efforts of Events that is to be sent to TIGR to the Container region of the package. Efforts can contain other items, but only the Events will appear in TIGR. The Events must have grid coordinates. Otherwise, they are not exported to TIGR.

NOTE: Contact the Helpdesk for assistance.

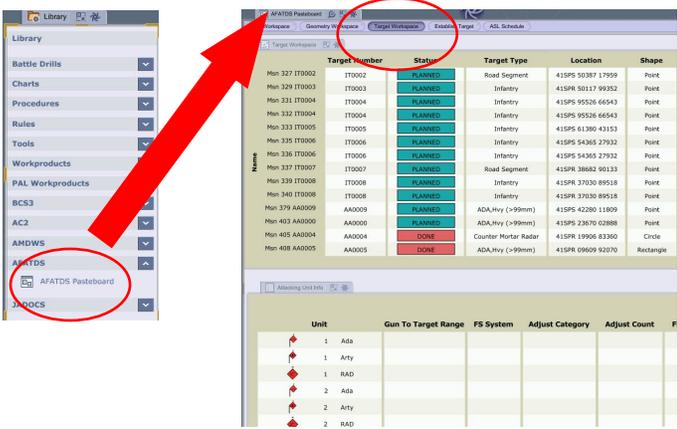
CPOF Work Products AMDWS

From CPOF [Library > AMDWS], dispense the AMDWS Track Table. From Shared Products, drag any of the Efforts to the AMDWS Track Table. The AMDWS Track Table displays data from the Efforts. Contact the Helpdesk if you can't locate the AMDWS Effort.

Info can be placed in the CPOF Template or straight to a CPOF Map.

| Unit | Lat | Long | Speed | Symbol Code | Type |
|--------|-------------|-------------|-------|------------------|--------------------------|
| JR0039 | 40.960312°N | 74.261612°W | 872 | SFAPMH-----*** | Rotary Wing |
| JR0045 | 40.057377°N | 74.072189°W | 26 | SFAPMHQ-----*** | Drone (RPV/UAV) Rotan |
| JR0051 | 40.834171°N | 73.929672°W | 748 | SFAPMF-----*** | Fixed Wing |
| JR0053 | 39.825150°N | 73.678581°W | 303 | SFAPMF-----*** | Fixed Wing Fighter |
| JR0057 | 40.440079°N | 74.482887°W | 418 | SFAPMH-----*** | Rotary Wing |
| JR0058 | 39.920765°N | 74.045288°W | 45 | SFAPMH-----*** | Rotary Wing |
| JR0062 | 40.442970°N | 74.206177°W | 457 | SFAP-----*** | Air Track |
| JR0068 | 40.026901°N | 73.470222°W | 771 | SFAPMF-----*** | Fixed Wing |
| JR0069 | 40.101330°N | 74.214035°W | 188 | SFAPMFRW-----*** | Fixed Wing Airborne Ear |
| JR0080 | 39.588539°N | 74.833748°W | 943 | SFAPWMCM-----*** | Cruise Missile |
| JR0082 | 40.038074°N | 73.929436°W | 473 | SFAPMFK-----*** | Fixed Wing Tanker |
| JR0085 | 40.453186°N | 73.787872°W | 776 | SFAPWJU-----*** | Subsurface To Surface |
| JR0087 | 39.434464°N | 74.693726°W | 938 | SFAPMH-----*** | Rotary Wing |
| JR0088 | 40.427380°N | 73.691589°W | 851 | SFAPMF-----*** | Fixed Wing Patrol |
| JR0092 | 39.787872°N | 73.660355°W | 801 | SFAPMH-----*** | Rotary Wing |
| JR0094 | 39.785400°N | 74.329773°W | 489 | SFAPWM-----*** | Missile In Flight |
| JR0098 | 39.479725°N | 74.718430°W | 805 | SFAPWMAA-----*** | Air To Air Missile (AAM) |
| JR0099 | 40.732216°N | 74.214119°W | 653 | SFAPWM-----*** | Missile In Flight |

CPOF Work Products AFATDS



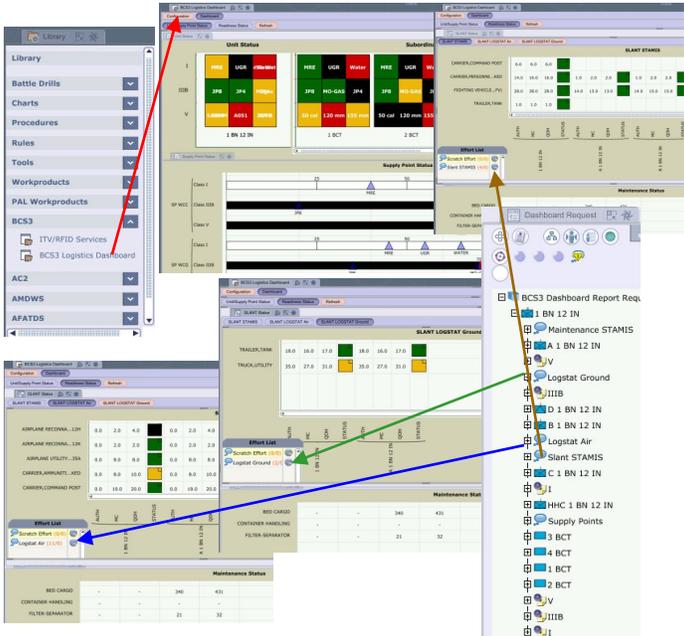
In Shared Products, there is an AFATDS Main Publisher that will have the Unit, Geometries, Map Efforts AFATDS, and Targets Efforts. The user will use these Efforts on the Map and in a template from the CPOF Library.

Mirror one of the AFATDS Efforts from Shared Products to the AFATDS Pasteboard or CPOF Map Effort List and monitor.

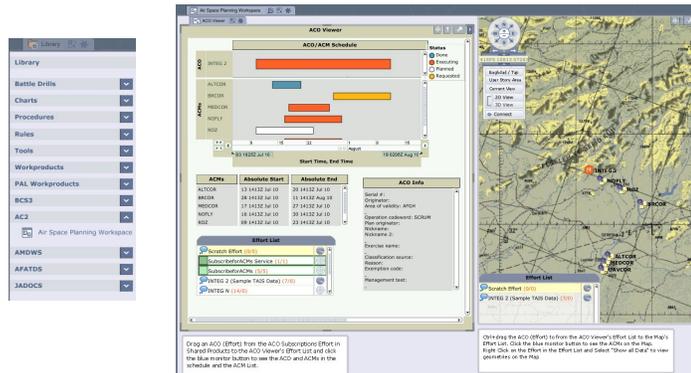


CPOF Work Products BCS3

From the CPOF Library, dispense the BCS3 Logistics Dashboard to the CPOF Desktop. This Dashboard will take some configuration to set up the way you want to see it. For this you will need the assistance of the Helpdesk. Once the configuration is complete, click each tab to analyze the information. To be able to view the SLANT and Maintenance Reports, you will need to mirror the Efforts from the Dashboard Request to the Effort List of the respective Chart.

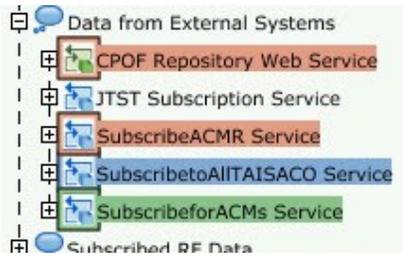


CPOF Work Products TAIS



From the CPOF Library (AC2), dispense the Air Space Planning Workspace to the CPOF Desktop.

From the Shared



Products, mirror the Publishers for TAIS to the Workspace Effort List and monitor. The information provided will be the approved airspace plan. You can mirror Efforts to the CPOF Map and have a visual representation of the information. You should only monitor one Effort at a time on the Workspace to keep ACC info from being overwritten.

CPOF Work Products

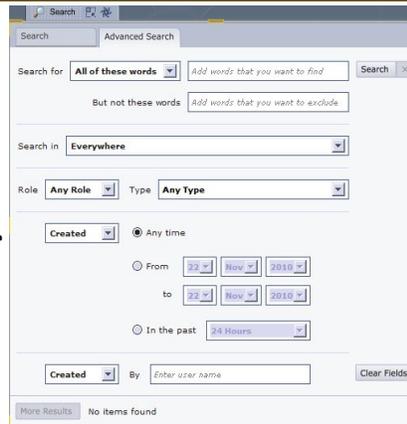
Repository Web Services and Charts in CPOF

| Data | Service | Description | Location |
|-----------------------------|---------|--|-----------------|
| AMDWS Air Tracks | AMDWS | All current air tracks | Shared Products |
| AMDWS RAM Events | AMDWS | All current and expired RAM Events | Shared Products |
| AMDWS SA Weapons | AMDWS | Location and Range Fan for SA Weapons | Shared Products |
| AMDWS SA Sensors | AMDWS | Location and Range Fan for SA Weapons | Shared Products |
| AMDWS Track table | AMDWS | Formatted Table for Air Track data | Library |
| AFATDS Pasteboard | AFATDS | Formatted Pasteboard to view AFATDS data | Library |
| AFATDS Geometries | AFATDS | Friendly and Enemy Geometries | Shared Products |
| AFATDS Targets | AFATDS | Current and Planned target data | Shared Products |
| AFATDS Units | AFATDS | Unit descriptions and locations | Shared Products |
| BCS3 Logistics Dashboard | BCS3 | Formatted BCS3 Pasteboard for display Unit, Supply Point, and Readiness Status | Library |
| ITV/RFID Services | BCS3 | Query tool for RFIDs in an area | Library |
| Airspace Planning Workspace | TAIS | Formatted TAIS workspace | Library |
| ACO | TAIS | List of all Active ACOs | Shared Products |
| ACMs | TAIS | List of all ACMs per ACO | Shared Products |
| ACMRs | TAIS | List of all ACMRs per ACO | Shared Products |

CPOF Work Products Search

The Search tool in the 2D Workspace allows you to search data on your system's Search server. The server creates (and periodically refreshes) full-text search indices for pre-defined types of information within CPOF.

The indices are built from data that is stored in either the live (Master) or Backup repositories.



The screenshot shows the 'Advanced Search' interface. It includes a 'Search for' field with a dropdown menu set to 'All of these words' and a 'Search' button. Below it is a 'But not these words' field. The 'Search in' dropdown is set to 'Everywhere'. There are dropdowns for 'Role' (set to 'Any Role') and 'Type' (set to 'Any Type'). A 'Created' dropdown is set to 'Created'. The search criteria are set to 'Any time' with radio buttons for 'From' (22 Nov 2010) and 'to' (22 Nov 2010), and an option for 'In the past' (24 Hours). A 'By' field is set to 'Enter user name' and a 'Clear Fields' button is present. At the bottom, it says 'More Results' and 'No items found'.

Two Search options are provided in the 2D Workspace:

1. A standard search option intended for simple or complex queries that don't require specifically targeted areas. This option automatically searches all indices in either the Master or Backup repositories (as provided by the Helpdesk). Use this option when you are fairly sure of what you are looking for or if you want to perform a broad, unstructured search.
2. An advanced search option intended for specifically-targeted searches based on data filtering. Use this option when you want to be more specific with your search.

CPOF Work Products Search

Search Tips:

1. Enter a wildcard (*) at the end of/within a partial word to find all versions of the word (arm* would find arms, armor, army, etc.).
2. Enter a tilde (~) at the end of a word to find similar words (this is useful with Arabic or misspelled words).
3. Enter double quotes (" ") around a word or phrase to find exact matches.
4. The Results table displays the query string that was submitted to the Search server. This string contains date/time encodings and the search string characters.

Example:

Your Search On: 10 1145R Dec 09: Armor™

CPOF Work Products Advanced Search

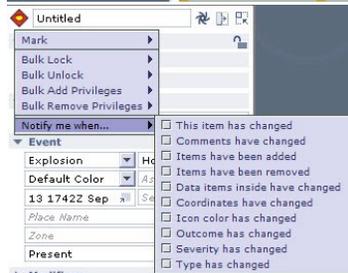
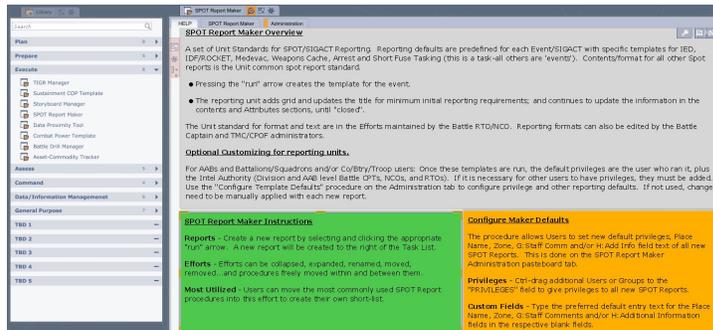
| Advanced Search Target | Looks at: |
|------------------------------------|---|
| Everywhere (default) | Everything in all available indices |
| SIGACTs | Everything in the current SIGACTs Table |
| Events | Everything in the current Events Table |
| All SIGACTs Archive | Everything within all levels of the SIGACTs Archive |
| All Events Archive | Everything within all levels of the Archived Events |
| Division Information Center | Everything within all levels of the Division Information Center |
| Shared Products | Everything within Shared products |
| Shared User Data | Everything in the Container regions of all user profiles |
| Division Resources | Everything within the Tree Viewer's Task Org preset |

CPOF Work Products

CPOF Automation

The terms 'CPOF Automation' and PAL (Personalized Assistant that Learns) may be used interchangeably.

CPOF automation enables you to automate routine chores, freeing you to spend your time more strategically and also reducing the chance of human error. Tasks like creating a Spot Report can be automated; you can design this automation to occur as a result of a specific system condition, or you can manually click a 'Run' button on a procedure box.

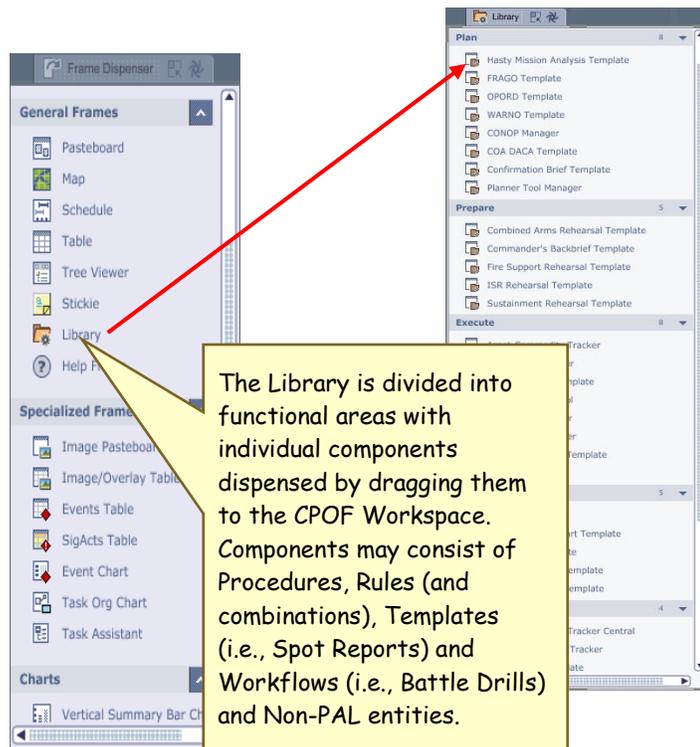


CPOF automation is found in some Library components, as well as notifications (when you right-click on an item to select **Notify me when...**).

CPOF Work Products

CPOF Library

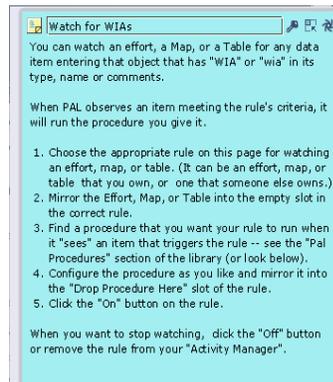
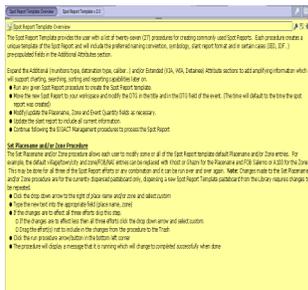
Users leverage PAL and its prebuilt workflows and components through the Library located in the *General Frames* section of the Frame Dispenser.



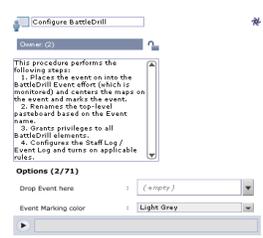
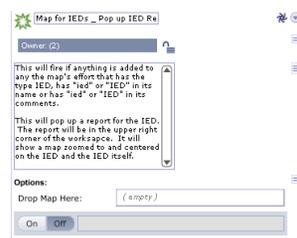
CPOF Work Products

CPOF Library

Each component dispensed from the Library will contain one or more set of instructions explaining what it's for, how to use it, and what to expect.



It will also contain one or more Procedures, Rules, or combination of the two used to perform the required task.

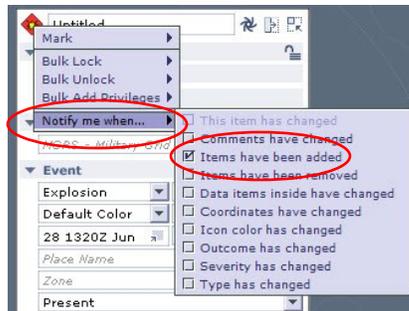


CPOF Work Products

Notification - Data

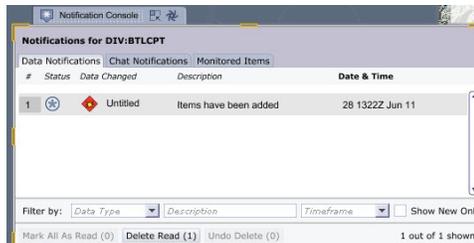


The Notification monitor docked on the CPOF Desktop turns orange to alert the operator that a number of new notifications are waiting. The first number is data notification and the second number is the Chat notification.

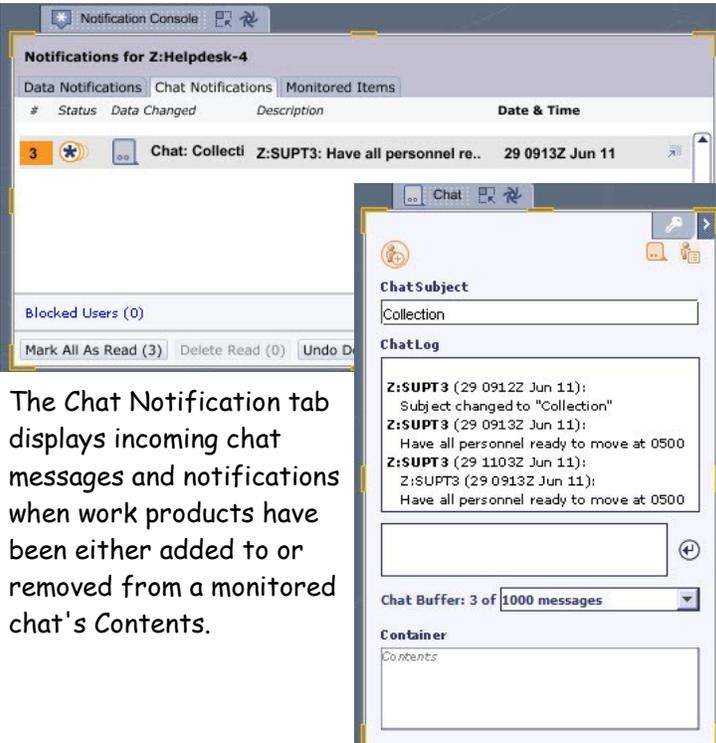


Data items use CPOF automation to automatically notify you of changes. Right-click the data item, click **Notify me when** and check the reason for notification.

Double-click the Notification Monitor to open the Notification Console. The Data Notification tab acts like an email inbox.



CPOF Work Products Notification - Chat



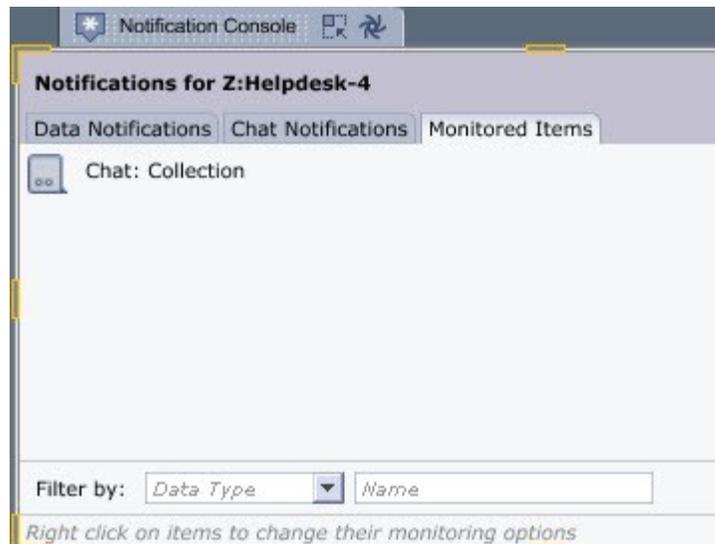
The screenshot displays a 'Notification Console' window with a tab for 'Chat Notifications'. The console shows a notification for 'Chat: Collecti Z:SUPT3: Have all personnel re..' dated '29 0913Z Jun 11'. Below the notification list, there are buttons for 'Mark All As Read (3)', 'Delete Read (0)', and 'Undo D...'. An expanded chat window is overlaid on the right, showing the 'Chat Subject' as 'Collection' and a 'ChatLog' with the following messages:

- Z:SUPT3 (29 0912Z Jun 11): Subject changed to "Collection"
- Z:SUPT3 (29 0913Z Jun 11): Have all personnel ready to move at 0500
- Z:SUPT3 (29 1103Z Jun 11): Z:SUPT3 (29 0913Z Jun 11): Have all personnel ready to move at 0500

The chat window also includes a 'Chat Buffer: 3 of 1000 messages' indicator and a 'Container' section with a 'Contents' field.

The Chat Notification tab displays incoming chat messages and notifications when work products have been either added to or removed from a monitored chat's Contents.

CPOF Work Products Notification - Monitored



The Monitored Items tab lists all the individual items that you are currently watching using CPOF automation.

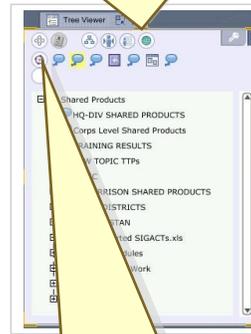
Organization and Collaboration Tree Viewer

The Tree Viewer allows you to examine work products (Maps, Pasteboards, Efforts, Tasks, etc.) by viewing them hierarchically, just like in Microsoft Windows Explorer.

Shared Products =
"shared drive"
of CPOF Products.

Use the Tree Viewer to:

1. Look at all the products on the Workspace.
2. Drop a Tree Viewer into a Pasteboard and view the Pasteboard's contents.
3. View all products in the Shared Products tree list.
4. View a list of all the work products contained in the My User Profile.
5. View a list of all users and all the work products those users have contained in their User Profile.
6. View the contents of most work products.



The Bookmark function gives you access to frequently-used work products without having to leave them open on your workspace desktop.

Privileges

Privileges of an Element

Privileges protect your Element from being edited or deleted by others.

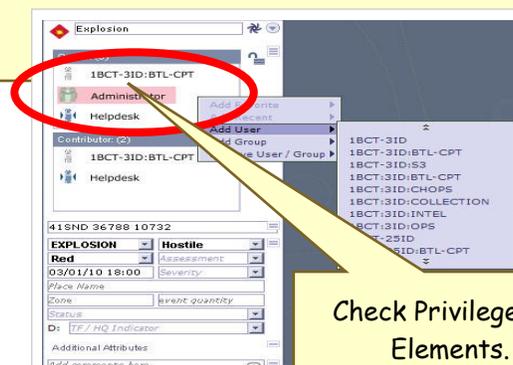
There are two ways to change Privileges of an Element:

1. Right-click.

Right-click in the Privilege Area.

2. Drag and Drop.

Drag the user from Tree Viewer to the Privilege area.



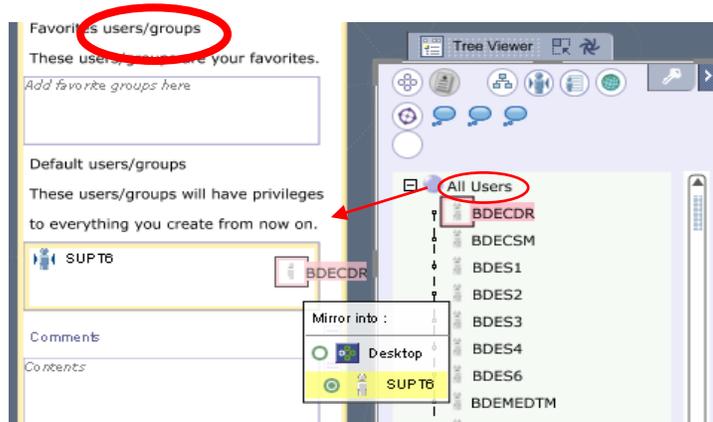
Privileges

| Work Product | Privilege type | Constraints |
|--------------|----------------------|---|
| Frame | Content: Owner | Allows you to add/remove frame content and add/remove others' content privileges |
| | Layout: Owner | Allows you to adjust frame layout and add/remove others' layout Privileges |
| | Contributor: content | Allows you to add/remove your own content; you cannot remove or manipulate others' content unless you have privileges to it as well |
| Stickie | Content: Owner | Allows you to add/remove Stickie content and add/remove others' content privileges |
| | Layout: Owner | Allows you to adjust Stickie layout and add/remove others' layout privileges |
| Element | Owner | Allows you to edit any portion of the data to include add/remove content and add/remove others' owner privileges |
| | Contributor | Allows you to add/remove your own content; you can remove or manipulate other's content only if you have privileges to it as well |
| Annotation | Owner | Allows you to edit and add/remove others' owner privileges |

- Rule of thumb: When granting privileges to others - give Contributor privilege

Privileges

User Profile. The profile includes default privileges which will be applied automatically to each product (Map, Pasteboard, Event, Effort, Task, etc.) that is created. Most users set the defaults once and seldom change them.



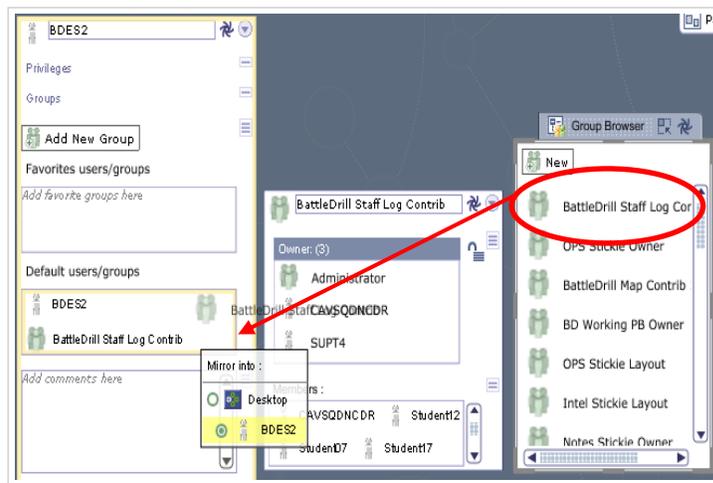
Set Up the User Profile (defaults):

1. Drag the Tree Viewer to the desktop.
2. Drag the My User icon from the Tree Viewer to view the profile.
3. Click the **All Users** button at the top of the Tree Viewer.
4. Drag user(s) to the Default users/ groups area of the MY User Profile.

Privileges

Groups - the user is a member of the groups listed.

Creating groups is useful for work groups and battle staff.



1. Mirror a group to the CPOF Desktop and note who belongs to the group.
2. The user can belong to a group in two ways:
 - a) Automatically - for example, Schedule Authority and Command Group.
 - b) Create a new group and drag users from the Tree Viewer All Users.

Privileges

Pull down the Privilege windowshade to gain access to the Layout, Content, and Contributor region

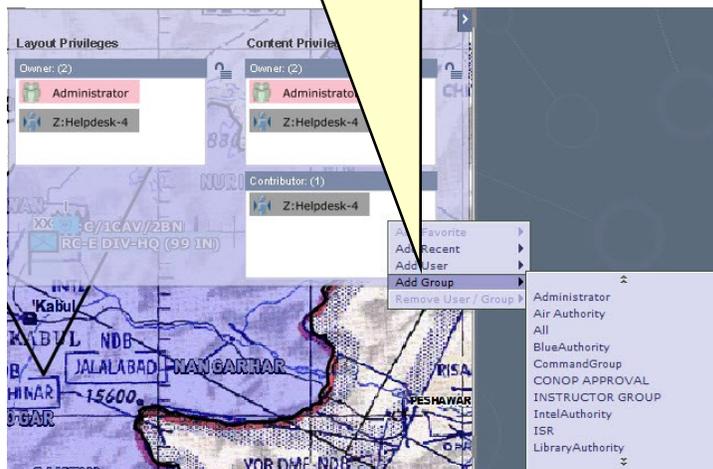
Privileges:

- You are Layout Owner
- You are Content Owner
- You are Content Contributor

Right-click the region and click the user you want to add.

Privileges

Want to add a group?
Right-click the region and select
Add Group. Click the Group you
want to add.





REMEMBER!

If your network is down, CPOF cannot connect to the server!*
If your network is slow, CPOF will run in a degraded mode.

* See 'Disconnected Operations' on page 20 for using CPOF offline.

INSIDE:

1. CPOF COMMUNICATIONS
2. RICH WEB APPLICATIONS
3. WORKSPACE BASICE
4. CPOF ELEMENTS
5. DISCONNECTER OPERATIONS
6. CPOF WORK PRODUCTS
7. ORGANIZATIONS & COLLABORATION
8. PRIVILEGES

Product Manager
[PdM TMC]

CPOF BC 13
Pocket Guide

PEO C3T PM Tactical Mission Command
ATTN: SFAE-C3T-MC-TMC
6007 Combat Drive, 5th Floor
APG, MD 21005-1846

Prepared by
General Dynamics C4 Systems
6000 Technology Drive
Huntsville, Alabama 35805



TACTICAL MISSION COMMAND