

User Guide

Release 4.4



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Overview and System Requirements

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Version

This Help system supports spatialWEB version 4.4.

System Requirements

Web Protocols

spatialWEB supports HTTP/HTTPS protocols. It works over Internet, intranet, or intranet access over a VPN.

spatialNET Compatibility

spatialWEB 4.4 is compatible with spatialNET 5.8.x and 5.9.x.

Browsers

spatialWEB supports:

- Microsoft Internet Explorer
- Google Chrome
- Mozilla Firefox
- Apple Safari

Plug-ins

Each client machine must have the Silverlight 4.0 plug-in installed, available at:

<http://www.microsoft.com/getsilverlight/Get-Started/Install/Default.aspx>

Operating Systems

SpatialWEB works on client machines running:

- Windows XP SP2/SP3
- Windows Vista Home
- Windows Vista Ultimate
- Windows 7 32-bit
- Windows 7 64-bit

Database Connectivity

SpatialWEB requires Oracle Data Access Components (ODAC) version 11.2.0.1, available from Oracle at:

<http://www.oracle.com/technetwork/database/windows/downloads/utilsoft-087491.html>

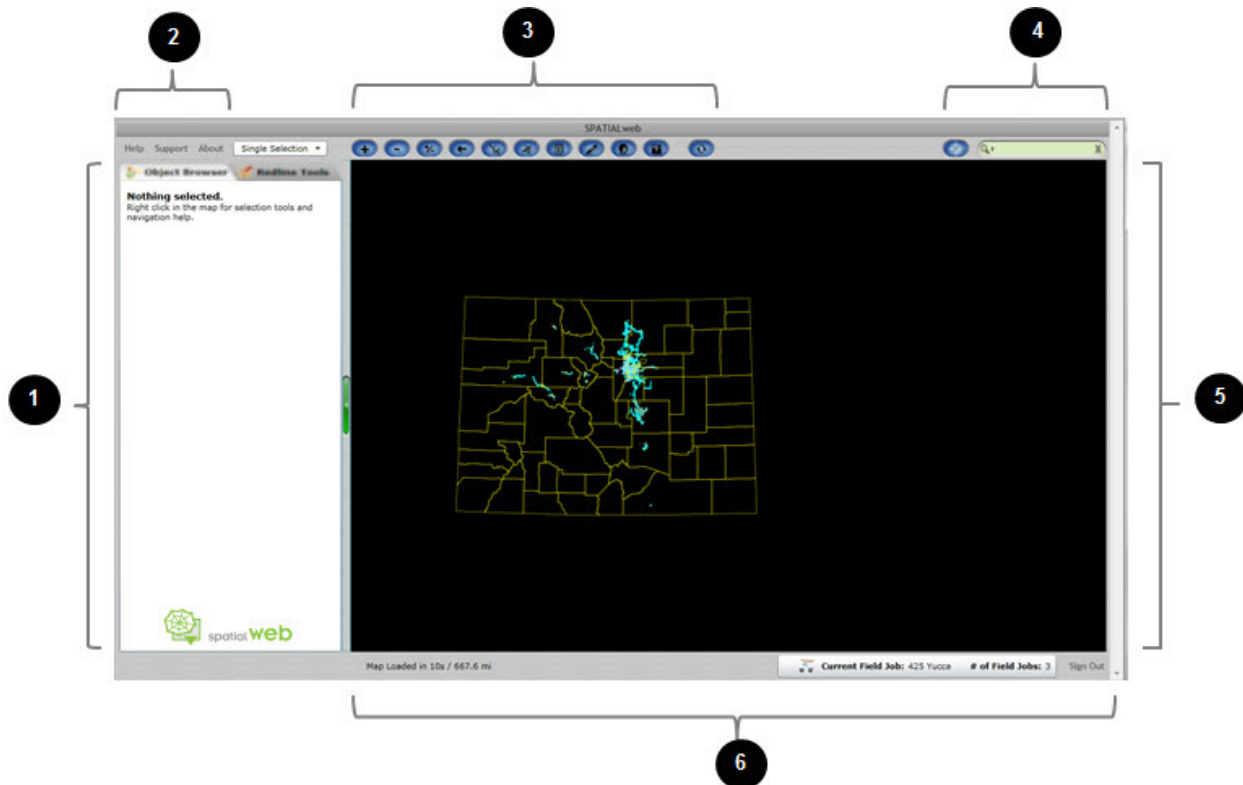
Minimum Requirements for a spatialWEB Client Machine

	Minimum	Highly Recommended
Processor	1.6 GHz single Core	2.66 GHz dual-core (or better)
RAM	1 GB (Windows XP) 2 GB (Windows Vista/7)	2 GB Windows XP 4GB Vista 3 GB Windows 7
Graphics	1024 x 768 @ 16-bit	1280 x 900 @ 24-bit
Network	802.11g connection to the web server	802.11n GigE 100baseT connection to the web server

The Interface

Parts of the Interface

The interface is comprised of six parts, described below.



Number	Name	Description
1	Object Browser	Displays the details of a selection made in the map view, along with available tools and reports. Click the green arrow button to the right of the Object Browser Window to close the object browser and enlarge the map view. Click it again to return the Object Browser and Map View to their original sizes. Use the arrow buttons beneath the Object Browser Window to move backward and forward in the Object Browser.
2	Support Toolbar	The following links are available on the Support toolbar: <ul style="list-style-type: none"> • Help (Opens Quick Help and contains links to the User Guide and Printable Quick Reference Card) • Support (links to the latest version of online Help) • About (Opens a new panel listing the current spatialWEB version, licenses and Oracle™ version)
3	SpatialWEB Toolbar	Accesses map functions and zoom display buttons.

Number	Name	Description
4	Search	Searches the database for boundaries, regions, equipment, and ISP.
5	Map View	Displays current map boundaries or regions, equipment selections, or ISP/MDU schematics. See the information under Views in this section for details.
6	Status ToolBar	Displays the current status, log out and map functions. Also contains the Current Field Jobs button.

Object Browser

The Object Browser displays the details of a selection made in the map view window, along with available tools or reports.

Drag the right edge of the Object Browser toward the map view to widen the Object Browser.

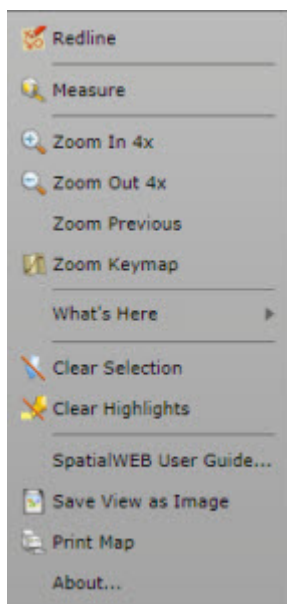
Click the green arrow button to the right of the Object Browser window to close the object browser and enlarge the map view. Click it again to return the Object Browser and map view to their original sizes.

Use the arrow buttons beneath the Object Browser window to move backward and forward in the Object Browser.

The status bar below the Object Browser activates during searches.

Mouse Menu

Right-click within the map view to open the Mouse Menu.

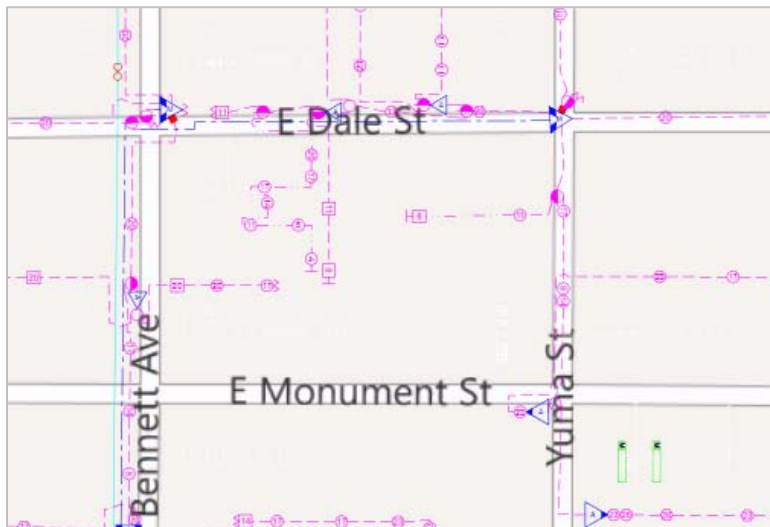


Option	Description
Redline	Opens Redline Panel.
Measure	Enables you to measure distances.
Zoom In 4x	Zooms in the view by a multiple of 4.
Zoom Out 4x	Zooms out the view by a multiple of 4.
Zoom Previous	Displays the previous map view.
Zoom Keymap	Displays the keymap.
What's Here?	Lists the items beneath the cursor on a map. If nothing is selected, the menu reads Nothing's Here.
Clear Selection	Clears information from the Object Browser.
Clear Highlights	Clears highlights on a map created by performing an action, such as a trace. (Does not clear highlights created by simply clicking on an object.)
spatialWEB User Guide	Opens the current version of the User Guide.
Save View as Image	Saves the view as an image.
Print Map	Prints the current map view.
About	Displays the current spatialWEB version, licenses, and Oracle version.

Views

Bing Maps

In release 4.4, spatialWEB incorporate Bing Maps as a display and reference theme that underlines all spatialWEB layers. This feature enables you to view network assets directly on commercial street centerline data without having to export selected entities to a separate application.



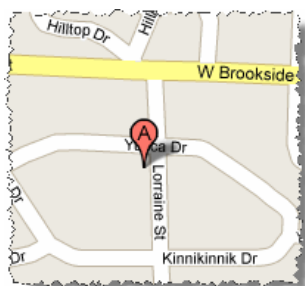
You can add this feature by selecting the Bing Maps checkbox in the User Preference window. See *Setting User Preferences*.

View in Google Maps™



When you select a specific address or entity, the Object Browser displays the following icon:

Click the icon to launch Google Maps™ in a separate window and utilize that functionality to view the address or entity.



Saving, Opening and Deleting Map Views

Saving a Map View

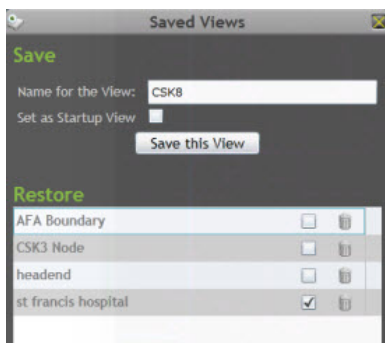
Saving a map view allows you to easily return to it at a later date. (Selections are not saved in map views.)


To save a map view:

1. Navigate to the map view to be saved (e.g., a specific boundary, node or piece of equipment).

2. Click on the **Manage Saved Views**  button on the toolbar.



3. In the resulting **Saved Views** window, enter a name for the view.



4. (Optional) Check **Set as Startup View** if you wish to use this view as your startup map.
5. Click on **Save this View**. The saved view is added to the Restore list.
6. Click on the **Close Window**  icon on the **Saved Views** window.



Opening a Saved View

To open a saved view:

1. Click on the **Manage Saved Views**  button on the toolbar.
2. Click on the name of the desired view in the Restore list. The map refreshes to display your selected view.
3. Click on the **Close Window**  icon on the **Saved Views** window.

Deleting a Saved View

To delete a saved view:

1. Click on the **Manage Saved Views**  button on the toolbar.
2. Click on the **Delete this view**  icon. The view is deleted immediately.
3. Click on the **Close Window**  icon on the **Saved Views** window.

Map View and Keymap

The **Map View** displays current map boundaries or regions, equipment selections or ISP/MDU schematics. Map views can be configured and saved by users.

A **Keymap** is the startup view when spatialWEB opens. Keymaps can be regions, states, or boundaries. Keymaps are configured by spatialWEB administrators and cannot be changed by users.

Navigation

Panning

Moving the Map View


To move the map view:

1. On the map, press and hold the left mouse button.
2. Drag the map in the desired direction.
3. Release the mouse button. The map refreshes to the new panned location.


Zooming In and Out

Zoom In

You can zoom in using several methods:


- Click on the Zoom In 4x  button on the spatialWEB toolbar.
- Scroll the mouse wheel forward to highlight an area, then release the mouse.

Note: Using the mouse wheel may not be the most efficient method to zoom, based upon the type of mouse you are using. If performance is erratic, use another Zoom In method.
- Right-click inside the map view to Open the Mouse Menu and select Zoom In 4x.

- Highlight an item in the map view, then click on the related  Zoom To **<Item>** icon in the Object Browser to zoom to that item.

Zoom Out

You can zoom out using several methods:

- Click on the **Zoom Out 4x**  button on the spatialWEB toolbar.
- Right-click inside the map view to open the Mouse Menu and select **Zoom Out 4x**.
- Scroll the mouse wheel backward.


Note: Using the mouse wheel may not be the most efficient method to zoom, based upon the type of mouse you are using. If performance is erratic, use another Zoom Out method.

Reset Zoom to the Previous Map View

Click on the **Reset Zoom**  button on the spatialWEB toolbar.

Note: Auto Refresh must be turned off in My Preferences.

Return the Map View to a Previous Zoom

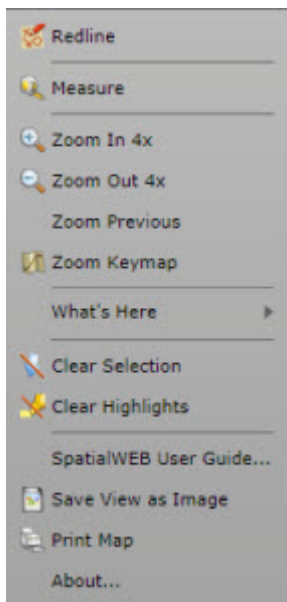
Click on the **Zoom Previous**  button on the spatialWEB toolbar.

Locating and Selecting Objects

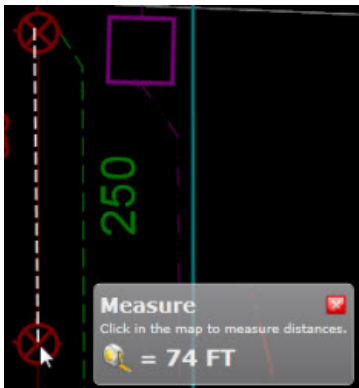
Measuring Distance


To measure distance:

1. Right-click in the map view to open the Mouse Menu.
2. Click on **Measure**.



3. Click where you wish to begin measuring on the map and drag the pointer across the distance you wish to measure. A dotted line appears as the pointer moves, and the distance appears in the **Measure** box in the lower right corner of the map.




4. Right-click at the end of the line and click the resulting **Finish Measuring** button to complete measuring a specific line. The Measuring function remains active.
5. Repeat steps 3-4 to measure another distance, if desired, OR click on the  in the **Measure** box to close the Measuring function.

Performing a Search

Search Criteria

The following can be located in spatialWEB using the Search function if the name or part of the name is known:

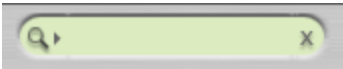
- Addresses
 - Use standard postal service abbreviations and conventions.
 - To search for a range of addresses, insert a hyphen or the word “to” between the street numbers.
 - Use the street name if the specific address is not known.
 - Each letter entered in the search field affects the results. For example:
 - Searching for King returns results for King, Kingfisher, Kingman, Kingsley, etc.
 - Searching for Kings does NOT return results for King, Kingfisher, Kingman, etc., since adding the "s" narrows the search parameters.
- Business names
 - You can search using the first letter(s) of a business name.
 - Business names are not case-sensitive, but spelling, spaces and apostrophes affect search results. For example:
 - Searching for mcdonald, mcdonalds, mcdonald's, mc donald's, and mac donald's produces different results for each search.
 - Searching for St Francis and Saint Francis produces different results.
- Building names
 - Input the building name if known. Names are not case-sensitive, but spelling affects search results. For example, searching for Medalion and Medallion produces different results.
- Telephone numbers
 - Enter the entire number into the search.
 - Hyphens, parentheses, or spaces are not necessary.

- Zip Codes
- Sites
- Boundaries
- Equipment
 - Searches can include an underscore symbol if configured in the spatialWEB Configuration tool.
 - Hyphens, such as CSK₃-2-P, must be included.
- X,Y coordinates
 - To locate database coordinates, type the coordinates separated by a comma. Example: 1,1
- GPS coordinates
 - Click the **GPS Coordinates**  button next to the Search field, type the latitude and longitude in the resulting window, and click **Go to GPS Coordinates Location**.
- Fiber name

Procedures

To perform a search:

1. Enter the search criteria in the Search field.



2. Press **Enter** or click on the magnifying glass next to the Search field.

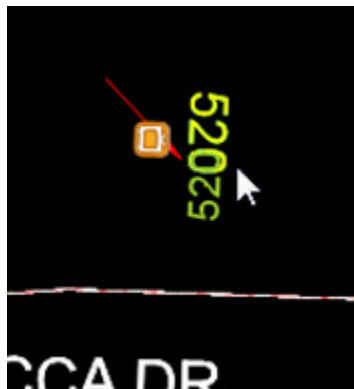
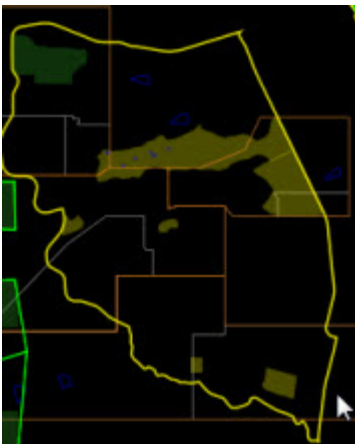
The map displays the object, and the Object Browser populates with the search results.

Note: The number of returned search results is configured in the spatialWEB Configuration Tool. See the spatialWEB Installation and Administration Guide for details.

Selecting Objects

To select an object:

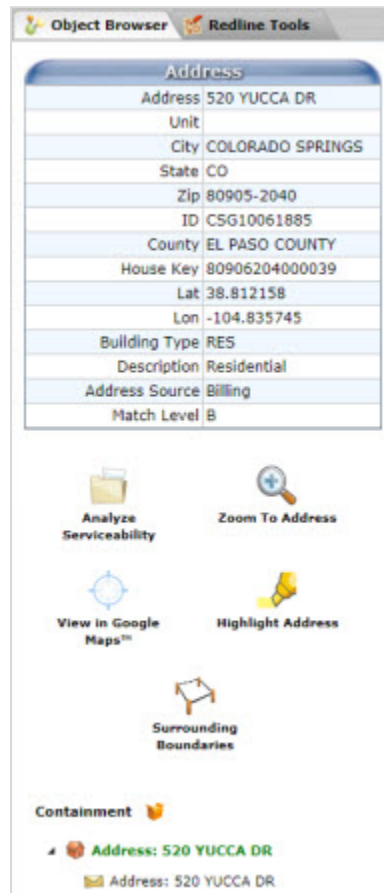
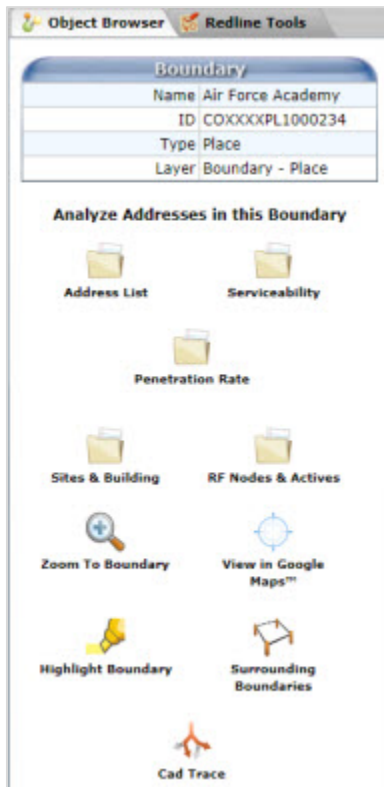
1. Click on the desired object. If the object becomes highlighted, it is a selectable object.




Boundary

Address

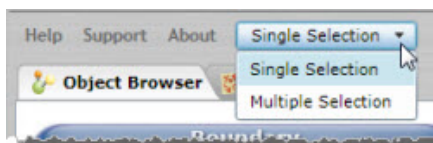
Details of the selected object will appear in the Object Browser, as shown below.



- (Optional) Click on **What's Here** in the Mouse Menu to see details of the object in the Object Browser.
- (Optional) To see details of the previously-selected object, click on the **Back**  button at the bottom of the Object Browser.

Single and Multiple Selections

Certain traces and reports require you to select multiple objects, while others require only a single object. Use the drop-down menu above the Object Browser to designate a single or multiple object selection.



The **Single Selection** option allows you to selection only one object at a time. If you select an object and attempt to select an additional one in this mode, the first object will be deselected.

The **Multiple Selection** option allows you to select multiple objects.

Note: Trenches, all field job items, support annotation, and cables (both RF and fiber) cannot be selected using this feature.

1. Select **Multiple Selection** from the drop-down list. The map view refreshes.
2. Select an object on the map. The selected object becomes highlighted.
3. Select another object. Both objects are highlighted.



4. Click the **Measure** icon in the Object Browser. The distance between the objects appears, and the Object Browser lists the objects selected.



5. Click the **Clear Selections** icon in the Object Browser to clear the selection of objects. The Single Selection option returns.



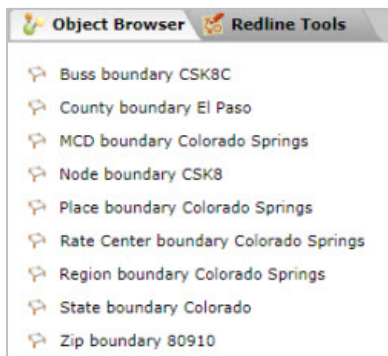
6. Click the Redraw button to clear the highlighted measured distance.

Surrounding Boundaries

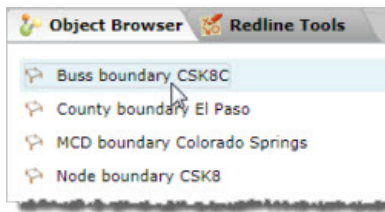
To see information about surrounding boundaries of a selected object:



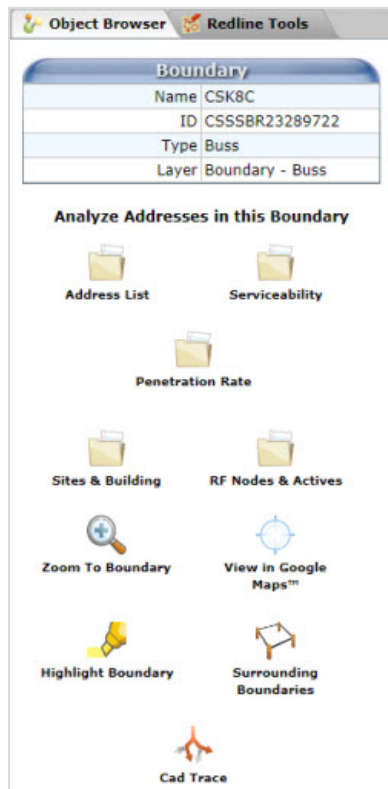
1. Click the **Surrounding Boundaries** icon in the Object Browser. A list of all surrounding boundaries appears in the Object Browser.



2. Click on a boundary in the list.



Information about that boundary displays in the Object Browser.



Setting User Preferences

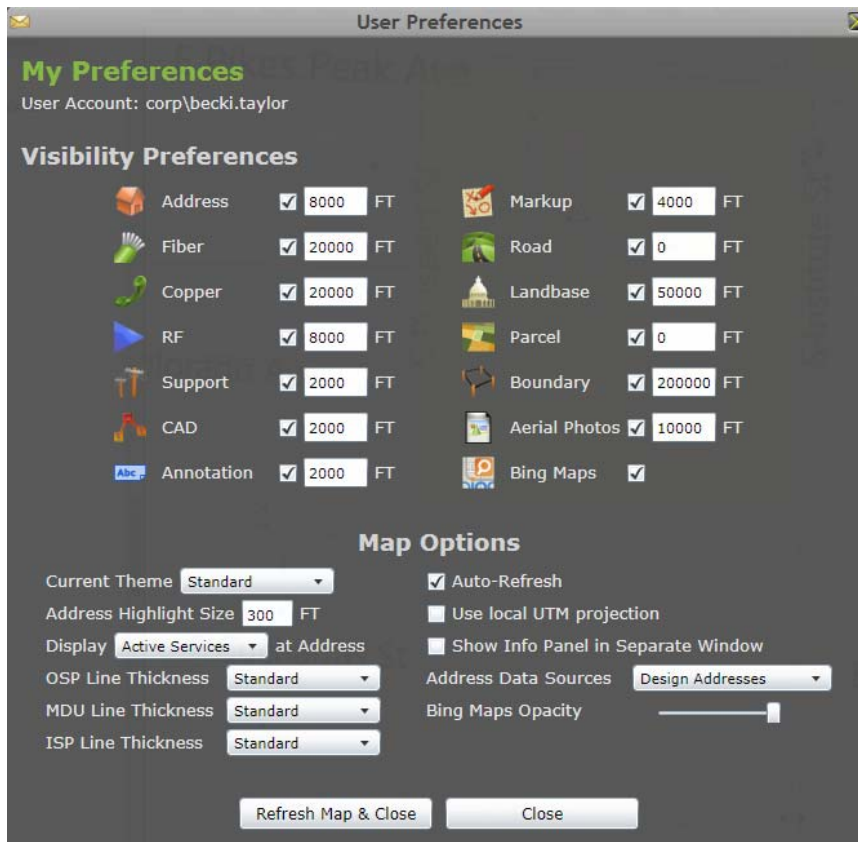
To access, click on the **Manage My Preferences**  button on the spatialWEB toolbar.

Visibility Preferences

The settings under Visibility Preferences allow you to control which objects are visible on the map, based on the size of the map view. The measurements in each box indicate the maximum width the area in the map view can be for that object to be visible.

For example, an address will be visible if the width of the map view is 8000 feet or less. Fiber, on the other hand, will be visible if the width of the map view is 20,000 feet or less.

The visibility defaults are shown below:



The screenshot shows the 'User Preferences' dialog box. The 'My Preferences' section shows the user account as 'corp\becki.taylor'. The 'Visibility Preferences' section lists various map layers with their visibility settings:

Layer	Visible	Distance (FT)
Address	<input checked="" type="checkbox"/>	8000
Fiber	<input checked="" type="checkbox"/>	20000
Copper	<input checked="" type="checkbox"/>	20000
RF	<input checked="" type="checkbox"/>	8000
Support	<input checked="" type="checkbox"/>	2000
CAD	<input checked="" type="checkbox"/>	2000
Annotation	<input checked="" type="checkbox"/>	2000
Markup	<input checked="" type="checkbox"/>	4000
Road	<input checked="" type="checkbox"/>	0
Landbase	<input checked="" type="checkbox"/>	50000
Parcel	<input checked="" type="checkbox"/>	0
Boundary	<input checked="" type="checkbox"/>	200000
Aerial Photos	<input checked="" type="checkbox"/>	10000
Bing Maps	<input checked="" type="checkbox"/>	

The 'Map Options' section includes:

- Current Theme: Standard
- Address Highlight Size: 300 FT
- Display: Active Services at Address
- OSP Line Thickness: Standard
- MDU Line Thickness: Standard
- ISP Line Thickness: Standard
- Auto-Refresh
- Use local UTM projection
- Show Info Panel in Separate Window
- Address Data Sources: Design Addresses
- Bing Maps Opacity: [Slider]

Buttons at the bottom: Refresh Map & Close, Close.

You can also add Bing Maps as a display and reference theme. When this option is selected, spatialWEB layers are projected over the Bing map layer. (An enterprise license is required for Bing Maps. See your system administrator for details.)

Recommended Settings

For optimal map drawing and refresh times, most of the filters should be kept below 8000 feet. Network and landbase layers should remain between 20,000 and 200,000 feet.

Map Options

Current Theme

This selection is a corporate-level control tool and is configured by an Administrator.

Address Highlight Size

This option sets the diameter of the address circle in the Serviceability Report. Input the desired number and click **Refresh Map & Close**.

Display at Address

Use the drop-down menu to select the services to display at an address:

- Active Services (Video, HSD, and/or Voice)
- Modems


Note: The spatialNET database must be configured with this information; otherwise, it will not display in spatialWEB.

OSP, MDU and ISP Line Thickness

Use these settings to adjust the line thickness of an Outside Plant, Multiple Dwelling Unit, and Inside Plant.

Auto-refresh

This selection automatically refreshes the view after an object is selected in the Object Browser. If Auto-

refresh is not checked, zooming and panning functions are affected, and you must use the Redraw  button to refresh the map.

Use local UTM projection

- Select this checkbox to use local UTM projection. If the checkbox is not selected, global UTM projection will be used to render map views.
- Under most circumstances, this checkbox can be left blank if Bing Maps is selected. If the Bing Maps view is skewed, however, selecting this checkbox may resolve the issue.

Show Info Panel in Separate Window

When checked, the Info Panel opens in a separate window instead of overlaying the map.

Address Data Sources

- Select the default, Design Addresses, to view only the traditional addresses in the system.
- Select Design and Proposed Addresses to view both traditional addresses and additional addresses created in the system which have not yet been accepted by the client.

Bing Maps Opacity

When Bing Maps is selected, use this slider to adjust the opacity of the map from more (left) to less (right).

RF

Tracing Modems

You can view a list of MAC IDs downstream of a selected RF cable. (If modem data is not present in the spatialNET database, it will not appear in spatialWEB.)

To access this information:

1. Select the desired cable in the map.



2. Click on the **Trace Modems** icon in the Object Browser to display the list of MAC IDs.

RF and Addresses

RF equipment that is associated with addresses in spatialNET will display in spatialWEB.

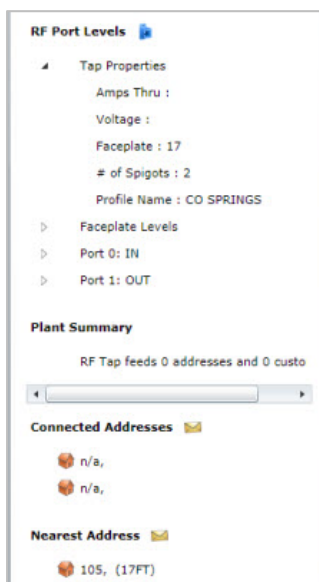
To access the information:

1. Click on an address in the map view.



2. Click on the **Fed By** icon in the Object Browser.

The Object Browser displays information on the associated RF equipment and a list of the addresses connected to that equipment.



Tracing RF

When RF equipment is selected, the Object Browser displays the equipment details and trace options.

The screenshot shows the Object Browser interface with the following details for an RF Cable:

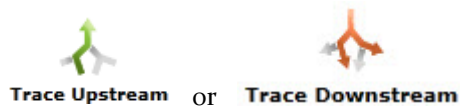
RF Cable	
Cable Type	P3-500
Layer	D-4b0_500
Length	239
Profile Name	CO SPRINGS
Frequency Profile	870
Cable Description	P3-500
Return 1 Loss	0.16
Return 2 Loss	0.47
Freq 1 Loss	0.52
Freq 2 Loss	0
Freq 3 Loss	0
Freq 4 Loss	0
Freq 5 Loss	1.75
Freq 6 Loss	0
Freq 7 Loss	0
Freq 8 Loss	2.2
Loop Resistance	1.92

Below the table are several icons for trace options:

- Trace Upstream (Green arrow pointing up)
- Trace Downstream (Red arrow pointing down)
- Trace Modems (Blue and yellow modem icons)
- Zoom To RF Cable (Magnifying glass icon)
- View in Google Maps™ (Compass icon)
- Highlight RF Cable (Yellow highlighter icon)
- Surrounding Boundaries (Orange outline icon)

Tracing RF Upstream or Downstream

To trace RF upstream or downstream, select the appropriate icon in the Object Browser:



The trace appears in the Info Panel.

Tracing RF to a Common Point

You can select multiple pieces of RF equipment to determine outages in an RF network and trace back to the first common passive and first common active.

To trace RF to a common point:

1. Select **Multiple Selection** from the drop-down menu.
2. Select multiple RF devices (such as RF Active, RF Tap) on the map.

The Object Browser lists the RF Equipment and an option to Trace RF to a common point.



3. Click on the **Trace RF to Common Point** icon.

The Info Panel opens in a new window and displays the Trace result with First Common Active and First Common Passive.

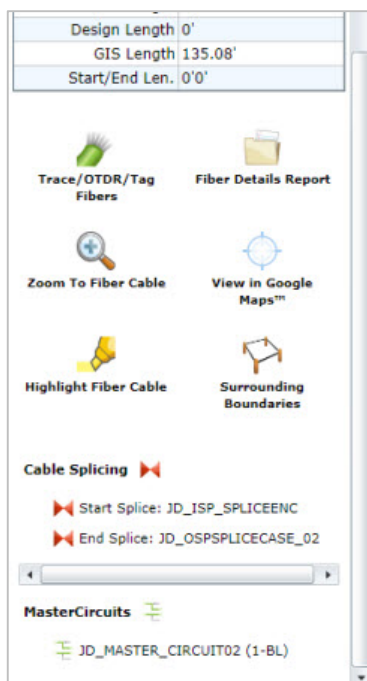
Fiber

Fiber Segments

Selecting Fiber

When you select a fiber segment in the Map View, the details of that segment and numerous icons appear in the Object Browser, as illustrated below.

Click on any icon, below, to access more information about its function.





Tag Fibers

Fiber tags are referred to as Circuit Tags in spatialNET.

To tag a fiber:

1. In the map view, click the desired fiber segment.

2. In the Object Browser, click the  **Trace/OTDR/Tag Fibers** icon to open the Fiber List.

3. Locate the desired fiber and click the related tag  icon.

4. Create a Field Job for this tag.

5. In the Tag Fiber window:
 - a. Reuse an existing tag or create a new one by using the appropriate drop-down list.
 - b. Input the reason for the tag.
 - c. Select the expiration date for the tag in the calendar. If **Auto Delete Allowed** is checked, the tag is automatically deleted when the expiration date passes.

6. Click the **Tag Fiber** button. The reserved tag appears red in the Fiber List.

11	BL	KS	CS06 Future	
12	BL	AQ	CS06 Future	
13	OR	BL	No Desc	
14	OR	OR	No Desc	
15	OR	GR	No Desc	

Fiber Details Report

This report provides information about the selected fiber.

To access the report:

1. Select a fiber segment in the map view.



2. Click on the **Fiber Details Report** icon in the Object Browser.

The report opens in a new window.

Sequence	Circuit ID	Status	Fiber Color	Tube	Fiber	Glass Type	Fiber Owner	Physical Circuit Owner	Physical Circuit State	Physical Circuit Type	Usage	Master Circuit	Tag
1 Trace			Blue/Blue	1	1			No Owner	Spare (dark)				
2 Trace			Blue/Orange	1	2			No Owner	Spare (dark)				
3 Trace			Blue/Green	1	3			No Owner	Spare (dark)				
4 Trace			Blue/Brown	1	4			No Owner	Spare (dark)				

3. (Optional) Click on the **Trace** button in the Sequence column to view details of the trace.

[Trace](#)
[Diversity](#)

Fiber trace of CSJ9-100 - S3 - U/G - fiber 1 (Blue/Blue)
Spare (dark) - No Desc

Cables: 3

Segments: 23

Splices: 2

Couplers: 0

Loops: 7 with 1130' of slack footage

Risers: 3

Master Circuit

Traced Fiber Length: 11792' with 82% accuracy

View Full Trace Report

Zoom To Trace

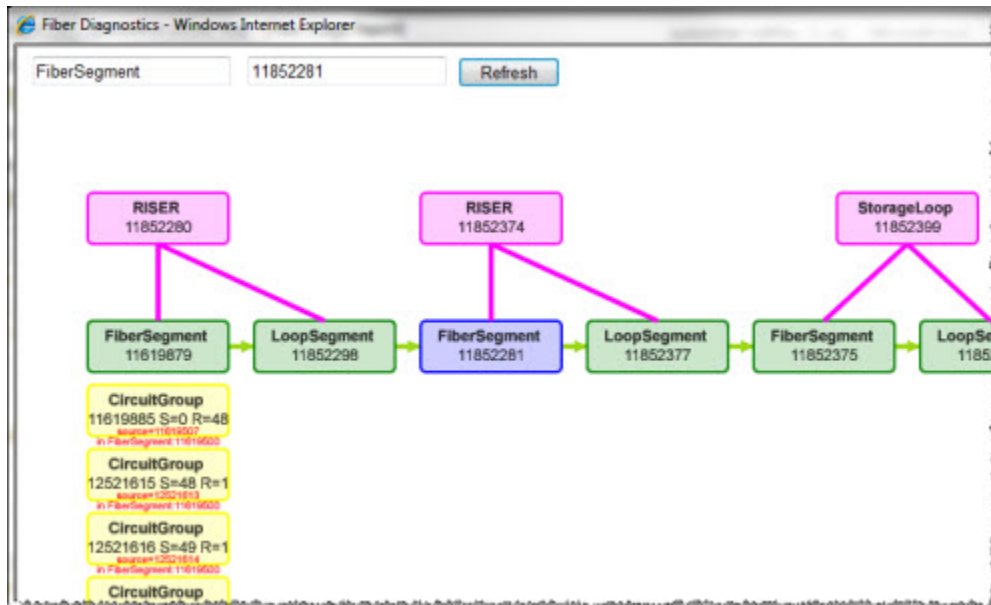
Add to Diversity

Cable Run List

- CSHE Patch Panel 08-Pigtail
- CSK0-109
- CSJ9-100

Fiber Diagnostics

This report includes information on related circuit groups, fiber segments and loop segments.



Splice Reports

Two splice reports are available: the Splice Report and the Compact Splice Report.

To access these reports:

1. Select a fiber segment in the map view.
2. In the Object Browser, click on the appropriate **Fiber Splice** icon.


Example:



Related Fiber Splice information appears in the Object Browser.

Fiber Splice

Name	CS45-1
In Cables	1
Out Cables	1
Fiber Nodes	0
Term Racks	0


Markup Splice


Splice Enclosure Report


Compact Splice Report


Surrounding Boundaries

Compact Splicing Summary

CS45-100:1-4 > CS45-1-P:1-4

Connections

- CS45-100 - U/G
- CS45-1-P - Other

Containment

- Fiber Splice Case: CS45-1
- Fiber Splice: CS45-1



Splice Enclosure Report

- Click on the **Splice Enclosure Report** icon to open the Splice Enclosure Report in a separate window.

Splice Enclosure Report for CS45-1

Name	CS45-1
Location	
Enclosure Type	Keptel-LG100
Tray Type	
Trays	1

Splicing by Cables

[Show Circuit Detail \(slow\)](#)
[Show Tray Assignments](#)

A Cable										B Cable				Usage			Circuit				
Sheath	Group 3	Group 2	Fiber	#	Color	Slot	Dir	Color	#	Fiber	Group 2	Group 3	Sheath	UsageID	Usage	State	Owner	Start	End	Master	Circuit
CS45-100		Blue	Blue	001					001	Blue	Blue		CS45		CS45 Forward	HOT FORWARD	No Owner				
CS45-100		Blue	Orange	002					002	Orange	Blue		CS45-1		CS45 Return	HOT RETURN	No Owner				
CS45-100		Blue	Green	003					003	Green	Blue		CS45		CS45 Future	Future	No Owner				
CS45-100		Blue	Brown	004					004	Brown	Blue		CS45		CS45 Future	Future	No Owner				

Unspliced Fibers Per Segment

Segment Name	Unspliced Fibers
CS45-100 - U/G	
CS45-1-P - Other	5-6

Splice report generated on 9/21/2011 at 11:50 AM in 0s



Compact Splice
Report

- Click on the icon to open that report in a separate window.

Splice Enclosure Report for CS45-1

Name CS45-1
Location
Enclosure Type Keptel-LG100
Tray Type
Trays 1

Cable Segments at Splice

Name	Type	Count	Start Splice	End Splice	Owner
CS45-100 - U/G	004F CENTURY	4	CS45-2	CS45-1	COMCAST
CS45-1-P - Other	006F ALCATEL OSP	6	CS45-1	CS45	COMCAST

Compact Splicing Summary

CS45-100:1-4 > CS45-1-P:1-4

Splice report generated on 9/21/2011 at 12:10 PM in 0s

Fiber Traces

Tracing a Fiber

To perform a fiber trace:

- Select the desired fiber segment in the map view.



Trace/OTDR/Tag
Fibers

- Click on the icon.

A color-coded Fiber List appears in the Object Browser.

Object Browser **Redline Tools**

CSK3-100

1	BL	CSK3 Forward	[Icons]
2	OR	CSK3 Return	[Icons]
3	GR	No Desc	[Icons]
4	BR	No Desc	[Icons]

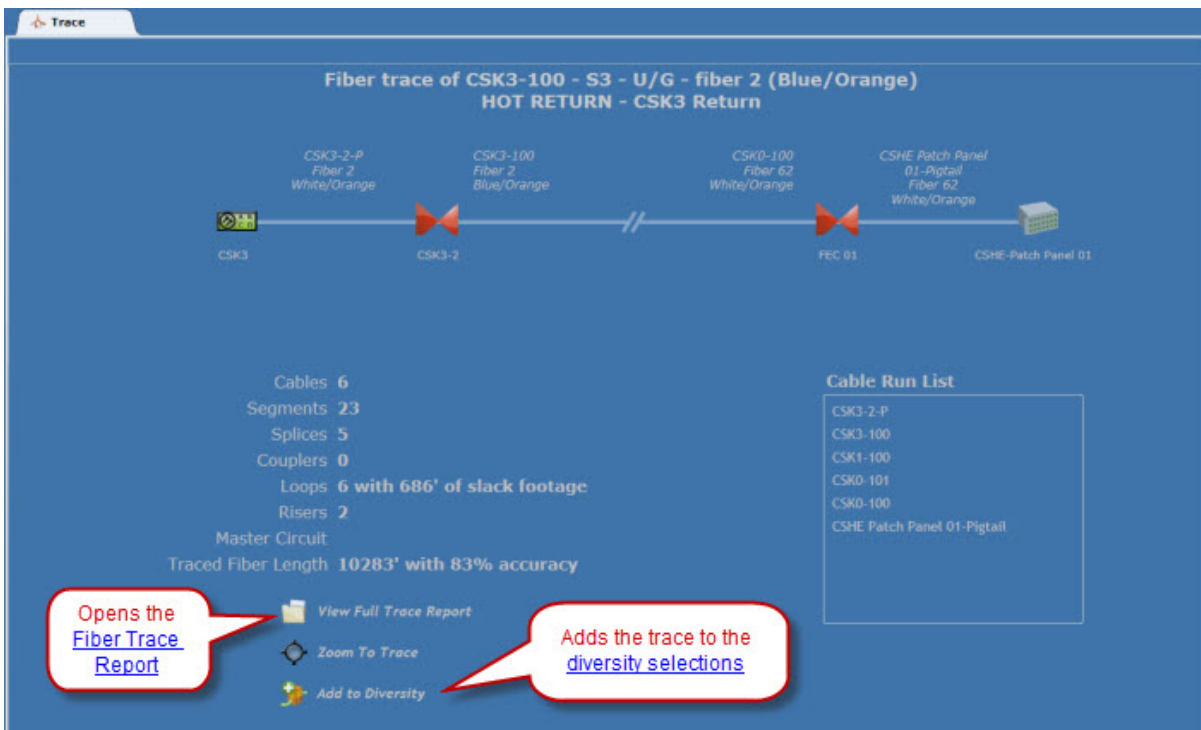
Show Cable

Fiber Details Report

- Click on the fiber name to display the Fiber Trace Report.



- Select any piece of equipment in the report to see details in the Object Browser.





Trace/OTDR/Tag Fibers

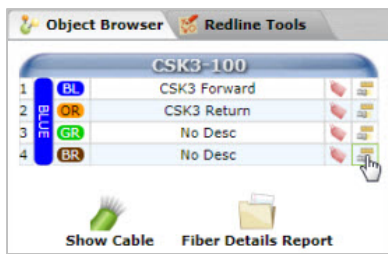
Procedures on this page are limited to OTDR Trace.

OTDR Trace

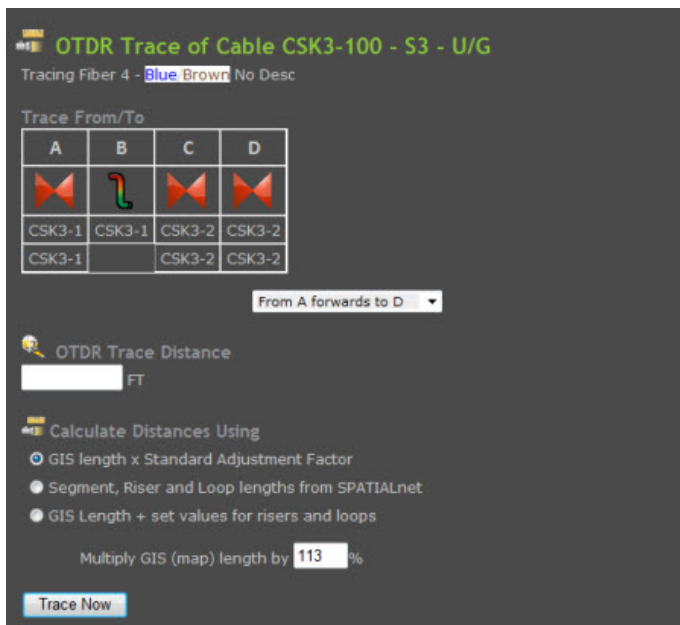
Perform a distance trace to determine the exact length of a fiber and to determine the location of any breaks in the fiber using data from an Optical Time-Domain Reflectometer (OTDR).

To perform a distance trace using OTDR data:

1. In the map view, click on the desired fiber segment.
2. In the Object Browser, click on the  icon to open the Fiber List.
3. Locate the desired fiber and click on the related OTDR trace  icon.



4. In the resulting OTDR Trace window, select the direction of the trace from the drop-down list and enter the number of feet to trace in the **OTDR Trace Distance** field.



5. Select the method to calculate the distance in the trace:

- **GIS length x Standard Adjustment Factor**

Calculates distances using the map with a user-configurable standard adjustment factor.

The standard adjustment factor is, by default, set to 13% higher than the map length. Choose this option if your spatialNET cable length data is questionable

- **Segment, Riser and Loop lengths from SPATIALnet**

Calculates distance using customer data in spatialNET.

Choose this option if your spatialNET cable length data is very accurate.

- **GIS Length + set values for riser and loops**

Calculates distances using the map with user-configurable options for sag factors, loop and riser lengths.

Choose this option if your spatialNET cable length data is questionable but you know standard lengths used for storage loops.

6. Click the **Trace Now** button to generate the results for the distance trace, shown below.

OTDR Trace of Cable CSK3-100 - S3 - U/G

Results for distance trace

- Located in: CSK3-100 - S3 - U/G
- Distance is 56 FT from the start of the cable segment
- Location in map coordinates: 1705721.00895644, 14102472.3385585
- Location in latitude/longitude: 38.83643056, -104.77122252
- Accuracy rating: 80%
- Segments traced: 1
- Target distance: 100
- Distance traced to get to this segment: 44

Zoom to traced distance location

Display results in Google Maps™

Display trace path in the map


Enter new trace parameters

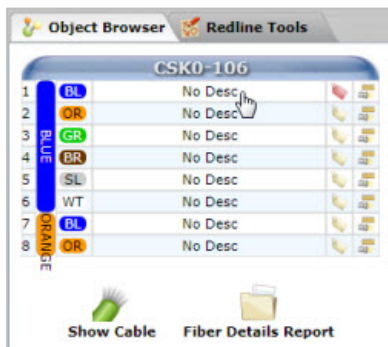
Options at the bottom of the report allow you to zoom to the traced distance location on the map, see the precise location in Google Maps, see the trace path in the map view, and enter other parameters to start a new trace report.

Performing a Trace Analysis for Diverse Fibers

To perform a trace analysis for diverse fibers:

1. Locate and select the desired fiber.

2. Click on the  icon in the Object Browser to open the color-coded fiber list.
3. Click on the fiber name to trace.



4. In the resulting Trace tab, click on **Add to Diversity**.



A Diversity tab is added to the info panel.

5. Locate another fiber and repeat the above steps to add it to the list of fibers. (At least two traces are required for diversity analysis.) Add additional fibers if desired.

The report displays all selected fibers.



6. (Optional) Click **View Full Diversity Report** to open that report. (See *Full Diversity Report*.)

Fiber Trace Report

This report is view-only and provides circuit, splice and trace details.

Discrepancies of more than 25% for GIS Length (vs. calculated length) show as red in the GIS Length column.

Fiber Trace Report

Circuit Detail

Priority (1-5)	Circuit Description	Usage	Circuit Owner	Type
1	HOT RETURN	CSK3 Return	No Owner	PRI

Splice Details

Attribute	A End	Z End
Location ID	CSK3	NUP01
Location Type	Node - NODE	Head End Facility
Address	CSK3	
City		
CBU		
Site Code		
Card Type		
Port Type		

Trace Detail

Location ID	Address	Tray	Slot	Cable	Size	Fiber	Group 3	Group 2	Group 1	Fiber Owner	As-built Len.	Design Len.	Strand Len.	Sheath Start	Sheath End	GIS Length	Calc. Length	Calc. Accuracy
CSK3-2	Colorado Springs, CO			CSK3-2-P -	6	2	0	6	2					3492	3440	66.71	52	100%
				CSK3-100 - S3 -	4	2	0	1	2		592		15046	15638	494.3	592	100%	
				CSK3-100 - S2 -	4	2	0	1	2				15046	15046				
CSK3-1	Colorado Springs, CO			CSK3-100 - S1 -	4	2	0	1	2		44			15002	15046	24.44	44	100%
				CSK1-100 - S3 -	8	2	0	1	2		1636		27004	25368	1513.46	1636	100%	
CSK1-1	Colorado Springs, CO			CSK1-100 - S2 -	8	2	0	1	2		194	194		27198	27004		194	100%
				CSK1-100 - S1 -	8	2	0	1	2		1316		28514	27198	1338.38	1316	100%	
				CSK0-101 - S3 -	12	2	0	1	2			1172		1330	158	1099.03	1172	100%
CSK0-1				CSK0-101 - S2 -	12	2	0	1	2		142	142		1472	1330		142	100%
				CSK0-101 - S1 -	12	2	0	1	2			2264		3736	1472	2387.1	2264	100%
NUP01				CSK0-100 - S1 -	216	62	0	6	2		4			2920	2916	69.31	4	20%
NUP01				CSHE Patch Panel 01- Pigtail -	72	62	0	6	2							150.6	150.6	60%
CSHE-Patch Panel 01																		

Total Cable Asbuilt Length: 10080
Total Cable Strand Length: 0
Total Cable Design Length: 686
Total Cable GIS Length: 9532.13
Total Cable Calculated Length: 10282.6
Calculated Cable Length Accuracy: 82%
 Generation Time: 1.0s (Trace: 0s, State Details: 0s, Collect Total: 0s, Report Generation: 0s)
 Collection Details - Fiber Detail: 0.38s, NH: 0.36s, Address: 0s, Details: 0s, Owner: 0s, Lengths: 0.11s

Full Diversity Report

Generating the Report

To generate a full diversity report:

1. Perform a trace analysis on the desired fibers. At least two traces are required for diversity analysis.
2. Click on **View full diversity report** on the Diversity tab.



Parts of the Report

The Full Diversity Report consists of several sections, as shown below:

Proximity		Dual Lead-In
60	60	

Minimum buffer distances are provided here

Color	Number	Started At	Cable Id S	Ended At	Cable Id E	Master Circuit	Sequence
	0		CSK0-106 - S9 -	CHILDLAW BUILDING	CSK0-106 - S9 -		1(Blue/Blue)
	1		CSK0-105 - S7 -	CHILDLAW BUILDING	CSK0-105 - S7 -		1(Blue/Blue)

Links in this column open the map view of the fibers

Breach Type	Description	Location	Affects
	The working and protected paths both pass through the same device.	lat:-104.79407288 lon:38.83626419	CSK0-102 - S2 - CSK0-106 - S1 -
	The working and protected paths both pass through the same device.	lat:-104.79407288 lon:38.83626419	CSK0-102 - S2 - CSK0-106 - S2 -
	The working and protected paths both pass through the same device.	lat:-104.79407288 lon:38.83626419	CSK0-102 - S2 - CSK0-106 - S3 -
	The working and protected paths both pass through the same device.	lat:-104.79407288 lon:38.83626419	CSK0-102 - S2 - CSK0-106 - S4 -
	The working and protected paths both pass through the same device.	lat:-104.79407288 lon:38.83626419	CSK0-102 - S2 - CSK0-106 - S5 -
	The working and protected paths both pass through the same device.	lat:-104.79407288 lon:38.83626419	CSK0-102 - S2 - CSK0-106 - S6 -
	The working and protected paths both pass through the same device.	lat:-104.79407288 lon:38.83626419	CSK0-102 - S2 - CSK0-106 - S7 -
	The working and protected paths both pass through the same device.	lat:-104.79407288 lon:38.83626419	CSK0-102 - S2 - CSK0-106 - S8 -
	The working and protected paths both pass through the same device.	lat:-104.79407288 lon:38.83626419	CSK0-102 - S2 - CSK0-106 - S9 -
	The working and protected paths both pass through the same device.	lat:-104.78958579 lon:38.83496007	CSK0-105 - S7 - CSK0-106 - S4 -
	The working and protected paths both pass through the same device.	lat:-104.78958579 lon:38.83496007	CSK0-105 - S7 - CSK0-106 - S5 -
	The working and protected paths both pass through the same device.	lat:-104.78958579 lon:38.83496007	CSK0-105 - S7 - CSK0-106 - S6 -
	The working and protected paths both pass through the same device.	lat:-104.78958579 lon:38.83496007	CSK0-105 - S7 - CSK0-106 - S7 -
	The working and protected paths both pass through the same device.	lat:-104.78958579 lon:38.83496007	CSK0-105 - S7 - CSK0-106 - S8 -
	The working and protected paths both pass through the same device.	lat:-104.78958579 lon:38.83496007	CSK0-105 - S7 - CSK0-106 - S9 -
	Distance between working and protected lead-ins is closer than the configured minimum required separation.	lat:-104.78958579 lon:38.83496007	CSK0-105 - S7 - CSK0-106 - S9 -

Colors in this column refer to the highlighted trace fibers in the map view

Breach type codes are as follows:

- Common Device
- Folded Path
- Crossover Point
- Single Lead In
- Dual Lead In
- Close Proximity

Master Circuits

Master circuits are groups or hierarchical sequences of physical network entities that form higher-level structures, such as rings. Master circuits can be viewed in spatialWEB only if they have already been created in spatialNET.

To view details of a master circuit:

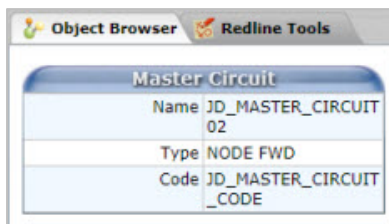
1. Locate and select the desired fiber network element.

If a fiber network element is part of a master circuit, it will appear in a Master Circuit list in the Object Browser.



2. Click the desired item in the Master Circuits list.

Related information appears in the Object Browser, and the map view zooms into the master circuit.



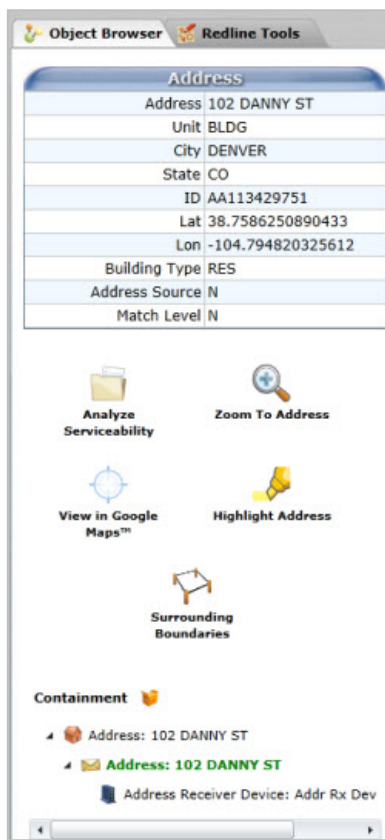
3. Click the **Display Schematic** icon to view all of the network elements and trace details in the Info Panel.

Address Receiver Devices

An address receiver device represents the device in a customer's home. You can search for this device by its property name and view its attributes in the object browser; however, the device will not be visible on the map.

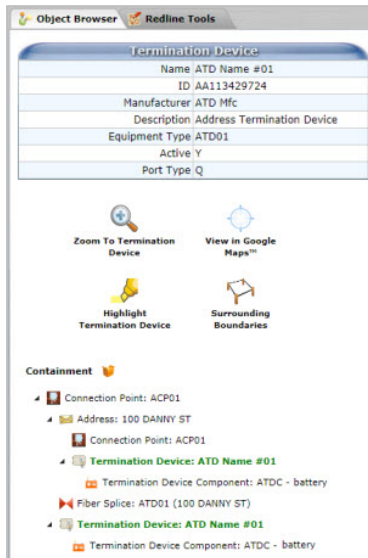


If address receiver devices have been configured in the database, the containment tree for a specific address in the object browser will display the address receiver device for that address and its parent address.



Address Termination Devices (ATD)

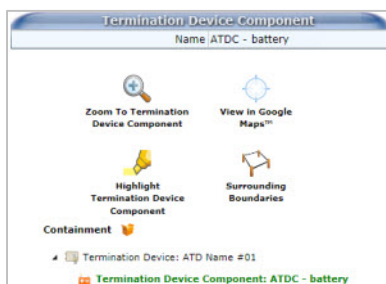
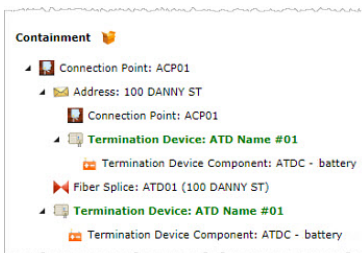
Address termination devices (ATD) are searchable by name. When you click on the search result in the object browser, the location of the containing housing appears on the OSP map, and the ATD details appear in the object browser.



Address termination devices appear on fiber traces and are included in fiber splice containment trees in the object browser.

Address Termination Device Components (ATDC)

Click on an address in the containment tree; then click on the connection point or address termination device to see information on the address termination device components.



Spliced Taps and Spliced Tap Ports

When you select a spliced tap on the map, the object browser displays the output port reservations at the port level and the reserved address.

The screenshot shows a web-based object browser for a 'Spliced Tap'. The top section is a table with the following data:

Spliced Tap	
Name	STAP 4 Port Name
ID	AA113429766
Manufacturer	Spliced Tap Mfc
Description	Spliced Tap
Equipment Type	STap
Site Type	NBN_MPT_4PORT
Max Ports	2
Port Type	V
Service Status	I
Tap Spares	0

Below the table are four interactive icons: 'Zoom To Spliced Tap' (magnifying glass), 'View in Google Maps™' (location pin), 'Highlight Spliced Tap' (hand cursor), and 'Surrounding Boundaries' (square with arrows). The bottom section is titled 'Port Reservations' and lists four items:

- Port 1 - Reserved for 100 DANNY ST DENVER CO
- Port 2
- Port 3
- Port 4

Each port reservation is preceded by a small yellow icon representing a port. A scroll bar is visible at the bottom of the list.

Spliced taps contain associated spliced tap ports, which reserve the ports for specific addresses. Connectivity is not modeled from the ports to the addresses, and these spliced tap ports are not searchable.

Redlining and Markup

Creating and Editing a Field Job

A field job must be opened to perform the following:

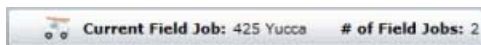
- Add a Fiber tag
- Perform redlining
- Perform markup on a splice
- Reserve space in ISP equipment

Icons in the Actions column of the first Field Job Maintenance window enable you to set a particular field job as current, edit or delete the field job, see details of the field job, and zoom to the extent of the field job. Roll over an icon to view the Tool Tip that explains its functionality.

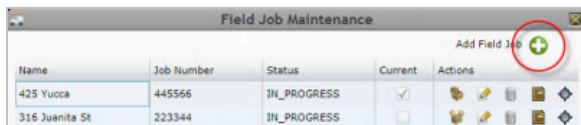
Creating a Field Job

To create a field job:

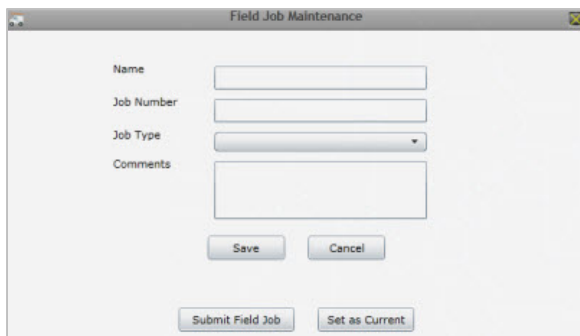
1. Click the **Field Jobs** menu button in the lower right-hand corner of the map view.



2. Click the **Add Field Job** button.



3. In the resulting **Field Job Maintenance** dialog box,
 - Enter the **Name** of the job and the **Job Number** in the appropriate fields.
 - Select the **Job Type** from the drop-down menu.
 - Enter any relevant comments.

A screenshot of the 'Field Job Maintenance' dialog box showing the input fields. It includes text boxes for 'Name', 'Job Number', and 'Comments', and a drop-down menu for 'Job Type'. At the bottom, there are buttons for 'Save', 'Cancel', 'Submit Field Job', and 'Set as Current'.

4. Click one of the following:
 - **Save** to save the job. The number of field jobs shown on the menu button increases.
 - **Cancel** to cancel the job and remove the job from the Field Jobs list.

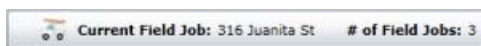
- **Submit Field Job** to submit the job for review in spatialNET.
- **Set as Current** to set the job as the current job.

Note: New icons in the Actions column of the first Field Job Maintenance window enable you to set a particular field job as current, edit or delete the field job, see details of the field job, and zoom to the extent of the field job. Roll over an icon to view the Tool Tip that explains its functionality.

Editing a Field Job

To edit a field job:

1. Click the **Field Jobs** menu button in the lower right-hand corner of the map view.



2. Click the **Edit** icon associated with the job to be edited.



3. Input necessary edits in the resulting populated **Field Job Maintenance** dialog box.

Field Job Maintenance

Name: 316 Juanita St

Job Number: 223344

Job Type: Damage Report

Comments:

Save Cancel

Submit Field Job Set as Current

4. Click one of the following:
 - **Save** to save the edits.
 - **Cancel** to cancel the edits.
 - **Submit Field Job** to submit the edited job for review in spatialNET.
 - **Set as Current** to set the job as the current job.

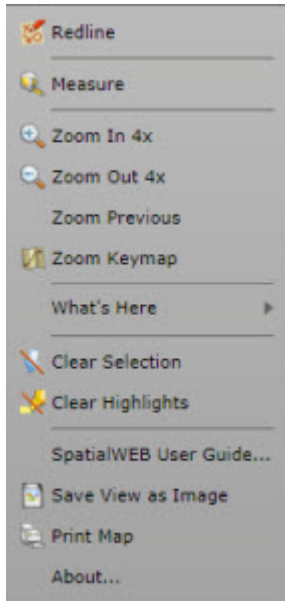
Redlining

Use the redlining tools to edit a map by adding text, lines, polygons and symbols.

Note: You must create or open a field job to enable redlining functionality. See *Creating a Field Job*.

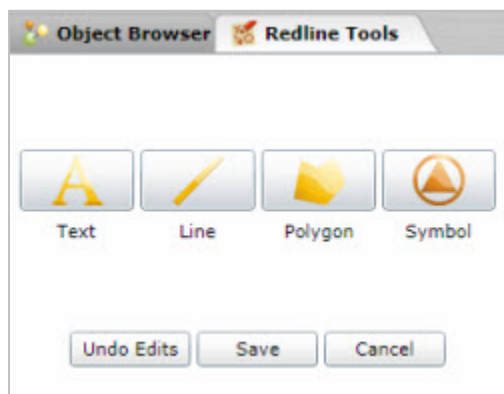
To access the redline tools:

1. In a map view, right-click to open the Mouse Menu and click **Redline**, or



Click the **Open Redline Panel** button on the spatialWEB Toolbar, or

2. Click on the **Redline Tools** panel.

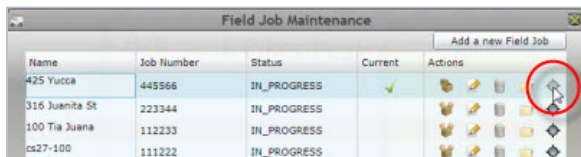


To add text:

1. Open a field job and access the Redline Tools.
2. Click the **Text** button to open a new text box.
3. Drag the text box to the appropriate location on the map and click once to anchor it in place.
4. Type in the desired text; then press **Enter** on your keyboard.
The text appears on the map, and the box around it disappears.
5. Click **Save** to save the text, OR click **Undo Edits** to delete the text and any other edits before exiting from Redline Tools.

Note: To delete a single object without affecting other edits, right-click on the object to be deleted and click the resulting **Delete Object** command.

6. To locate the redline later, open the field job and zoom to it.



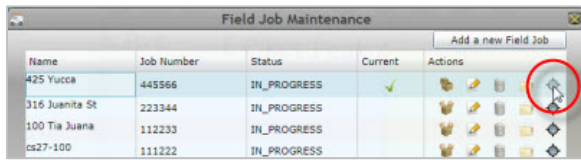
Note: If text markup is not visible, select My Preferences and ensure that the Markup option is checked.

To add a line:

1. Open a field job and access the Redline Tools.
2. In the **Redline Tools** panel, click on the **Line** button.
3. Select the desired line type from the drop-down box:
 - Default
 - Default Leader
 - Default Note Border
4. Double-click at the starting point on the map to begin drawing the line.
5. When finished, double-click to end the line.
6. (Optional) Click on the line to reveal each vertex. Right-click on a vertex to delete it, or right-click on a line to add a vertex, if desired.
7. Click **Save** to save the line, OR click **Undo Edits** to delete the line and any other edits before exiting from Redline Tools.

Note: To delete a single object without affecting other edits, right-click on the object to be deleted and click the resulting **Delete** command.

8. To locate the redline later, open the field job and zoom to it.

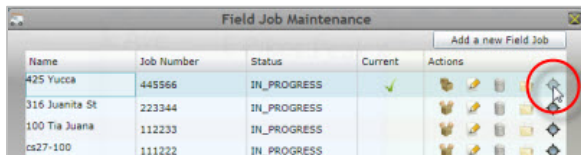


To add a polygon:

1. Open a field job and access the Redline Tools.
2. In the **Redline Tools** panel, click on the **Polygon** button.
3. Click at the starting point on the map to begin drawing the polygon.
4. Click once to anchor the line at each point of the polygon.
5. When finished, connect the last point to the first point of the polygon and double-click to finish the drawing.
6. (Optional) Click on the polygon to reveal each vertex. Right-click on a vertex to delete it, or right-click on a line to add a vertex, if desired.
7. Click **Save** to save the polygon, OR click **Undo Edits** to delete the line and any other edits before exiting from Redline Tools.

Note: To delete a single object without affecting other edits, right-click on the object to be deleted and click the resulting **Delete Object** command.

8. To locate the redline later, open the field job and zoom to it.







To add a symbol:

1. Open a field job and access the Redline Tools.
2. In the **Redline Tools** panel, click on the **Symbol** button.
3. Select the desired symbol type from the drop-down box:
 - Guy
 - Pillar
4. Double-click on the desired location of the map to anchor the symbol.
5. Click **Save** to save the symbol, OR click **Undo Edits** to delete the symbol and any other edits before exiting from Redline Tools.

Note: To delete a single object without affecting other edits, right-click on the object to be deleted and click the resulting **Delete Object** command.

- To locate the redline later, open the field job and zoom to it.

Name	Job Number	Status	Current	Actions
425 Yucca	445566	IN_PROGRESS	✓	
316 Juanita St	223344	IN_PROGRESS		
100 Tia Juana	112233	IN_PROGRESS		
cs27-100	111222	IN_PROGRESS		

Fiber Tags


Tagging a Fiber

Fiber tags are referred to as *circuit tags* in spatialNET.

To tag a fiber:

- In the map view, click the desired fiber segment.

- In the Object Browser, click the  icon to open the Fiber List.

- Locate the desired fiber and click the related tag  icon.
- Create a Field Job for this tag.
- In the Tag Fiber dialog box:

- Reuse an existing tag or create a new one by using the appropriate drop-down list.
- Input the reason for the tag.
- Select the expiration date for the tag in the calendar. If **Auto Delete Allowed** is checked, the tag is automatically deleted when the expiration date passes.

Reuse An Existing Tag
Select an existing tag from this field job to re-use it:

Create New Tag
Tag Type:
Reason for this Tag:

Tag Expiration Date
July 2011

Su	Mo	Tu	We	Th	Fr	Sa
26	27	28	29	30	1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31	1	2	3	4	5	6

 Auto Delete Allowed

- Click the **Tag Fiber** button. The color of the reserved tag in the Fiber List changes to red.

11	BL	KS	CS06 Future	
12	BL	AQ	CS06 Future	
13	OR	BL	No Desc	
14	OR	OR	No Desc	
15	OR	GR	No Desc	

- Click the reserved tag to see the details of the reserved fiber in the Object Browser.



- (Optional) Click the **Edit Tag** icon to edit the tagged fiber, or click the **Delete Tag** icon to delete the reserved tag.

Reserving a Space

Reserving a Space in a Rack

To reserve a space in a rack:

- Select an ISP building in the map view or Object Browser.
- Select the appropriate rack.



- Click on the **Reserve A Space** icon.

4. In the resulting Rack Markup dialog box:
 - a. Select the mount points.
 - b. Select the chassis type.
 - c. Enter a name and a summary, if desired.

The screenshot shows a web browser window titled "Rack markup - Windows Interne...". The main content area contains a form with the following fields:

- Mount Points:** A dropdown menu with "01" selected.
- Chassis type:** A dropdown menu with "1.75-19IN CHASSIS" selected.
- Name:** An empty text input field.
- Summary:** An empty text area.

 At the bottom right of the form is a blue button labeled "Reserve".

5. Click **Reserve**. The reserved mount points are displayed in the dialog box, and the Update and Delete buttons replace the Reserve button.
6. (Optional) To make edits, click **Update** to save changes to the card type and/or new mount points. Click **Delete** to delete highlighted mount points and associated card type.

The screenshot shows the same web browser window after the "Reserve" action. The form fields are:

- Mount Points:** A dropdown menu showing "116(Reserved)".
- Chassis type:** A dropdown menu with "1.75-19IN CHASSIS" selected.
- Name:** An empty text input field.
- Summary:** An empty text area.

 At the bottom right of the form are two blue buttons: "Update" and "Delete".

Reserving a Card in a Chassis

1. Select an ISP building in the map view or Object Browser.
2. Select the appropriate chassis.



3. Click the **Reserve A Space** icon.
4. In the resulting Chassis Markup dialog box:
 - a. Select the mount points.
 - b. Select the card type.
 - c. Enter a name and a summary, if desired.

The dialog box titled "Chassis Markup - Windows Inte..." contains the following fields and controls:

- Mount Points:** A dropdown menu with "02" selected.
- Card type:** A dropdown menu with "1 X 2 PART A OF 2 X 4" selected.
- Name:** An empty text input field.
- Summary:** An empty text area with a vertical scrollbar.
- Reserve:** A blue button at the bottom right.

5. Click **Reserve**. The reserved mount points are displayed in the dialog box, and the Update and Delete buttons replace the Reserve button.
6. (Optional) To make edits, click **Update** to save changes to the card type and/or new mount points. Click **Delete** to delete highlighted mount points and associated card type.

The dialog box titled "Chassis Markup - Windows Inte..." is shown after the "Reserve" button is clicked. The fields and controls are updated as follows:

- Mount Points:** The dropdown menu now displays "12(Reserved)".
- Card type:** The dropdown menu remains "1 X 2 PART A OF 2 X 4".
- Name:** The text input field remains empty.
- Summary:** The text area remains empty.
- Update:** A blue button at the bottom left.
- Delete:** A blue button at the bottom right.

Reports

Exporting Reports to Excel

To export report results to Excel, click the  [Export to Excel](#) icon. If the icon is not present, the results cannot be exported.

Boundary Reports Available from the Object Browser

Plant Reports

RF Nodes and Actives

This report displays all RF nodes and actives within the boundary, the nearest address to each and the precise distance of each.


To access this report:



1. Click on the **RF Nodes & Actives** icon.

Note: If a large boundary perimeter is selected, the report may take a few minutes to run.

Type	Name	Nearest Address	Address Distance
RF Node	CSK3	415 ARRAWANNA ST COLORADO SPRINGS CO 80909-6203	229'
RF Active	CSK3-D14	808 HOLMES DR COLORADO SPRINGS CO 80909-5019	52'
RF Active	CSK3-D15	3123 MISSION ST COLORADO SPRINGS CO 80909-5026	92'
RF Active	CSK3-D17	842 KINGSLEY DR COLORADO SPRINGS CO 80909-4102	96'
RF Active	CSK3-D20	907 KINGSLEY DR COLORADO SPRINGS CO 80909-4103	80'

2. (Optional) To export report the results of this report to Excel, click the  [Export to Excel](#) icon.

Sites and Buildings

This report lists all sites and buildings within the selected boundary.



To access this report, click the **Sites & Buildings** icon.

Note: If a large boundary perimeter is selected, the report may take a few minutes to run.

Report of sites and buildings contained within Boundary (Node) CSK3

Site/Building Name	Address Line 1	Address Line 2	City	State	Zip	Location	Owner	Contact	Nearest Cable	Distance	Link
Tower #5	309 Arrawana Street		Colorado Springs	CO		55.1 feet tall	New Cingular Wireless Services	Kellye E Abernathy - KA8805@att.com	CSK3-100 (50% dark - 2 fibers)	23 ft	Map
CSK3									CSK3-100 (50% dark - 2 fibers)	10 ft	Map
CSK3									CSK3-2-P (0% dark - 0 fibers)	0 ft	Map

Address Reports

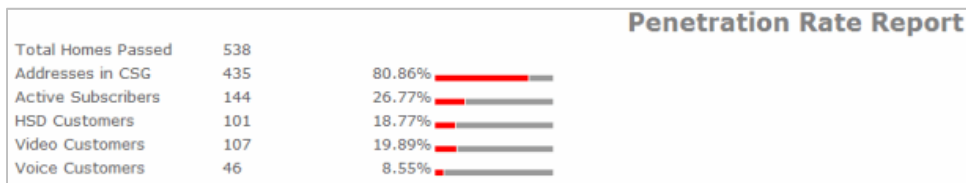
Penetration Rate

This report summarizes the services subscribed by customers within the selected boundary. It can be used by sales and marketing personnel to determine which services to market to that customer base.

This feature is available only if billing and address information is in the spatialNET database.



To access this report, click the **Penetration Rate** icon in the Object Browser. The report opens in a separate window.



Serviceability

This report analyzes the serviceability of all addresses in a selected Node Boundary.

See also *Determining if an Address is Serviceable*.

To access the Serviceability report:



1. Click on the **Serviceability** icon in the Object Browser. A query window opens.

Serviceability Report for Addresses in Selected Boundary

Analyze the serviceability of all addresses in Node Boundary CSK3 for Cable Service

Filter results by

SIC codes starting with

SIC Description ▼


Address Type Residential Businesses & Home Offices

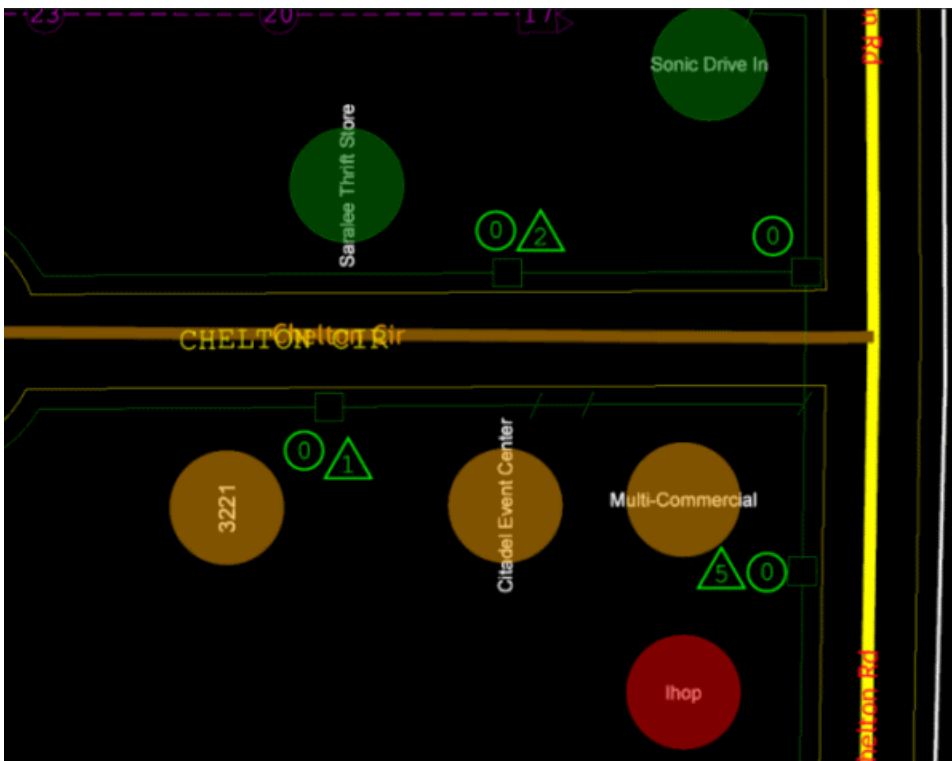
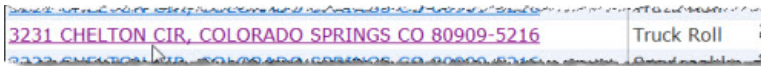
Only show addresses that ▼ active customers

Only show customers that ▼ Video ▼ HSD ▼ Voice

Report Options Show Business Details Show Customers and Services

Run Report

2. Select **Cable Service** or **Fiber** from the first drop-down list.
3. (Optional) Enter an SIC code in the appropriate field and select the desired SIC Description from the drop-down list.
4. Select the Address Type. (If merged data is not available, Business and Home Offices are not available.)
5. Use the remaining drop-down lists to customize your report.
6. Check the appropriate Report Option.
7. Click **Run Report** and allow a few moments for the report to run. The report will appear in a separate window and can be exported to Excel by clicking the  **Export to Excel** icon at the top of the report.
8. Click on a desired address in the report to open the map view of that address.



Addresses appear inside colored circles:

- **Red** indicates **Not Serviceable**.
- **Orange** indicates a **Truck Roll** is necessary to determine serviceability.
- **Green** indicates **Serviceable**.

You can change the size of the circle in the Map Options section of My Preferences.

Address List

This report provides addresses for sales and marketing purposes.

To access this report:



1. Click the **Address List** icon in the Object Browser. A query window opens.

2. Open the drop-down menu and click on the appropriate grouping method for the addresses.

3. Click the **Create Report** button. A summary of addresses report opens in a new window.


Summary of addresses within Boundary selected: Node - CSK3						
STREET_NUMBER	UNIT	STREET_ADDRESS	CITY	STATE	ZIP	BUILDING_TYPE
406		N ARRAWANNA ST	COLORADO SPRINGS	CO	80909	MULTI
406 1/2		N ARRAWANNA ST	COLORADO SPRINGS	CO	80909	RES
615A		N ARRAWANNA ST	COLORADO SPRINGS	CO	80909	RES
616		N ARRAWANNA ST	COLORADO SPRINGS	CO	80909	MULTI
NA		N ARRAWANNA ST	COLORADO SPRINGS	CO	80909	RES
300	1	Arrawanna St		CO	80909	MULTI
300	10	Arrawanna St		CO	80909	MULTI

4. (Optional) To return to the query window, right-click and select **Back** from the Mouse Menu.

Reports Available from the spatialWEB Toolbar

Serviceability Analysis

This link opens the Serviceability tool. To access the tool:

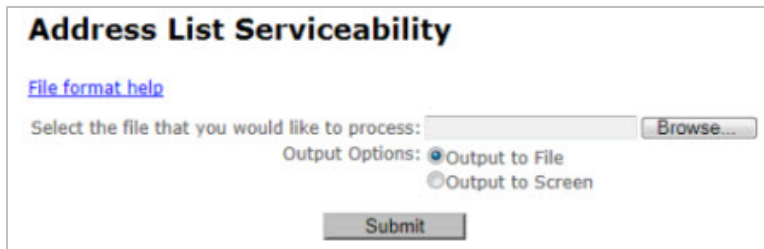
1. Click on the **Show Available Reports**  button on the spatialWEB toolbar.
2. Select **Serviceability Analysis** in the Available Reports list in the Object Browser.
3. See *Determining if an Address is Serviceable* for details.

Address List Serviceability

This report analyzes serviceability for a group of addresses and publishes the results in .xml format. The report can be saved to a file or displayed in a new window in spatialWEB.

To generate this report:

1. Use the **Browse** button to locate and select the file to process.



The acceptable file format is shown below:

```
<Addresses>
  <Address>28 S TEJON STREET, COLORADO SPRINGS CO 80903</Address>
  <Address>121 S TEJON STREET, COLORADO SPRINGS CO 80903</Address>
  <Address>508 W PIKES PEAK AVENUE, COLORADO SPRINGS CO 80905</Address>
  <Address>414 W COLORADO AVENUE, COLORADO SPRINGS CO 80905</Address>
</Addresses>
```

2. Select the output option and click **Submit**. The report appears in .xml format.

```


<?xml version="1.0" encoding="utf-8" ?>
- <ArrayOfServiceabilityResult xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema">
- <ServiceabilityResult>
- <Address>
  <StreetNumber>28</StreetNumber>
  <DirPrefix>S</DirPrefix>
  <StreetName>TEJON</StreetName>
  <StreetType>ST</StreetType>
  <City>COLORADO SPRINGS</City>
  <State>CO</State>
  <Zip>80903-1531</Zip>
</Address>
<StandardizedAddress>28 S TEJON ST COLORADO SPRINGS CO 80903-1531</StandardizedAddress>
<ServiceabilityServiceLevel>DefaultNotServiceable</ServiceabilityServiceLevel>
<ServiceabilityServiceType>Fiber</ServiceabilityServiceType>
<ServiceabilityReason>No Rules Matched.</ServiceabilityReason>
<Latitude>38.833411</Latitude>
<Longitude>-104.823736</Longitude>
<SupportStructure />
<SourceEnti />
<BusinessList />
<CustomerList />
</ServiceabilityResult>
- <ServiceabilityResult>
- <Address>
  <StreetNumber>28</StreetNumber>
  <DirPrefix>S</DirPrefix>
  <StreetName>TEJON</StreetName>
  <StreetType>ST</StreetType>
  <City>COLORADO SPRINGS</City>
  <State>CO</State>
  <Zip>80903-1531</Zip>
</Address>
<StandardizedAddress>28 S TEJON ST COLORADO SPRINGS CO 80903-1531</StandardizedAddress>
<ServiceabilityServiceLevel>DefaultNotServiceable</ServiceabilityServiceLevel>
<ServiceabilityServiceType>Wimax</ServiceabilityServiceType>

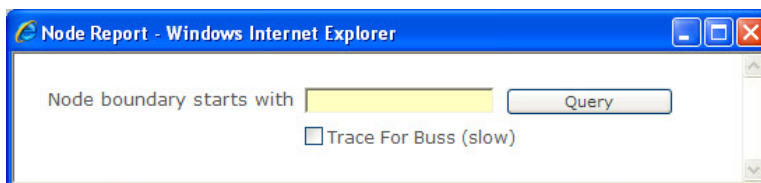
```

Addresses in Node/Buss Report

This report displays the addresses served by the designated node or buss. Results from this report can assist in determining if the information in a billing system is current.

To access this report:

1. Click on the **Show Available Reports**  button on the spatialWEB toolbar.
2. Click **Addresses in Node/Buss Report** in the Available Reports list in the Object Browser. A query panel opens in a separate window.



3. Input the full name of the Node (e.g., CS45) or the beginning of the Node name (e.g., CS).
4. (Optional) Check the **Trace for Buss** option to include Buss information in the report. (This option may slow query results.)
5. Click the **Query** button. Results will appear in a separate window.


Addresses in Node report for Node names starting with CS45											
Node Name	UNIT	UNIT_TYPE	STREET_NUMBER	DIRPREFIX	STREET_NAME	STREET_TYPE	DIRSUFFIX	CITY	STATE	ZIP	HOUSE_KEY
CS45			4740	N	ACADEMY	BLVD		COLORADO SPRINGS	CO	80918	
CS45			4870	N	ACADEMY	BLVD		COLORADO SPRINGS	CO	80918	8091800004925
CS45			2838		DUSK	DR		COLORADO SPRINGS	CO	80918	

Addresses in Node (w/ Buss) report for Node names starting with CS45					
Node	Buss	Address	Address ID	House Key	Customer ID
CS45	-	4765 SHADOWGLEN DR, COLORADO SPRINGS CO 80918-4252	CSG11732980	80918425200124	
CS45	-	4761 SHADOWGLEN DR, COLORADO SPRINGS CO 80918-4252	CSG11732979	80918425200116	
CS45	-	4757 SHADOWGLEN DR, COLORADO SPRINGS CO 80918-4252	CSG11732969	80918425200017	
CS45	-	4753 SHADOWGLEN DR, COLORADO SPRINGS CO 80918-4252	CSG11732978	80918425200108	
CS45	-	4760 SHADOWGLEN DR, COLORADO SPRINGS CO 80918-4251	CSG11732965	80918425100068	
CS45	-	4749 SHADOWGLEN DR, COLORADO SPRINGS CO 80918-4252	CSG11732977	80918425200090	

Polygon Interaction Report

This report lists all polygons and the polygons in which they reside.

To access this report:

1. Click on the **Show Available Reports**  button on the spatialWEB toolbar.
2. Select **Polygon Interaction Report** in the Available Reports list in the Object Browser. A query panel opens in a separate window.

Boundary Interaction Report

Show boundaries of type... **Airport** ... which ... have any interaction with ... boundaries of type **Airport**

3. Use the drop-down lists to select the appropriate types of boundaries and interaction.

Boundary Interaction Report

Show boundaries of type... **Buss** ... which ... have any interaction with ... boundaries of type **Airport**

- Buss
- Airport
- Buss**
- Class Attributes
- County
- Job
- Large Area
- MCD
- Major Place
- Map Set
- Minor Civil District
- Node
- Park
- Place
- Place2
- Primary Hub
- Query
- Rate Center
- Region
- Secondary Hub
- State
- UMPO1
- Water Polygon
- Zip Code

Boundary Interaction Report

Show boundaries of type... **Buss** ... which ... have any interaction with ... boundaries of type **Airport**

have any interaction with
only touch
have intersecting boundaries and overlapping interiors with
are completely inside
are completely covered by
completely contain

Boundary Interaction Report

Show boundaries of type... **Buss** ... which ... are completely inside ... boundaries of type **Airport**

Analyze Now (this takes a while)

Airport
Buss
Class Attributes
County
Job
Large Area
MCD
Major Place
Map Set
Minor Civil District
Node
Park
Place
Place2
Primary Hub
Query
Rate Center
Region
Secondary Hub
State
UMP01
Water Polygon
Zip Code

- Click the **Analyze Now** button and allow some time for the report to run. Results appear in the same query window as shown below.

Boundary Interaction Report

Show boundaries of type... **Buss** ... which ... are completely inside ... boundaries of type **Airport**

Analyze Now (this takes a while)

Buss boundaries which are completely inside **Airport** boundaries:


Boundary Name
SL01A
SL01B
SL01C
SL02D
SL03A
SL03B
SL03C
SL03D

Records returned: 8
Execution time: 2.0s

Fiber Color Specification

This report displays fiber and cable configurations, specifications, and sequences that are used in the data set.

To access this report:

1. Click on the **Show Available Reports**  button on the spatialWEB toolbar.
2. Select **Fiber Color Specification** in the Available Reports list in the Object Browser.
3. Select the appropriate cable type from the drop-down list and click the **Generate Color Specification** button to display the report.

Fiber Color and Grouping Specification

Cable Type 012-Cbl, Dry Core, Loose Tube ▼

Fiber Count configured in Dictionary: 12
 Fiber Cable Configuration: 1x12
 Fibers in the Configuration: 12
 Glass Type 1: Unknown
 Glass Type 2: Unknown
 Glass Type 3: Unknown
 Color Scheme Name: TIA/EIA-598-A (1)

Cable Configuration for type 012-DRY CORE

Sequence	Fiber	Fiber Color	Glass	Number Format	Color Format
1	1	Blue	Unknown	1	Blue
2	2	Orange	Unknown	2	Orange
3	3	Green	Unknown	3	Green
4	4	Brown	Unknown	4	Brown
5	5	Slate	Unknown	5	Slate
6	6	White	Unknown	6	White
7	7	Red	Unknown	7	Red
8	8	Black	Unknown	8	Black
9	9	Yellow	Unknown	9	Yellow
10	10	Violet	Unknown	10	Violet
11	11	Rose	Unknown	11	Rose
12	12	Aqua	Unknown	12	Aqua

MapUpdater Drawing Status

This report lists the map names and the dates and times they were uploaded within spatialWEB. Map names are listed alphabetically. This report is available only to customers using MapUpdater.

To access this report:


1. Click on the **Show Available Reports**  button on the spatialWEB toolbar.
2. Select **MapUpdater Drawing Status** in the Available Reports list in the Object Browser.

MapUpdater Drawing Status	
NAME	DATE_PUBLISHED
F:\MAPS\MAPS\ACRES GREEN\AG01-DB.DWG	2/24/2009 2:54:03 AM
F:\MAPS\MAPS\ACRES GREEN\AG01-DESIGNNOTES.DWG	10/8/2008 11:11:12 PM
F:\MAPS\MAPS\ACRES GREEN\AG01.DWG	2/24/2009 2:55:36 AM
F:\MAPS\MAPS\ACRES GREEN\AG01P1.DWG	12/4/2007 12:23:11 AM
F:\MAPS\MAPS\ACRES GREEN\AG01P2.DWG	12/4/2007 12:23:14 AM
F:\MAPS\MAPS\ACRES GREEN\AG01P3.DWG	12/4/2007 12:23:17 AM
F:\MAPS\MAPS\ACRES GREEN\AG01P4.DWG	12/4/2007 12:23:20 AM
F:\MAPS\MAPS\ACRES GREEN\AG01P5.DWG	12/4/2007 12:23:24 AM
F:\MAPS\MAPS\ACRES GREEN\AG01P6.DWG	12/4/2007 12:23:27 AM
F:\MAPS\MAPS\ACRES GREEN\AG01P7.DWG	12/4/2007 12:23:30 AM
F:\MAPS\MAPS\ACRES GREEN\AG01S.DWG	12/4/2007 12:23:34 AM
F:\MAPS\MAPS\ARAPAHOE COUNTY\AC01-DB.DWG	6/10/2008 10:46:54 PM
F:\MAPS\MAPS\ARAPAHOE COUNTY\AC01-DESIGNNOTES.DWG	12/3/2007 11:56:15 PM
F:\MAPS\MAPS\ARAPAHOE COUNTY\AC01.DWG	6/10/2008 10:50:53 PM
F:\MAPS\MAPS\ARAPAHOE COUNTY\AC01P1.DWG	12/3/2007 11:57:12 PM
F:\MAPS\MAPS\ARAPAHOE COUNTY\AC01P2.DWG	12/3/2007 11:57:15 PM
F:\MAPS\MAPS\ARAPAHOE COUNTY\AC01P3.DWG	12/3/2007 11:57:18 PM

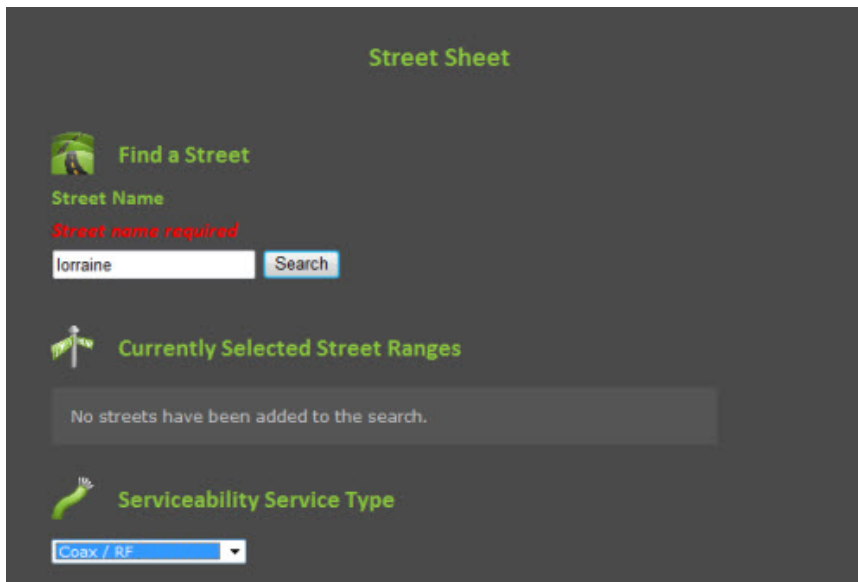
Street Sheet Report

This report returns addresses within a selected range along a specific street.

To generate the report:

1. Click on the **Show Available Reports**  button on the spatialWEB toolbar.
2. Select **Street Sheet** in the Available Reports list in the Object Browser.
3. Type the name or partial name of the street in the Street Name field, select the service type from the drop-down list, and click the **Search** button.

(To narrow the search, include St., Cir., Dr., etc. in the field. City, State and Zip information can also be used.)



Street Sheet

Find a Street

Street Name
Street name required

lorraine Search

Currently Selected Street Ranges

No streets have been added to the search.

Serviceability Service Type

Coax / RF

The window displays the number of records for that street name and the range of addresses for the first record in the list.



Street Sheet

Find a Street

Street Name

Lorraine Ct, Colorado Springs

From To

Min Address: 215 Max Address: 271

Street search returned 4 record(s)

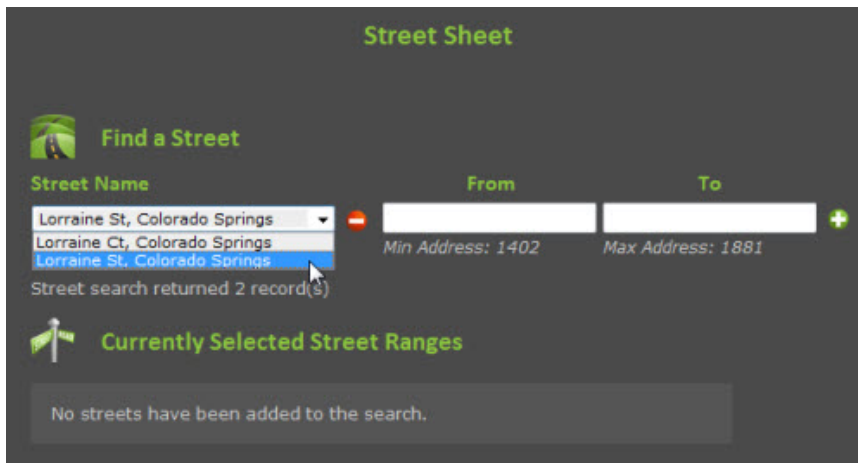
Currently Selected Street Ranges

No streets have been added to the search.

Serviceability Service Type

Coax / RF

4. Open the drop-down list and select the appropriate street, if necessary.



Street Sheet

Find a Street

Street Name: Lorraine St, Colorado Springs (selected)
 Lorraine Ct, Colorado Springs
 Lorraine St, Colorado Springs
 Street search returned 2 record(s)

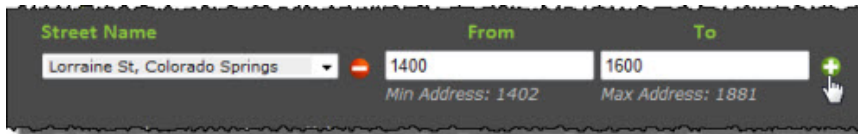
From: [] To: []
 Min Address: 1402 Max Address: 1881

Currently Selected Street Ranges

No streets have been added to the search.

The min and max address numbers change to match the selected street.

5. Input the address range and click the + sign.

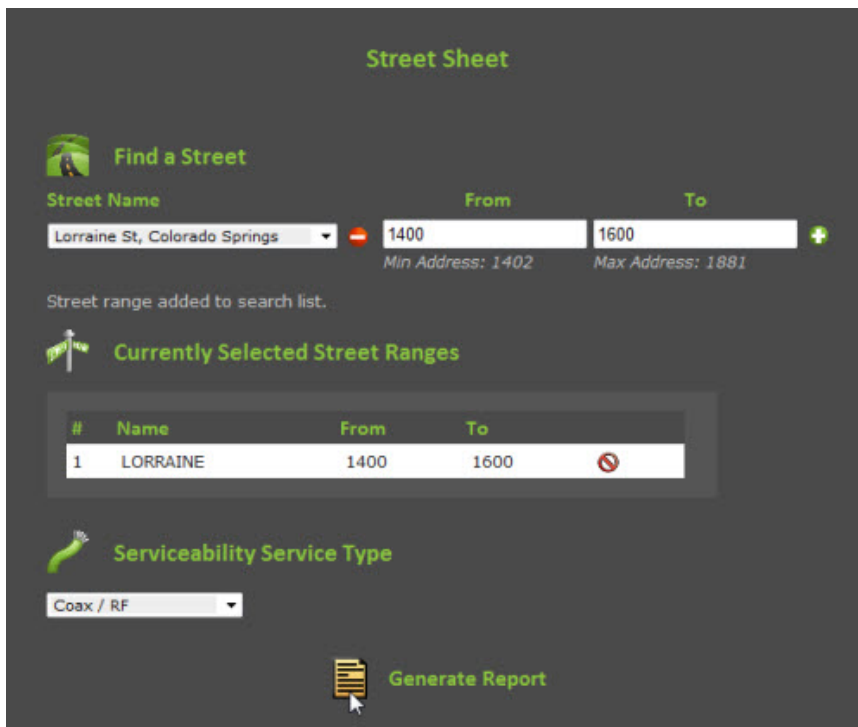


Street Name: Lorraine St, Colorado Springs

From: 1400 To: 1600
 Min Address: 1402 Max Address: 1881

The parameter set for the report appears in the Currently Selected Street Ranges area.

6. Click the **Generate Report** icon and allow some time for the report to generate.



Street Sheet

Find a Street

Street Name: Lorraine St, Colorado Springs

From: 1400 To: 1600
 Min Address: 1402 Max Address: 1881

Street range added to search list.

Currently Selected Street Ranges


#	Name	From	To
1	LORRAINE	1400	1600


Serviceability Service Type








Coax / RF

Generate Report

The report lists the current services and serviceability status for each address within the given parameters.

 **Street Sheet Report**


 **LORRAINE ST, COLORADO SPRINGS, CO, 80905**

#	Address	Current Services	Coax / RF Serviceability
1	1402 LORRAINE ST, COLORADO SPRINGS CO 80905		Serviceable There is a current customer at this address.
2	1431 LORRAINE ST, COLORADO SPRINGS CO 80905		Serviceable There is a current customer at this address.
3	1502 LORRAINE ST, COLORADO SPRINGS CO 80905	  	Serviceable There is a current customer at this address.
4	1509 LORRAINE ST, COLORADO SPRINGS CO 80905		Serviceable There is a current customer at this address.
5	1511 LORRAINE ST, COLORADO SPRINGS CO 80905		Serviceable There is a current customer at this address.
6	1512 LORRAINE ST, COLORADO SPRINGS CO 80905		Serviceable Drop distance is less than 250 FT.
7	1516 LORRAINE ST, COLORADO SPRINGS CO 80905		Serviceable Drop distance is less than 250 FT.
8	1517 LORRAINE ST, COLORADO SPRINGS CO 80905		Serviceable There is a current customer within 100 FT.


Schematics and Detailed Drawings

Viewing Multi-Dwelling Units (MDUs)

To view an MDU:

1. Click on the MDU element on the map view.
2. In the Object Browser, select a unit within the MDU
3. Click on the  **MDU Drawing: Internal Drawing** icon in the Object Browser.






4. Click on the resulting  **Display MDU Detail** icon in the Object Browser to see the floor plan in the map view.
5. Within the drawing, click on any element to view more information in the Object Browser.
6. Click the **Close** button in the lower right-hand corner to exit the schematic and return to the map.

Viewing Schematics

Schematic views are available for buildings, floor plans and racks.

To view a schematic drawing:

1. Click on the appropriate icon when listed in the Object Browser:

Schematic	Floor Plan	Rack
 Display Schematic	 Display Floor Plan	 Display Rack Elevation

2. To exit the schematic and return to the map, click the **Close** button in the lower right-hand corner of the schematic.

Viewing Inside Plant (ISP) Details

To view ISP details:

1. Use the Search feature to locate ISP devices.
2. Select the ISP equipment in the map view.

The Object Browser displays the selected equipment in the Containment tree, with the highest level of equipment listed first.



3. Click on any element in the schematic to see related information in the Object Browser.

Note: ISP views can be saved as a map view. See *Saving, Opening and Deleting Map Views* for details.

Serviceability


Accessing the Serviceability Tool

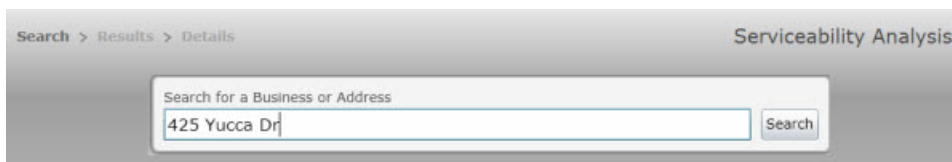
The Serviceability Analysis interface can be accessed in several ways:

- Through the spatialWEB interface, using several search methods
- In your web browser

Using the spatialWEB interface

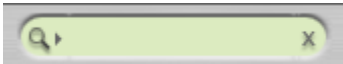
To determine serviceability for a specific address:

1. Click the **Show Available Reports**  icon on the spatialWEB toolbar.
2. Select **Serviceability Analysis** from the resulting Available Reports list in the Object Browser.
3. Type a specific address (e.g., 425 Yucca Dr) in the resulting search field and click **Search**.



The Serviceability Analysis report displays fiber, wimax and coax serviceability for that address.

OR

1. Locate an address using the **Search**  field.
2. Select the appropriate address in the Object Browser.



Analyze

3. Click the **Serviceability** icon in the Object Browser.

The Serviceability Analysis report displays fiber, wimax and coax serviceability for that address.

To specify the service type(s) in the serviceability search:

1. Click the **Show Available Reports**  icon on the spatialWEB toolbar.
2. Select **Serviceability Analysis** from the resulting Available Reports list in the Object Browser.

3. Type a partial address (e.g., street name only or address number only) in the search field and click **Search**.

Search > Results > Details Serviceability Analysis

Search for a Business or Address

Yucca Dr Search

4. Click on the appropriate address and select the desired Report Options.

Search > Results > Details Serviceability Analysis

Search for a Business or Address

Yucca Dr Search

- 515 YUCCA DR
COLORADO SPRINGS CO 80905-2039
- 517 YUCCA DR
COLORADO SPRINGS CO 80905-2039
- 519 YUCCA DR
COLORADO SPRINGS CO 80905-2039
- 521 YUCCA DR
COLORADO SPRINGS CO 80905-2039
- 523 YUCCA DR
COLORADO SPRINGS CO 80905-2039
- 502 YUCCA DR
COLORADO SPRINGS CO 80905-2040

Report Options

- Fiber
- Wimax
- Coax / RF

Calculate Serviceability

spatialweb

5. Click **Calculate Serviceability**. The Serviceability Analysis report displays the serviceability level of the selected service type(s) for that address.

Using your web browser

To determine serviceability for a specific address:

1. Input the spatialWEB URL, followed by **serviceability.aspx**.
2. Type a specific address (e.g., 425 Yucca Dr) in the resulting search field and click **Search**.

Search > Results > Details Serviceability Analysis

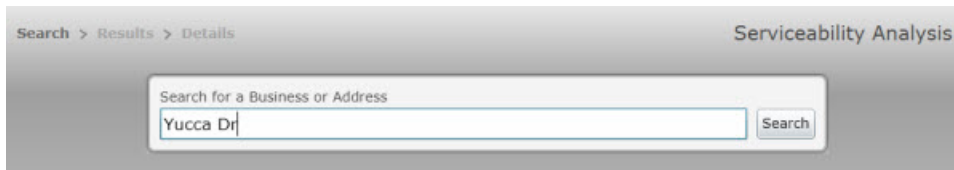
Search for a Business or Address

425 Yucca Dr Search

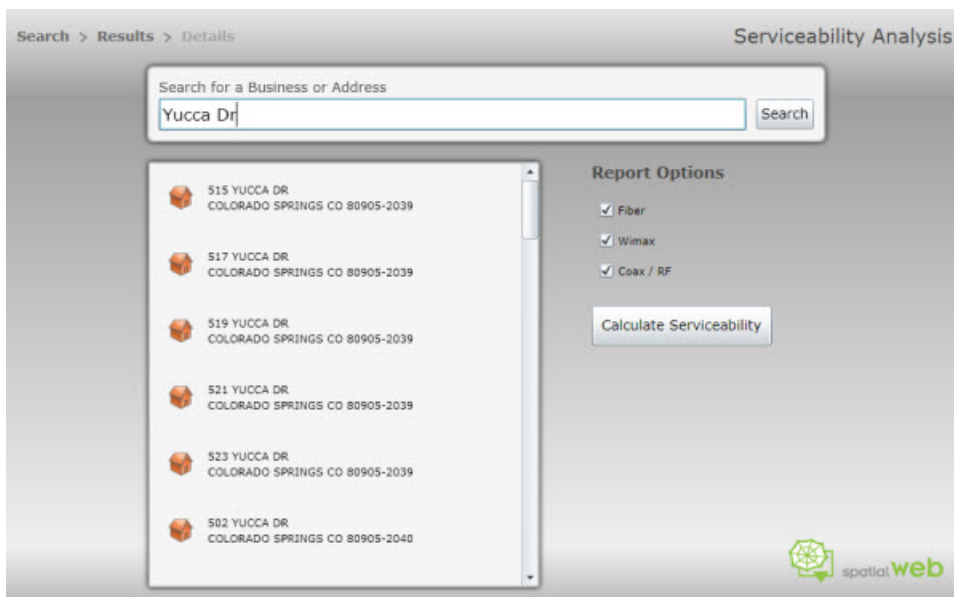
The Serviceability Analysis report displays fiber, wimax and coax serviceability for that address.

To specify the service type(s) in the serviceability search:

1. Input the spatialWEB URL, followed by serviceability.aspx.
2. Type a partial address (e.g., street name only or address number only) in the search field and click Search.



3. Click on the appropriate address and select the desired Report Options.



4. Click **Calculate Serviceability**. The Serviceability Analysis report displays the serviceability level of the selected service type(s) for that address.

Determining if an Address is Serviceable

See also *Serviceability Analysis*.

To determine if an address is serviceable:

1. Access the Serviceability Tool for the address in question.

The Serviceability Analysis panel displays serviceability information for each service type at that address. Depending upon the configuration, other service types such as Satellite or Wimax may appear in the list.

Service Type	Serviceability Level	Details	Reason	Is Billed	Show Map
Fiber	No Serviceability Result		No Rules Matched.	True	Show Map
Wimax	No Serviceability Result		No Rules Matched.	True	Show Map
Coax	Serviceable	Drop Type Aerial Drop Distance 78 FT	Drop distance is between 0 and 1000 FT.	True	Show Map

2. Click **Show Map** to view the address and active services in the map view.

On the map, the active service(s) at an address are represented by the following icons, as appropriate:



Note: Serviceability level results for each service type are determined by the first configured rule that is matched in the spatialWEB Configuration Tool. See your system administrator for details.

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