

เอกสารประกอบการฝึกอบรมการใช้งานระบบ

Field Information Support Tool (FIST)

หลักสูตร Fusion Portal Training



### Mobile Application



**Multilingual & media rich field collection reports**

- ✓ Audio, video, photographs and text
- ✓ Date time group
- ✓ GPS, signal strength (cell and Wi-Fi)

**Works in multiple connectivity scenarios**


- ✓ Data stored locally when no connectivity
- ✓ Special protocol for intermittent connection
- ✓ Satellite burst protocol for remote areas

**Rapid field operational awareness**

- ✓ Text messaging, blogging and real-time alarming
- ✓ First responder tracking for personnel safety
- ✓ Mission status notification

FIELD INFORMATION SUPPORT TOOL

### Online Portal



**Web Portal**

- ✓ Internet browser
- ✓ SSL connection
- ✓ US or partner nation hosting

**Multi-Source Data Fusion / Visualization**

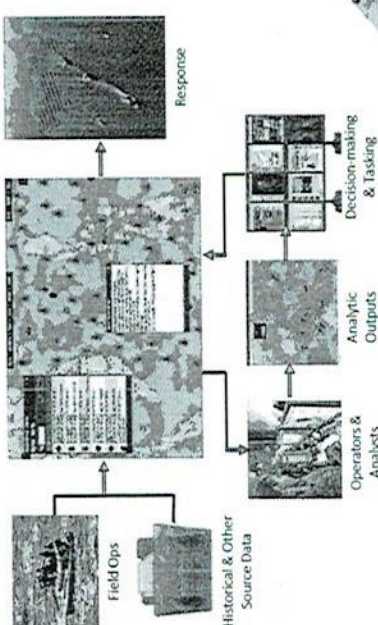
- ✓ Field reports
- ✓ Historical & sensor data
- ✓ Social media / news
- ✓ Partner data
- ✓ Live video streaming

**Knowledge creation**

- ✓ Text messaging, blogging and real-time alarming
- ✓ First responder tracking for personnel safety
- ✓ Mission status notification

FIELD INFORMATION SUPPORT TOOL

### Field Information Process

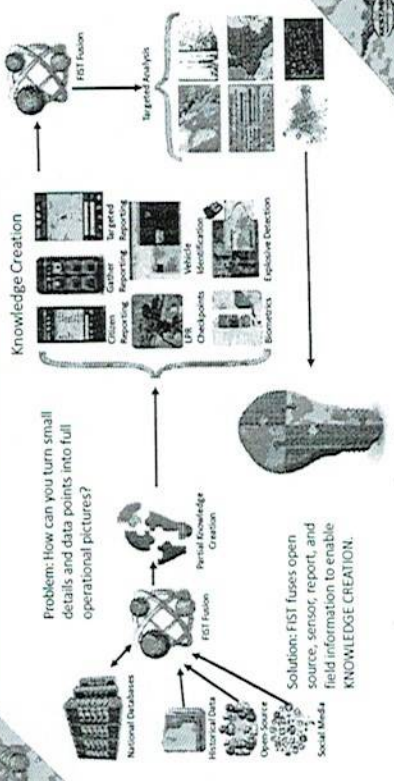


The process flow is as follows:

- Field Ops** and **Historical & Other Source Data** feed into **Operators & Analysts**.
- Operators & Analysts** produce **Analytic Outputs**.
- Analytic Outputs** lead to **Decision-making & Tasking**.
- Decision-making & Tasking** results in **Response**.

FIELD INFORMATION SUPPORT TOOL

### Creating Knowledge



**Problem:** How can you turn small details and data points into full operational pictures?

**Solution:** FIST fuses open source, sensor, report, and field information to enable KNOWLEDGE CREATION.

The process involves:

- Inputs:** National Databases, Historical Data, Open Source, Social Media.
- Processing:** FIST Fusion, Sensor Knowledge Creation.
- Knowledge Creation:** Reporting, Other, Checkpoints, LPR, Biometrics, Explosive Detection, Vehicle Identification, Reporting, Reporting, Reporting, Reporting, Reporting, Reporting.
- Targeted Analysis:** FIST Fusion.

FIELD INFORMATION SUPPORT TOOL



### Key Benefits Summary

**FIELD INFORMATION SUPPORT TOOL**

- **Situational Awareness:** Robust reporting and Command and control anywhere in the world, 24/7
- **Fused Data Visualization & Analysis:** Real-time field reports, multi-source data and an easily navigated geospatial COP (Common Operating Picture) improves analysis and decision-making
- **Command & Control:** encrypted messaging, tracking of field assets, force protection, and tasking plans
- **Data Management:** Secure and controlled integration for organizational systems; Selective data sharing to enable inter- and intra agency collaboration
- **Sensor Integration:** Integration of cameras, UAV, Identity management and other sensors feeds to increase Situational Awareness and enrich Analysis

### Countering Dark Networks

**FIELD INFORMATION SUPPORT TOOL**

FIST utilizes Social Network Analysis to illuminate emerging patterns of "dark networks" for analysis and action

- 1 Multi-Media Field Collection
- 2 Report Visualization
- 3 Multi-Source Data Fusion
- 4 Multi-Variate Data Export
- 5 Social Network Analysis
- 6 Field Tasking & Targeted Investigation
- 7 Network Discovery & Disruption

- ❖ This aids the characterization of connections between people, places and events.
- ❖ It aids the establishment of dark network structures, associations, audiences, and potential weakness.
- ❖ This analysis creates understanding of the networks to identify opportunities to disrupt them.

**COLLECT FUSE ANALYZE SHARE TASK PLAN**




## Introduction to FusionPortal

### BASIC A

Module 03  
May 2019

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## What is FIST FusionPortal?



- A globally-accessible web portal that performs situated assessment, data collection, analysis, dissemination, and workflow management.
- FIST FusionPortal can function anywhere.
- Engineered to work in both broadband and austere wireless networks.
- It is rapidly learned by individuals with light or deep backgrounds in geospatial, data, and analysis toolsets.

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## Login to FusionPortal





FIST is a secure information management system. In order to achieve this, multiple layers of security are required. To access the system, you must:

- Make a secure Virtual Private Network (VPN) connection
- Then login to the system with your assigned User Account credentials

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## VPN Login

- Click on the VPN application button
- This launches the VPN login
- Click on Remote Access
- Login with your provided VPN account credentials

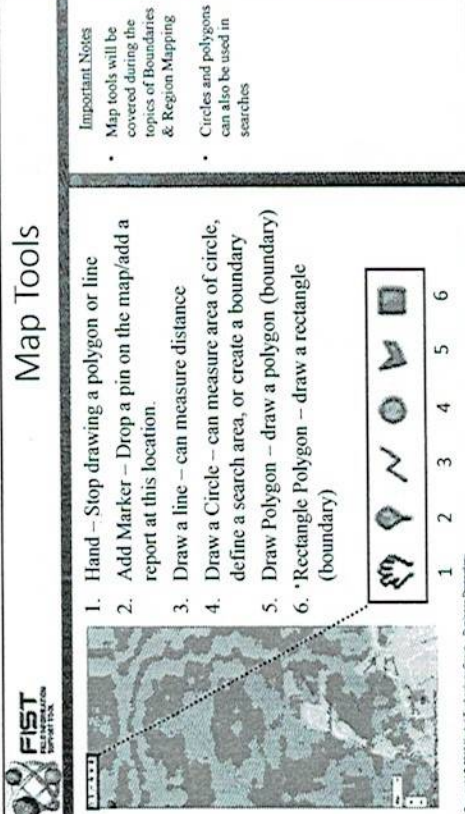
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### Map Tools



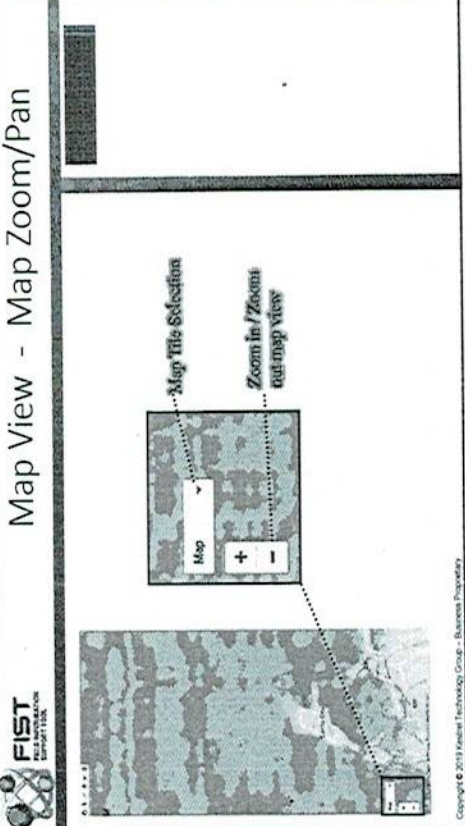
1. Hand – Stop drawing a polygon or line
2. Add Marker – Drop a pin on the map/add a report at this location.
3. Draw a line – can measure distance
4. Draw a Circle – can measure area of circle, define a search area, or create a boundary
5. Draw Polygon – draw a polygon (boundary)
6. Rectangle Polygon – draw a rectangle (boundary)

**Important Notes**  
 Map tools will be covered during the topics of Boundaries & Region Mapping

- Circles and polygons can also be used in searches

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### Map View - Map Zoom/Pan

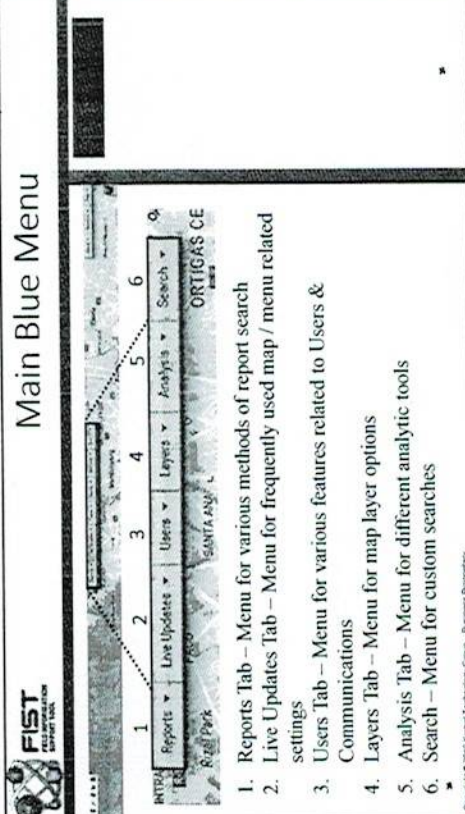


Map Title Selection

Zoom In / Zooms out map view

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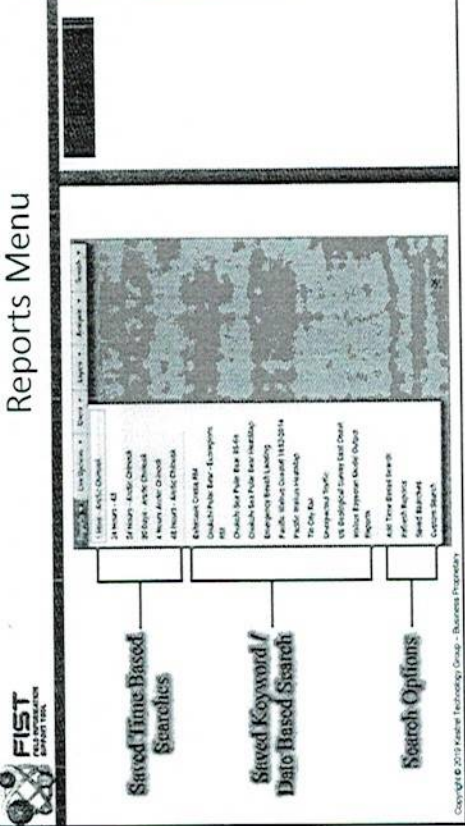
### Main Blue Menu



1. Reports Tab – Menu for various methods of report search
2. Live Updates Tab – Menu for frequently used map / menu related settings
3. Users Tab – Menu for various features related to Users & Communications
4. Layers Tab – Menu for map layer options
5. Analysis Tab – Menu for different analytic tools
6. Search – Menu for custom searches

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### Reports Menu



Saved Time Based Searches

Saved Keyword / Date Based Search

Search Options

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# Reports Menu - Time Based Search

For saved searches, click the desired time-frame to execute.

These are called Time-Based Searches

After selecting, a results window will open with search results

The screenshot shows the 'Reports Menu' with a 'Live Updates' dropdown and a 'Users' dropdown. The menu items are: 1 year, 12 hours, 30 days, 4 hours, 7 days, Biometrics feed, Gun Offenders, Test02 QR, Test02 QR2, Watchlist Items, Add Time Based Search, Refresh Reports, Saved Searches, and Custom Search. An arrow points to the 'Add Time Based Search' option.

# Reports Menu - Time Based Search

This screenshot is identical to the previous one, showing the 'Reports Menu' with 'Add Time Based Search' highlighted. An arrow points to the 'Add Time Based Search' option.

# Reports Menu - Add Time Based Search

To add a time based search to the Report Menu, click: 'Add Time Based Search'

The screenshot shows the 'Add Time Based Search' dialog box. It has fields for Name, ID#, Name, Share, and Group. The 'Name' field contains '24', 'Hours', and '24 hours'. The 'Share' dropdown is set to 'Private'. The 'Group' dropdown is set to 'All'. There are 'Go' and 'Cancel' buttons.

**Important Notes**

- Time-Based Searches can be saved for your User only, or for an entire group

# Reports Menu - Add Time Based Search

**Important Notes**

- You can only save Time Based Searches to data groups to which you are a member

This screenshot is identical to the previous one, but with annotations. A box labeled 'Numerical value for time based search' points to the '24' in the Name field. A box labeled 'Unit for Search (Minutes, Hours, Days, Weeks, Months, Years)' points to 'Hours'. A box labeled 'Name to label search' points to '24 hours'. A box labeled 'Choose to create a private or shared' points to the 'Private' dropdown. A box labeled 'Choose the group to share with' points to the 'All' dropdown. A box labeled 'Click "Go" to save Search' points to the 'Go' button.

### Reports Menu – Saved Searches

**Important Notes**

- Saved Searches lists previously searches that were selected to be saved.
- Searches not selected for being saved, will still be available under saved searches for a limited time
- From the Saved Searches list, you can open the results on the map, delete the search, refresh the list, or add a new search.

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### Reports Menu – Saved Searches

**Important Notes**

- Click one of the saved searches to launch search results

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### POP QUIZ

- Every student will create two Time-Based Searches
  - One search visible to the user only
  - One search shared to the group

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### Reports Menu – Custom Searches

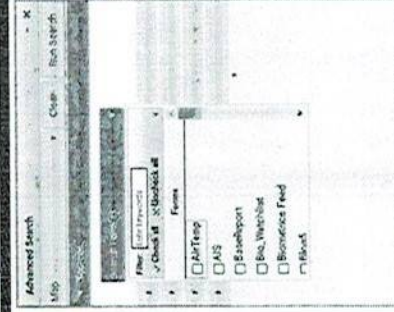
**Important Notes**

There are five areas to customize your search criteria

- Sources (report types/forms/datasets)
- Search Terms (keyword search)
- Date Filter
- Additional Fields
- Save As

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## Reports Menu – Custom Searches



The Sources tab allows the user to select the data source(s) to be included in the search.


Options include Gather Field Reports, various feed data, or uploaded datasets.

**Important Notes**

- In the advanced Portal training module, more advanced searches by 'Search Term' can be achieved using the Query Builder

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## Reports Menu – Custom Searches



You can search for reports that include a specific key word, or search for more than one term using the and/or operator.

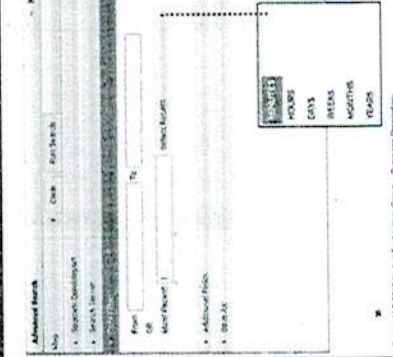
Terms can include wildcards

**Important Notes**

- If you expect to use the same search criteria in the future, consider saving the search under a relevant name.
- If a name is not included in the search dialog box, the search is still saved, but it is named by the system using the date.

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## Reports Menu – Custom Searches



Date Filter. Narrow your search for reports by time frames:

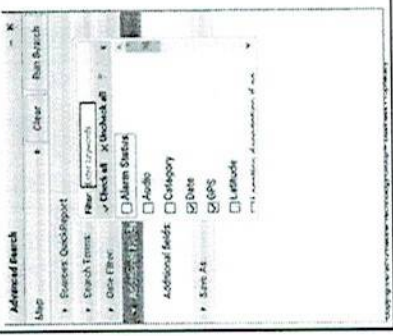
- Pick dates and times from a calendar to designate "from" date and "to" date
- Search by most recent days, weeks, months etc.

**Important Notes**

The "date picker" widget allows for very specific search parameters – down to the second and are time zone specific.

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## Reports Menu – Custom Searches



The additional fields section displays a list of all field names in the chosen dataset, and allows users to include these fields in the output display.

Also, selecting additional fields allows those fields to be included in key word searches.

**Important Notes**

- If you expect to use the same search criteria in the future, consider saving the search under a relevant name.
- If a name is not included in the search dialog box, the search is still saved, but it is named by the system using the date.

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## Reports Menu – Custom Searches

The Save As section allows users to save a specific search.

The user can either save the search for their own person view or for group use.

**Customize the name of Saved Search**

**Share this saved search with other users in your group**

**Select the group you wish to add the saved search to**

You can choose whether or not to add this saved search to the Report Tab menu.

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## Exercise

- Execute a search and display the results in a Table display

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## Live Updates Menu

- Alarms: Alarms notifications on/off
- Reports: Auto report update on/off
- User location: Locating of system Users on/off
- Set Rate: Change frequency of portal data update/refresh
- Lookback Period – Change timeframe for User activity search

**Important Notes**

- For class, the following Live Updates should be toggled on (checkbox):
  - Alarms
  - Reports
  - User Location

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## Live Updates Menu - Alarms

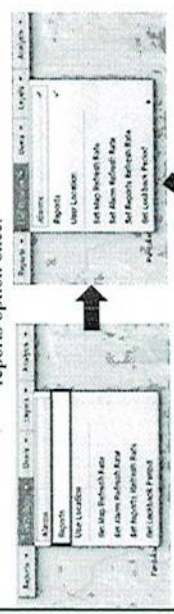
To turn the alarms feature on/off, click on the alarms option once.

**You will receive a notification that confirms you've turned on/off your Live update**

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### Live Updates Menu - Reports

To turn the reports feature on/off, click on the reports option once.

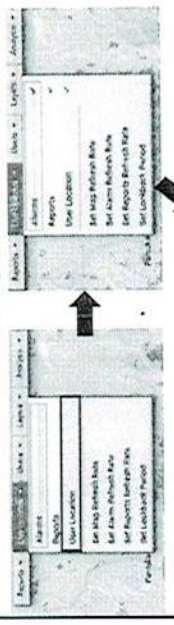


You will receive a notification that confirms you've turned on/off your live update.

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### Live Updates Menu- User Location

To turn the user locations feature on/off, click on the user locations option once.



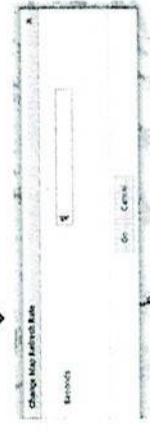
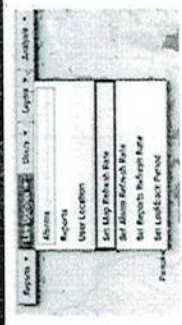
You will receive a notification that confirms you've turned on/off your live update.

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### Live Updates Menu- Set Map Refresh Rate

To change the refresh rate for map auto update, click on the "Set Map Refresh Rate".

A new popup window will appear. There you can change the rate amount.

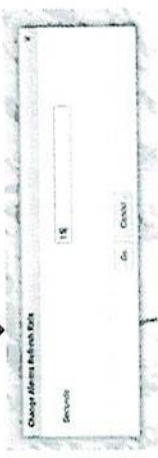


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### Live Updates Menu- Set Alarm Refresh Rate

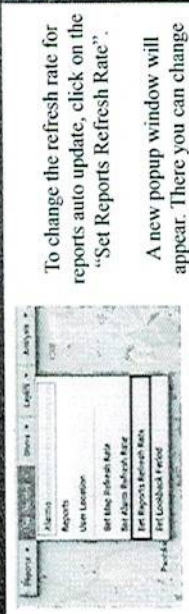
To change the refresh rate for alarm auto update, click on the "Set Alarm Refresh Rate".

A new popup window will appear. There you can change the rate amount.



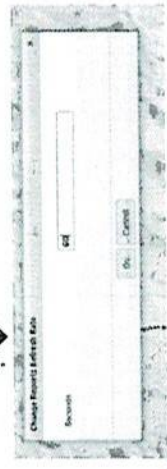
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### Live Updates – Set Reports Refresh Rate



To change the refresh rate for reports auto update, click on the "Set Reports Refresh Rate".

A new popup window will appear. There you can change the rate amount.



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### Live Updates – Set Lookback Period



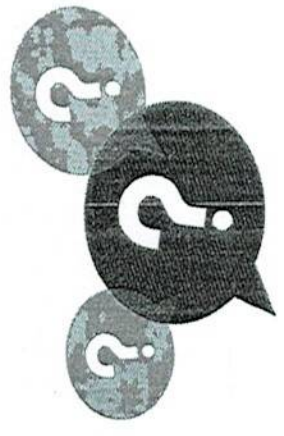
To change the refresh rate for the Lookback Period of Users click the "Set Lookback Period".

A new popup window will appear. There you can change the rate amount.



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### Questions?



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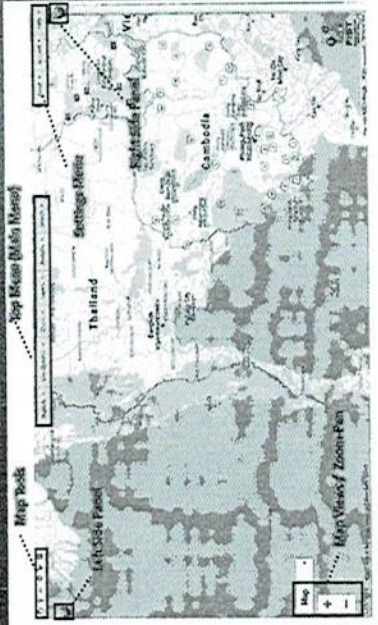
**FIST**  
FIELD INFORMATION  
SUPPORT TOOL

## Introduction to FusionPortal Basics B

Module 05  
May 2019

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### Review - Main Screen

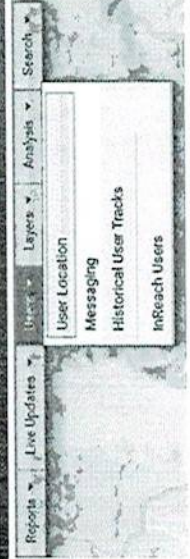


**Important Notes**

- Note that the map zoom level, location, and other settings reflect your status when you were last logged in.

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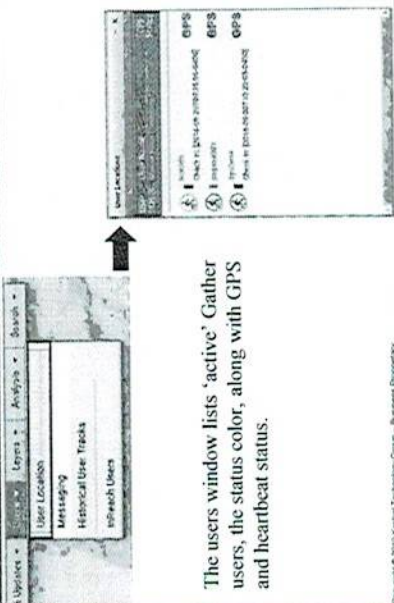
### Users Menu



1. User Locations – displays user status and other information. Click to locate any user on the map
2. Messaging – opens a window for portal users to view and respond to messages generated by Gather field operators
3. Historical User Tracks – displays a list of user tracks listed by date
4. InReach Users – Links each InReach device to a Gather user

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### Users – User Locations



The users window lists 'active' Gather users, the status color, along with GPS and heartbeat status.

**Important Notes**

- The same information about users can be viewed from the left side panel with the 'USERS' tab selected

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### User Tab – Historical User Tracks

**Important Notes**

- The list of available Historical Tracks defaults to a one-week lookback.
- To search a different timeframe, click the Date Range button and select the dates and times.
- After selecting a day, time can be precise to the second, and includes time zone setting.

**Historical User Tracks Table:**

ID	Name	Created	Last Modified	Time Zone
20180921-20180921-0001	20180921-20180921-0001	2018-09-21 00:00:00	2018-09-21 00:00:00	UTC
20180921-20180921-0002	20180921-20180921-0002	2018-09-21 00:00:00	2018-09-21 00:00:00	UTC
20180921-20180921-0003	20180921-20180921-0003	2018-09-21 00:00:00	2018-09-21 00:00:00	UTC
20180921-20180921-0004	20180921-20180921-0004	2018-09-21 00:00:00	2018-09-21 00:00:00	UTC
20180921-20180921-0005	20180921-20180921-0005	2018-09-21 00:00:00	2018-09-21 00:00:00	UTC
20180921-20180921-0006	20180921-20180921-0006	2018-09-21 00:00:00	2018-09-21 00:00:00	UTC
20180921-20180921-0007	20180921-20180921-0007	2018-09-21 00:00:00	2018-09-21 00:00:00	UTC
20180921-20180921-0008	20180921-20180921-0008	2018-09-21 00:00:00	2018-09-21 00:00:00	UTC
20180921-20180921-0009	20180921-20180921-0009	2018-09-21 00:00:00	2018-09-21 00:00:00	UTC
20180921-20180921-0010	20180921-20180921-0010	2018-09-21 00:00:00	2018-09-21 00:00:00	UTC

**Map View Details:**

- Map: 20180921-20180921-0001
- Time Range: 2018-09-21 00:00:00 to 2018-09-21 00:00:00
- Time Zone: UTC
- Map Scale: 4000
- Map Orientation: North

### User Tabs – Historical User Tracks

When a user is selected, tracks are displayed.

Multiple days or users can be selected and displayed simultaneously on the map.

- Mouse over any user track to see a geo-located date/time stamp and directional bearing.
- Color choices for each user's track is set at 'User Profile' (covered later)

### Layers Tab

**Important Notes**

- Many features of the Layers menu are covered in advanced training modules.

The layers tab has multiple functions that allow you to place various types of geospatial layers on the map simultaneously with report viewing and user messaging.

**Layers Menu Options:**

- KML Overlays
- External Links and URLs
- Boundaries
- Regions
- Map Layer
- Streaming Video

### Layers Tab – KML Overlays

When you select 'KML Overlays', a new window opens up with available KML layers.

These are KMLs currently available.

To open a KML, click the KML name.

**Available KML Layers:**

- 0180921-001
- 0180921-002
- 0180921-003
- 0180921-004
- 0180921-005
- 0180921-006
- 0180921-007
- 0180921-008
- 0180921-009
- 0180921-010
- 0180921-011
- 0180921-012
- 0180921-013
- 0180921-014
- 0180921-015
- 0180921-016
- 0180921-017
- 0180921-018
- 0180921-019
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- 0180921-024
- 0180921-025
- 0180921-026
- 0180921-027
- 0180921-028
- 0180921-029
- 0180921-030
- 0180921-031
- 0180921-032
- 0180921-033
- 0180921-034
- 0180921-035
- 0180921-036
- 0180921-037
- 0180921-038
- 0180921-039
- 0180921-040
- 0180921-041
- 0180921-042
- 0180921-043
- 0180921-044
- 0180921-045
- 0180921-046
- 0180921-047
- 0180921-048
- 0180921-049
- 0180921-050

**Important Notes**

- How to add KML's will be discussed in a subsequent Advanced training module.

## Layers Tab – KML Overlays

**FIST FUSIONPORTAL REPORT TOOL**

**KML Overlay**

- Select Item
- Add Item
- Display/Hide
- 2017 US Census
- East Africa States
- East Africa States and Dist
- Kenya Bound
- Kenya Schools
- Chadok, John Rajala - Shopping (Star) Product May 2018
- Tanzania Health Sites
- Tanzania Provincial Rpts
- Uganda Rivers

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## Layers Tab – External Links / URLs

**FIST FUSIONPORTAL REPORT TOOL**

**External Links and URLs**

When you select 'External Links and URLs', a new window opens displaying available external links layers.

These are data feeds / sources currently available

To open an external link, click the link name - the data feed will display on the map in a new window.

**Important Notes**

- How to add external links will be discussed in a subsequent Advanced training module.

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## Analysis Tab

**FIST FUSIONPORTAL REPORT TOOL**

**Analysis**

- Social Network Analysis
- Data Visualization
- Geo Spatial Movie
- Heat Map
- Region Mapping

These features will be fully discussed in the Advanced FusionPortal Training Modules and will not be reviewed in this training.

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## Search Tab

**FIST FUSIONPORTAL REPORT TOOL**

**Search**

- Custom Search
- Saved Searches

The search tab allows users to either perform searches or open a saved search.

To learn how searched data is presented, click on Saved Searches and select one of the previously saved searches.


**Important Notes**

- Both of these items are also found under the Reports.
- Detailed steps are covered in: Module 03 FusionPortal Basics A

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### Report Bubble



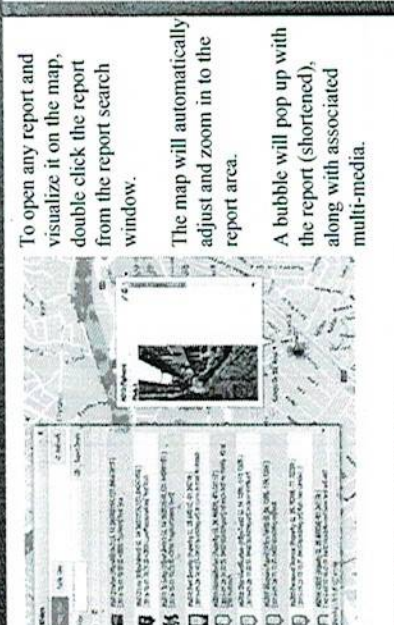
Each report bubble is scrollable if there is a lot of information.

To view report data, scroll through the report as necessary.

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FIELD INVESTIGATION  
REPORT TOOL

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### Report Bubble



To open any report and visualize it on the map, double click the report from the report search window.


The map will automatically adjust and zoom in to the report area.

A bubble will pop up with the report (shortened), along with associated multi-media.

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REPORT TOOL

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### Report Side Panel - Report Viewing



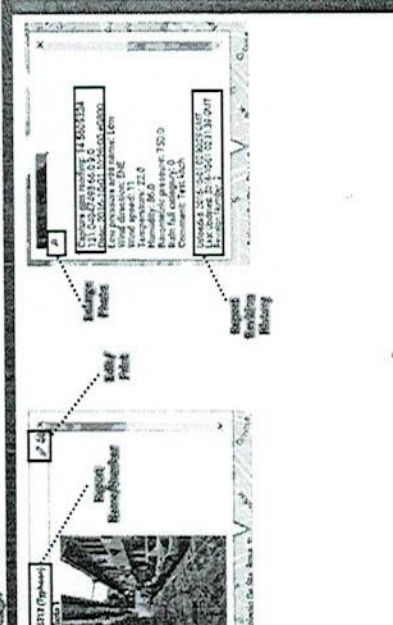
Open up the right panel first by clicking the right-facing arrow

The panel will be empty to start with.

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REPORT TOOL

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### Report Bubble



**Important Notes**

- Only users with roles that allow edit/export will be able to use these functions

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