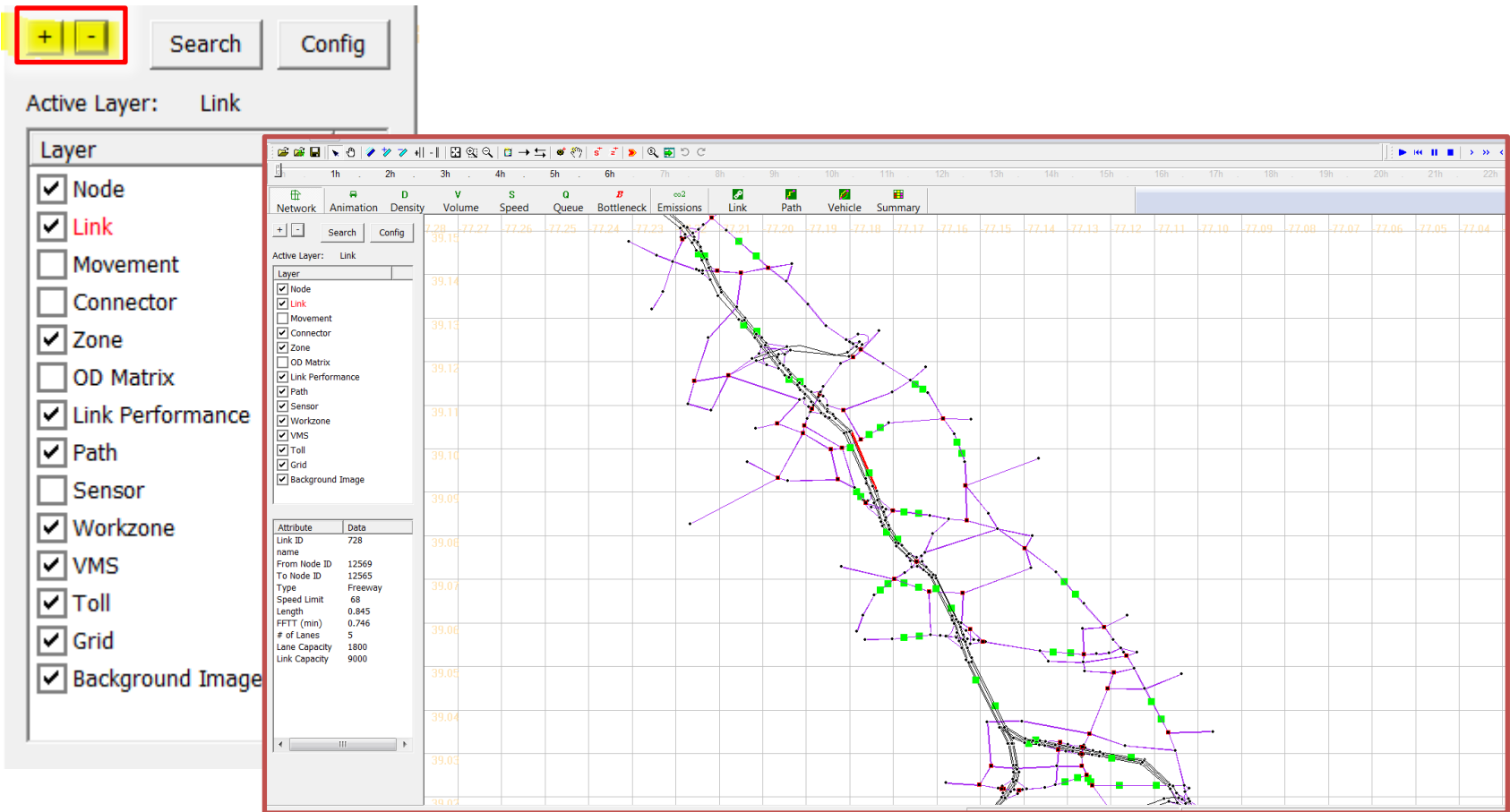


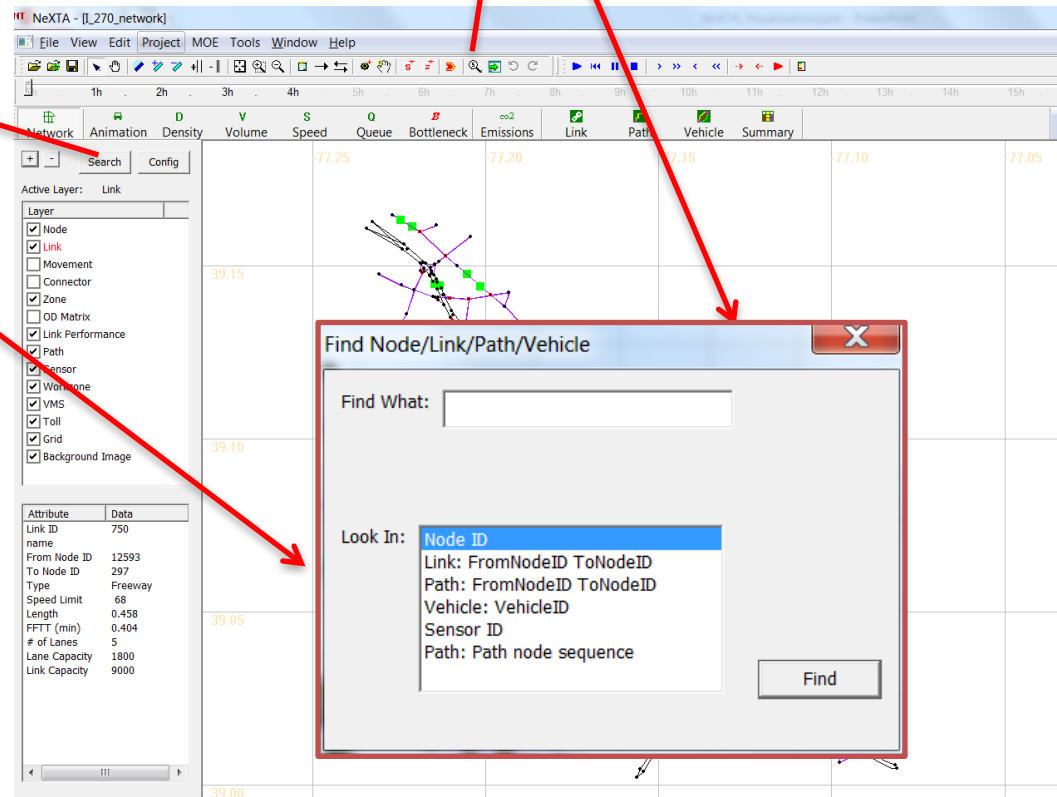
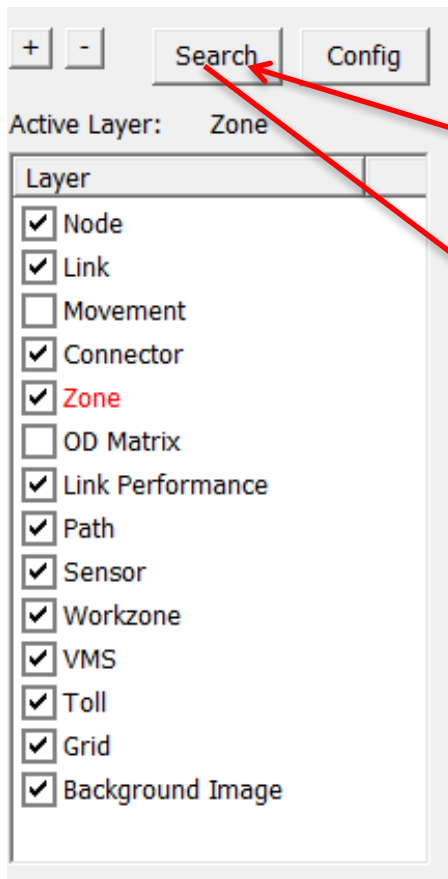
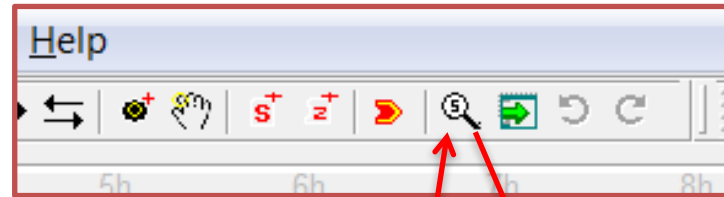
## Visualization in NeXTA

# How to increase/decrease the size of node



# How to search node/link/path/vehicle?

Control + F



# How to show link MOE/performance?

MOE: measures of effectiveness

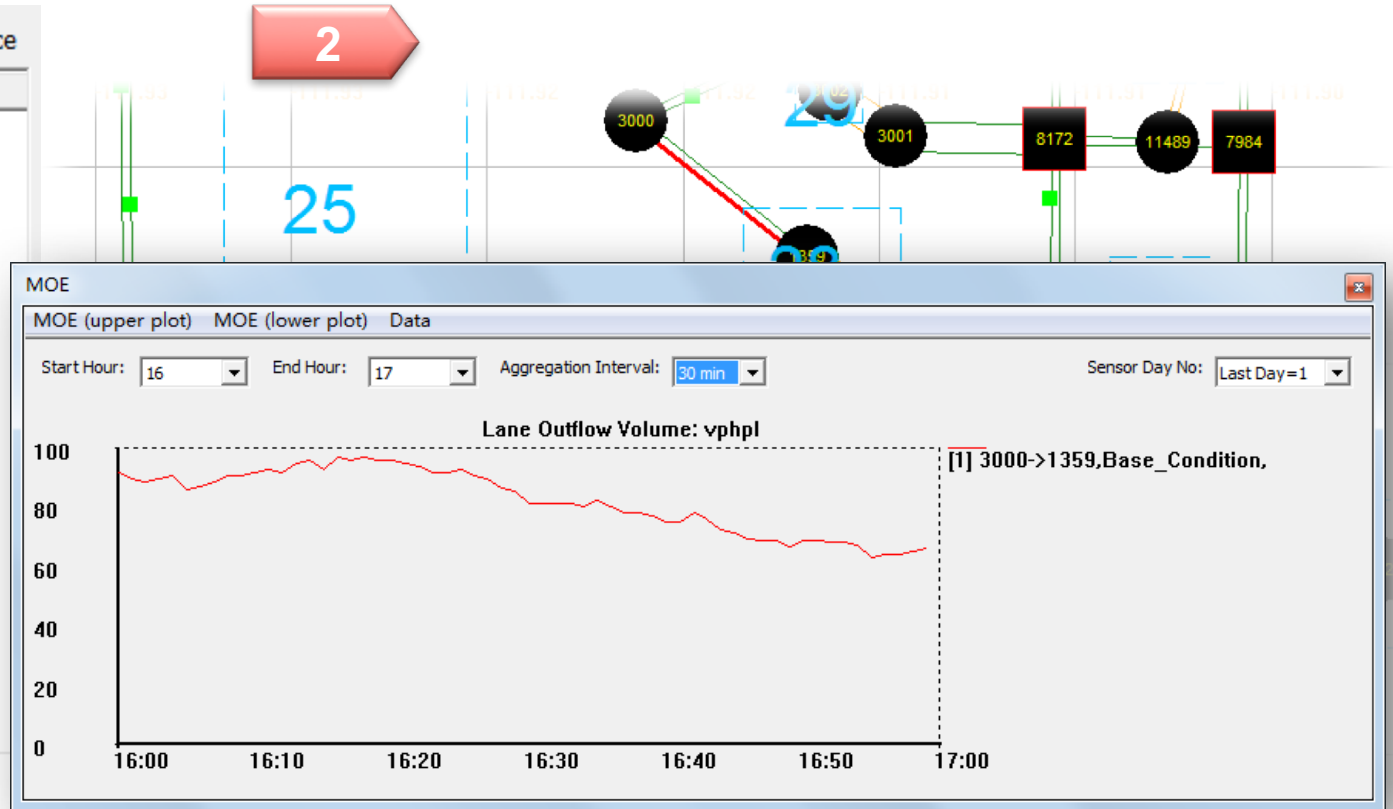
1

2

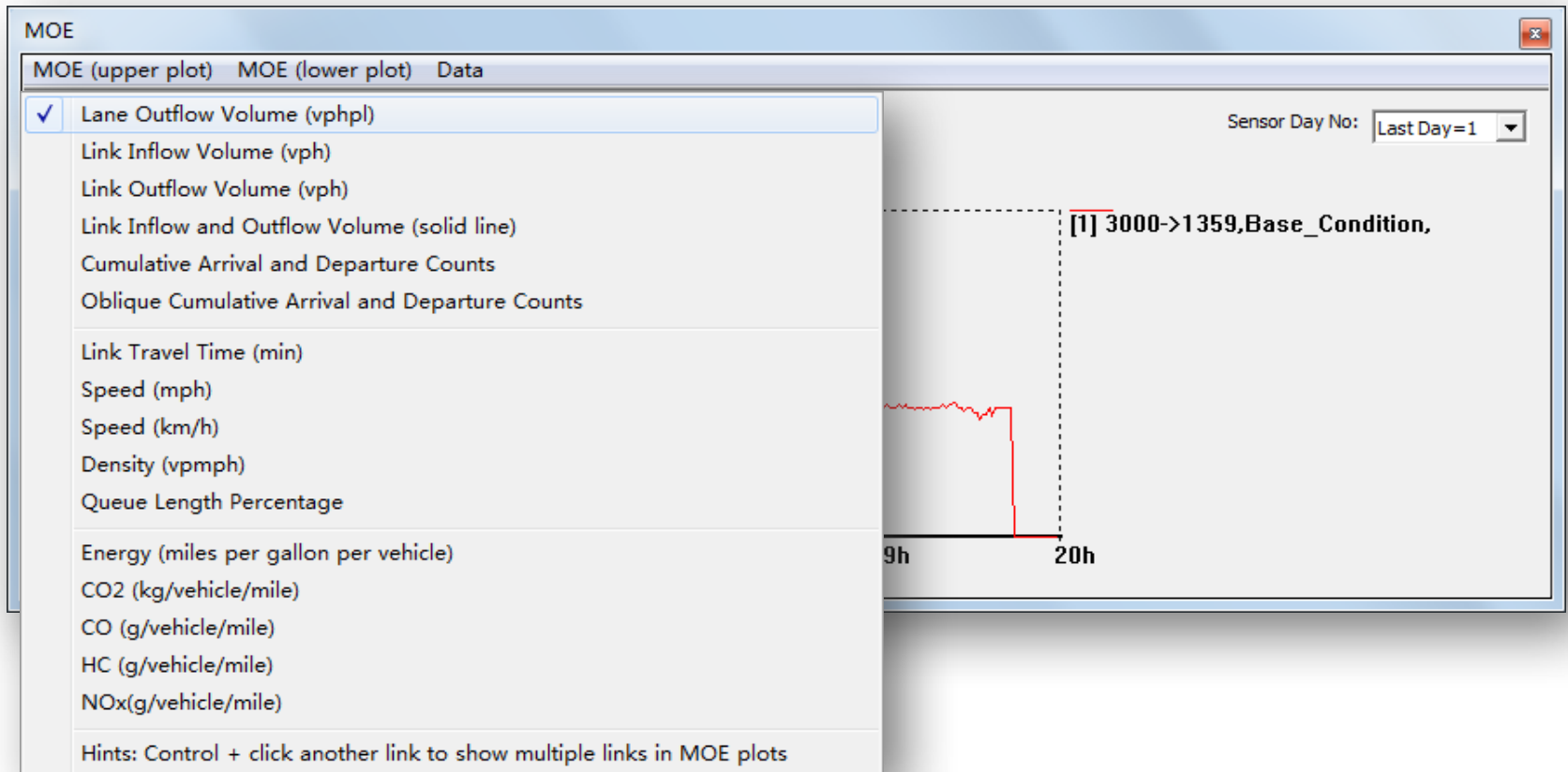
Active Layer: Link Performance

Layer

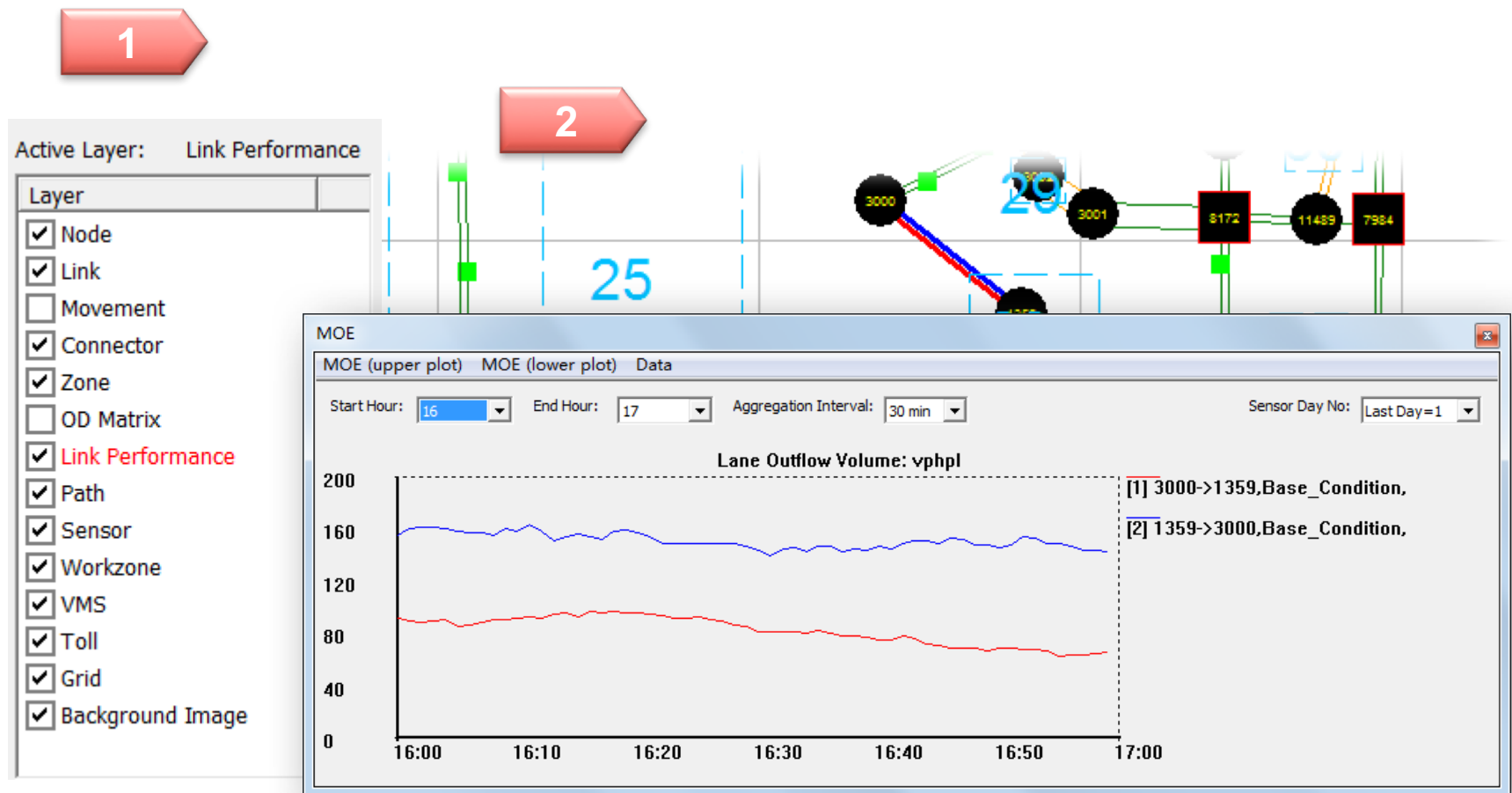
- ☒ Node
- ☒ Link
- ☐ Movement
- ☒ Connector
- ☒ Zone
- ☐ OD Matrix
- ☒ Link Performance
- ☒ Path
- ☒ Sensor
- ☒ Workzone
- ☒ VMS
- ☒ Toll
- ☒ Grid
- ☒ Background Image



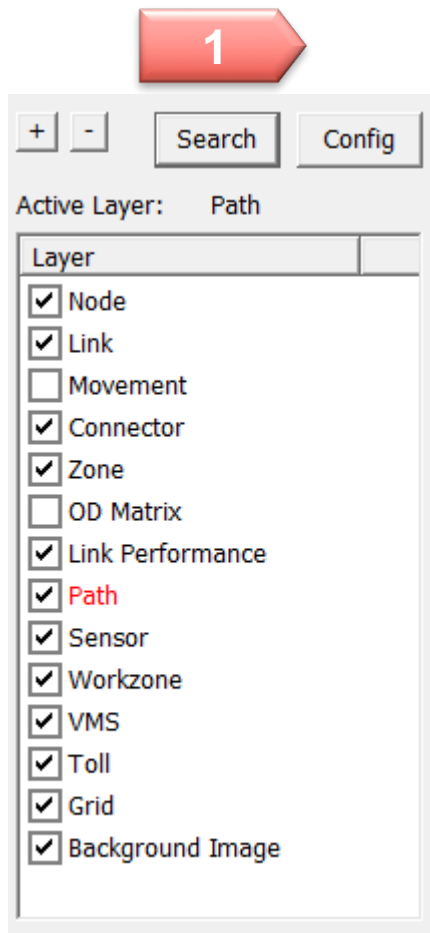
# How to show link MOE/performance?



# How to show two MOEs simultaneously?

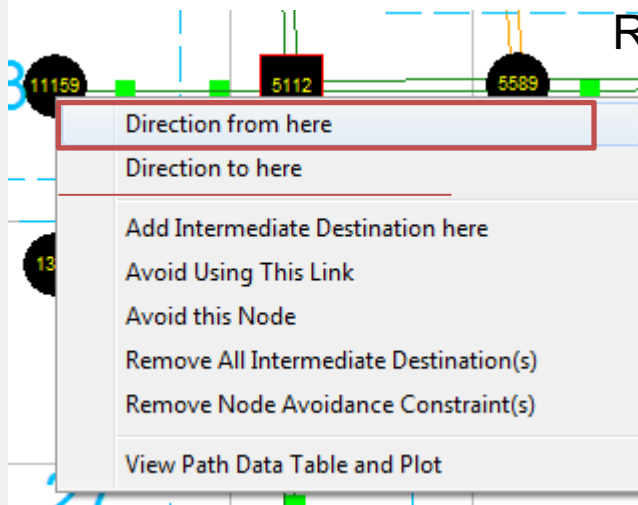


# How to select a path?



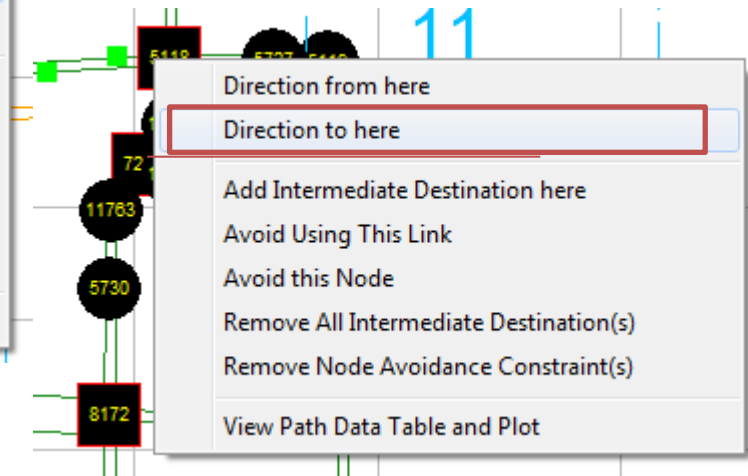
2

Right click a node to define origin



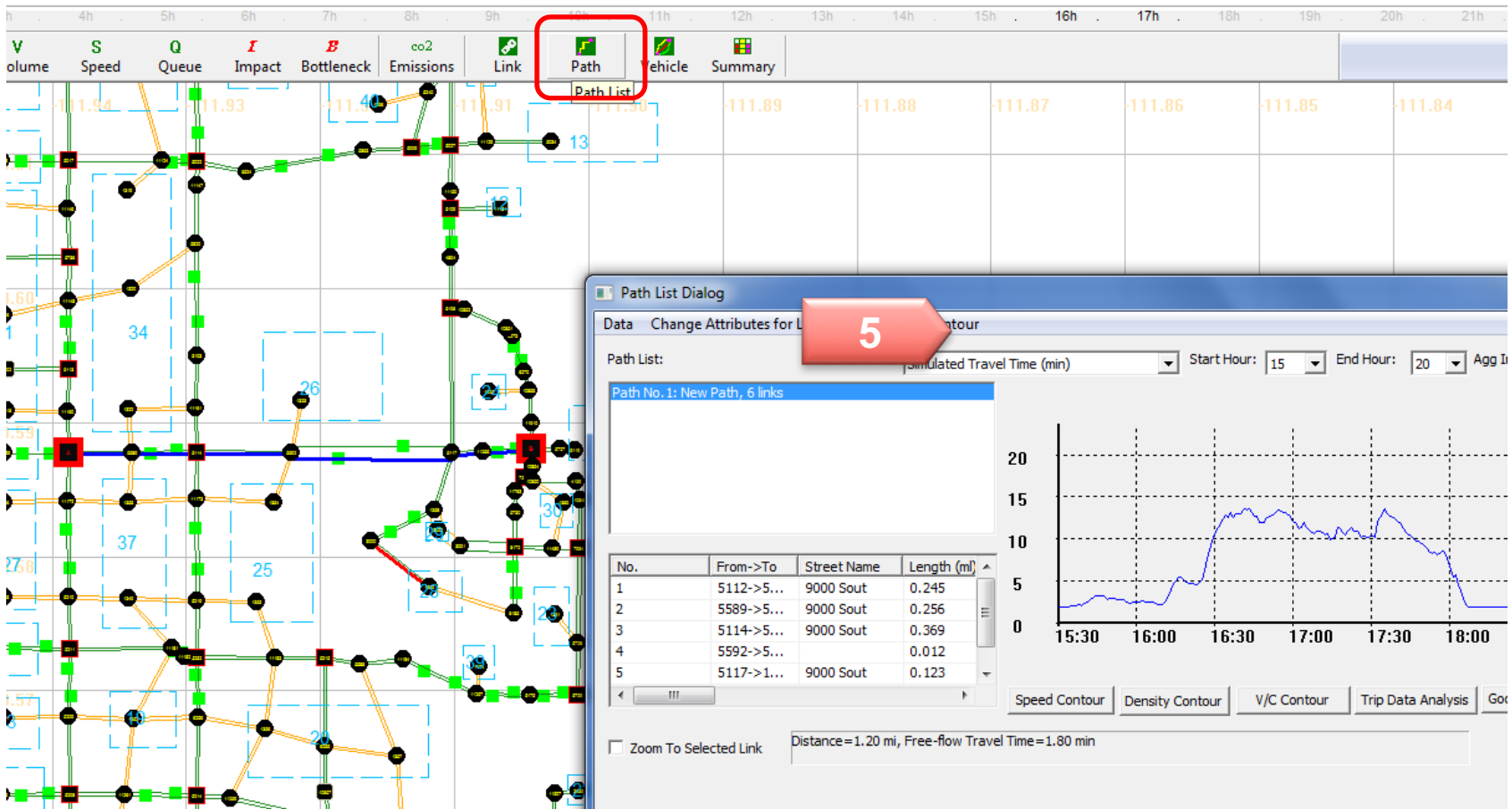
3

Right click a node to define destination



# How to visualize a path performance?

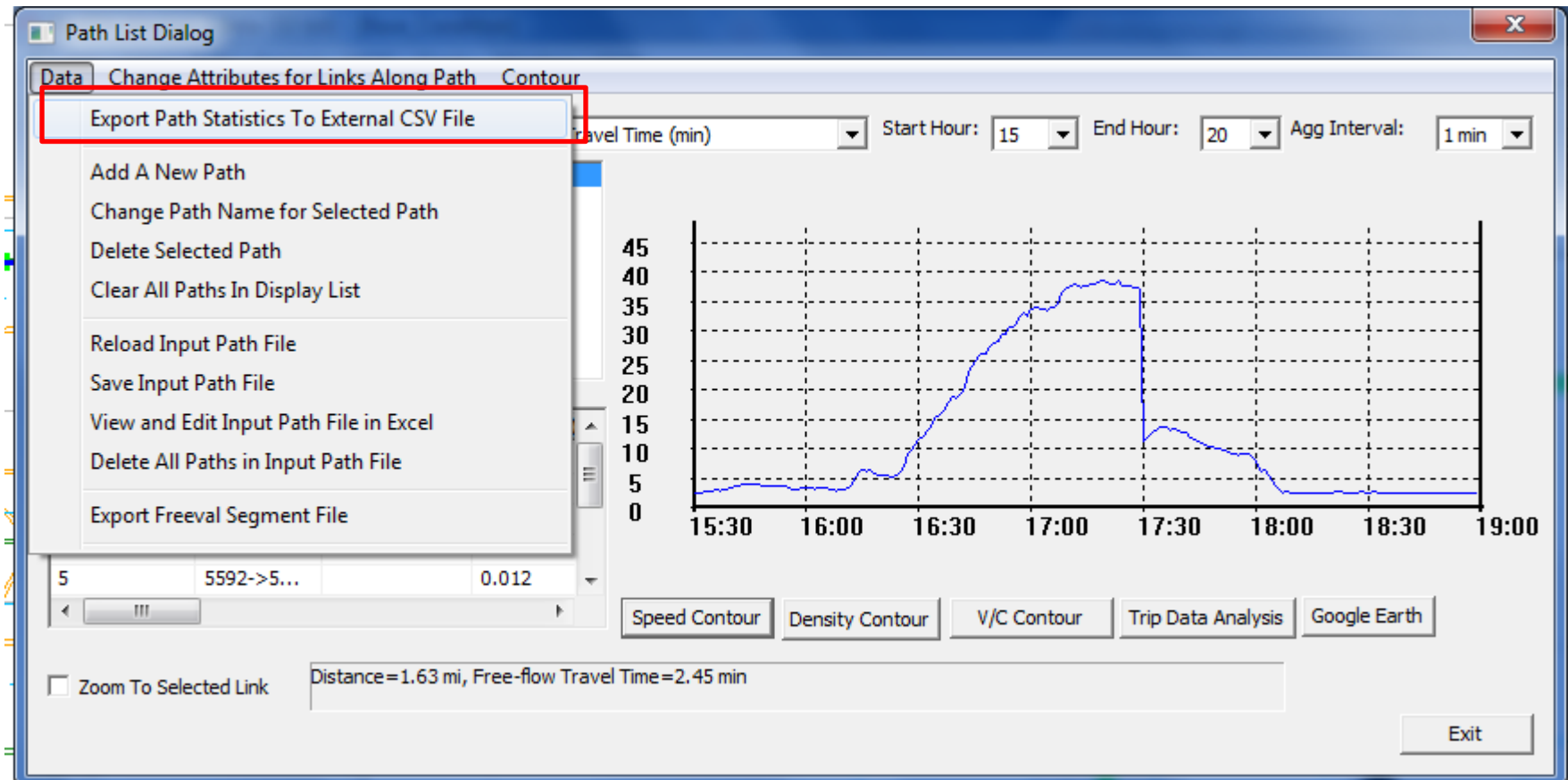
4



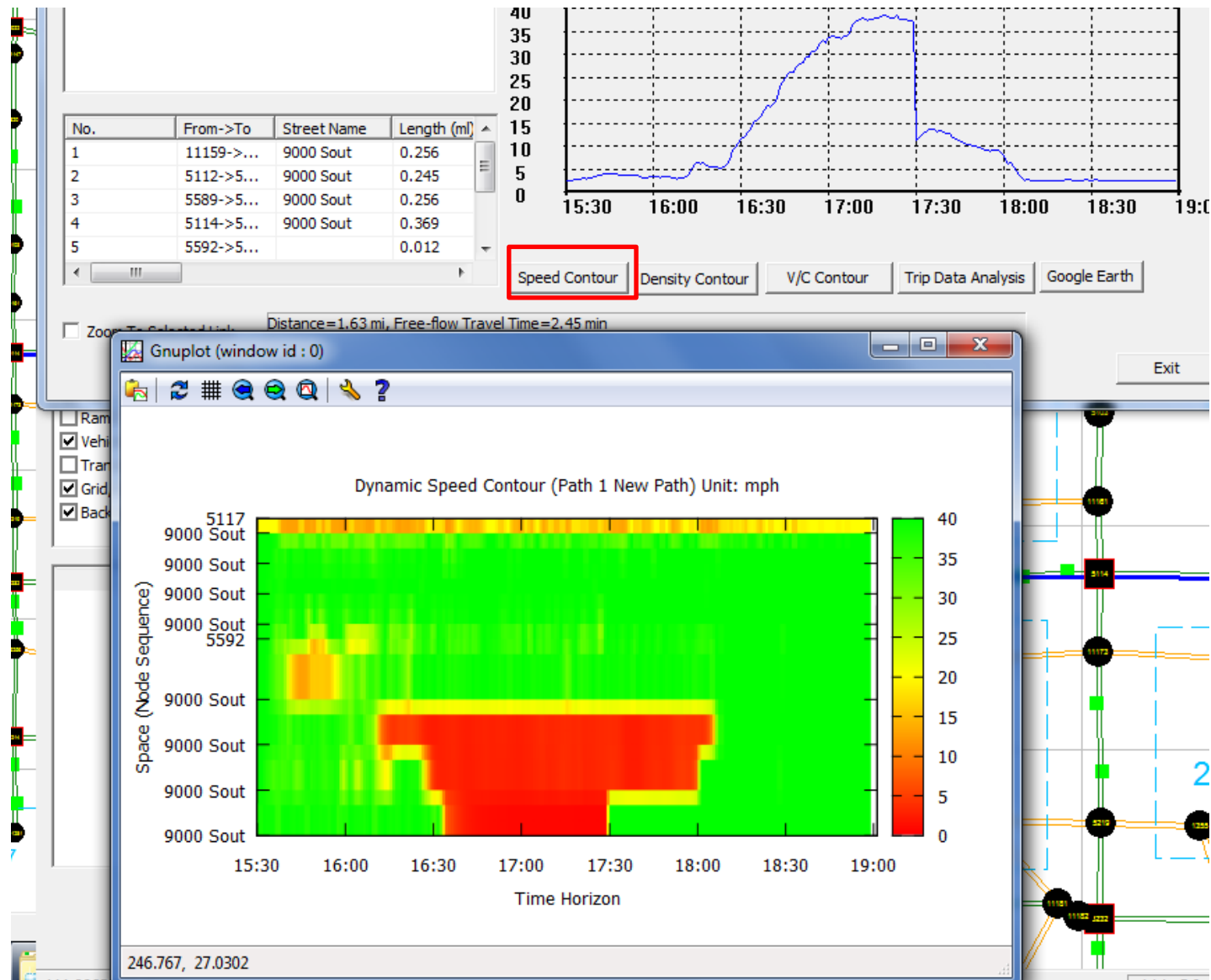
5



# How to export path performance to Excel?

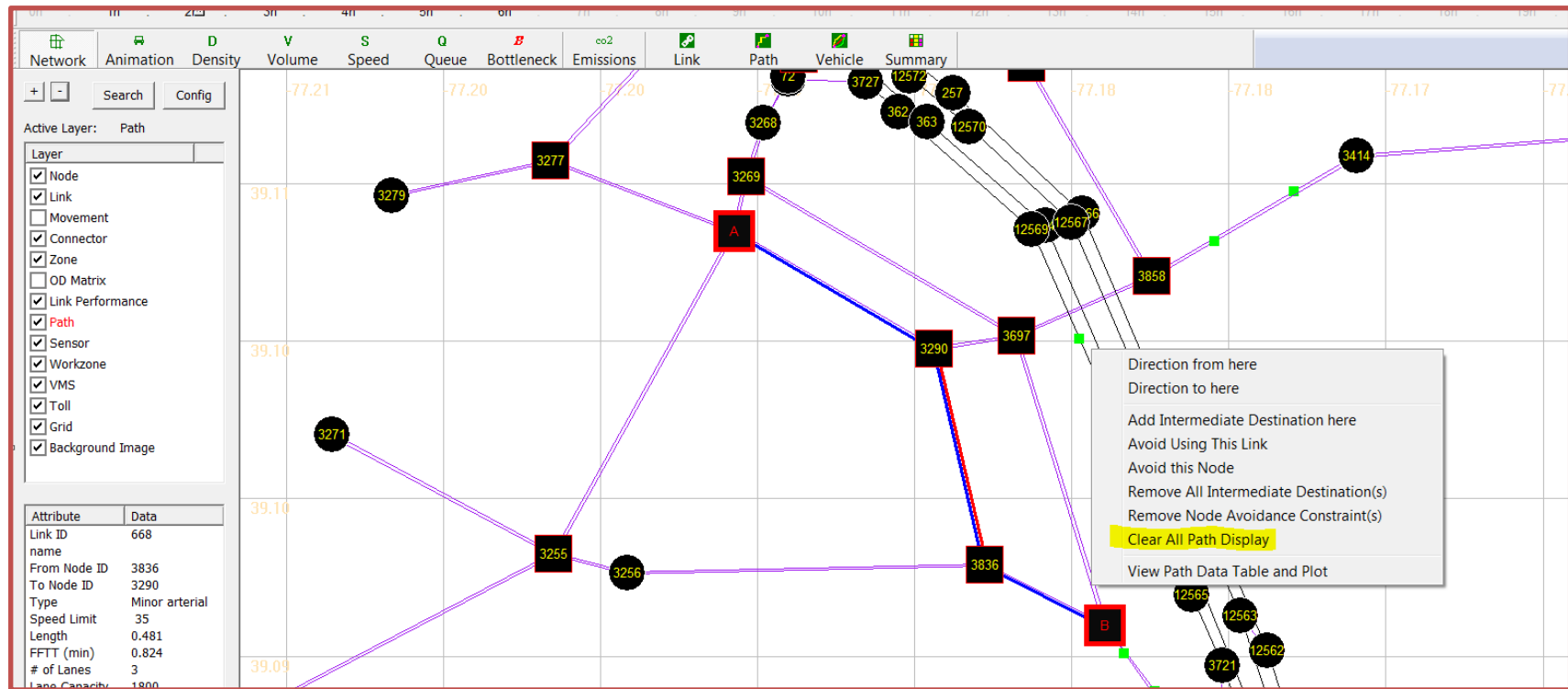


# How to show Speed Contour?



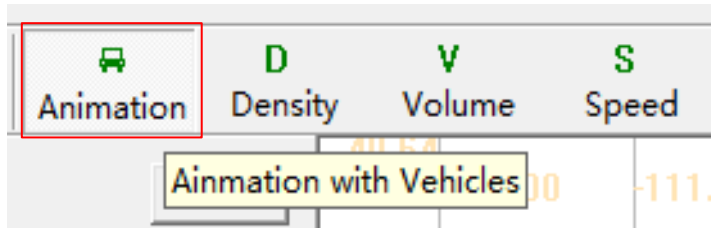
# How to clear path display?

1. Activate path layer in GIS panel;
2. Right click to click “clear all path display”

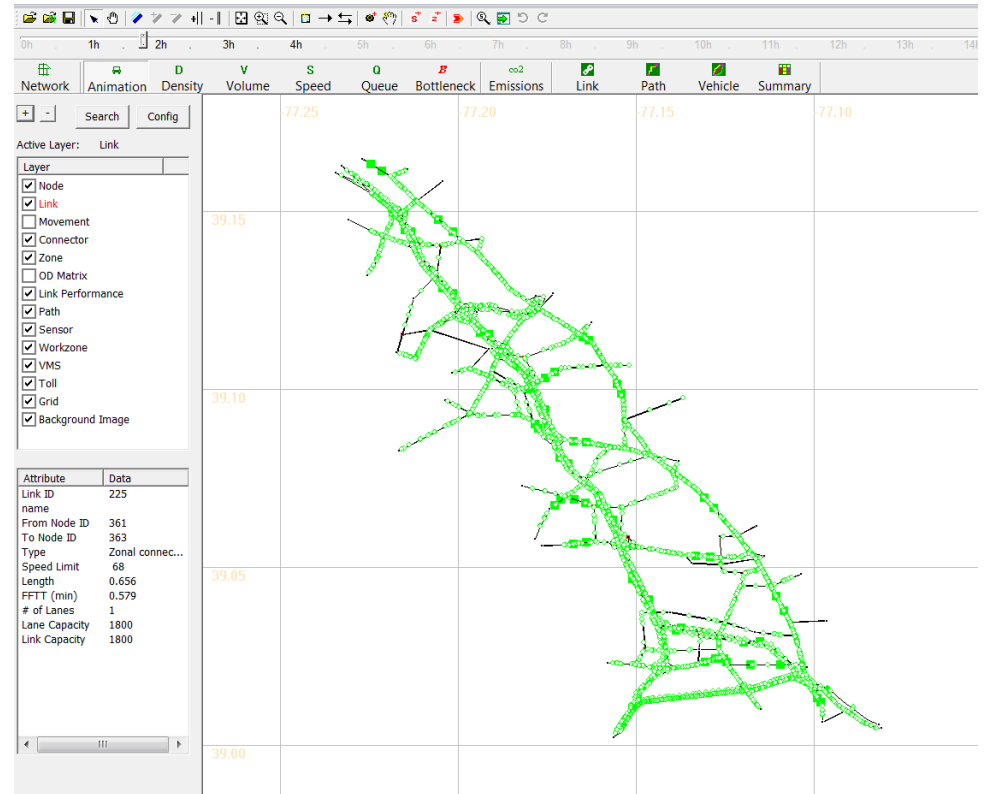
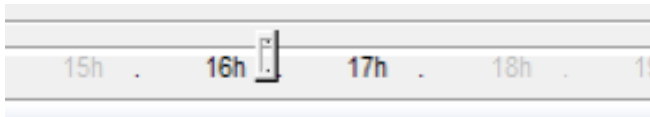


# Network-level visualization: Animation

1

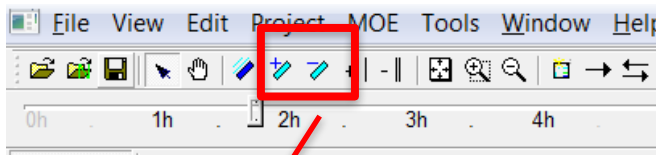


2

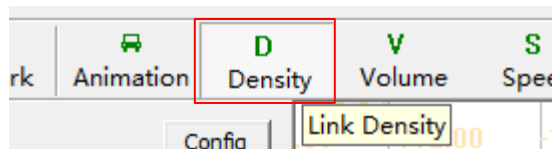


# Network-level visualization: Density

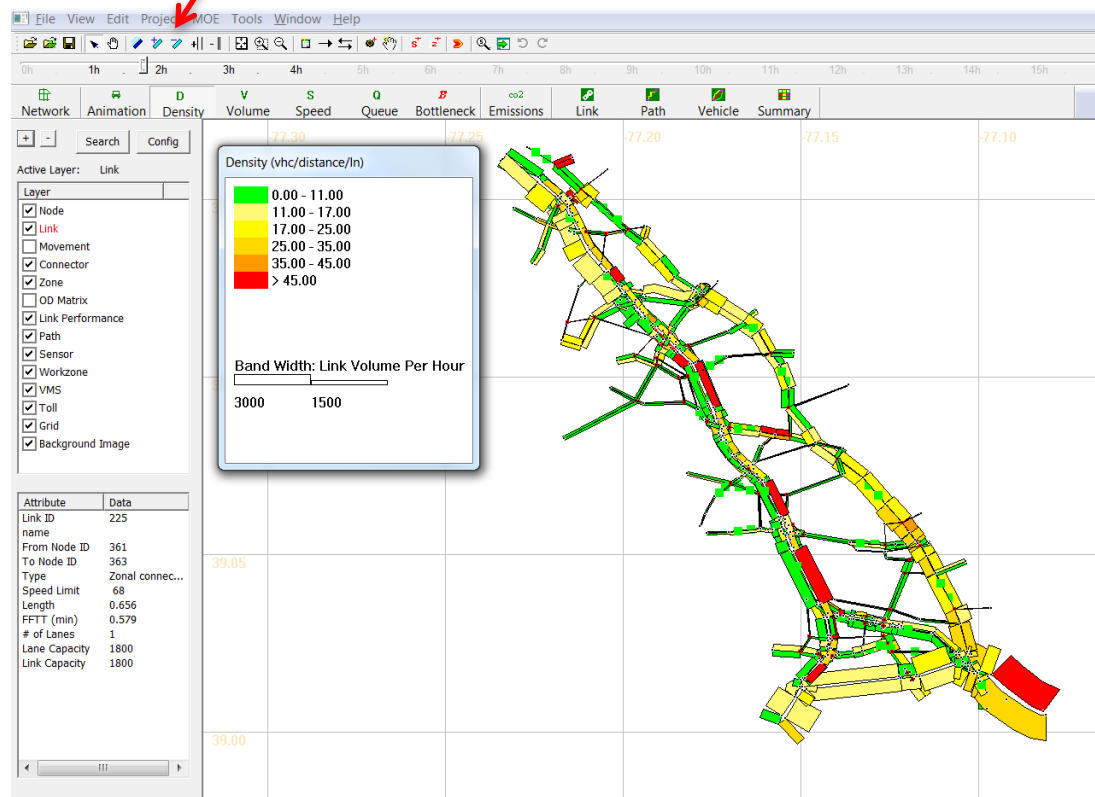
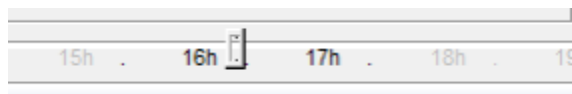
1



Can increase the link bandwidth



2

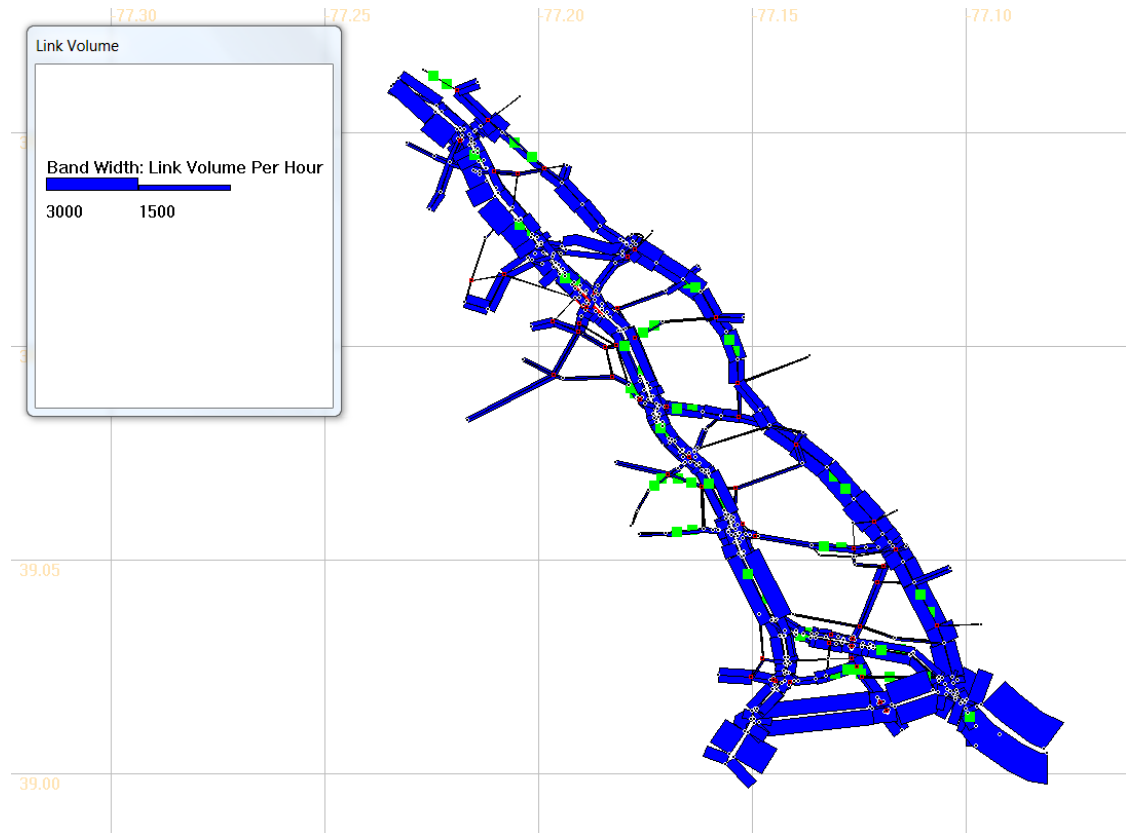
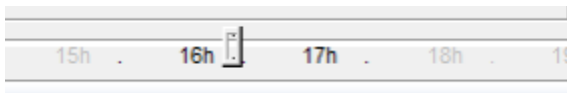


# Network-level visualization: Volume

1

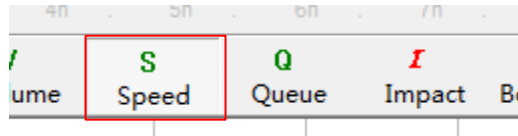
	V	S	Q	I
ty	Volume	Speed	Queue	In
40.64	Link Volume	11.99	-111.98	
01	-112.00			

2

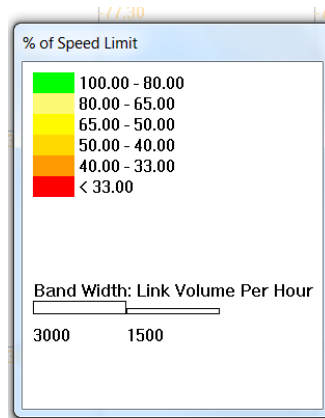
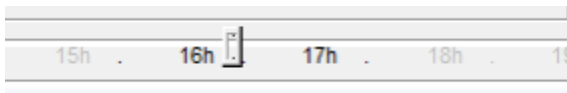


# Network-level visualization: Speed

1



2

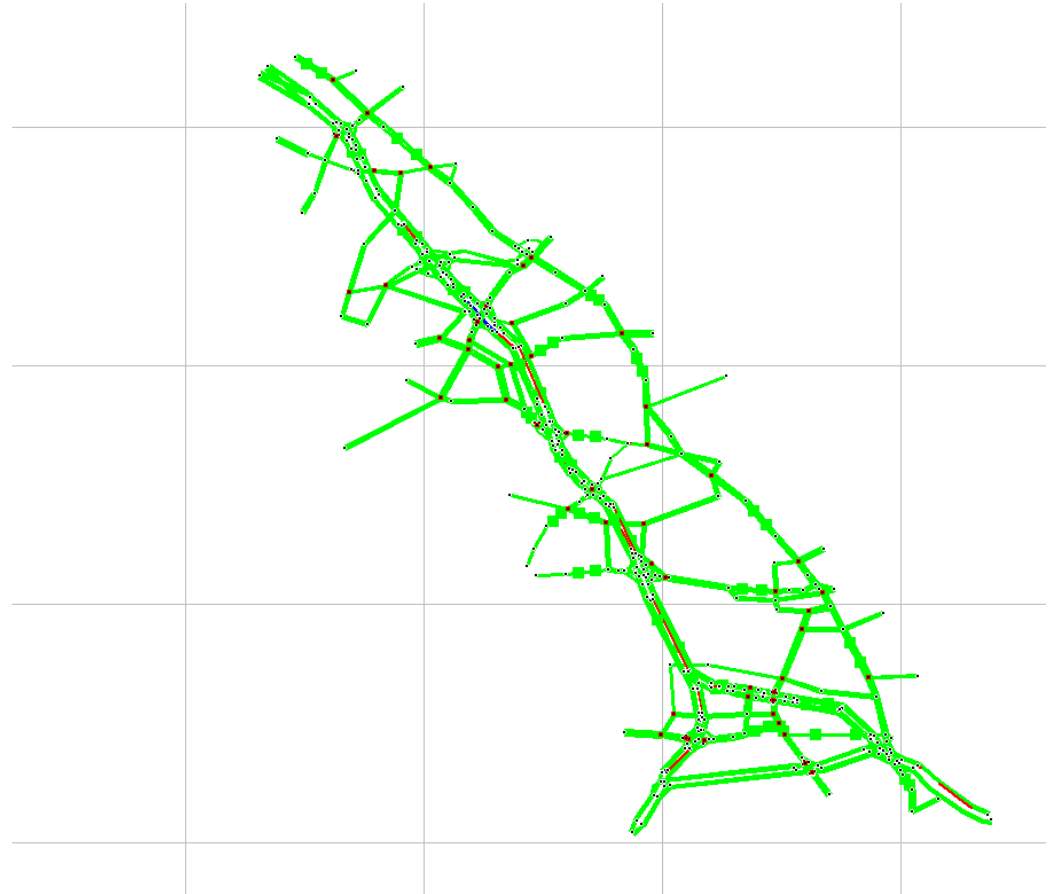
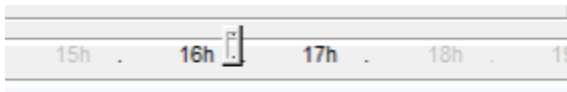


# Network-level visualization: Queue

1

S	Q	I	B	co2
Speed	Queue	Impact	Bottleneck	Emissio
-111.99	Queue Length	-111.97	-111.96	

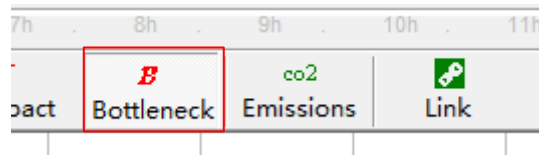
2



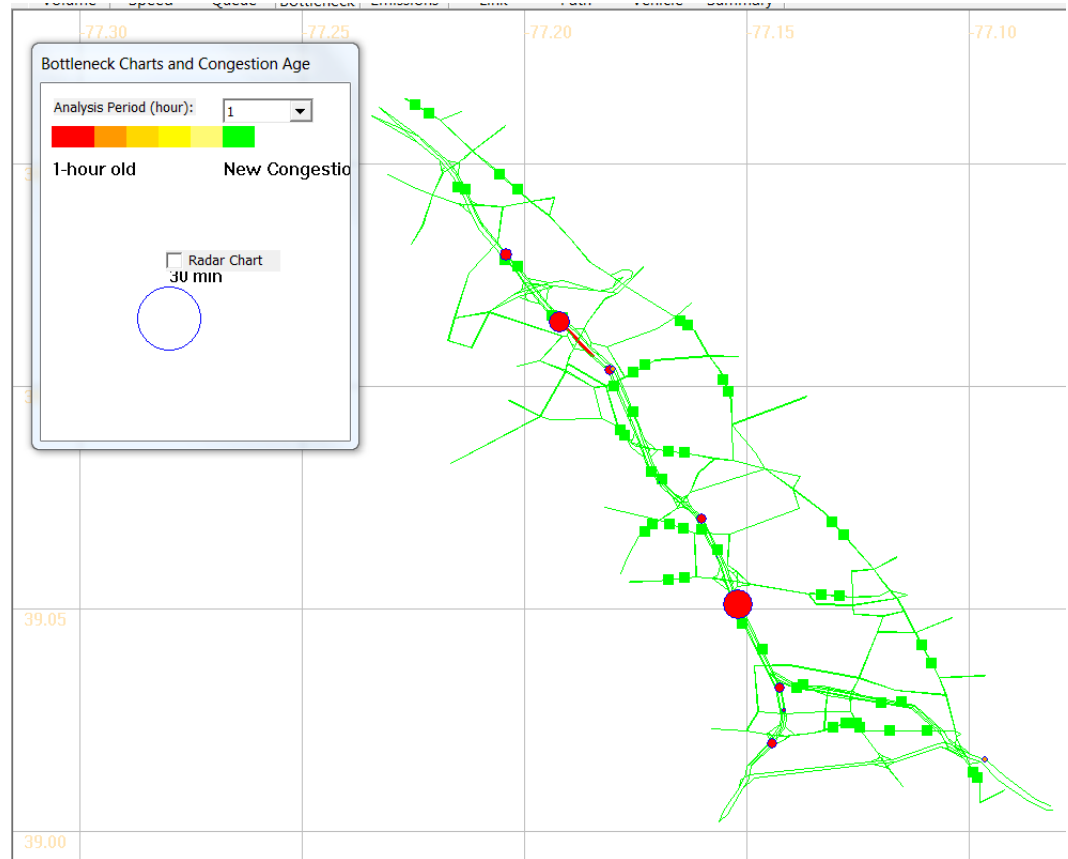
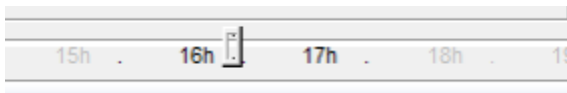


# Network-level visualization: Bottleneck

1

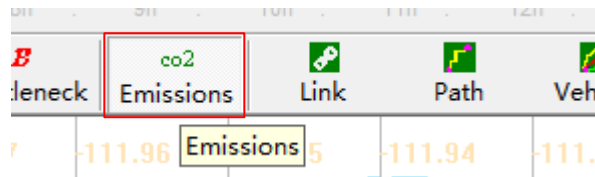


2

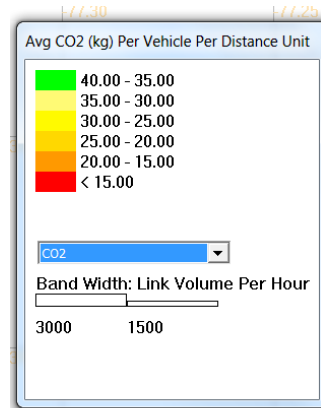
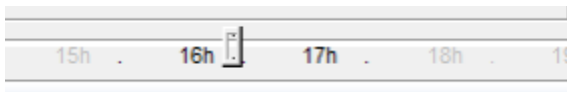


# Network-level visualization: Emission

1



2



# How to go back the network

The screenshot shows the VISSIM software interface. The top toolbar has a 'Network' button highlighted with a red box. The Layer list on the left shows the 'Network' layer selected. The main view displays a road network with a highlighted path. The path is highlighted in red, and the network is shown in a 3D perspective view. The interface includes a menu bar (File, View, Edit, Project, MOE, Tools, Window, Help) and a toolbar with various icons for navigation and editing. The main view area shows a grid with time and distance values, and a 3D model of a road network with a highlighted path.

Active Layer: Path

Layer

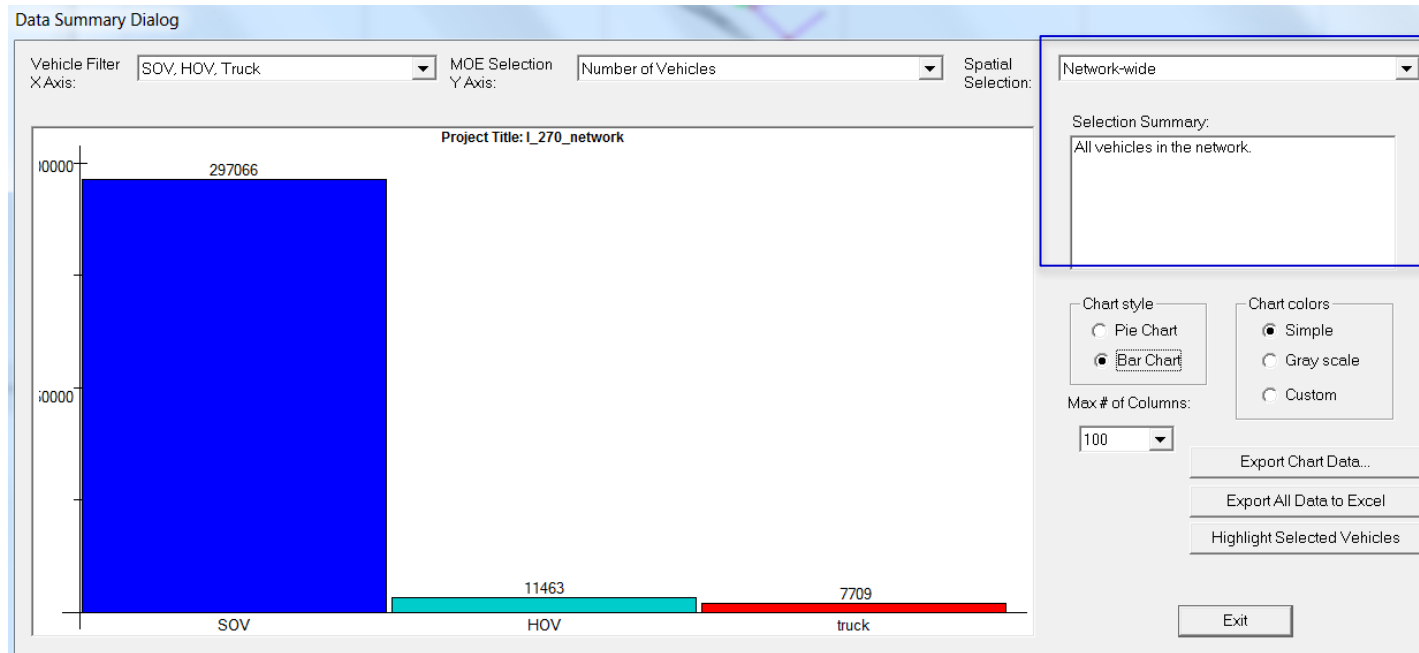
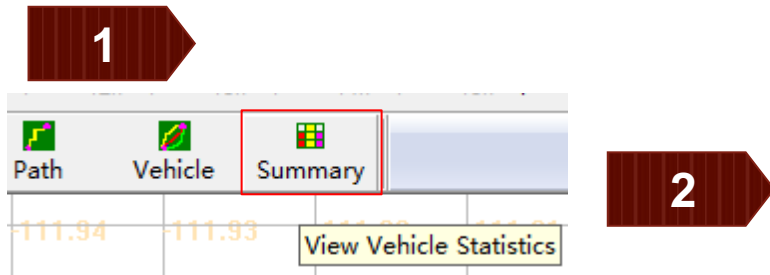
- ☒ Node
- ☒ Link
- ☐ Movement
- ☒ Connector
- ☒ Zone
- ☐ OD Matrix
- ☒ Link Performance
- ☒ Path
- ☒ Sensor
- ☒ Workzone
- ☒ VMS
- ☒ Toll
- ☒ Grid
- ☒ Background Image

Attribute	Data
Link ID	668
name	
From Node ID	3836
To Node ID	3290
Type	Minor arterial
Speed Limit	35
Length	0.481
FFTT (min)	0.824
# of Lanes	3
Lane Capacity	1800
Link Capacity	5400

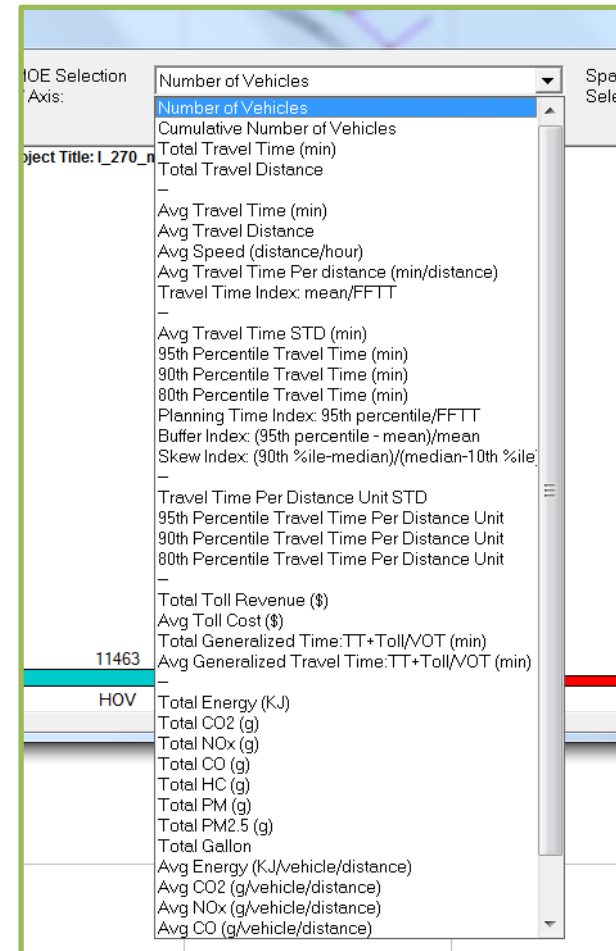
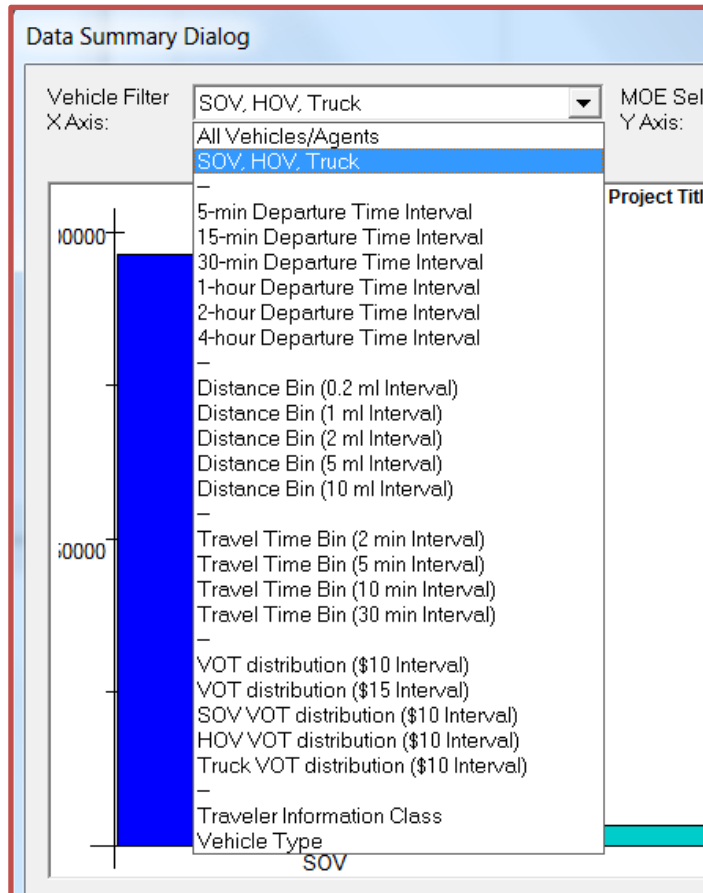
# NeXTA

## Advanced Result Analysis

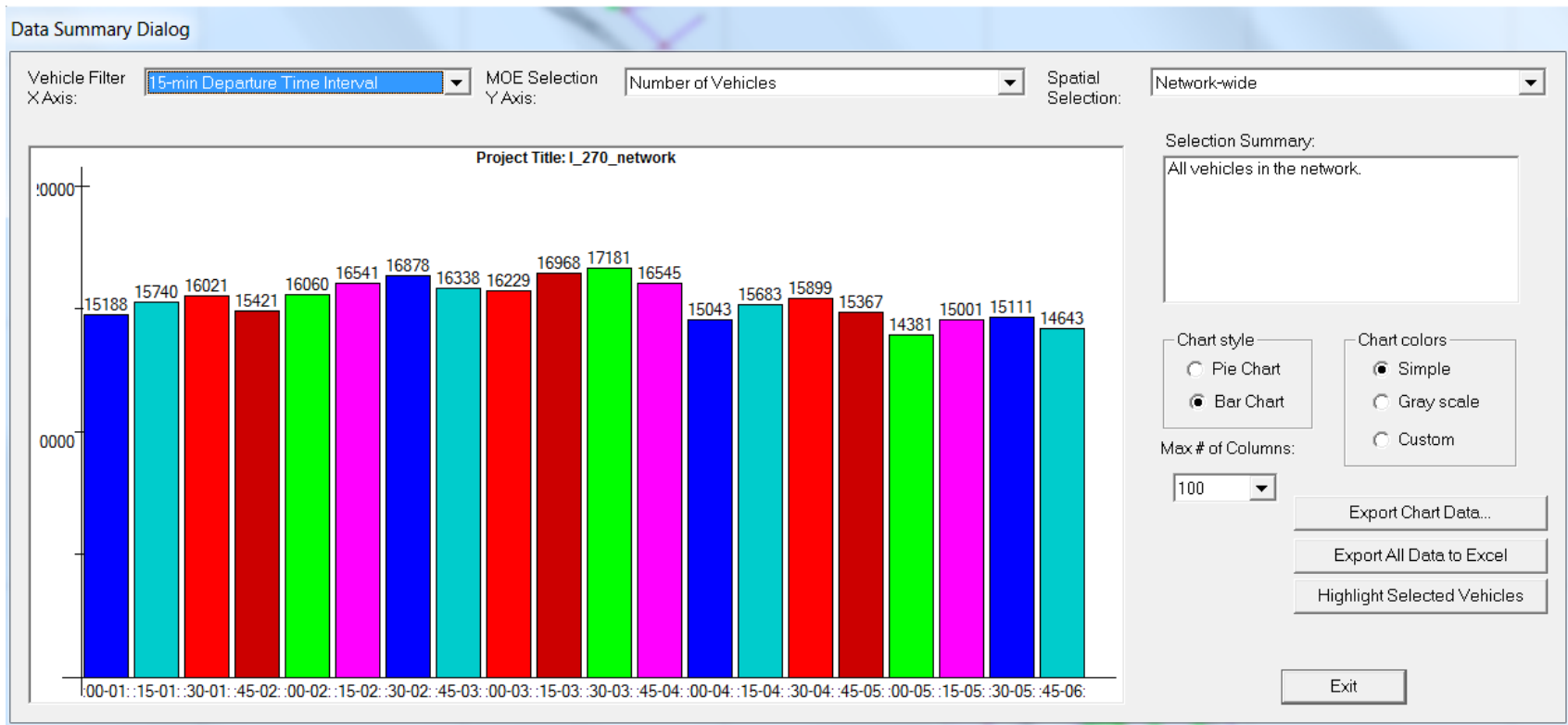
# How to do overall network statistics?



# How to do overall network statistics?

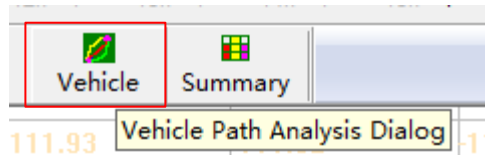


# How to do overall network statistics?



# How to select OD/vehicle analysis?

1



2

Find/Filter Vehicles

1: OD Pair Filter:

Origin Zone: 1 Destination Zone: 6 Demand Type: All Vehicle Type: All Info Class: All VMS Responsive Only: ☐ Departure Time (min): 0 (0:00) Time Interval: 1440

At least: 2 vehicles Travel Distance >= 0 distance Speed <= 300 distance Passing Impact: N/A

Day No: 0

Find Critical OD Pairs

Value of Time Range

Lower bound: 0

Upper bound: 100

2: OD List:

Origin Zone	Destination...	I_270_ne...	Avg Trav...	Avg Dist...	Avg Speed	TT STD	Travel Ti...
1	6	40	3.5	2.0	34.4	0.0	0.0

1 OD pair(s) selected.

3: Path List:

Path No	Count	Percentage	Travel Ti...	Distance	Speed
1	40	100.0	3.5	2.0	34.4

4: Vehicle List:

Vehicle ID, type, departure time, travel time, toll paid

No. 7064, SOV, @67.1 min, 3.5 min, \$0.00  
No. 19062, SOV, @78.3 min, 3.6 min, \$0.00  
No. 22316, SOV, @81.4 min, 3.5 min, \$0.00  
No. 27096, SOV, @85.8 min, 3.6 min, \$0.00  
No. 35440, SOV, @93.7 min, 3.5 min, \$0.00  
No. 68690, SOV, @125.5 min, 3.5 min, \$0.00  
No. 74792, SOV, @130.9 min, 3.6 min, \$0.00  
No. 81068, SOV, @136.4 min, 3.5 min, \$0.00

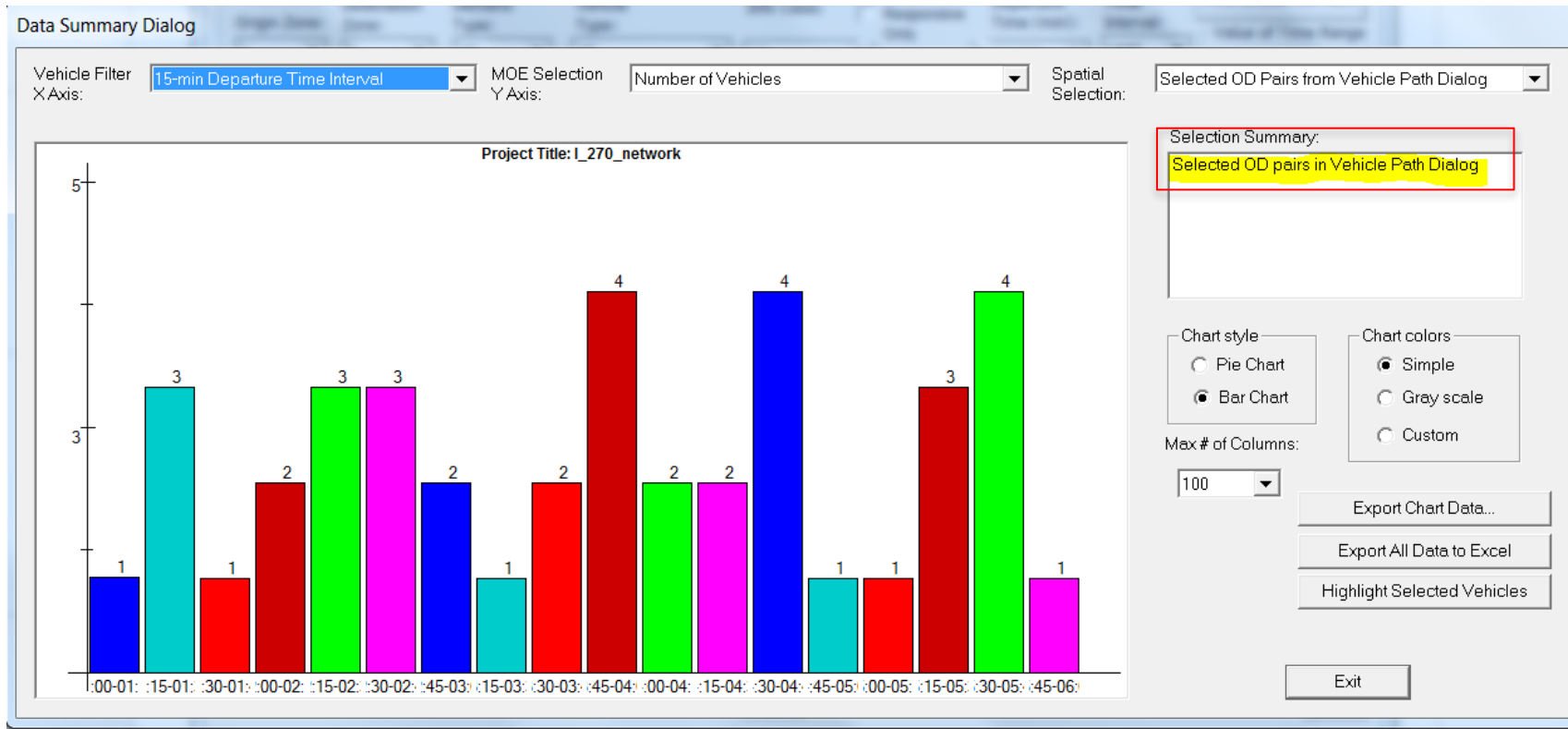
Export

Vehicle Data Analysis for Listed OD Pairs

Exit

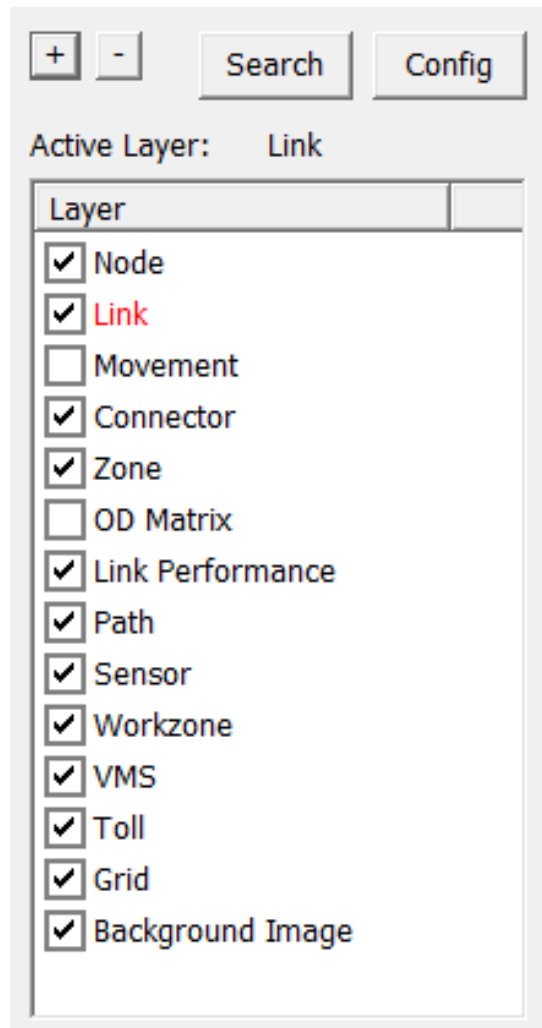


# How to select OD/vehicle analysis?

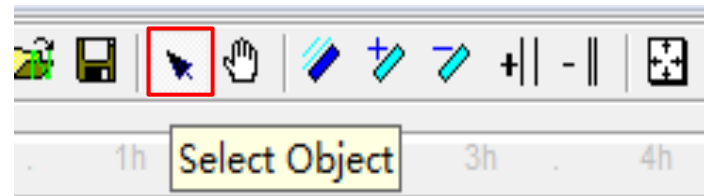


# How to select link analysis?

1



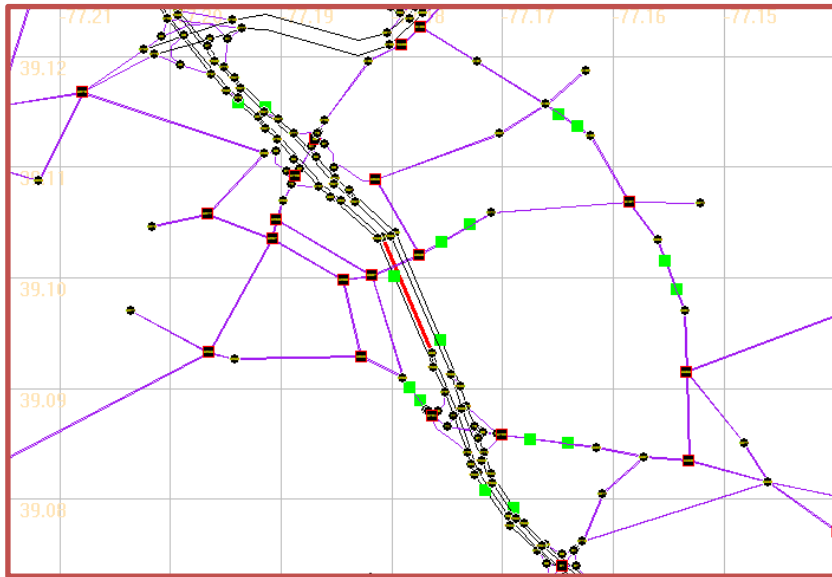
2



# How to select link analysis?

3

Select a link

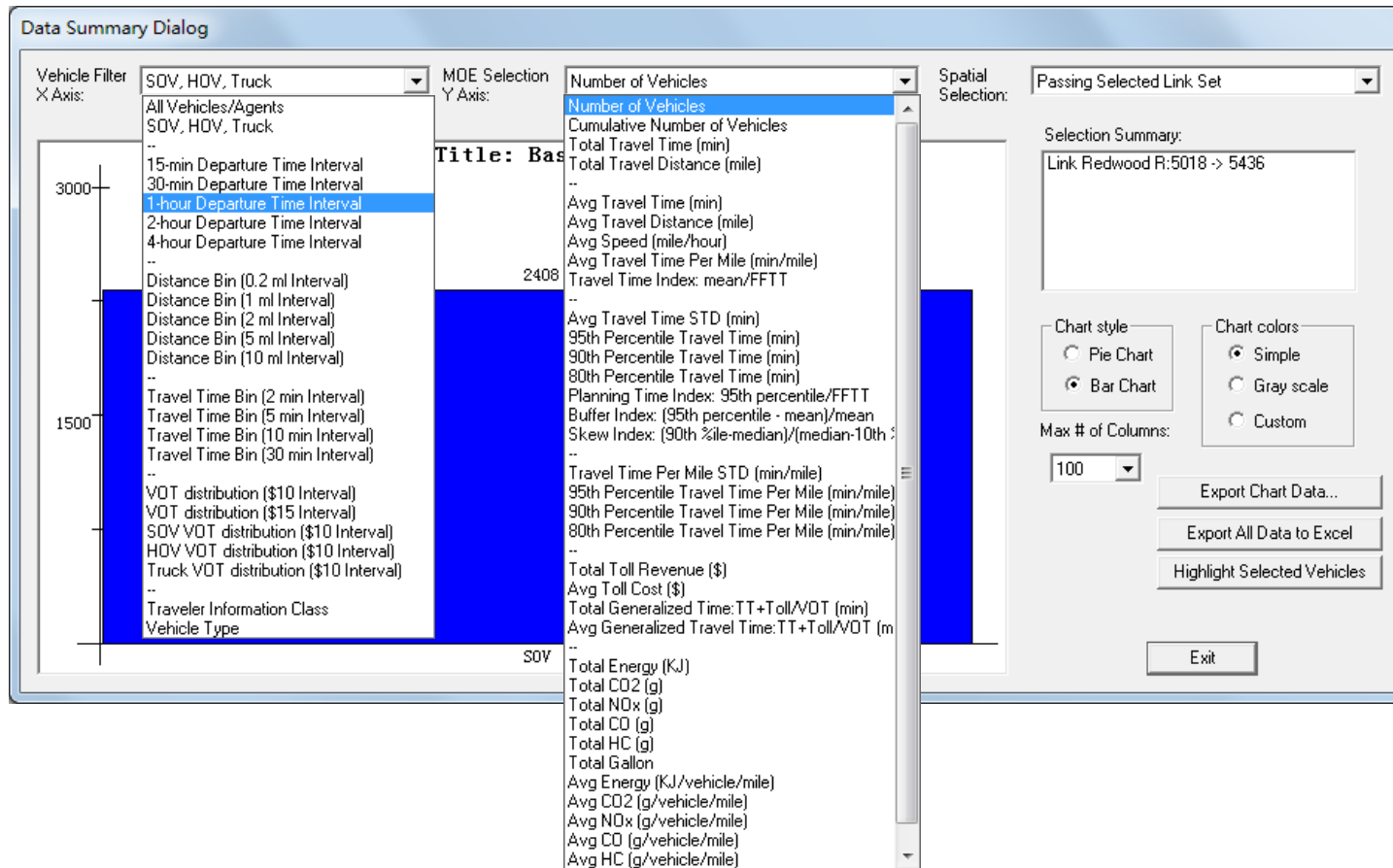


4

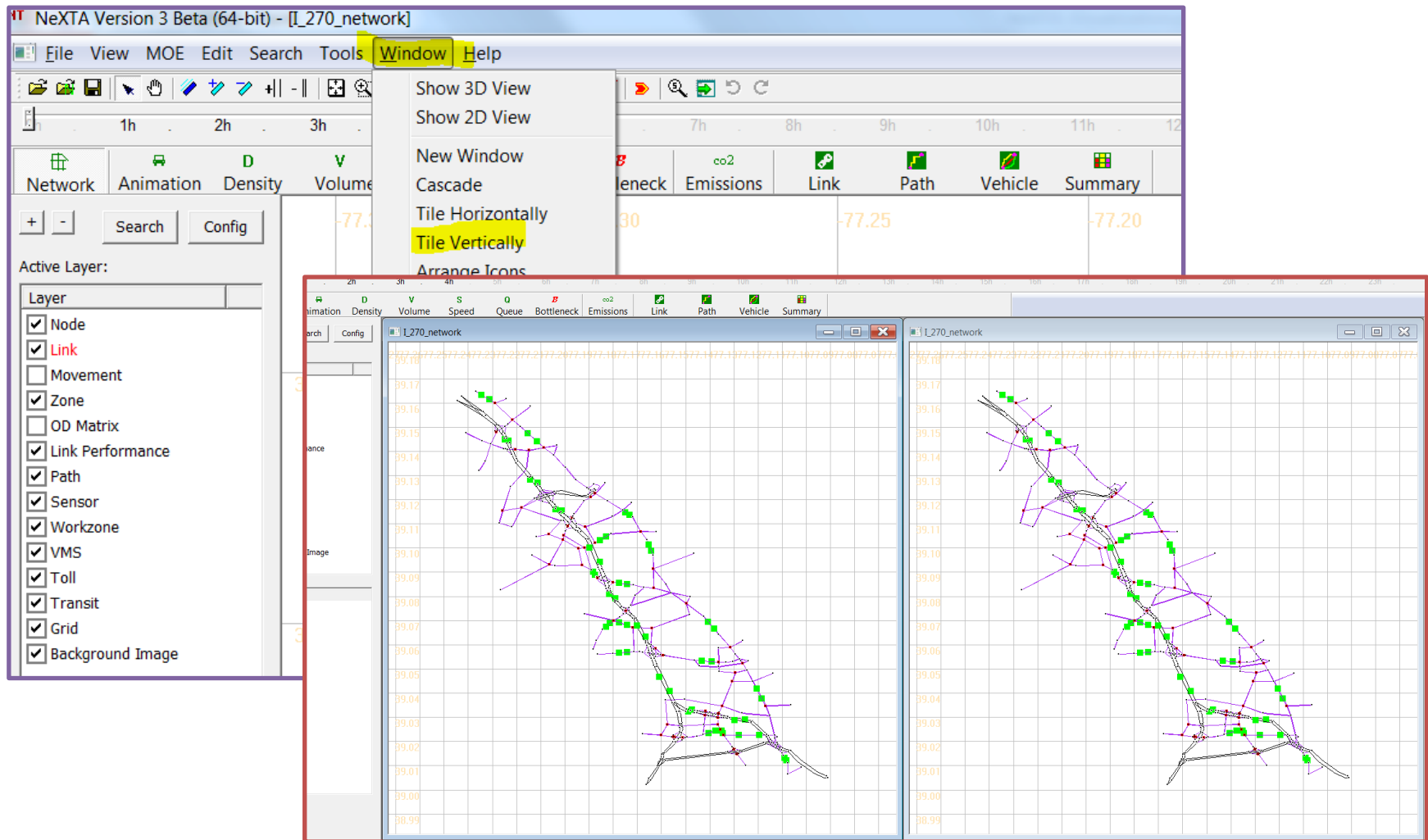
- View Link Properties for Selected Link
- Perform Vehicle Statistics Analysis on Selected Link
- View Link Data Table
- View Link-based Scenario Data
- Change Link Type Color
- Delete Link

# How to select link analysis?

5



# How to compare results of different scenarios?



# How to compare results of different scenarios?

