

## OSPinSight® OSPM-Edit for ESRI Comparison

Function	OSPM-Edit Version 1x	OSPM-Edit Version 2x
<b>Place the following items on a map and link the map object to non-spatial attributes stored in a relational database</b>		
Buildings	X	X
Access points (handholes, manholes, vaults, pedestals, polebox, etc)	X	X
Fiber distribution panels/ Frames (FDF's), Nodes	X	X
Cable spans (fiber, copper, coax)	X	X
Cable slack	X	X
Splice enclosures	X	X
Ductbank (conduit)	X	X
Superduct	X	X
Innerduct	X	X
Nodes	X	X
Poles	X	X
<b>Buildings</b>		
Place building on the map	X	X
Place a building on the map with reference to digital aerial photography	X	X
GPS (X/Y coordinates from map) available	X	X
Relate fiber distribution panels to the building	X	X
Track number of floors and basements in the building	X	X
Relate splice enclosures to the building	X	X
Relate ductbanks (conduit) to a building	X	X
Track building owner information		X
Track type of building, "on-net," or "off-net," hub, POP, etc...		X
Track number of diverse entries into the building	X	X
Relate any documentation directly to the building	X	X
Place FDF's by room and rack	X	X
Track customers by building location	X	X
"Quick add" feature allows placing multiple buildings without opening the editor by-passing information population		X
Modify building footprint	X	X
Customize building objects by attribute using ESRI features.	X	X
Thematically map building objects using ESRI features.	X	X
Create custom labels from attribute data	X	X
<b>Access Point Information (Manholes, Handholes, Vaults, Pedestals, etc)</b>		
Place and view access points on the map including associated location information	X	X
Place and view access points on the map with reference to digital aerial photography	X	X
Utilize GPS coordinates for spatial placement of the Access Point	X	X
Show the attributes of the access point including size and type	X	X

Show all cables and slack related to splice enclosures located in access points	X	X
Related duct banks to access points	X	X
Show plate markings on access points	X	X
Relate external data files such as drawings, photos, etc to access points	X	X
View cable sequential markings and cable type information for each cable span when viewing related frames or enclosures of an access point.	X	X
Relate splice enclosures to access points	X	X
Relate Butterfly drawings to an access point	X	X
"Quick add" feature allows placing multiple access points without opening the editor by-passing information population		X
Designate and display map labels with associated access point information	X	X
Customize access point objects by attribute using ESRI features	X	X
Thematically map access point objects using ESRI features	X	X
Create custom labels from attribute data	X	X
<b>Splice Enclosure Information</b>		
Place and view an installed enclosure on the map including associated attribute information	X	X
Relate an enclosure to an access point or building	X	X
Relate an enclosure to a pole		X
Relate to cable spans entering the enclosure	X	X
Track work order information	X	X
Designate and display map labels for associated enclosures	X	X
Track the tray in which splices are housed		X
View tray information in splice schematic and spreadsheets		X
View tray information in reports		X
Track installation information	X	X
Relate to a materials database containing enclosure type information	X	X
Track the type of splice that was performed for each individual fiber, ie, fusion, no splice, mechanical, rapid ribbon, etc	X	X
Relate external data files such as drawings, photos, etc to enclosures using ESRI features.	X	X
"Quick add" feature allows placing multiple enclosures without opening the editor by-passing information population		X
Customize cable objects by attribute using ESRI features	X	X
Thematically map enclosure objects using ESRI features	X	X
Create custom labels from attribute data	X	X
<b>Frame Information (Fiber Distribution Frame - FDF)</b>		
Show the FDF on a map including its building/access point relationship	X	X
Graphically show the front of the FDF	X	X
Customize the appearance and layout of an FDF panel		X
Relate the FDF to the cable spans attached to it	X	X
Track installation information	X	X
Relate to a materials database containing frame type information	X	X
Relate external data files such as drawings, photos, etc to FDF	X	X
Track all installed frame attribute information, ie, manufacturer, make, model, part number, etc.	X	X
"Quick Add" feature for ease in adding multiple frames without opening the editor by-passing information population		X
Customize (FDF) frame objects by attribute using ESRI features	X	X

Thematically map FDF (frame) objects using ESRI features	X	X
Create custom labels from attribute data	X	X
<b>Cable Information Capabilities</b>		
Show the cable attributes	X	X
Show the cable color code	X	X
For every fiber/pair in any cable have the click on the cable on the map and obtain the end-to-end connectivity throughout the network	X	X
Track the cable sequential markings for true physical cable length	X	X
Show slack loop locations including the amount of slack at the location	X	X
Create color codes for fiber and copper cables	X	X
Create custom color codes for any cable type		X
Relate the cable segment to the reel from which it came	X	X
Determine leased information for each fiber/pair in a cable span	X	X
Copy leased fiber information throughout the network specific to individual fibers		X
Track the placement of the cable such as underground, aerial, etc. and have the cable display differently on the map	X	X
Provide a general scale factor for the cable that will take the length from a physical length to an optical length	X	X
Track the owner of the cable	X	X
Relate to a materials database containing various cables type information	X	X
Relate any type of documentation to an installed cable span or cable type thereby automatically relating the document to the object when installed in the network, ie, manufacturers specifications document using ESRI features	X	X
Get an "end-point-schematic" from any fiber in any cable or from an enclosure		X
Slack record is highlighted in the Cable Editor when slack is added to a cable span		X
Add duct bank at the same time cable is drawn		X
Cable Editor/Leased Fibers: "enter one time and populate many times" feature that automatically fills in the leased fiber data based on the selected fibers being contiguously spliced from span to span		X
Relate cable spans to poles		X
Reel integrity - tracks cable length used from a reel and notifies when cable reel length has been exceeded		X
"Quick add" feature allows placing multiple cables without opening the editor by-passing information population		X
Customize cable objects by attribute using ESRI features	X	X
Thematically map cable objects using ESRI features	X	X
Create custom labels from attribute data	X	X
<b>Splicing Capabilities</b>		
Splice individual fibers from various cables at a splice enclosure	X	X
Show splice schematic for any splice location	X	X
Show splice spreadsheet for any splice location	X	X
Splice schematic displays cable bundles and fiber colors	X	X
Changes in splicing are immediately reflected in the splice schematic and splice spreadsheet	X	X
Changes in splicing are immediately reflected throughout the fiber route - data ripples through the database	X	X
Copper strands spliced with bridge taps can be performed and displayed	X	X
Splice tray field allows multiple trays		X
Bundle & colors displayed in splice key, splice by buffer tube		X

Splice via colors rather than numbers		X
Document splitters		X
Display the fiber routes through splitters		X
Display splitter information in splice schematics and spreadsheets		X
Save and export splice schematics		X
Save and view a history of splice schematics related to an enclosure		X
Add text notations and draw objects (lines, rectangles, circles, etc) to splice schematics and then save the file		X
Select a specific fiber in a Splice Schematic and run a Taper Report directly from the Schematic		X
Zoom-in and zoom-out feature for viewing Schematic window		X
Zoom-in and zoom-out feature for controlling Schematic window while printing		X
Interactive Route Schematic, Endpoint Schematic, and Splice Schematic		X
Thematically map enclosure objects using ESRI features	X	X
Create custom labels from attribute data	X	X
<b>Termination Information</b>		
Show how and which position each cable fiber or copper pair is terminated in an FDF	X	X
Show the status of the terminated fiber for each panel jack position	X	X
Show the priority of the terminated fiber for each panel jack position	X	X
Show the connector type of the terminated fiber for each panel jack position	X	X
Show the user of the terminated fiber for each panel jack position	X	X
View individual signal route through the network when clicking on the related panel jack	X	X
Locate Faults automatically by inputting OTDR distance readings then viewing the highlighted location on the map along with the span and fiber ID of the fault location.	X	X
Run a taper report on the cable span where a fault is located	X	X
Show FDF location including building name, room, bay, and shelf information	X	X
Relate external data such as drawings, photos, etc using ESRI features	X	X
Find a route for any terminated fiber and then display the detailed route information including terminated fiber group name, all associated cable spans and fiber IDs, fiber route length and loss information, splice locations, termination points, patches, attached transmission equipment, users, ring or circuit identifiers*, and address information	X	X
Track Physical Ring (Circuit) information including object relationships within the ring		X
View a route schematic for the selected terminated fiber		X
View an end-point schematic for the selected terminated fiber		X
Create a separate layer of a selected route.	X	X
Connect patch cords between jacks of the FDF and/or another FDF in the same building	X	X
Relate OTDR traces to panel jacks and view those traces in their native formats		X
Relate loss information to each panel jack and show a history of past measurements taken		X
Show how a route splits the signal and the various directions a signal may go if an optical splitter or bridge tap is encountered		X

Map, label, show relationships to objects, more information, taper report, etc in the Details tab by using the short-cut menu	X	X
Show a history of OTDR traces related to specific jack positions		X
From a panel, when you "find route," trace both directions if it is patched to another jack or FDF	X	X
Track installation information	X	X
Bi-directional find route function	X	X
Perform a find route independent of the map	X	X
Improved termination status integrity (when you change a status in the panel, the status trickles through the route and is changed at the other end of the route)		X
Thematically map frames objects using ESRI features	X	X
Create custom labels from attribute data	X	X
<b>Transmission Equipment / Customers</b>		
Add transmission equipment and identify the equipment rings	X	X
Relate the equipment to the FDF jack and its connected terminated fiber	X	X
Relate customers to the equipment	X	X
See installation information for equipment	X	X
Create relations to a materials database containing various equipment type information	X	X
Relate any document directly to the equipment such as engineering detail using ESRI features	X	X
See the routes the equipment or laser is serving and all associated nodes they serve	X	X
<b>Ductbanks (Conduit)</b>		
Draw and view ductbank in the network	X	X
Relate the ductbank to access points and buildings	X	X
View the ductbank innerduct route (conduit)		X
Track the length of the ductbank	X	X
Show superduct and innerduct within a duct bank	X	X
Associate cable spans to innerduct		X
Show owner and leased information for ductbanks, superduct, and innerduct	X	X
Show the depth of each ductbank	X	X
Perform ductbank connectivity and display Ductbank Taper Reports		X
Show the different ductbank types including associated superduct, and innerduct attributes	X	X
Show whether an innerduct is open in a manhole or whether it goes straight through the access point	X	X
Improved ductbank template with copy ductbank, superduct, and innerduct information to new ductbanks		X
See the innerducts and associated cables (listed by locateid) in the relations window when you select a ductbank in the map or treeview		X
Automatic ductbank placement option when drawing cable		X
Option for adding superduct and innerduct when new duct bank is created		X
View the duct bank layout with associated cable spans shown in the proper innerducts		X
Relate any document directly to the Duct bank, such as engineering detail using ESRI features	X	X
Thematically map ductbank objects using ESRI features	X	X
Create custom labels from attribute data	X	X
<b>Poles</b>		
Show poles on a map	X	X

Show poles with reference to digital aerial photography	X	X
Show GPS (X/Y coordinates from the map) for poles	X	X
Track associated pole attributes such as type, owner, height, etc	X	X
Show the pole attachment list for all companies on a given pole including attachment category and height	X	X
Associate poles with enclosures or nodes		X
Relate any external documentation to a pole using ESRI features		X
Create multiple poles		X
Relate cable spans to poles		X
New pole template to copy pole information to new poles		X
Place poles at fixed increments along a selected route or line		X
Track lease and pole attachment information for billing purposes		X
Thematically map pole objects using ESRI features	X	X
Create custom labels from attribute data	X	X
<b>Documents</b>		
Relate OSPM and map objects to engineering and other design documents and URLs using ESRI features	X	X
Easily view the relation between an object on the map and a document thereby providing more detailed information	X	X
One-to-one relationships between OSPM and map objects to external documents and URLs using ESRI features	X	X
One-to-many and many to one relationships between OSPM and map objects to external documents and URLs using ESRI features	X	X
Many-to-many relationships between OSPM and map objects to external documents and URLs using ESRI features	X	X
<b>Editing</b>		
Field names (captions) and the order they appear in Editors and in the More Info Display are easily customized to better reflect users' field identification		X
Object Editors, Reports, and List forms can be resized and the layouts saved by pressing Cntl S		X
Object Editors include EA (extended attribute) fields allowing additional information to be captured at user discretion		X
Visibility of object editor fields and More Info display fields can be turned on and off at user discretion		X
More Info Display and Editor fields can be reordered for easy input and viewing data		X
OSPM objects displayed in tree view can be grouped by object attributes and in ascending or descending order using ESRI features	X	X
Default values for each field in object editors can be designated for easy input by OSPM editors	X	X
Add OSPM objects (buildings, access points, FDFs, enclosures, cable, slack loops, ductbanks and poles) on the map and enter non-spatial information in corresponding editor	X	X
Add and automatically relate OSPM objects to each other, ie, FDFs to buildings, enclosures to access points, cable to FDFs, enclosures and slack, etc		X
Draw a cable and as you click on the enclosure or frame it attaches to, it will automatically relate the cable to that object in the database	X	X
Perform a "sheath opening" and place an enclosure at the middle of a cable span and have the fibers/pairs in that cable automatically spliced together	X	X
Add a slack loop to an existing cable span	X	X
Change a slack loop to an enclosure and automatically splice the fibers/pairs in that cable together		X

QuickAdd' feature, allows you to input network items quickly without opening the editors thereby creating the objects and automatically populating fields with Default values User can then add unique information at a later time using OSPM Lists		X
Add Multiple Poles features allows user to select any polyline (either OSPM cable or ductbank or MapInfo street or polyline object) and then place poles at designated distances along the polyline		X
Add ductbanks at the same time cable is drawn with ductbank information being populated from a ductbank template		X
Cut a ductbank when adding a new access point		X
Designate reserve fibers in the Fiber Panel		X
Change fiber status in the Fiber Panel and have the status change automatically trickle to the other end of the fiber route		
Perform patches from the Fiber Panel		X
Capture Physical Ring (Terminations) - Circuit information including all OSPM elements comprising that circuit Information is displayed in the Fiber Panel and in tree view and all related objects can be viewed in Relationships Route can also be viewed on the map		X
Leased Path Editor provides mark the fibers along an entire path as leased and track owner/lease information		X
Export and import Editor Defaults to use with setup in other OSPM databases		X
Export and import Display Defaults to use with setup of OSPM for other users		X
Designate labeling options for OSPM object map labeling using ESRI features	X	X
Enhanced the customize any color code for fiber and copper cables	X	X
Drop-down lists for editors are customizable for easy input and standardization of data		
Enhanced customize appearance of FDFs (frames)		X
Define custom objects using ESRI features to better differentiate between OSPM object types	X	X
Save map views using ESRI bookmarks feature and navigate to those views quickly	X	X
Create custom layer groups in the table of contents	X	X
Use ESRI edit tools to create OSPM objects		X
<b>Reports</b>		
Customer/Equipment Report shows the relationship between customers and the transmission equipment from which they are served including building, equipment id, customer name, and contact information	X	X
Termination Assignments Report provides information for every terminated fiber in the network including terminated fiber group names, span and fiber ids, FDF (frame) ids, jack positions, users, status, and connector types	X	X
Hardware Materials Report summarizes the installed FDF (frames), enclosures, and cable and slack in the network including type information, cable lengths, cable placement, medium, span id, and map IDs. It also includes sheath and fiber totals. It can be queried to show the information per selected region or by network element. Items can also be labeled and displayed on the map, and relationships viewed	X	X

Taper Report evaluates the items (fibers/copper pairs) within a span to determine how they "tape" from the cable to their termination or end points. It includes end point information for both ends of the fiber, routing information, termination assignment information, and summary information for every building it passes through along the route, how many customers served, and how many dead fibers	X	X
Lit-Fiber Length Report shows the length of each fiber in the network that is lit or connected between two or more pieces of transmission equipment. The report shows both sides of the fiber and what equipment is attached and calculates the total length of each fiber.	X	X
Automated thematic mapping using ESRI features for chart-style reports to analyze and visualize OSPM data. It enhances particular map layers according to designated themes and displays those themes in shades of color, fill patterns, symbols, or bar and pie charts.	X	X
Leased Fiber Report shows the relationship between the owner of the fibers and who is leasing those fibers and the total lengths in feet, meter, or miles of each		X
Ductbank Taper Report shows detailed ductbank route information for innerduct and route detail per innerduct including what is available and where.		X
Work Order Report displays all of the OSPM objects that are associated to a particular work order. List all work order entries, or query the list for a selected work order number. Find and map all network assets by work order number.		X
Equipment added to Work Order Report		X
The End Point Schematic displays schematically a taper report along a route including end points for each fiber being evaluated		X
The Route Schematic displays the route an individual fiber follows through the network and displays a diagram including each connected element including termination points, enclosures, and cables		X
Advanced SQL Queries available to qualify list selections	X	X
Title and page number added to work order report printout		X
List and Report Queries allow wildcard characters		X
<b>Lists</b>		
Buildings - all network buildings including attributes	X	X
Access Points - all network access points including attributes	X	X
Cable Reels including attributes	X	X
Cable Type including attributes		
Cable Spans Installed including attributes		
Cable Span Length including attributes		
Cable Color Codes including attributes		
Cable Slack Loops/Lines including attributes		
Customer - all network customers including attributes	X	X
Documents - all external documents related to OSPM and MapInfo objects in the network including attributes	X	X
Document Relationships - documents and their related objects		X
Duct Banks including attributes	X	X
Enclosure Type including attributes	X	X
Enclosure Installed including attributes		
Equipment Type including attributes	X	X
Equipment Installed including attributes		
Frames Type including all attributes	X	X

Frames Installed including all attributes		
Poles List - all network poles including attributes	X	X
Rings (Cable Spans) - all network Rings (Cable Spans) including attributes		X
Terminations - all terminated fibers including attributes	X	X
Advanced SQL Queries available to qualify list selections	X	X
<b>Software Architecture</b>		
PC based	X	X
Read-only application available	X	X
Scalable for enterprise system client / server architecture	X	X
Scalable from 1 to 1,000s of users	X	X
Compatible with ESRI ArcMap 9.x		X
Oracle / MSSQL compatible (ArcSDE required for connections)		X
Spatial and tabular data combined in one database better facilitates ArcSDE connection for Oracle and MSSQL connections		X
Spatial and tabular data combined in one database better facilitates OSPM mapping and reporting functions		X
Portable to laptops and notepads	X	X
All spatial data in an enterprise system is stored in a database, not simply drawing files	X	X
<b>Documentation / Support</b>		
Electronic help files available with installed software	X	X
Documentation available in PDF format on software CD and web site		X
Training courses available at a training facility or at customer's site	X	X
Technical support available	X	X
<b>Background Base Data</b>		
Must have a library of relatively accurate street maps	X	X
Import various vector and non-vector files from outside vendors and have the files ortho-rectified	X	X
Base maps must support a variety of projection systems	X	X
Build a .mxd file that includes network elements	X	X
Save map views using ESRI bookmarks feature and navigate to those views quickly	X	X
Use the ESRI Hotlink tool	X	X
Red-lining in View-only version	X	X
Custom object definable by database fields using ESRI features		X
<b>General</b>		
System must be relatively fast	X	X
Training must be not more than 4 days to get up to speed on editing	X	X
View only software available for all users who need a desktop or laptop view and be able to work with the database and maps, but not edit	X	X
Group TreeView items in categories using ESRI features	X	X
OSPM can be set up as stand-alone or in an enterprisewide deployment	X	X
Customizable toolbar layout	X	X
Save OSPM main window layout		
Improved customizable Treeview display options		
True treeview structure for navigation		
Extended attributes (EA) fields added to individual objects to allow for custom fields		X
Field names, displays and placement can be customized and saved		X
Deleting items from the list, will also delete from the map		X

Tree View enhancements for query, sort, and display		<b>X</b>
Endpoint Schematics		<b>X</b>
Enhanced ring / circuit functionality		<b>X</b>
Lists for "work orders" and "rings"		<b>X</b>
See connectivity as a schematic (route schematic)		<b>X</b>
<b>Design / Work Orders</b>		
Perform mid-level design for routes (mid level will show the route, but not the engineering detail that would include utilities, etc)	<b>X</b>	<b>X</b>
Key in splicing information, test the splice as far as connectivity, and print out a splicing diagram with associated location detail	<b>X</b>	<b>X</b>
Track work order numbers for enclosures, FDFs, cable spans, etc	<b>X</b>	<b>X</b>
Thematically map network objects	<b>X</b>	<b>X</b>
Capture and view all fiber rings (circuits) and view all related objects		<b>X</b>