

Spatial Support System (SSS) User Guide for Application Version 10.10.1

Office for Information Management
Department of Environment and Conservation

Rodney Sales
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Revision 10.10.1



Department of
Environment and Conservation

Our environment, our future



Table of Contents

Spatial Support System - Help, Hints & Tips, Quick Reference 5

<i>How to Get Help</i>	5
<i>Hints & Tips</i>	5
<i>Quick Reference Sheet</i>	5

Overview 7

<i>About the Spatial Support System</i>	7
<i>Management of DEC Tracking Devices</i> ^{*1}	7
<i>Who would use this application</i>	7
Regional Services staff involved in remote field operations ^{*2}	7
State, Regional, District, Work Centre and National Park Staff ^{*2}	7
Duty Officers ^{*2}	7
DEC Air desk and aviation management staff ^{*2}	7
Incident Management Team ^{*2}	7
Other Agencies	8
Resource Management ^{*2}	8

Using the Spatial Support System 9

<i>Minimum Computer Requirements</i>	9
<i>Connecting to the Application</i>	9
<i>Login Form</i>	9
<i>Initial Map View</i>	9
<i>Loading Indicators</i>	10
<i>Panes</i>	10
<i>Logout</i>	10
<i>Map Tools</i>	11
<i>Map Widgets</i>	12
Zoom Bar	13
Hover Details Popup	13
<i>Refresh Button</i>	13
<i>Settings Pane</i>	13
<i>FMS Pane</i>	14
<i>Contents Pane</i>	14
<i>Maps & Views Tab</i>	15
Maps and Themes List	15
Searching Maps and Themes	16
Creating Your Own Maps and Themes	16
Updating Your Own Maps and Themes	17
Removing Your Own Maps and Themes	17
Load a Map or Theme in the Map Pane	17
Producing a Map from a Map View	17
<i>Maps Web Browser Tab for Map Production</i>	17

* See appendix 1 references

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<i>Producing a New Map from a Map View</i>	17
<i>Finding and displaying old Maps from a Map View</i>	18
<i>Layers Tab</i>	19
<i>Layers List</i>	19
<i>Using Layers with performance in mind</i>	19
<i>Searching Layers</i>	20
<i>Toggle Layer Visibility</i>	20
<i>Layer Opacity</i>	20
<i>Change Layer Order</i>	21
<i>Layer Details</i>	21
<i>Single Layer Refresh</i>	21
<i>Tags</i>	22
<i>Legend</i>	22
<i>Tracking Tab</i>	22
<i>Resource Tracking Device Selector</i>	22
<i>Understanding Tracking Resources</i>	22
<i>Search for Resource Tracking Devices</i>	23
<i>Select Resource Tracking Devices</i>	23
<i>View Resource Tracking Device Details</i>	23
<i>Edit Resource Tracking Device Details</i>	23
<i>Resource Tracking Device Tags</i>	24
<i>View History of a Resource Tracking Device</i>	24
<i>Drawing on the Map Pane</i>	25
<i>Create a Drawing</i>	25
<i>View Drawing Layers</i>	25
<i>Draw Polygon Layer</i>	26
<i>Draw Line Layer</i>	28
<i>Draw Point and Text Layer</i>	31
<i>Exporting Drawn Layers</i>	33
<i>Map Created in this Example</i>	33
<i>Overview Map Pane</i>	34
<i>Device Details Report</i>	34
<i>Web Browser Enhancements and Optimisations</i>	35

Appendices 36

<i>Appendix 1 – References</i>	36
<i>Appendix 2 – Glossary</i>	36

Acceptance and Release Notes 37

<i>Document History</i>	37
<i>Distribution</i>	38

* See appendix 1 references

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Spatial Support System - Help, Hints & Tips, Quick Reference

How to Get Help

During work hours contact Rodney Sales, Adon Metcalfe, Dale Smith, Wilson Cheung and Craig Carpenter. After-work hours please contact the rostered State ICT Coordinator through the State Duty Officer for assistance and support.

Hints & Tips

Q. Why is my web browser having problems running the SSS?

A. Make sure you have a compatible web browser by checking the login dialog.

Q. I cannot login?

A. If you are a DEC user you should be able to use your DEC login, if you have changed your DEC password recently you need to use the new password. If you are not a DEC employee you need to request a login, be approved for access and then agree to the terms and conditions of use and sign a document.

Q. When I pan around the map pane, why is it slow to move around?

A. You may have too many layers turned on, turn some off when you are moving around the map or drag the red square in the overview map pane.

Q. Why can't I see the tracking points?

A. These are not on by default. Load the default tracking points from the Maps / Views tab or go to resource tracking in the layers tab and turn on the resource layers you want.

Q. One of the live layers I have turned on is not working, it is pink and there is some strange error message. Why is this?

A. Live layers from FireWatch, BOM etc. are used by us from the BOM, Landgate etc. live source and they could be down. You can leave them turned on in the map pane and at refresh they may be restored or turn them off.

Q. I am a power GIS user, so how can I do some advanced mapping and data capture?

A. This mapping functionality is actually very advanced, future releases will have more advanced functionality, some of which already exists for administrators of the SSS. You can use your desktop GIS application.

Q. I cannot find a type of layer I am looking for, how do I know if it exists?

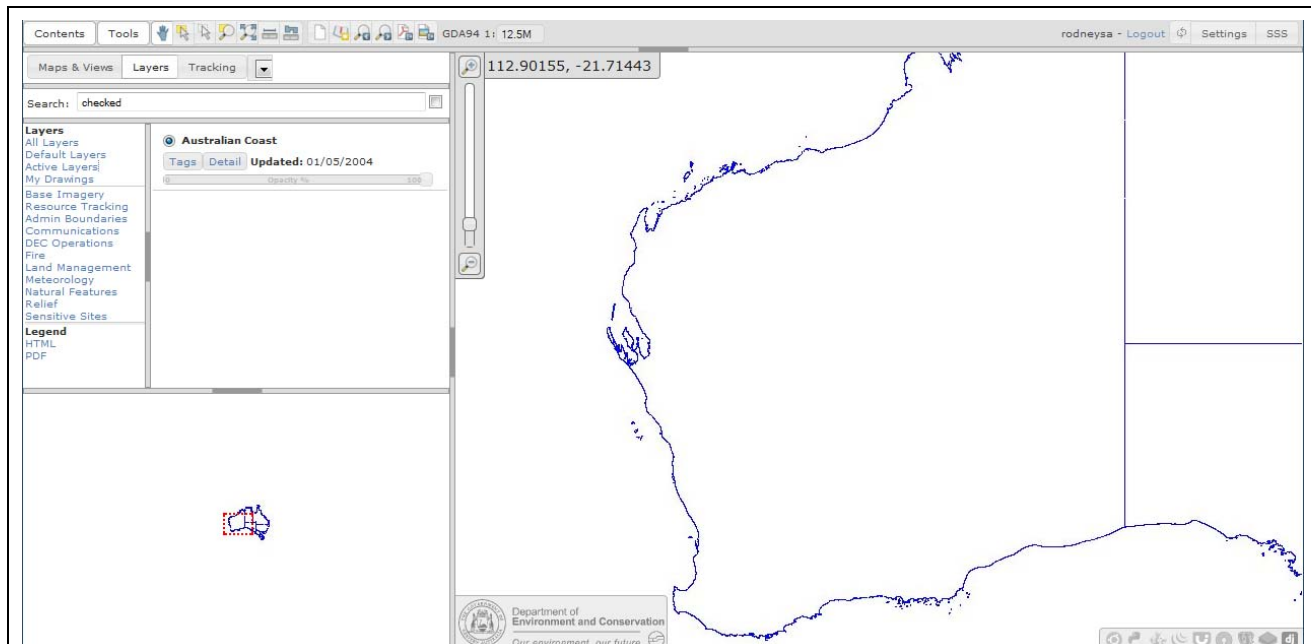
A. Use the search layer with some key words.

Q. How do I display the resource tracking layer?

A. Search for resources or use the Resource Tracking category to find them or load the default map view.

Quick Reference Sheet

Open a supported web browser (Internet Explorer with Chrome Frame) and use the URL <https://internal.fms.wa.gov.au/apps/sss>. Use your DEC login or for non-DEC users the personal login provided to you.



	Contents toggle button turns the contents pane off and on		Tools toggle button turns the toll menu off and on
	Maps / Views tab to display all saved maps and themes		Layer Selector tab to display all layers available


























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		Tracking tab to display all tracking resources		Search: <input data-bbox="774 172 852 197" type="text"/> <input data-bbox="858 172 879 197" type="checkbox"/>		Search in all tabs for Layers, Tracking resource devices and Maps / Views. Check box to select all.	
		Reload live layers including tracking. Updated: 28/10/2010 20:08 next to resource layer is the last tracking point received date and time				Zoom Tool	
		Open Settings pane used for settings refresh live layers and fade out element				Open the SSS information pane	
						Tool Bar in the top menu pane	
	Pan / Zoom tool			Select tracking resources tool			Deselect tracking resources tool
	Zoom to selected tracking resources tool			Zoom map pane to default zoom/extent view			Measure line tool
	Measure area tool			Drawing tool			Save view as map or theme tool
	Previous map zoom/extent view tool			Next map pane zoom/extent view tool			PDF quick map tool
	JPG quick map tool			Draw point tool			Draw line tool
	Draw polygon tool			Edit drawing tool			Delete drawing tool
	Save (close) edit layer tool						

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Overview

About the Spatial Support System

The Spatial Support System a web-based map viewing interface.

It combines map services from multiple sources to simplify user access to spatial data within a single interface. It also displays data for vehicles being tracking by DEC tracking devices, and contains functionality which allows the user to manage these devices within the system. It provides map making and drawing tools for basic map production.

Management of DEC Tracking Devices ^{*1}

The management of DEC Tracking Devices has been defined in a DEC Fire Operations Guide (FOG). The FOG is [FOG 66 - Management of DEC Tracking Units](#).

Who would use this application

The use of the map viewer is available to all DEC staff for spatial data viewing.

^{*2} People who would use the SSS but not limited to would be DEC Regional Services staff involved in remote field operations, State, Regional, District, Work Centre and National Park staff and Duty Officers, DEC Air desk, aviation management staff, and staff within Incident Management Team including operations, logistics, and resource management. Other agencies involved in joint operations including FESA and Police etc. Staff working in the Resource Management Unit within a DEC Incident Management Team.

Regional Services staff involved in remote field operations ^{*2}

This tool should be used to enhance your current OHS procedures that you currently have in place for staff working in the field. This system will provide you with the ability to see where your departmental vehicles are located. When you're unable to contact directly, this would provide you valuable information in finding them.

State, Regional, District, Work Centre and National Park Staff ^{*2}

Ability to view resource tracking will provide you with an additional source of situational awareness. Access to this information does not absolve the requirement to work within the existing AIIMS/ structure.

Duty Officers ^{*2}

This system will assist in:

- Initial dispatch by identifying closest resources
- Confirming locations of incoming resources
- Guiding vehicles to the fire or operations point
- Identifying the location of fires/hop overs, and tracking rates
- Recovery of unmanned resources e.g. overnight parked up loader
- Coordination of resources around the fire ground
- Will assist in management of non-DEC resources on the fire ground

DEC Air desk and aviation management staff ^{*2}

This system will assist in maintaining situational awareness and status of aircraft being used in fire management activities.

Incident Management Team ^{*2}

The system will assist the various roles within the Incident Management Team including planning, operations, logistics, and resource management.

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Other Agencies

The system will assist other agencies in joint emergency management operations with DEC. Agencies like FESA and WAPoL can be provided per user logins to the system. DEC Portable tracking devices can be used on their vehicles. All functionality and layers will be available except for vehicle details editing. A terms of use agreement is required for other agencies and support contractors to be given access to the system.

Resource Management ^{*2}

The hard copy and IRMS system will remain the primary tool for Resources during fire season. The new Spatial Support System will be used in addition to this to assist in identifying and checking vehicle locations.

Capture Tracking Devices & Vehicle ID information

Information on the tracking device and the vehicle it's fitted to will be provided to Resources via the Duty Officer (or nominated contact).

Resources unit will maintain the resource tracking database (entering required information and updating). They must capture missing information and are responsible for filing all forms. This is critical for allocation of portable tracking devices to vehicles. Instructions how to do this can be found in the SSS Install/Uninstall Device Form on the FMS website (<https://internal.fms.wa.gov.au/fire/spatial-support-system>) and from the SSS panel in the application.

Resource tracking database required information:

- Matching the tracking device to the associated vehicle using the registration number
- Entering information for any vehicles not yet registered in the database
- Missing information for any tracking device displayed without a vehicle identifier (truck number/call sign), must be sought from the Duty Officer (first), or from the Operations Officer.

Information provision & Record keeping:

- All information should be hard copy form
- All forms must be kept and filed
- Where the information has not been entered on a form, Resources must transfer the data onto the relevant form and place on file.

Capture Vehicle Location information

Resources will continue collecting vehicle location information using the existing Sector situation report (ICS 3.6).

The SSS resource tracking can be checked to ensure that the information from the Sector situation report aligns. Vehicle location information from the tracking devices will be displayed on a screen.

* See appendix 1 references

Using the Spatial Support System

Minimum Computer Requirements

The following requirements need to be adhered to in order to successfully use the SSS:

- Browser:
 - o Internet Explorer (7.0 or higher) **with Chrome Frame** OR
 - <http://code.google.com/chrome/chromeframe/>
 - o Mozilla Firefox (3.6 or higher) OR
 - <http://www.mozilla.com>
 - o Google Chrome (5.0 or higher)
 - <http://www.google.com/chrome>
- Internet Connection (3G minimum)

Connecting to the Application

Go to the Fire Management Services Spatial Support System Website Page at <https://internal.fms.wa.gov.au/fire/spatial-support-system> and click on the Spatial Support System link or go directly to the SSS from this link <https://internal.fms.wa.gov.au/apps/sss>.

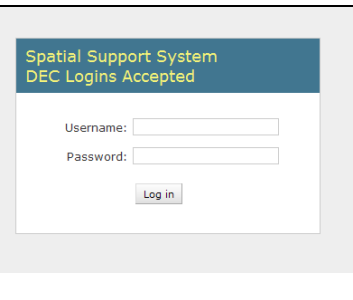
Login Form

The following form will display.

To enter the SSS, use your DEC login or the non-DEC individual user login provided.

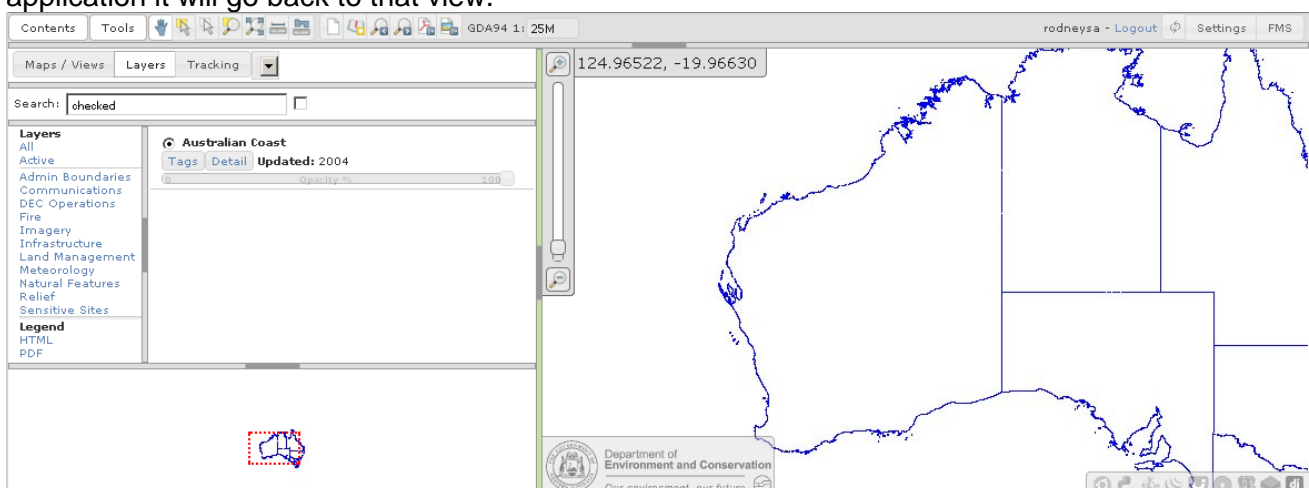
Using a DEC login enables users to update details of DEC Tracking Devices.

For members from other agencies that want to use this application please contact Rodney Sales, Craig Carpenter or Murray Mitchell.



Initial Map View

This is the initial map view which is loaded on entry into the SSS for the first time. This will change once you have used the application and come back to the same computer and same web browser. The last view you had when you left the browser will be remembered and when you re-enter the application it will go back to that view.



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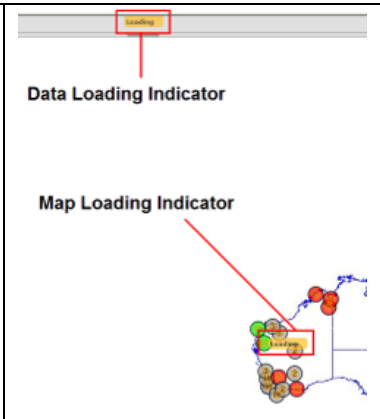
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Loading Indicators

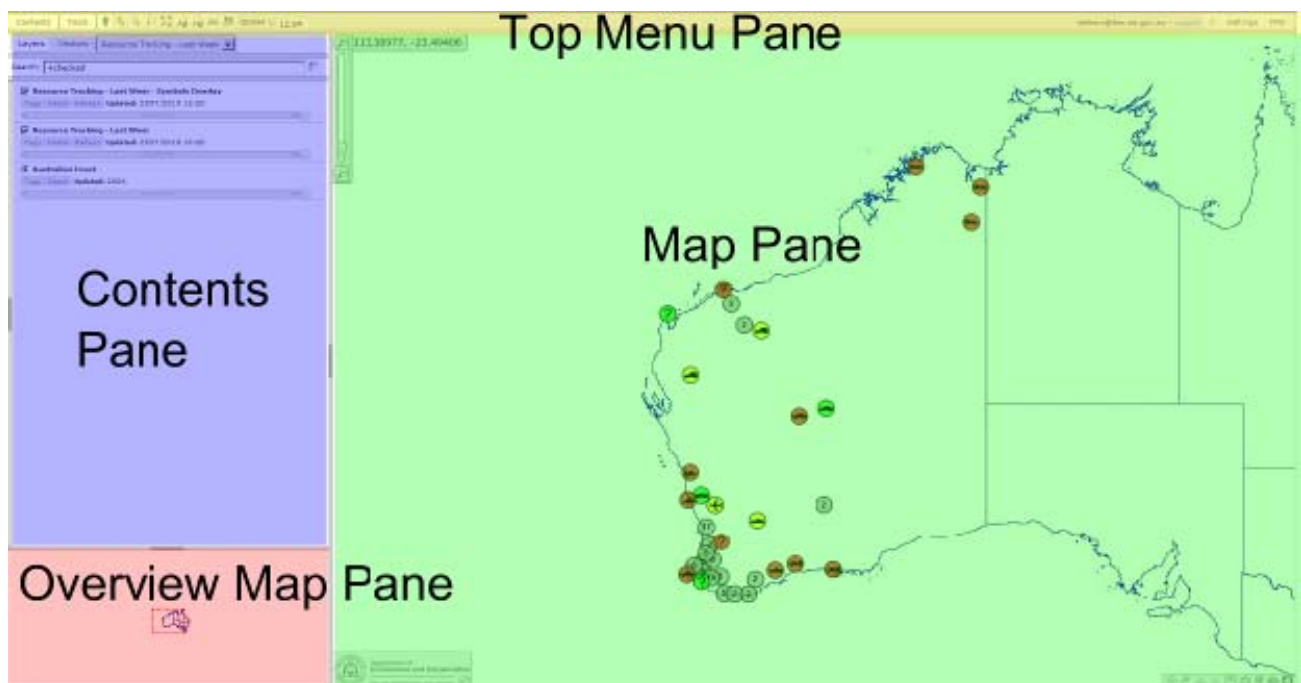
The Data Loading Indicator is the orange box at the top of the map pane in the top menu pane. This indicates that data is being transferred between the servers and the web browser. Some examples of this are the Resource Tracking Points, History Points and Resource Tracking Details and live layers like FireWatch hotspots and BoM layers etc.

The Map Loading Indicator is the orange box in the middle of the map pane. This indicates that layers are still being processed and drawn on the map pane.



Panes

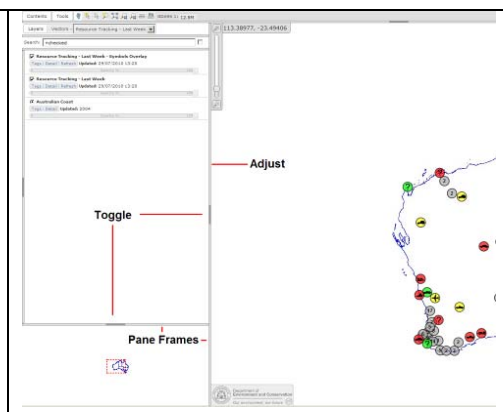
The SSS is split into a number of different panes.



With the exception of the Map Pane, all Panes can be open and closed using the grey toggle button in the centre of each Pane Frame.

The width and height of some panes can be adjusted by clicking and dragging the frame.

The Contents button can also be used to open and close the left contents pane and overview map pane.



Logout

The right hand side of the Top Menu Pane displays the user currently logged in and an associated logout link. When logging out it will clear your browser map pane



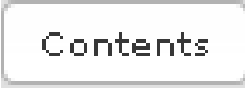
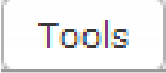






* See appendix 1 references

view setting and revert to the default on next login.

Map Tools

The Map Tools are located on the Top Menu Pane and are used to interact with the map



Button	Name	Function
	Contents button	Toggles the visibility of the Contents pane on and off
	Tools button	Toggles the visibility of the Map Tools and the Map Widgets. The Map Widgets are the items inside the map such as the Zoom Bar, Coordinates Bar and Logos. When the Map Tools are turned off, hovering over this button will temporarily show the Map Tools.
	Navigate map, pan / zoom tool	Enables panning within the map. Click and drag to move the map around. Hold left shift + click and drag to zoom in.
	Select tracking resources tool	Enables selecting of resource tracking features within the map. Click and drag to select resource tracking features. Selecting nothing will deselect all resource tracking features. Hold left shift + click and drag to add to selection.
	Deselect tracking resources tool	Deselects all resource tracking features.
	Zoom to selected resources tool	Zooms to the extent of the resource tracking features are selected.
	Zoom to default view	Zooms to the default extent / scale. Default scale is dependent on your screen resolution, and will zoom to an extent that fits the bounds of Western Australia into the Map Pane.
	Measure line tool	Enables line measuring on the map. Left click on map to create nodes. Double left click to finish. Hold left shift + hold left click to free draw. Distance is update on Top Menu pane as nodes are created.








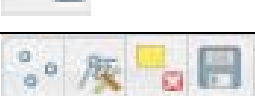
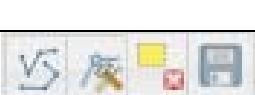
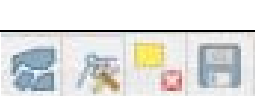

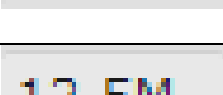
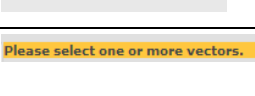
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Button	Name	Function
	Measure area tool	Enables area measuring on the map. Left click on map to create nodes. Double left click finish. Hold left shift + hold left click to free draw. Distance is update on Top Menu pane as nodes are created.
	Create Drawing tool	Opens the create a drawing dialog to create 3 layers (points and Text, Lines and Polygons) with the same layer name.
	Save view as map or theme tool	Click this button to open Create Map / Theme to save a map or theme in your maps /themes tab
	Previous pan / zoom view tool	Cycles through previous zoom/extents.
	Next pan / zoom view tool	Cycles forward through zoom/extents.
	PDF quick map tool	Create a quick PDF map of the current screen view
	JPG quick map tool	Create a quick JPG map of the current screen view
	Drawing points and text tool	When a point & text layer is edited the points drawing tools are displayed in the tool bar, They are: Draw Point, Edit Point, Delete Point and Save Point layer.
	Drawing lines tool	When a lines layer is edited the lines drawing tools are displayed in the tool bar. They are: Draw Line, Edit Line, Delete Line and Save Line layer.
	Drawing polygons tool	When a polygons layer is edited the polygons drawing tools are displayed in the tool bar. They are: Draw Polygon, Edit Polygon, Delete Polygon and Save Polygon layer.
	Geographic Coordinate System	Shows the Geographic Coordinate System used by the map.
	Scale	Shows the current scale of the map. Custom scales can be entered between 1K and 50M
	User Information Indicator	Displays hints and other information to the user regarding their activities. For example when running History with no devices selected it will display: Please select one or more vectors.

Map Widgets

Map Widgets are the objects inside		115.38988, -33.44738	The coordinate bar displays the latitude and longitude coordinates determined by the location
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the Map Pane. These include the Zoom Bar, Coordinates and Logos. Toggling the Map Tools off will also hide the Map Widgets.		of the cursor on the main map pane
		The Department of Environment and Conservation logo is displayed on the main map pane
		This logo shows the open source technologies that are used by the SSS application. These are Ubuntu, Python, Geoserver, J-Query, J-Query UI, Open Source, PostgreSQL, Openlayers, Django

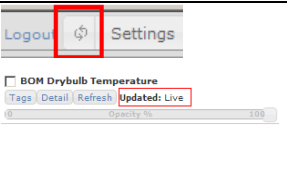
Zoom Bar

	The Zoom Bar is used to zoom in and out
	The Zoom Bar is mapped to the following pre-set scales: 50M 25M 12.5M 8M 4M 2M 1M 500K 200K 100K 50K 25K 10K 5K 2.5K 1K
	These pre-set scales used to improve performance, particularly with caching of the layers
	Click the  to zoom in one extent
	Click the  to zoom out one extent
	You can also click and drag the button  to change the scale or click anywhere within the Zoom Bar to zoom to the selected scale

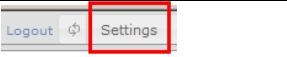
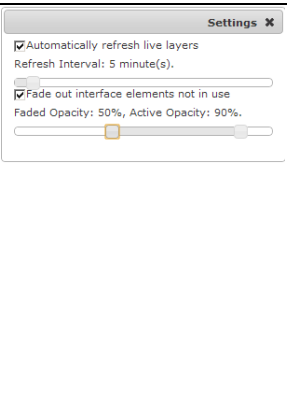
Hover Details Popup

<p>Hovering over a single resource tracking device on the map will show the details in a popup.</p> <p>This only works for the top most resource tracking layer.</p>	
--	---

Refresh Button

<p>Located on the right hand side of the Top Menu Pane, the Refresh Button is used to refresh the data for all "Live" layers. This includes, but is not limited to, Resource Tracking Points, BOM Drybulb Temperature etc. You can tell if a layer is "live" by looking at the Updated value in the Contents Layer List.</p>	
--	---

Settings Pane

The Settings Button opens up the Settings Pane.	
<p>The Settings Pane controls the auto refresh timer for tracking resources and live layers and the opacity of interface elements.</p> <p>Use the slider bar to adjust how often the "live" layers are updated. By default auto refresh is turned on and set to 5 minutes. We recommend leaving it at 5 minutes.</p> <p>The fade out effect is applied to different elements around the map including the Map Widgets. The slider bar can be used to adjust both the Faded and Active Opacities. Faded is when your mouse is not within the boundary of the element. For example, if Faded Opacity is set to 50%, the element will become 50% opaque when the mouse is not within the boundaries of the element. Active is when your mouse is within the</p>	

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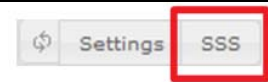
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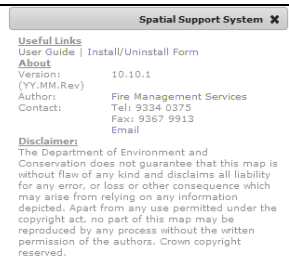
boundary of the element. For example, if Active Opacity is set to 90%, the element will become 90% opaque when the mouse is within the boundaries of the element.

FMS Pane

The FMS Button opens up an FMS Information Pane.



The FMS Information pane contains links to the Fire Management Services website, User Guide, Device Installation forms and also has an email link there for suggestions, issues etc. The disclaimer is also found on the FMS Information pane.

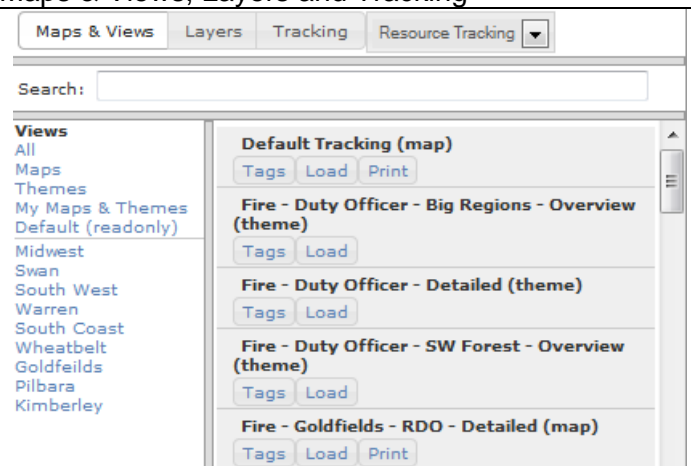


Contents Pane

The Contents Pane is split into three sections: Maps & Views, Layers and Tracking

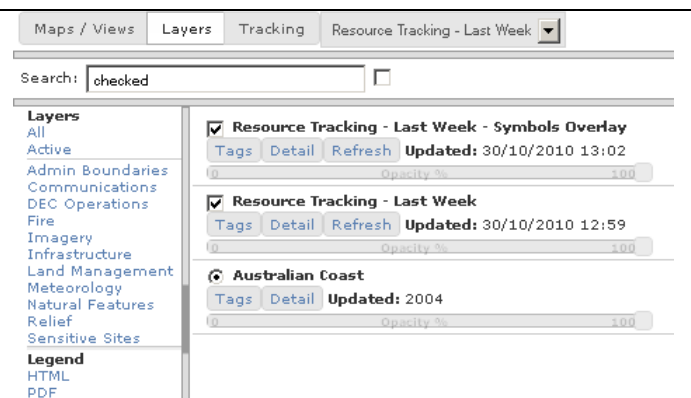
Maps & Views Tab

- Search for maps and themes
 - Text Searches
 - Predefined Searches
- Load maps and themes
- Go to link page for maps to generate PDF and JPG maps
- View Tags used for Searching



Layers Tab

- Search for layers
 - Text Searches
 - Predefined Searches
- Toggle layers on and off via checkbox for vector layers and radio button for imagery layers.
- Layer List
- Layer Details
- Single Layer Refreshes
- View Tags used for Searching
- Produce a legend for active layers



* See appendix 1 references

Document Name:

https://confluence.dec.wa.gov.au/plugins/servlet/confluence/editinword/1376379/attachments/FMS_SpatialSupportSystem_Userguide.doc

Author: Various, Created Date: 25/10/2009

Updated by: Rodney Sales, Date Updated: 20/02/2011

Tracking Tab

- Search for Devices
 - Text Searches
 - Predefined Searches
- Select Devices via checkbox
- View/Edit Devices Details
 - Symbol (Vehicle Type)
 - Call Sign
 - Display Name
 - Fleet Association
- Tags are used by the search
- View History of a Device
 - Predefined Timeframes
 - Specify Timeframes

Maps & Views
Layers
Tracking
Resource Tracking

Search:

Vectors
☒ All
☐ Selected
 Communications Bus
 Gang Truck
 Heavy Duty
 GT and HD
 Light Unit
 All Plant
 Dozer
 Grader
 Loader
 Float
 All Aviation
 Fixed Wing Aviation
 Rorary Aviation

☐ **GT89 - Swan Coastal - 1QBE327 - Gang truck**
 Tags Detail Edit Updated: 20/02/2011 12:16

☐ **P1 - SWAN COASTAL - 1QB0570 - Loader**
 Tags Detail Edit Updated: 20/02/2011 12:15

☐ **HD135 - Swan Coastal - 1QBE324 - Heavy duty**
 Tags Detail Edit Updated: 20/02/2011 12:14

☐ **HD130 - Swan Coastal - 1QBE147 - Heavy duty**
 Tags Detail Edit Updated: 20/02/2011 12:14

☐ **HD142 - Swan Coastal - 1QBG822 - Heavy duty**
 Tags Detail Edit Updated: 20/02/2011 12:11

☐ **GT86 - Swan Coastal - 1QBE140 - Gang truck**
 Tags Detail Edit Updated: 20/02/2011 12:02

History
 Last Hour
 Last 3 Hours
 Last Day
 Last Week
 Last Month

Date From:
Date To:

Note: History is retrieved only for selected vectors

Maps & Views Tab

The maps & views tab allows you to use default maps and themes that have been setup and create your own favourite maps and themes.

From created maps is where you can produce PDF and JPG maps that can be saved.

A map is a view including selected layers and the zoom extent. A theme is the selected layers only. If a map is loaded the layers are turned on that were saved and the map zoomed and panned to the saved location on the map pane. If a theme is loaded the layers are turned on that were saved for the current zoom extent and location on the map pane.

Maps and Themes List

There is a dynamic search, maps and themes categories on the left for quick searches and the main maps and themes list where maps and themes are selected to be loaded. Tags can be displayed and maps with a link button can have PDF and JPG maps made from them in different sizes and orientations. At the moment A3 portrait and landscape are the only ones available.

Maps & Views
Layers
Tracking
Resource Tracking

Search:

Views
☒ All
☐ Maps
☐ Themes
☐ My Maps & Themes
☐ Default (readonly)
 Midwest
 Swan
 South West
 Warren
 South Coast
 Wheatbelt
 Goldfields
 Pilbara
 Kimberley

Default Tracking (map)
 Tags Load Print

Fire - Duty Officer - Big Regions - Overview (theme)
 Tags Load

Fire - Duty Officer - Detailed (theme)
 Tags Load

Fire - Duty Officer - SW Forest - Overview (theme)
 Tags Load

Fire - Goldfields - RDO - Detailed (map)
 Tags Load Print

* See appendix 1 references

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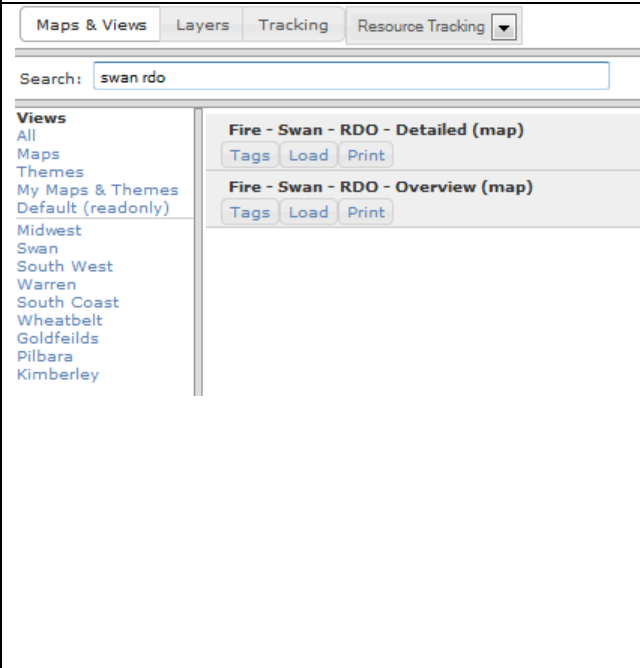
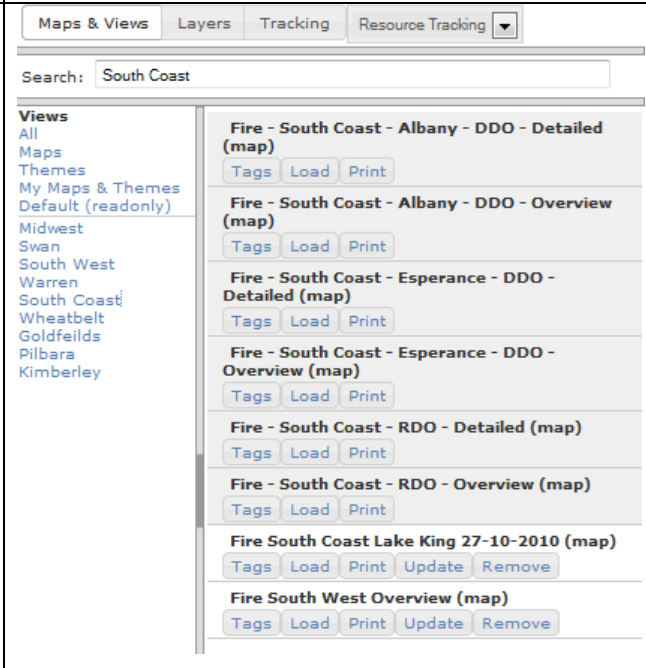
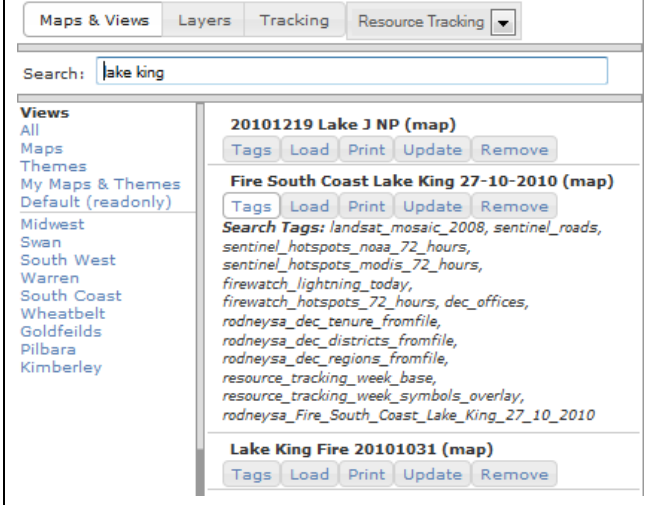
Author: Various, Created Date: 25/10/2009

Updated by: Rodney Sales, Date Updated: 20/02/2011



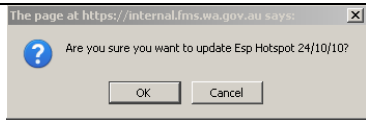
Page 15 of 38

Searching Maps and Themes

Users can search maps and themes by either typing a search query into the search box or using the predefined searches in the category list to the left. Using search filters the map and theme list to match the search query.

Text Based Search	Predefined Search
	
<p>The text in the Search Box is compared against the maps and themes tags in the predefined searches</p>	

Creating Your Own Maps and Themes

<p>Using the save view as map or theme button  to open up the dialog, enter a name in the Create Map or Create Theme test box and hit the appropriate create button.</p>	
<p>If you enter the exact name of an existing map or theme this will replace it but will warn you first of you want to update it.</p>	

* See appendix 1 references

Document Name:

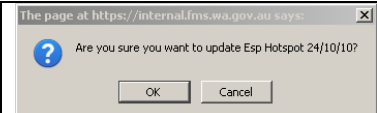
https://confluence.dec.wa.gov.au/plugins/servlet/confluence/editinword/1376379/attachments/FMS_SpatialSupportSystem_Userguide.doc

Author: Various, Created Date: 25/10/2009

Updated by: Rodney Sales, Date Updated: 20/02/2011

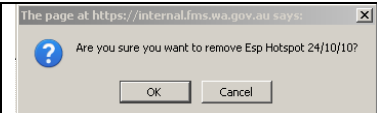
Updating Your Own Maps and Themes

You can update your existing maps and themes by re-creating them with the same name as above or using the update button. Change your map pane view and/or layers and click the update button **Update** on the map or view you want to update. You will get a dialog to confirm and allow you to check before updating.



Removing Your Own Maps and Themes

You can remove your existing maps and themes by using the remove button. You will get a dialog to confirm and allow you to check before removing.



Load a Map or Theme in the Map Pane

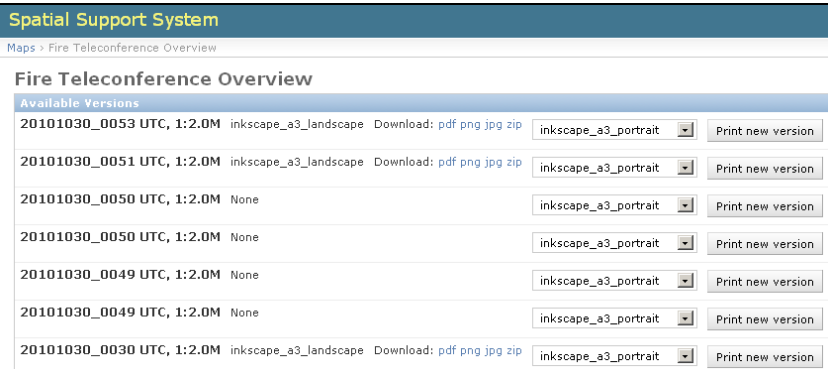
To load your map or theme into the map pane click the load button **Load**.

Producing a Map from a Map View

To produce a map from your current map view click the print button **Print**. You should load your map first into the map pane. A new tab in your web browser will open up.

This will display all your versions of the map and updates that you have done and a map production.

You can create new maps and open old maps from this tab.



Maps Web Browser Tab for Map Production

Once you have clicked the link button you will open a new tab in your web browser.

Producing a New Map from a Map View

To produce a map select a map orientation and size from the drop down, then click the Print new version button **Print new version**.



* See appendix 1 references

Document Name:

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Updated by: Rodney Sales, Date Updated: 20/02/2011

Map layers will be displayed and will go green once retrieved and generated.

Fire Teleconference Overview

Producing pdf with template inkscape_a3_landscape ...

Layers	
dec_australian_coast	Retrieving...
sentinel_roads	Retrieving...
bom_wind	bom_wind.png
sentinel_hotspots_modis_72_hours	sentinel_hotspots_modis_72_hours.png
firewatch_lightning_today	Retrieving...
firewatch_hotspots_72_hours	Retrieving...
dec_offices	Retrieving...
bom_drybulb_temperature	Retrieving...
rodneysa_dec_tenure_fromfile	Retrieving...
rodneysa_dec_regions_fromfile	Retrieving...
rodneysa_dec_districts_fromfile	Retrieving...
resource_tracking_week_base	Retrieving...

When all layers have been received and generated they will be all green and PDF or JPG will be being generated to be displayed

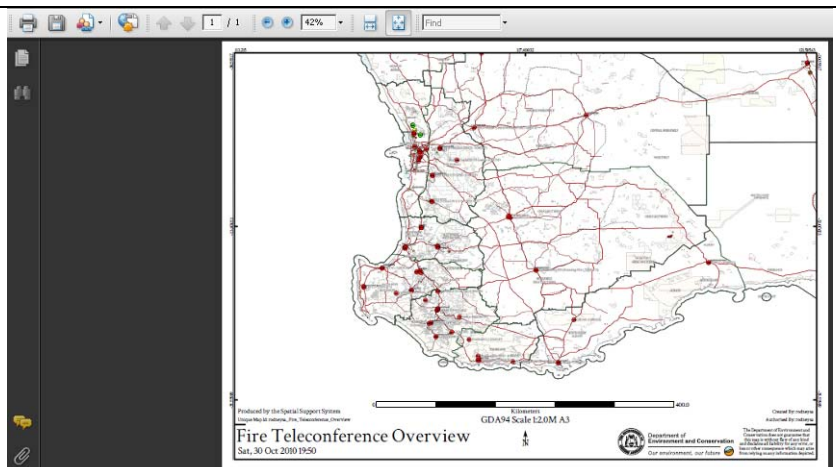
Fire Teleconference Overview

Producing pdf with template inkscape_a3_landscape ...

Layers	
dec_australian_coast	dec_australian_coast.jpg
sentinel_roads	sentinel_roads.png
bom_wind	bom_wind.png
sentinel_hotspots_modis_72_hours	sentinel_hotspots_modis_72_hours.png
firewatch_lightning_today	firewatch_lightning_today.png
firewatch_hotspots_72_hours	firewatch_hotspots_72_hours.png
dec_offices	dec_offices.png
bom_drybulb_temperature	bom_drybulb_temperature.png
rodneysa_dec_tenure_fromfile	rodneysa_dec_tenure_fromfile.png
rodneysa_dec_regions_fromfile	rodneysa_dec_regions_fromfile.png
rodneysa_dec_districts_fromfile	rodneysa_dec_districts_fromfile.png
resource_tracking_week_base	rodneysa_resource_tracking_week_20101030_1106.png

PDF generated and opened. JPG, PNG and a zip of all layers and maps will be generated and can be accessed back from the map view via the link button.

Maps can be saved or the address can be emailed for others to open who have a login to the SSS application.



Finding and displaying old Maps from a Map View

Old maps are kept and can be printed in multiple formats.

* See appendix 1 references

Document Name:

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Author: Various, Created Date: 25/10/2009

Updated by: Rodney Sales, Date Updated: 20/02/2011

To print an old map from your current map view click the print button [Print](#). A new tab in your web browser will open up.

This will display all your versions of the map and updates that you have done and a map production.

You can display old PDF, PNG, JPG maps or download a zip of all maps and layers.

Click the links to open the map file you want.

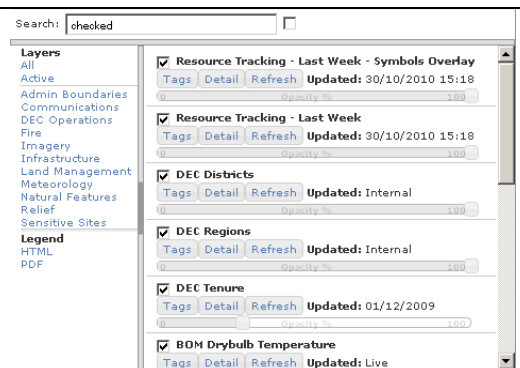
Spatial Support System				
Maps > Fire Teleconference Overview				
Fire Teleconference Overview				
Available Versions				
20101030_0053 UTC, 1:2.0M	inkscape_a3_landscape	Download: pdf png jpg zip	inkscape_a3_portrait	Print new version
20101030_0051 UTC, 1:2.0M	inkscape_a3_landscape	Download: pdf png jpg zip	inkscape_a3_portrait	Print new version
20101030_0050 UTC, 1:2.0M	None		inkscape_a3_portrait	Print new version
20101030_0050 UTC, 1:2.0M	None		inkscape_a3_portrait	Print new version
20101030_0049 UTC, 1:2.0M	None		inkscape_a3_portrait	Print new version
20101030_0049 UTC, 1:2.0M	None		inkscape_a3_portrait	Print new version
20101030_0030 UTC, 1:2.0M	inkscape_a3_landscape	Download: pdf png jpg zip	inkscape_a3_portrait	Print new version

Layers Tab

Layers List

The layers list is where users interact with the map layers. There is a dynamic search, layers categories on the left for quick searches and the main layer list where layers are selected to be turned on or off. Tags and details can be displayed, live layers can be refreshed at the individual layer level. Layers you have drawn with the drawing tools can be edited. Under the categories are the linked to create a PDF or HTML legend of the layers that are turned on.

The list of layers are added to and updated including the quick searches and the order of layer display on a regular basis.



Using Layers with performance in mind

How you interact with the layers of the map plays an important part in performance and overall experience. The following tips are designed to help improve your experience.

1. Reduce number of active layers. Activating a large amount of layers will increase the amount of time to finishing rendering the map. This will be especially true for users with limited internet bandwidth available. If image rendering is slow try deactivating some layers.
2. Activate layers as needed. Only activating layers as you need them can help improve performance.
3. Internet Connectivity. Your internet speed and bandwidth is going to affect the performance of loading layers. If you are using a slow internet connection only ever activate a few layers at a time.
4. Local Caching. Local caching is great way to increase performance. Please refer to the Web Browser Enhancements and Optimizations chapter in the guide for an explanation and how to setup caching.
5. Moving Around the Map. When moving around the map it may be beneficial to turn off some of layers. This will be most useful when moving over large distances or changing zoom extents using the map overview pane can help.

* See appendix 1 references

Document Name:

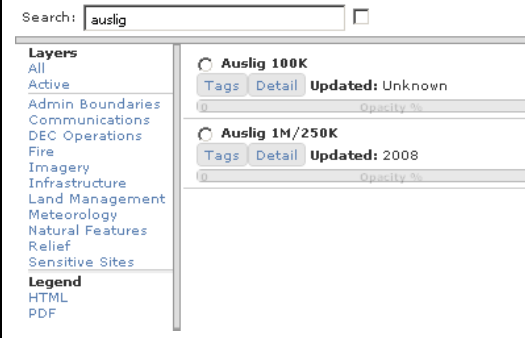


https://confluence.dec.wa.gov.au/plugins/servlet/confluence/editinword/1376379/attachments/FMS_SpatialSupportSystem_Userguide.doc

Author: Various, Created Date: 25/10/2009

Updated by: Rodney Sales, Date Updated: 20/02/2011

Searching Layers



Users can search layers by either typing a search query into the search box or using the predefined searches in the category list to the left. Using search filters the layer list to match the search query.

Text Based Search	Predefined Search
	
<p>The text in the Search Box is compared against the Layers tags in the predefined searches</p>	

Toggle Layer Visibility

The check box next to each layer is used to toggle the visibility of a layer.

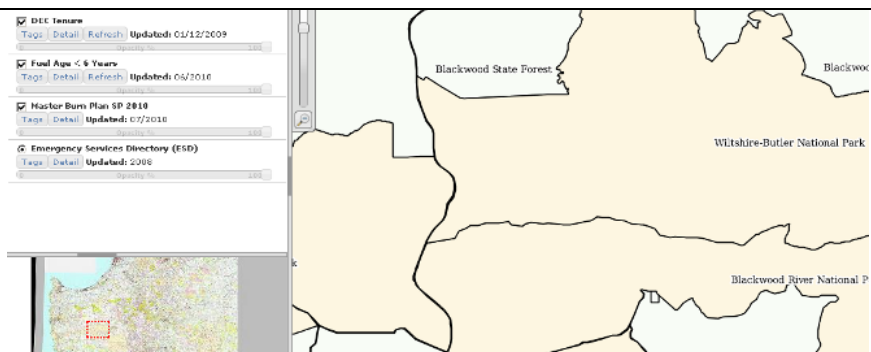
The check box next to Search Box is used to toggle all the layers currently in the Layers List.

Before	After
	

Layer Opacity

Users can change the opacity of individual layers, including imagery.

Each layer has a slider bar which can be clicked and dragged to the required value.



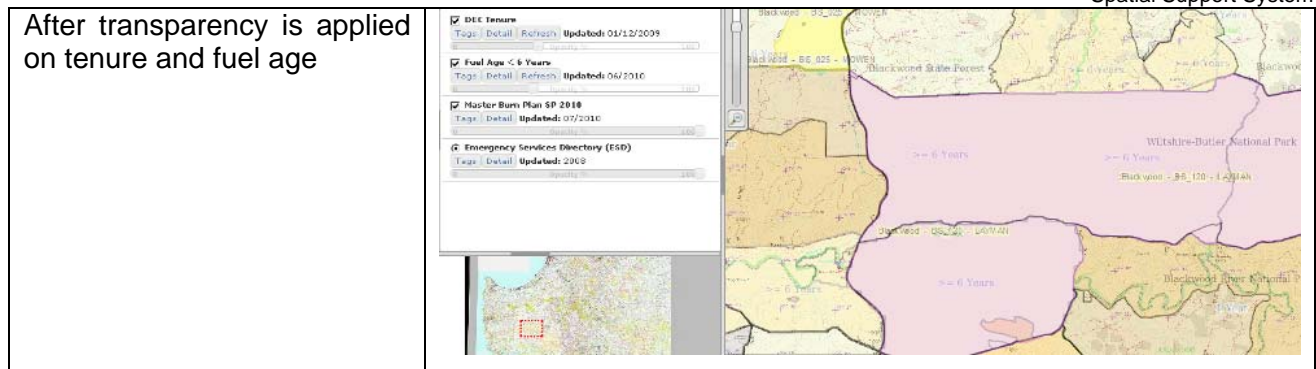
* See appendix 1 references

Document Name:

https://confluence.dec.wa.gov.au/plugins/servlet/confluence/editinword/1376379/attachments/FMS_SpatialSupportSystem_Userguide.doc

Author: Various, Created Date: 25/10/2009

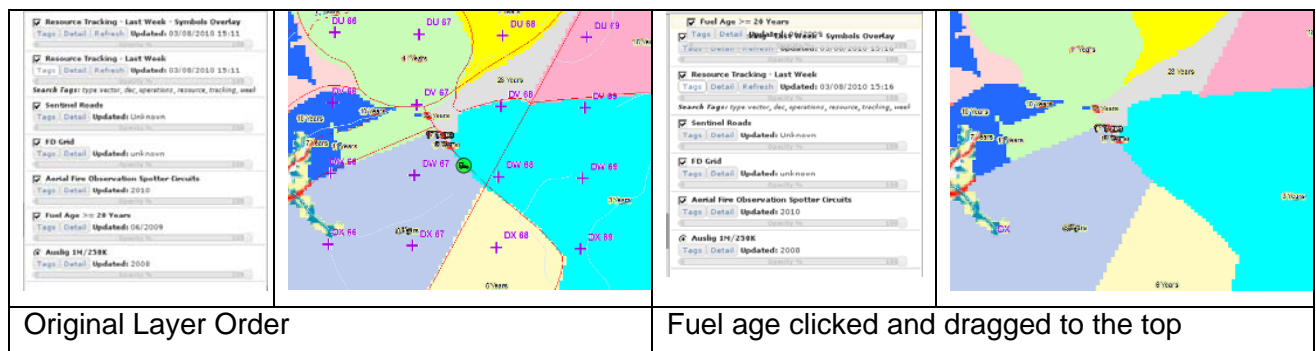
Updated by: Rodney Sales, Date Updated: 20/02/2011



Change Layer Order

Users can now change the order of layers in the Layers List. This changes the order of the layers on map pane. The only exception is imagery is always under everything.

To change the order of a layer click and drag it up or down the list. An orange highlight will appear where the layer can be dropped.

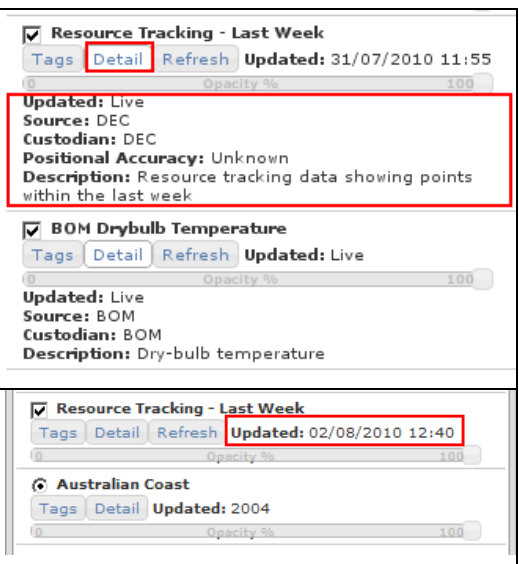


Layer Details

To view the details of a layer, click on the Detail Button for the specific layer.

The information available will differ depending on the layer.

The Resource Tracking layer displays the date and time of the last point received.



Single Layer Refresh

You can individually refresh "live" layers by clicking the Refresh button for the specific layer.



* See appendix 1 references

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Tags

Tags are used by the search query. Layer tags are not editable by users.

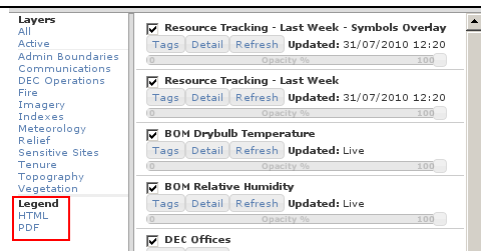


Legend

Users can produce a legend for the active (currently toggled on) layers.

Clicking on the HTML link produces the legend in a new web page.

Clicking on the PDF link produces the PDF version of the legend in a new web page.



DEC Regions
Updated: Internal
Source: DEC CDDP
Custodian: DEC
Description: DEC Regions

DEC Tenure
Updated: 01/12/2009
Source: DEC CDDP
Custodian: DEC
Positional Accuracy: +/- 3m
Description: DEC Managed Lands and Values within WA derived from the Spatial Cadastral Database (SCDB)

DEC Regions	
-------------	--

DEC Estate (statewide)

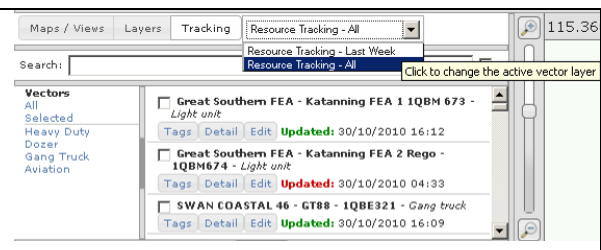
5(1)(g) Reserve	Marine Nature Reserve
5(1)(h) Reserve	Marine Park
CALM Exec Body	Miscellaneous Reserve
CALM Exec Body Freehold	National Park
Conservation Park	Nature Reserve
Former Leasehold	State Forest
Marine Management Area	Timber Reserve

Tracking Tab

Resource Tracking Device Selector

The resource tracking device Selector is used to determine which tracking device vector layer is going to be used to interact with.

For example, using the "Resource Tracking – Last Week" layer will populate the vectors list and also enables the Select Tool to be used on the Resource Tracking - Last Week layer.



Understanding Tracking Resources

Tracking resources are the GPS location of DEC tracking devices attached to various vehicles throughout DEC.

* See appendix 1 references

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Updated by: Rodney Sales, Date Updated: 20/02/2011

When a tracking device first starts sending GPS data, by default the only information displayed is where the device is (the location of the point on the map) and how long it has been since that point was received (the colour of the point).

However there are options to enrich the information around the resource through the editing. This is covered in further detail later in this guide.

Search for Resource Tracking Devices

Searching resource tracking devices is different to searching layers because users can search using a key and value or just a word.

An example of a key and value is:

Query: district:donnelly symbol:device_gang_truck

Meaning: Find all devices with the district as Donnelly **AND** symbol as a gang truck.

Where the keys are district and symbol and the values are Donnelly and device_gang_truck.



Searching and Tags go hand in hand. Tags will determine the effectiveness of your searches.

Please see the Tags chapter for the best practice when tagging devices.

Select Resource Tracking Devices

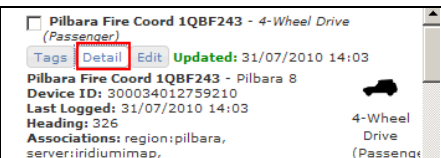
The checkbox next to each device is used to toggle the selection.

The checkbox next to Search Box is used to toggle the selection for all resource tracking devices currently in the Devices List.

View Resource Tracking Device Details

To view resource tracking devices details click on the Details Button for the specific device.

The information available will differ depending on the layer.



Edit Resource Tracking Device Details

To edit a resource tracking device click on the Edit Button. There are 5 fields which can be edited.

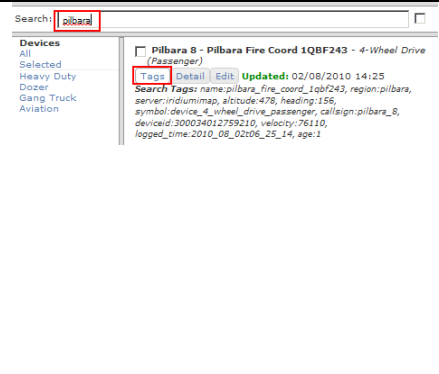
Field	Description
Name	Recommend a format along the lines of "HD43 - 1QAS427"
Callsign	The callsign of the vehicle e.g. "Donnelly 48"

* See appendix 1 references

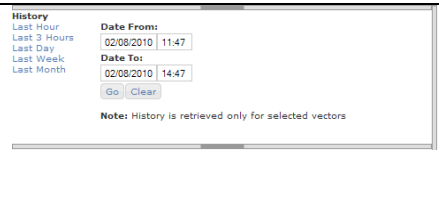
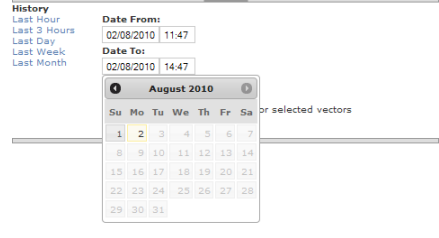
Symbol	The type of vehicle e.g. Heavy Duty
Vehicle	Links the resource tracking device with a fleet vehicle. Type at least 4 characters or numbers to search fleet. Searches on registration, make and model.
Tags	Tags are used by the search query. Recommend using key and value e.g. district:wellington

Button	Description
Save your changes	Saves any changes made to the device.
Discard your changes	Discards any changes made to the devices details.
Clear Details	Removes all details from a device. Symbol is set to "Other"

Resource Tracking Device Tags

<p>Resource tracking device tags are used by the search query.</p> <p>Tagging is an important part of a device. The format of the tag determines the effectiveness of searching. Tags are generated from the device's details and the tag field. Users can add their own tags in the tag field. A tag can be a key and value or just a word.</p> <p>An example of a key and value would be district. Entering "district:wellington" into the tag field enables all wellington devices to be located.</p> <p>Using just words to tag a device is not as powerful as using a key and value.</p>	
---	--

View History of a Resource Tracking Device

<p>The History Pane is used to produce history for selected resource tracking devices.</p> <p>First select the device(s) you are interested in. This can be done by either selecting the devices on the Map Pane with the select tool or using the checkbox in the Contents Pane.</p>	
<p>You then define a timeframe by either clicking on one of the predefined times or by editing the date and time. By default the history timeframe is set to 1 hour. Clicking on the date field will bring up a calendar. The time field uses 24 hour time which is separated by a colon e.g. 18:36</p>	

* See appendix 1 references

Clicking the Go Button will produce history on the map for the selected devices.

History Points are coloured the same as resource points:

Green – Within Last Hour

Yellow – Between 1 and 3 hours.

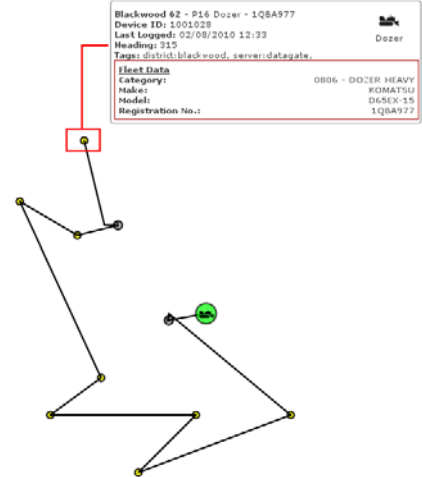
Red – Old than 3 hours

History Points cluster if one more history points are close together.

Hovering over single history points will display the details for that history point (Does not work in Firefox).


To remove the history points off the Map Pane, hit the Clear Button.

Clicking the Go Button will also remove the current set of History Points and replace them.



Drawing on the Map Pane

Create a Drawing

The create drawing tool  will open a dialog to create 3 empty drawing layers of the same name. It will generate a point and text layer, line layer and a polygon layer. A search will be generated in the address bar and the web browser will activate the 3 drawing layers and display all active layers in the layer list.

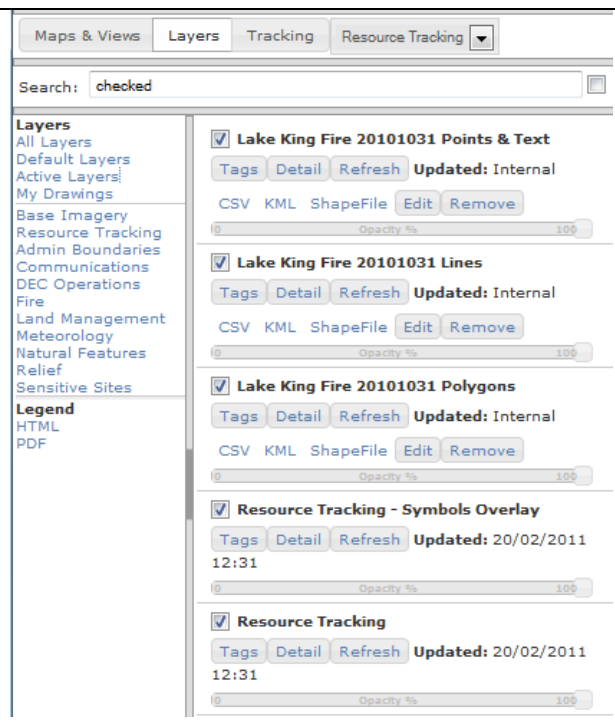


View Drawing Layers

Select all your newly created drawing layers. As with all layers you can view the tags and details and refresh individual layers. The edit and remove buttons are available for your new drawing layers.

All layers that you have turned on will be displayed. **Please Note:** This is an opportunity to turn off layers that will get in the way while you are drawing and layers not need to do the drawing. Only leave on the reference layers that you need as the map pane needs to refresh when drawing and all layers that are turned on will also refresh.

We would recommend you make a map view of all layers and your new drawing layers first before preparing for drawing.



* See appendix 1 references


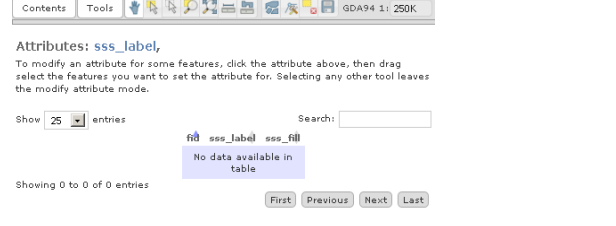

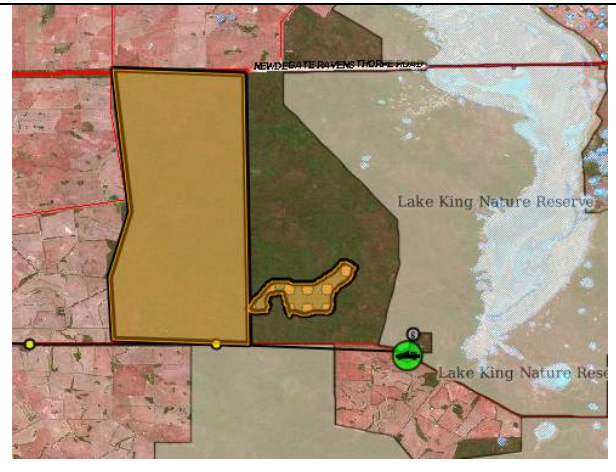

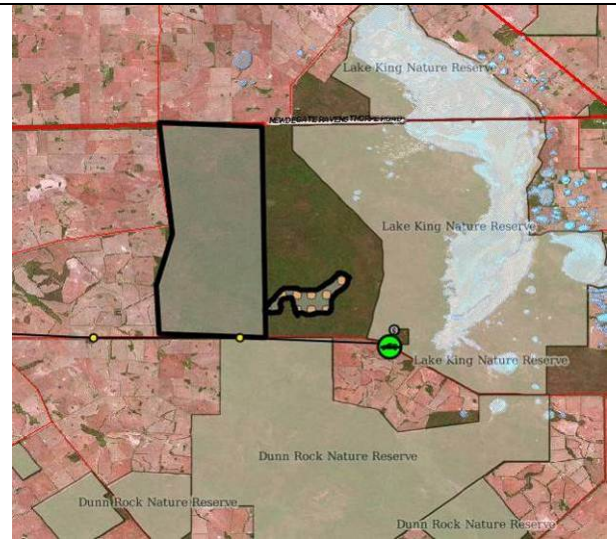



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Author: Various, Created Date: 25/10/2009

Updated by: Rodney Sales, Date Updated: 20/02/2011

Draw Polygon Layer

<p>To create polygons on the map pane you need to go into edit mode for the layer. On the polygon layer created for you click the edit button . The contents pane will be replaced with the layer attribute table and a new polygon drawing tool bar will be displayed.</p>	
<p>To draw a polygon, the draw polygon button  should be turned on when you first edit the polygon drawing. Use your mouse to draw on the map pane. Click the left mouse button to put points to join the line and double click to finish and close your polygon. You can use the shift to draw constant points to get a smooth curve.</p>	
<p>You need to save your drawings. Click the save button . You can always go back to polygon drawing and add more. Your drawings are saved as you go so you can continue. The save is an exit edit mode button.</p>	
<p>You can delete polygons. To do this click the edit polygon button  and click the polygon you want to delete then click the delete tool button  and the polygon will disappear.</p> <p>This is sometimes easier than trying to edit a polygon especially if it is made from many point dots.</p>	


* See appendix 1 references

Document Name:


https://confluence.dec.wa.gov.au/plugins/servlet/confluence/editinword/1376379/attachments/FMS_SpatialSupportSystem_Userguide.doc

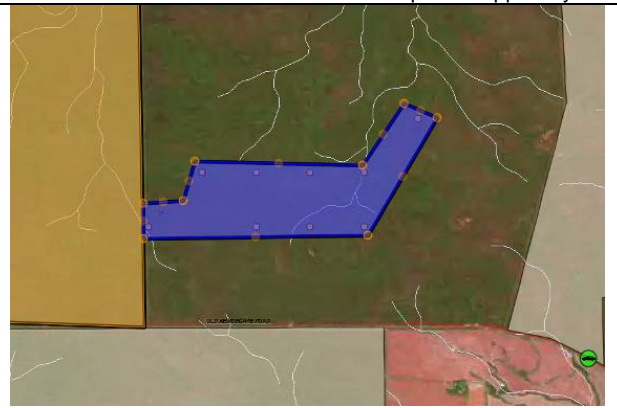
Author: Various, Created Date: 25/10/2009

Updated by: Rodney Sales, Date Updated: 20/02/2011

You can edit a polygon once drawn. Click the edit polygon button  and click the polygon you want to edit. Drag the little orange point dots around. Click off the polygon on the map pane when finished editing. The changes will redraw.


You can redraw the polygon and this is sometimes easier if you have a complicated polygon that needs lots of changes.

It is best to zoom into the area you want to edit using the Pan / Zoom tool by clicking  before going into edit mode.



To label your polygon you can do this for each polygon or use the points and text layer to place labels on the map pane.

Click the edit polygon button  and select the sss_label attribute Attributes: `sss_label`, and then select the polygon you want to label by clicking on it. The dialog to label the polygon will pop up.

Once completed labeling click the save button  to exit editing.

If the polygon is small you may need to zoom in to see the label.

Putting text labels on the map pane is detailed below in Drawing Point and Text Layer.




* See appendix 1 references

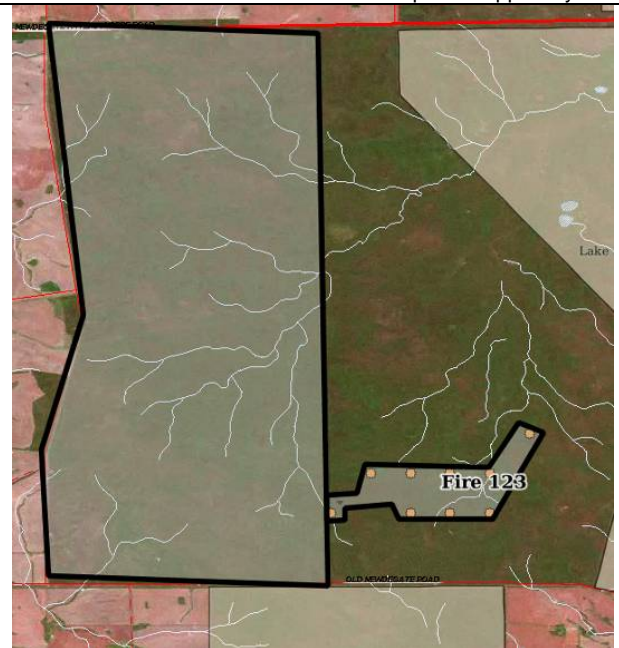
Document Name:

https://confluence.dec.wa.gov.au/plugins/servlet/confluence/editinword/1376379/attachments/FMS_SpatialSupportSystem_Userguide.doc

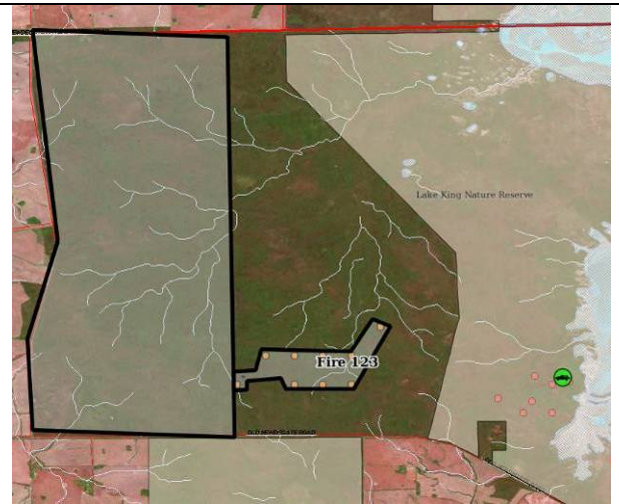
Author: Various, Created Date: 25/10/2009

Updated by: Rodney Sales, Date Updated: 20/02/2011


Remember to click the save button  at the end to exit editing mode. Your edits are saved as you go however.

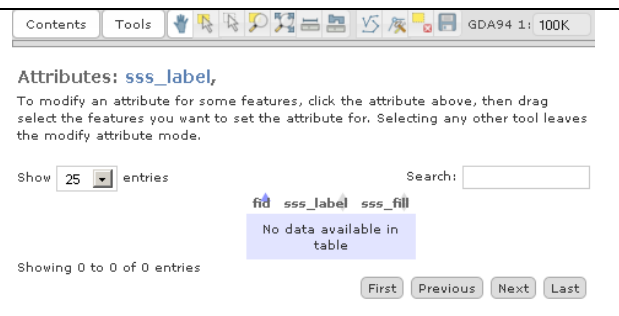


New live data can come in while making a map and drawing. The vehicle has moved and some new hotspots from FireWatch have shown up in this example.



Draw Line Layer

To create lines on the map pane you need to go into edit mode for the line layer. On the lines layer created for you click the edit button . The contents pane will be replaced with the layer attribute table and a new line drawing tool bar will be displayed in the tool menu pane.




* See appendix 1 references

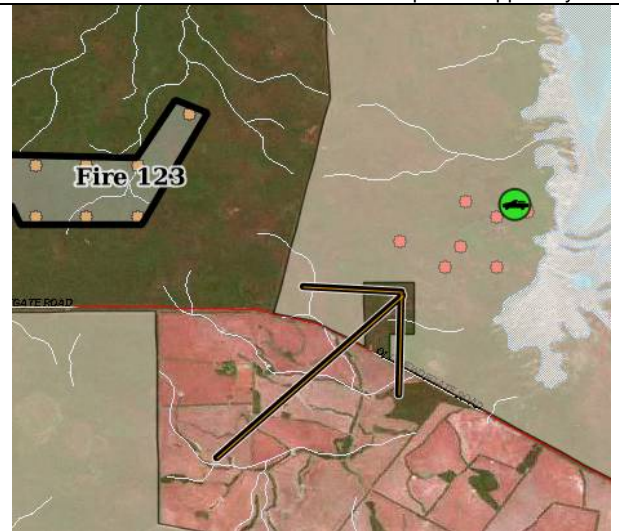
Document Name:


https://confluence.dec.wa.gov.au/plugins/servlet/confluence/editinword/1376379/attachments/FMS_SpatialSupportSystem_Userguide.doc

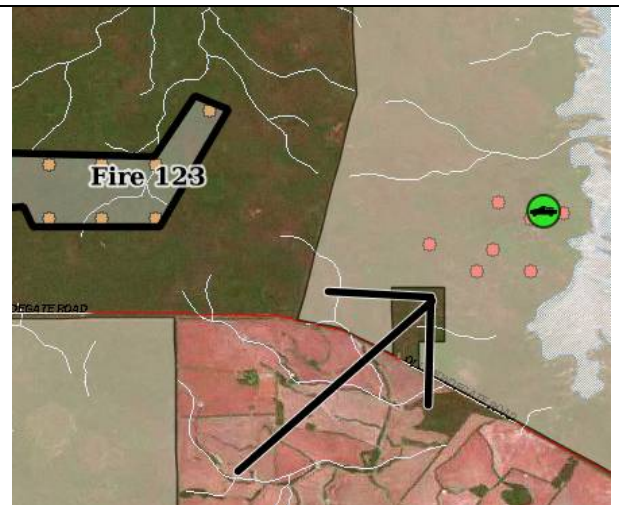
Author: Various, Created Date: 25/10/2009



Updated by: Rodney Sales, Date Updated: 20/02/2011

To draw a line, the draw line button  should be turned on when you first edit the line drawing. Use your mouse to draw on the map pane. Click the left mouse button to put points to join the line and double click to finish. You can use the shift to draw constant points to get a smooth curve.



You need to save your drawings. Click the save button . You can always go back to line drawing and add more. Your drawings are saved as you go so you can continue. The save is and exit edit mode.



You can delete lines. To do this click the edit line button  and click the line you want to delete then click the delete tool button  and the line will disappear.

This is sometimes easier than trying to edit a line especially if it is made from many point dots and you have lots of changes to make.




* See appendix 1 references

Document Name:


https://confluence.dec.wa.gov.au/plugins/servlet/confluence/editinword/1376379/attachments/FMS_SpatialSupportSystem_Userguide.doc

Author: Various, Created Date: 25/10/2009

Updated by: Rodney Sales, Date Updated: 20/02/2011



You can edit a line once drawn. Click the edit line button  and click the line you want to edit. Drag the little orange point dots around. Click off the line on the map pane when finished editing. The changes will redraw.

You can redraw the line and this is some times easier if you have a complicated lines.

It is best to zoom into the area you want to edit using the Pan / Zoom tool by clicking  before going into edit mode.

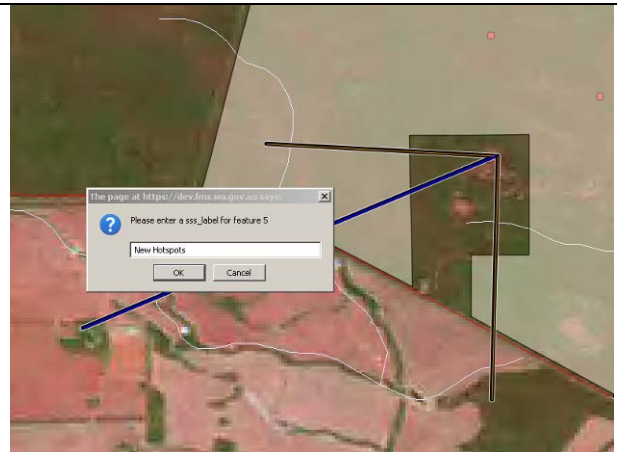



To label your line you can do this for each line or use the points and text layer to place labels on the map pane.

Click the edit line button  and select the sss_label attribute `Attributes: sss_label`, and then select the line you want to label by clicking on it. The dialog to label the line will pop up. Once completed labeling click the save button  to exit editing mode.

If the line is small you may need to zoom in to see the label.

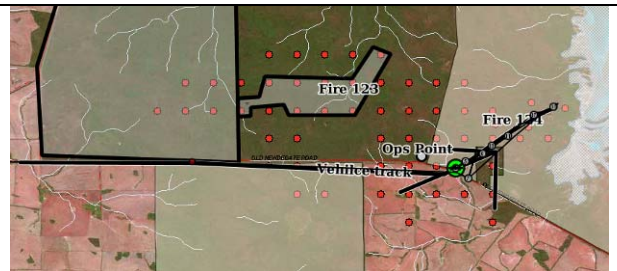
Putting text labels on the map pane is detailed below in Drawing Point and Text Layer.



Remember to click the save button  at the end to exit editing mode. Your edits are saved as you go however.



Resource tracking device history does not print in the maps so the drawing line tool is useful to capture a track made by a vehicle. Draw a line or polygon over the top of the resource tracking device history line.



* See appendix 1 references


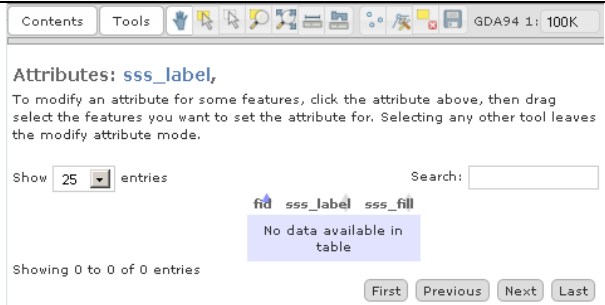

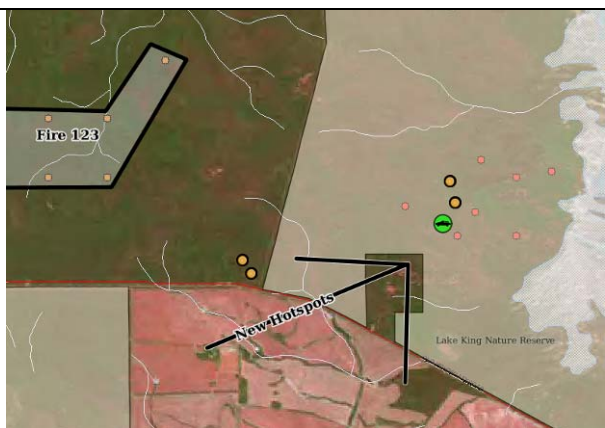

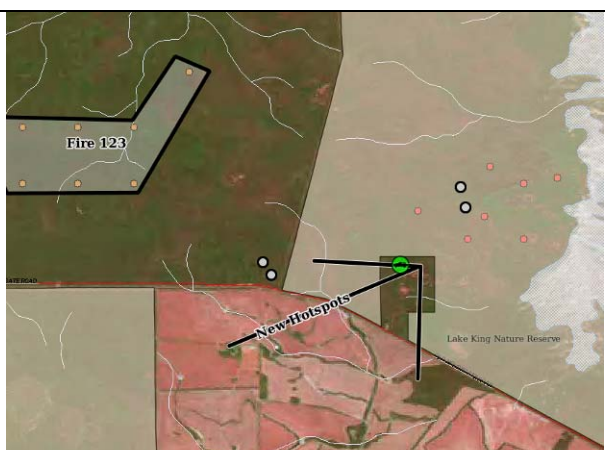


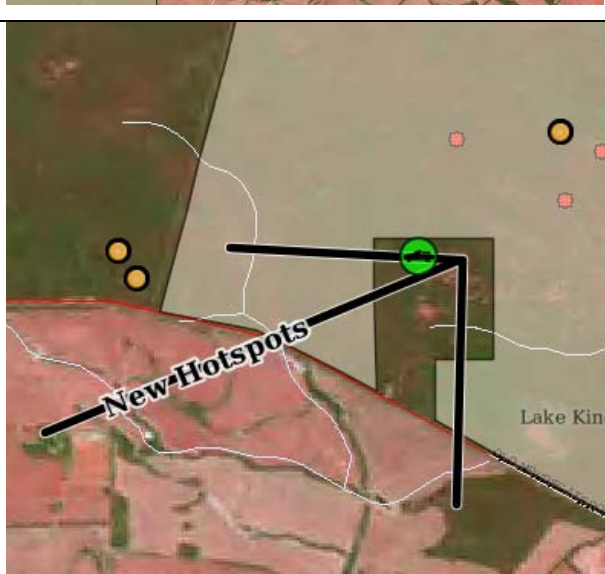
Document Name:

https://confluence.dec.wa.gov.au/plugins/servlet/confluence/editinword/1376379/attachments/FMS_SpatialSupportSystem_Userguide.doc

Author: Various, Created Date: 25/10/2009

Updated by: Rodney Sales, Date Updated: 20/02/2011

Draw Point and Text Layer

<p>To create points and text on the map pane you need to go into edit mode for the points & text layer. On the points & text layer created for you click the edit button . The contents pane will be replaced with the layer attribute table and a new points & text drawing tool bar will be displayed.</p>	
<p>To draw a point, the draw point button  should be turned on when you first edit the point drawing. Use your mouse to draw on the map pane. Click the left mouse button to put points on the map pane.</p>	
<p>You need to save your drawings. Click the save button . You can always go back to line drawing and add more. Your drawings are saved as you go so you can continue. The save is and exit edit mode.</p>	
<p>You can delete points. To do this click the edit line button  and click the line you want to delete the click the delete tool button  and the point will disappear.</p>	


* See appendix 1 references


Document Name:

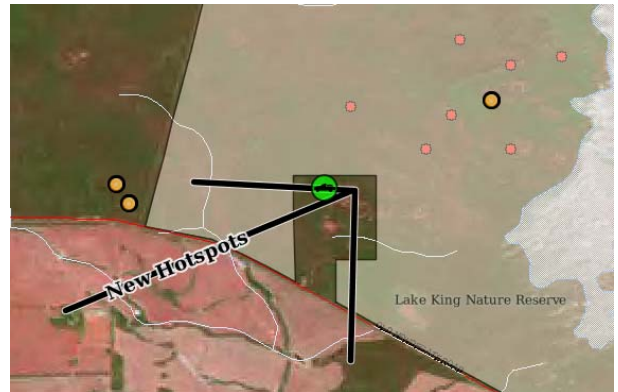
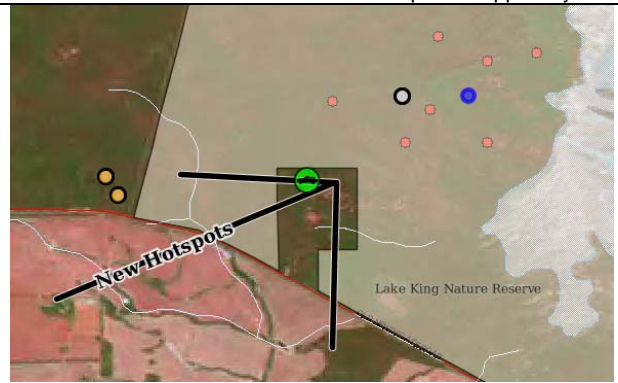
https://confluence.dec.wa.gov.au/plugins/servlet/confluence/editinword/1376379/attachments/FMS_SpatialSupportSystem_Userguide.doc



Author: Various, Created Date: 25/10/2009

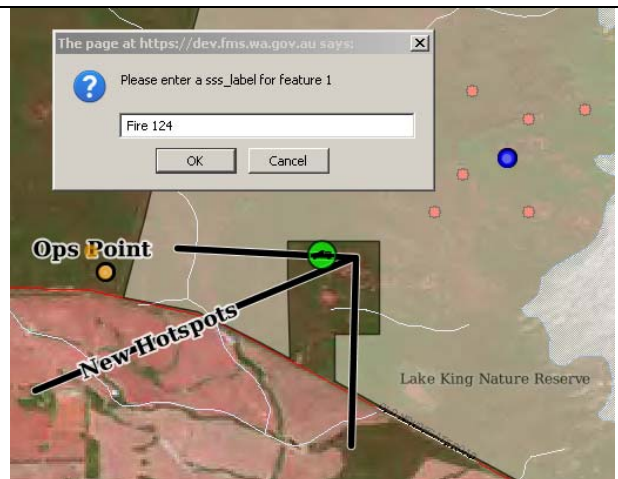
Updated by: Rodney Sales, Date Updated: 20/02/2011


You can edit a point once drawn. Click the edit point button  and click the point you want to edit. Drag the little orange point dots around. Click off the point on the map pane when finished editing. The changes will redraw.

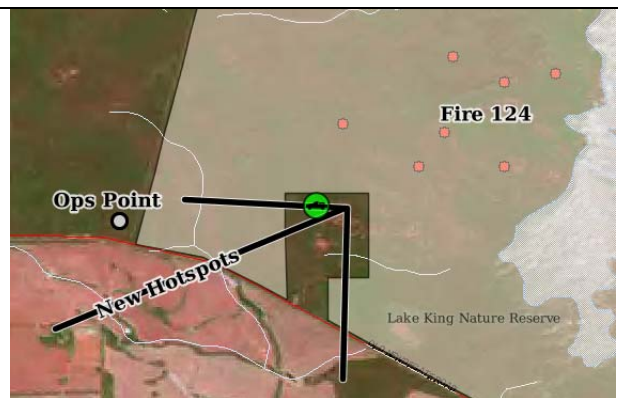
It is best to zoom into the area you want to edit using the Pan / Zoom tool by clicking  before going into edit mode.



To label your points click the edit line button  and select the sss_label attribute. Attributes: [sss_label](#), and then select the point you want to label by clicking on it. The dialog to label the point will pop up. Once completed labeling click the save button  to exit editing mode. When you label a point the point will disappear.



Remember to click the save button  at the end to exit editing mode. Your edits are saved as you go however.



* See appendix 1 references

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Author: Various, Created Date: 25/10/2009

Updated by: Rodney Sales, Date Updated: 20/02/2011

Exporting Drawn Layers

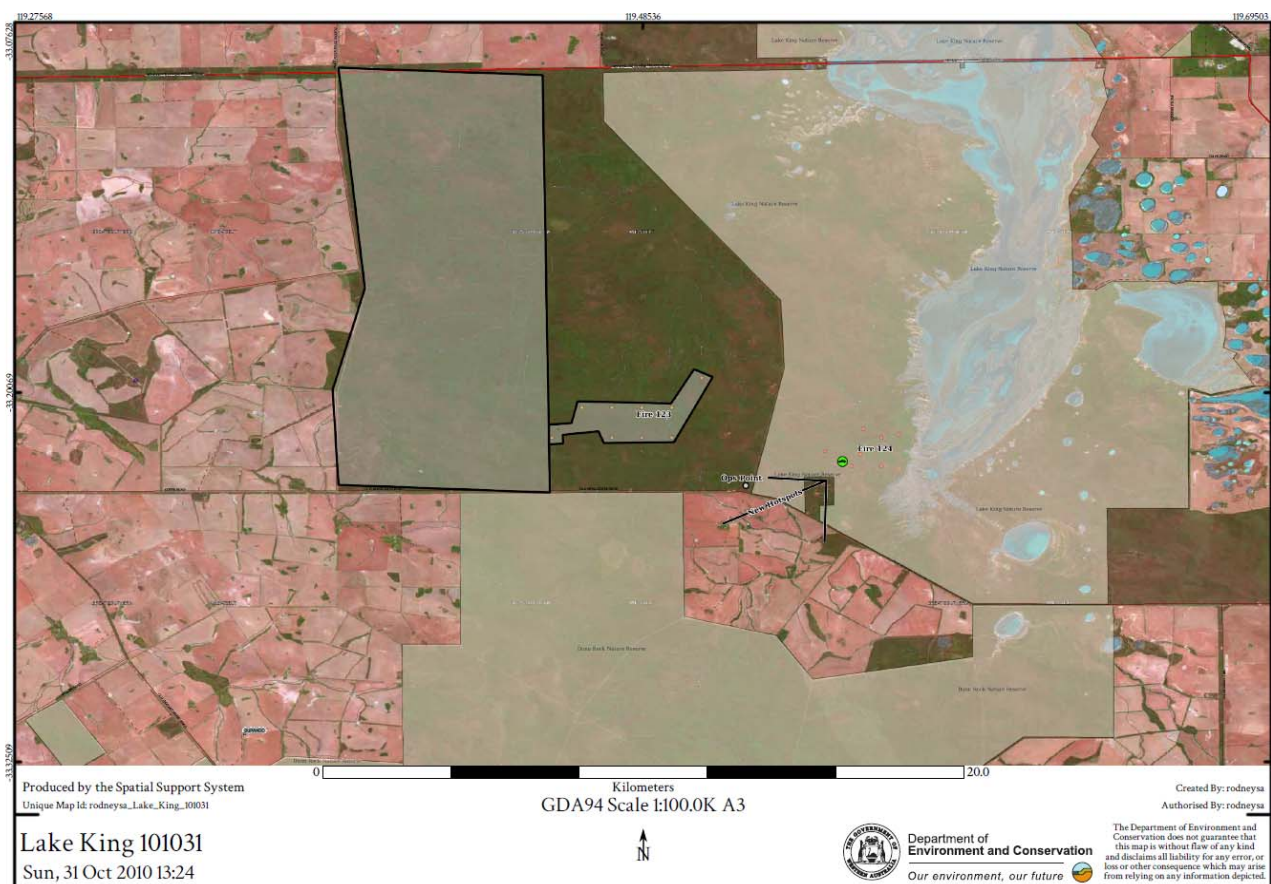
You can export to comma delimited file, Google KML for Google earth and Shapefile for those that want to import into other GIS client software like Quantum GIS and ESRI Arc Map.

☒ **Lake King 101031 Points & Text**
 Tags Detail Refresh Updated: Internal
 CSV KML ShapeFile Edit Remove
 0 Opacity % 100

☒ **Lake King 101031 Lines**
 Tags Detail Refresh Updated: Internal
 CSV KML ShapeFile Edit Remove
 0 Opacity % 100

☒ **Lake King 101031 Polygons**
 Tags Detail Refresh Updated: Internal
 CSV KML ShapeFile Edit Remove
 0 Opacity % 100

Map Created in this Example



Another example of the same map later in the day with updated live data and zoomed in.

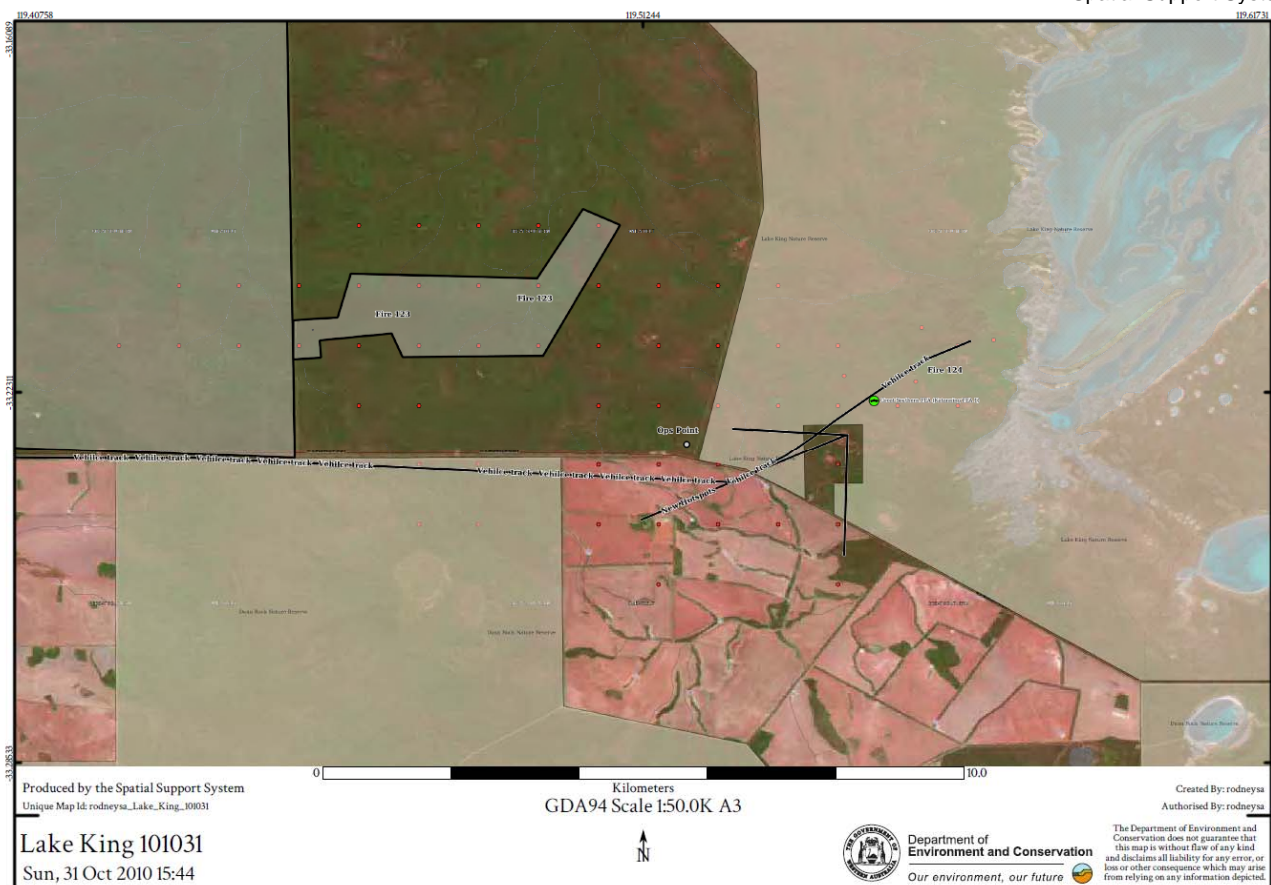
* See appendix 1 references

Document Name:

https://confluence.dec.wa.gov.au/plugins/servlet/confluence/editinword/1376379/attachments/FMS_SpatialSupportSystem_Userguide.doc

Author: Various, Created Date: 25/10/2009

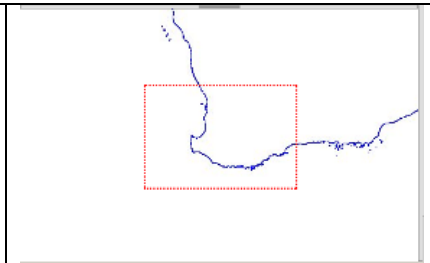
Updated by: Rodney Sales, Date Updated: 20/02/2011



Overview Map Pane

The Overview Map pane is there to provide more context and awareness when navigating.

Users can click and drag the dotted red box around the Overview Map pane which alters the Map Pane windows accordingly.



The base layer in the Overview Map pane will change based on the base layer selected in the Contents Pane.



Device Details Report

This report shows a variety of attributes and details about each device in a spread sheet format. The report can be found here: <https://intenal.fms.wa.gov.au/fire/sss>

* See appendix 1 references

Document Name:

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Author: Various, Created Date: 25/10/2009

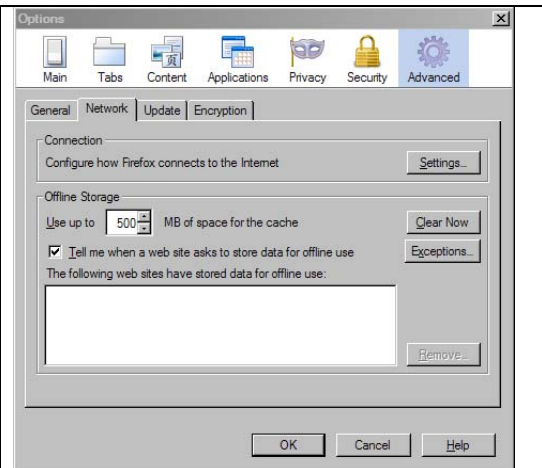
Updated by: Rodney Sales, Date Updated: 20/02/2011

Web Browser Enhancements and Optimisations

Firefox

To improve map image display speed we recommend changing your browser cache storage space and increasing it to 500mb. This uses disk space only and will store the browser imagery on your computer even after you shut down. Next time you use the application and use the same imagery you have used before it will load and perform faster as you zoom and pan.

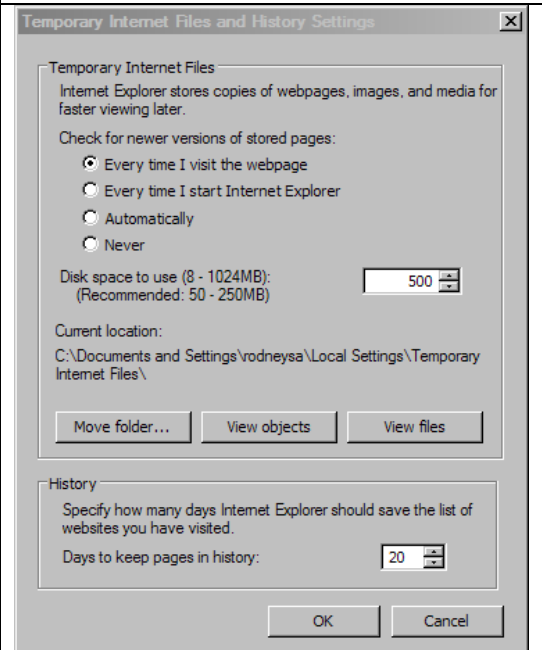
To set the Firefox Cache size go to menu Tools > Options, choose Advanced option, Network tab and set Offline storage, use up to and set to 500mb.



Internet Explorer

In Internet Explorer 7 go to Tools > Internet Options, on the General tab in the Browser History chose the Settings button and update the Disk space to use to 500mb.

The Check for newer versions of stored pages must be set to Every time I visit the webpage. If this is not done you will have problems refreshing resource data.



The browser refresh button will refresh your map pane view and display your last map components and the layers you had set on. To set back to the default as if you have just logged in log off and back on again.

Computer time is used to set the times displayed against resources tracking devices in the SSS application. Your computer time must be correct or the times displayed by the resources will be misleading.

* See appendix 1 references

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Author: Various, Created Date: 25/10/2009

Updated by: Rodney Sales, Date Updated: 20/02/2011

Appendices

Appendix 1 – References

*1	FOG – Management of Tracking Devices at FMS Website FOG's . See FOG 66 - Management of DEC Tracking Units .
*2	FMS Website 2010/2011 Fire Note for the SSS

Appendix 2 – Glossary

SSS	Spatial Support System
DEC	Department of Environment and Conservation
FESA	Fire and Emergency Services
WAPoL	West Australian Police
Vector	A vector is a point line or polygon shape
RTA	Old term for the resource tracking application, now called the SSS
BOM	Bureau of Meteorology
IMT	Incident Management Team
FOG	DEC Fire Operations Guide
FMS	DEC Fire Management Services

* See appendix 1 references

Document Name:

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Author: Various, Created Date: 25/10/2009

Updated by: Rodney Sales, Date Updated: 20/02/2011

Acceptance and Release Notes

This is a managed document. All copies of this document preceding this release are obsolete and shall be destroyed. This document has not been released for use until authorised by the Fire Support System Custodian.

This is the Spatial Support System (SSS) User Guide revision 10.10.0 for application version 10.10.0.

Authorised: Rodney Sales
(Fire Support System Custodian, Manager Applications Delivery, IT Operations) **Date:** 20/02/2011

Approved: Adon Metcalfe
(Quality Inspector, Coordinator - Applications Solutions, IT Operations) **Date:** 20/02/2011

Document History

Release Number	Date	Updated By	Reason for Release
0.1	25/10/2009	Rodney Sales	Draft first release of user guide
0.2	03/11/2009	Rodney Sales, Craig Carpenter and Dale Smith	Updated with feedback form Craig and change screen shoots of current application. Craig, Dale and Rod added more content to user guide. First release of user guide.
1.0	03/11/2009	Rodney Sales, Craig Carpenter and Dale Smith	Updated by Craig, Dale and Rod added more content to user guide.
1.1	05/11/2009	Rodney Sales	Updated based on feedback from Femina Metcalfe.
1.2	17/12/2009	Wilson Cheung	Updated with login cookie issue
1.3	05/03/2010	Dale Smith	Updated with changes for RTA 10.03.0. Cookie issue removed from user guide.
1.4	17/03/2010	Dale Smith	Update with Rodney's review.
1.5	14/06/2010	Dale Smith	Updated to reference Role Based Login documents for FMS website password.
10.07.0	28/07/2010	Dale Smith	Updated for SSS 10.07.0
10.07.1	31/07/2010	Dale Smith	Updated with feedback from Wilson Cheung
10.07.2	31/07/2010	Dale Smith	Updated with feedback from Rodney Sales
10.08.0	02/08/2010	Dale Smith	Continued updating for SSS version 10.07.0
10.08.1	03/08/2010	Dale Smith	Updated with new content.

* See appendix 1 references

Document Name:

https://confluence.dec.wa.gov.au/plugins/servlet/confluence/editinword/1376379/attachments/FMS_SpatialSupportSystem_Userguide.doc

Author: Various, Created Date: 25/10/2009

Updated by: Rodney Sales, Date Updated: 20/02/2011

Release Number	Date	Updated By	Reason for Release
10.10.0	28/10/2010	Rodney Sales	Reviewed and updated content for existing and new application functionality for application version 10.10.0
10.10.1	19/02/2011	Rodney Sales	Updated with minor cosmetic changes

Distribution

Copy Number	Release Number	Date Issued	Issued To
1	0.1	28/10/09	Wilson, Dale, Adon and Craig for Review
1	0.2	03/11/2009	Posted on FMS website
1	1.0	04/11/2009	Posted on FMS website
1	1.1	05/11/2009	Posted on FMS website
1	1.2	17/12/2009	Posted on FMS website
1	1.4	17/03/2010	Posted to FMS website
1	1.5	14/06/2010	Posted to FMS website
1	10.08.0	02/08/2010	Posted to FMS website
1	10.08.1	09/08/2010	Posted to FMS Website
1	10.10.0	31/10/2010	Posted on FMS website and uploaded to SSS application
1	10.10.1	21/02/2011	Posted on FMS website and uploaded to SSS application

