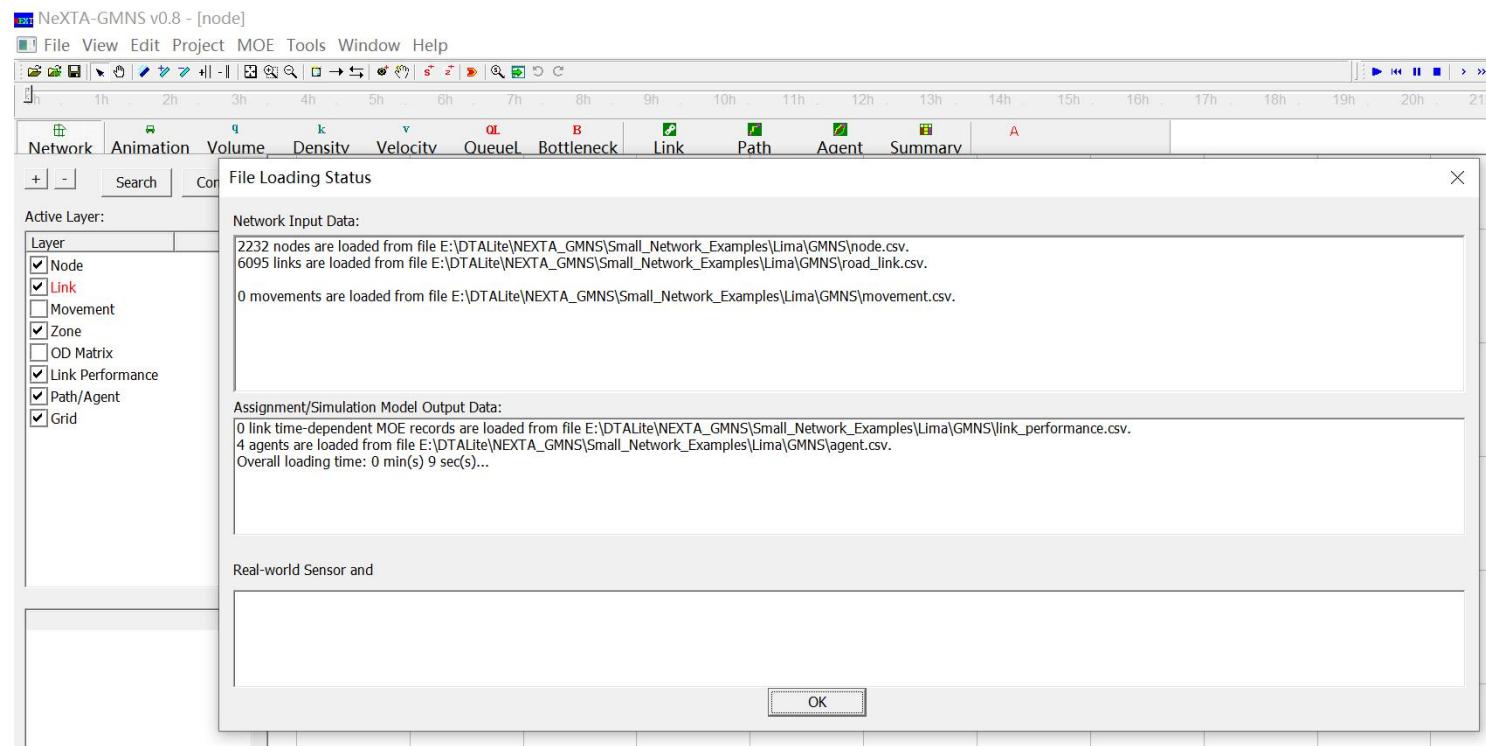


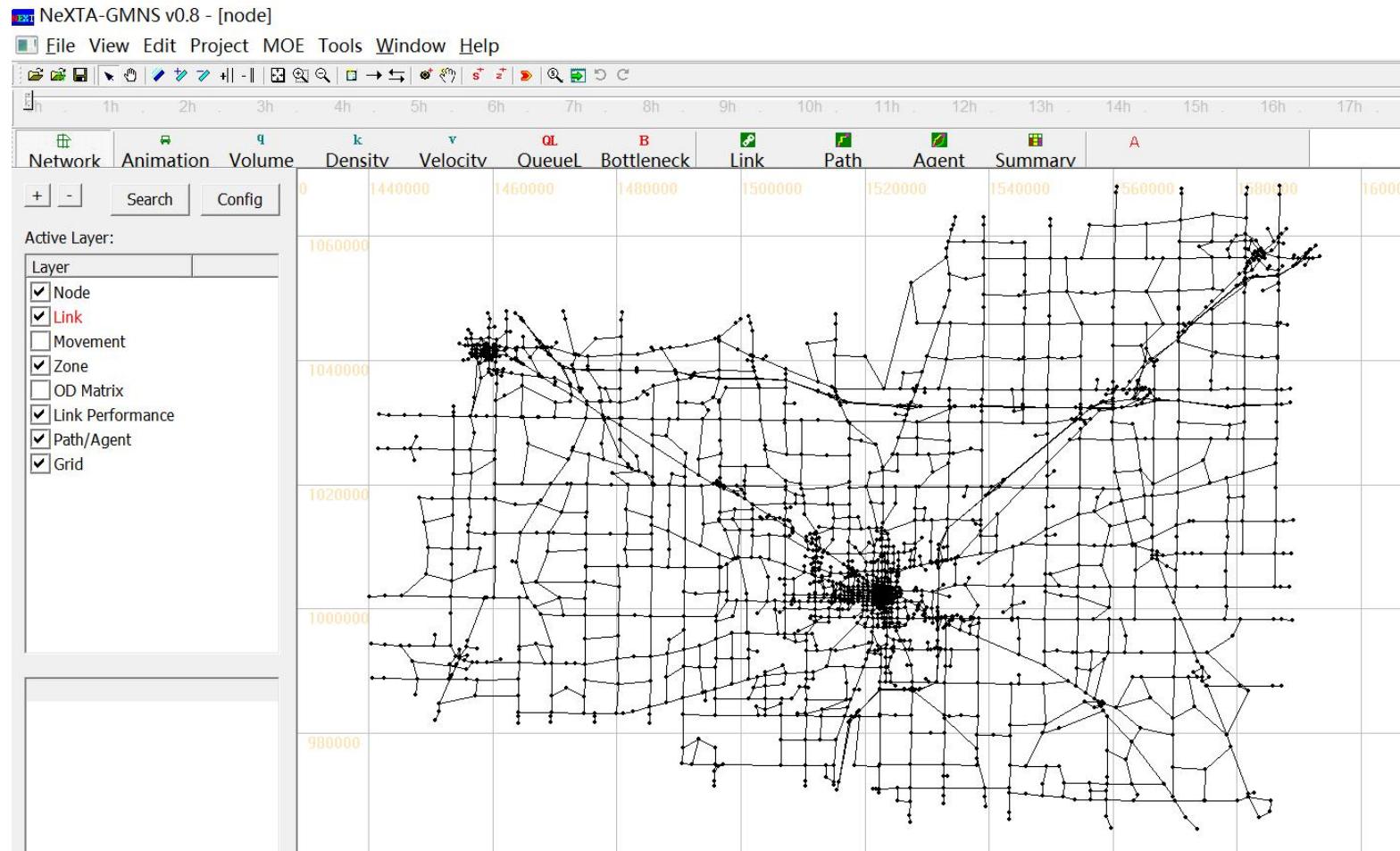
How to Guide: Use NeXTA Visualization Features

How to open a data set?

1



How to open a data set?



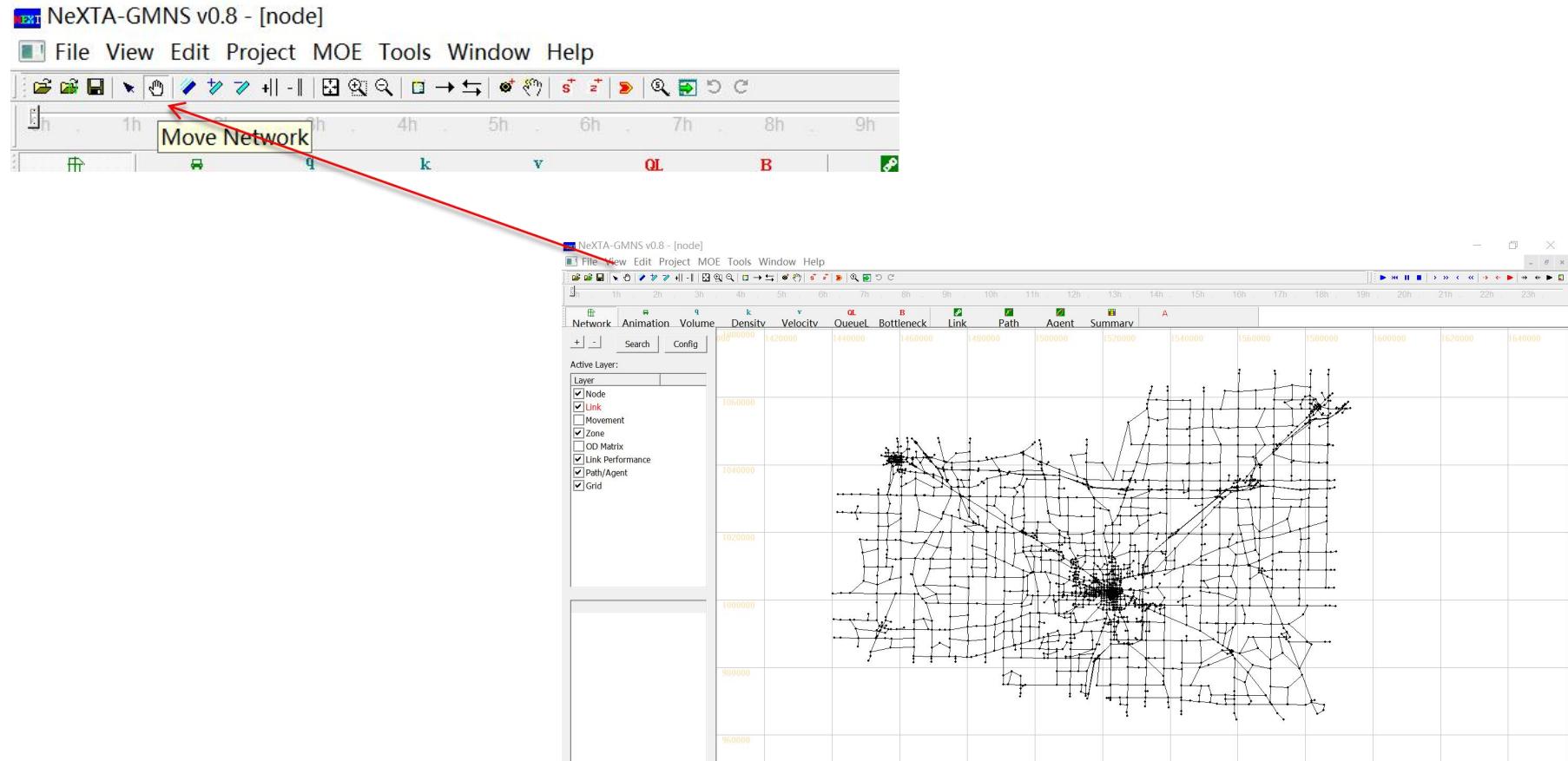
Outline

- 1. Network-related Display
- 2. Time-dependent Simulation Result Display
- 3. Advanced Analysis Features
- 4. Changing Network Data

NeXTA

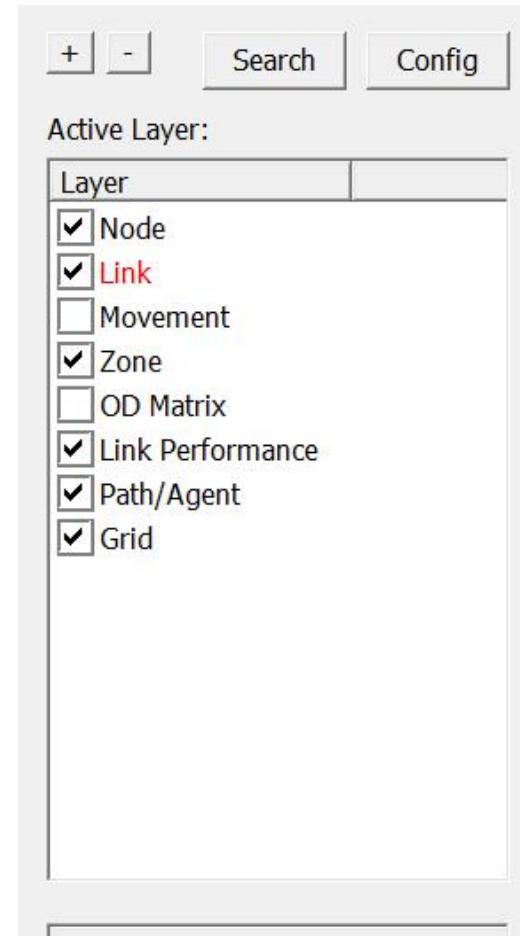
Network-related Display

How to move a network?

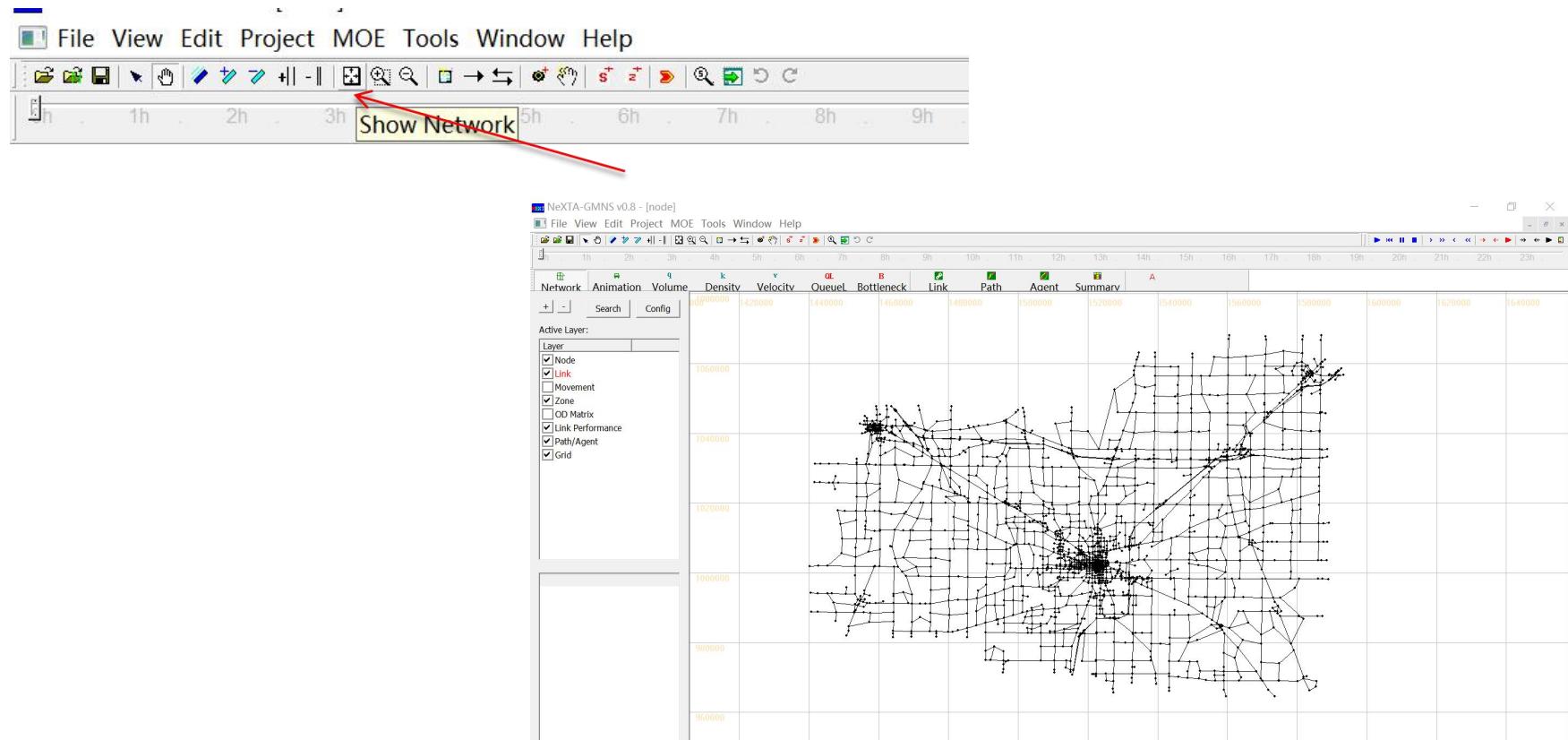


How to use GIS layer panel?

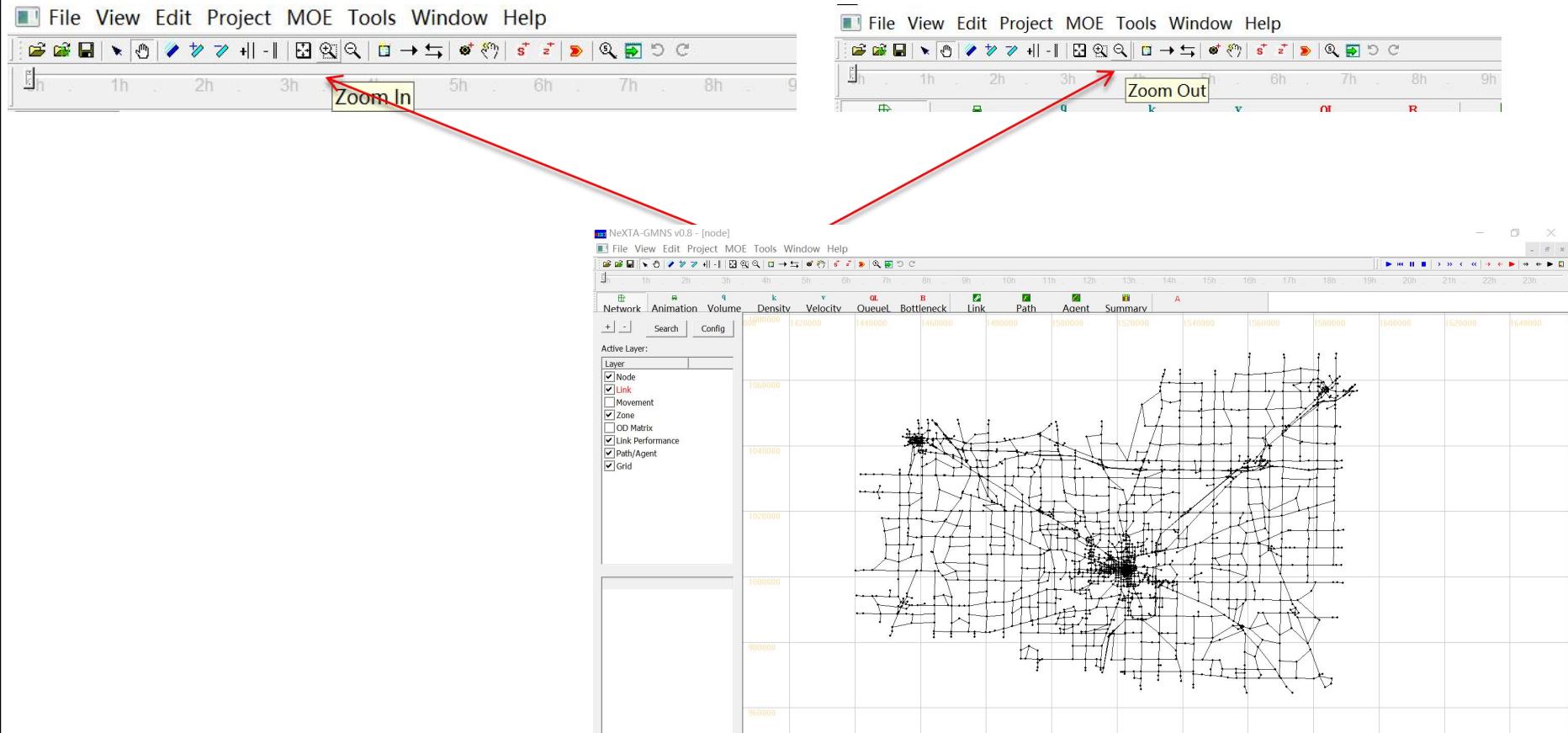
- Link layer is selected.



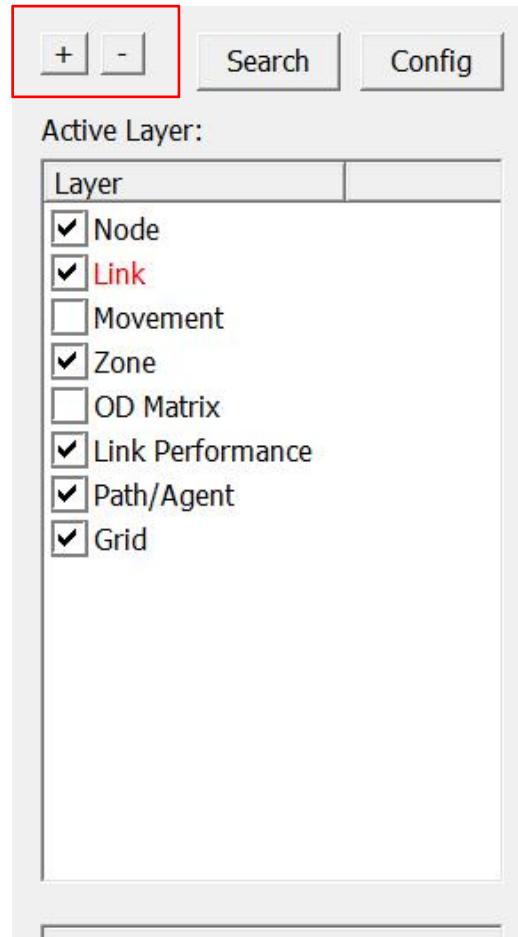
How to reset the network display?



How to zoom in and zoom out?

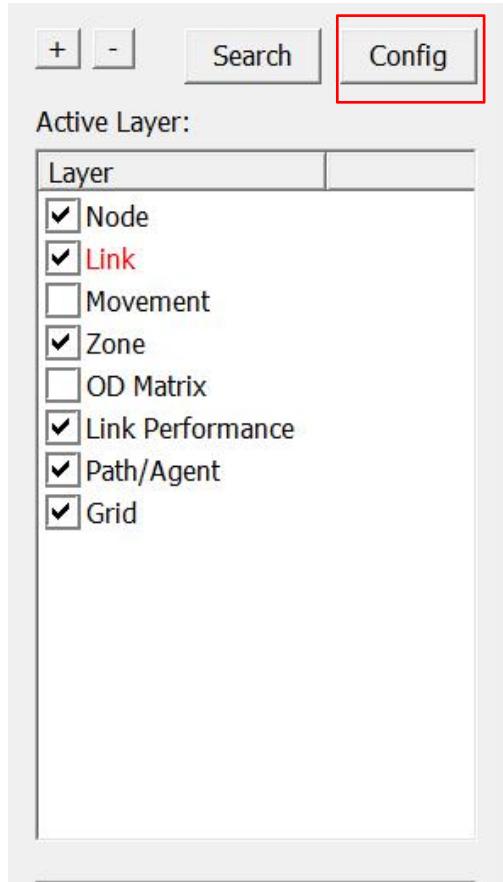


How to increase/decrease the size of node?

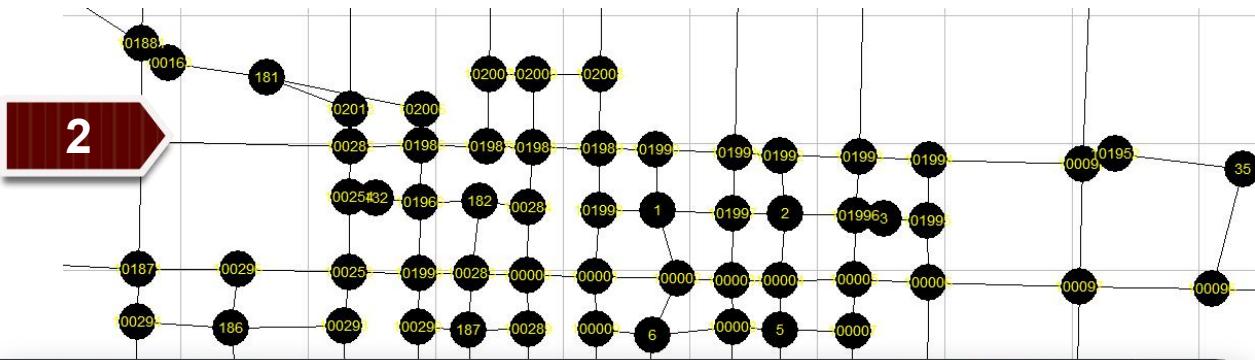


How to show node label?

1



2



Active Layer:

Layer

Node
 Link
 Movement
 Zone
 OD Matrix
 Link Performance
 Path/Agent
 Grid

Display Configuration

Node Text Label:

None
 Node ID
Sequential Node No.
Zone ID of Activity Location
Cycle Length In Second
Cycle Length for Signals only
Offset In Second for Signals
Intersection Name
Control Type

Link Text Label:

None
Street Name
Speed Limit (mph)
Length (mile)
Length (feet)
of Lanes
of Left Turn Lanes (positive value only)
Link Capacity Per Hour
Lane Capacity Per Hour
Total Link Volume
Level Of Service
Avg Simulated Speed (mph)
Avg Travel Time (min)
Avg Delay Per Vehicle (min)
Link ID
Speed Sensor ID

Movement Text Label:

Timing Plan: ALLDAY

None
Turn Type
of Lanes
Simulated Hourly Count
Simulated Turning %
Simulated Turn Delay (sec)
QEM Phase1
QEM Effective Green (sec)
Upstream Node Number
Downstream Node Number
Up,Current,Dest Node Numbers
Protected//Permitted//Prohibited

Signalized Node Only

Size of Node Text: + -

Size of Link Text: + -

Link Performance Aggregation Interval (min): 1

Primary Data Source for Speed and Travel Time Visualization: Simulation Data

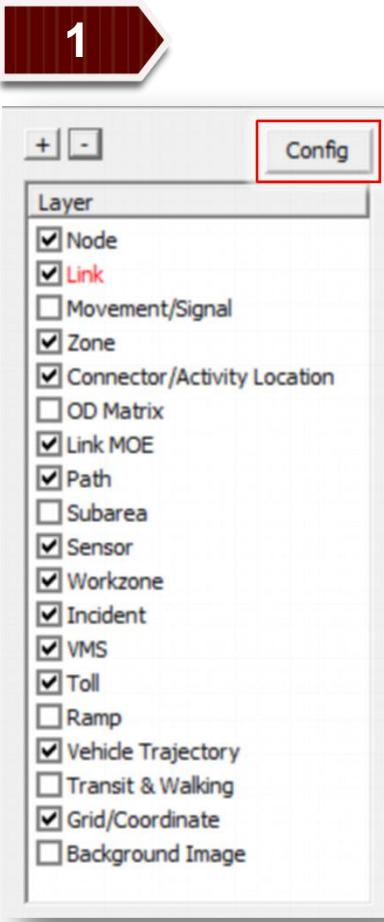
Size of Movement Display Box: + -

Size of Movement Text: + -

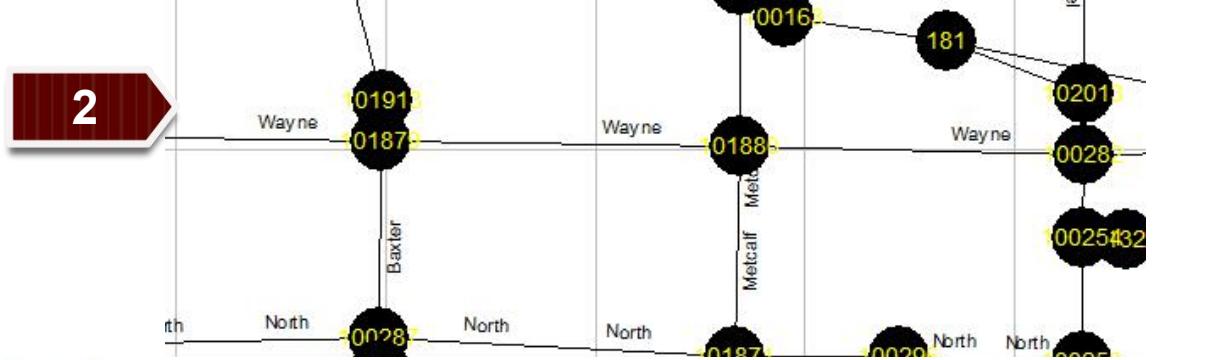
OK

How to show link label?

1



2



Display Configuration

Node Text Label:

- None
- Node ID**
- Sequential Node No.
- Node Name

Link Text Label:

- None
- Name**
- Link ID
- From ID -> To ID
- Length
- Free Speed
- # of Lanes
- Lane Capacity
- Link Capacity
- Free Flow Travel Time
- Link type In Text
- Link type In Number

Movement Text Label:

- None
- Turn Type
- Turn Direction
- ib_lane
- ob_lane
- penalty
- capacity

Signalized Node Only

Size of Node Text:

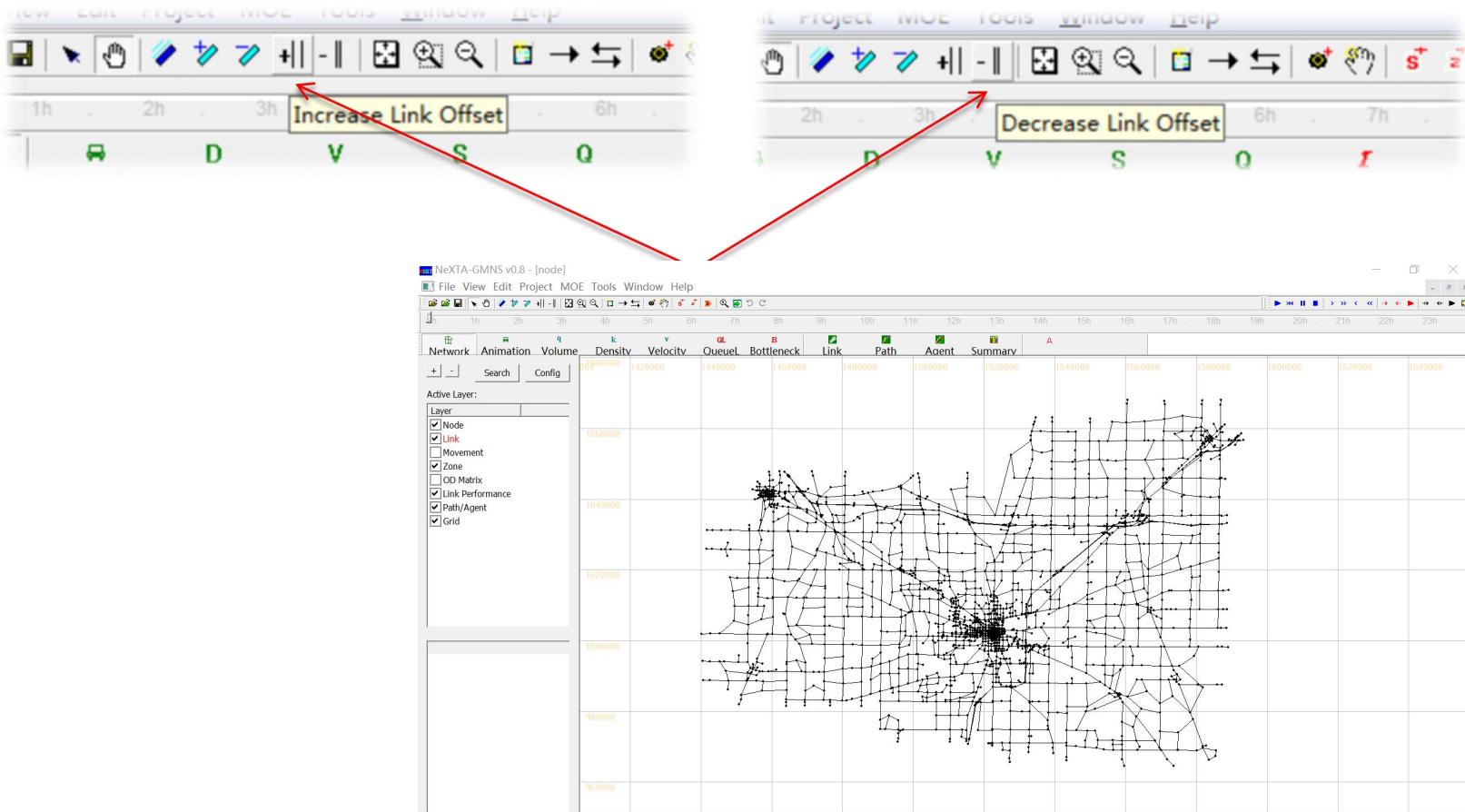
Size of Link Text:

Size of Movement Display Box:

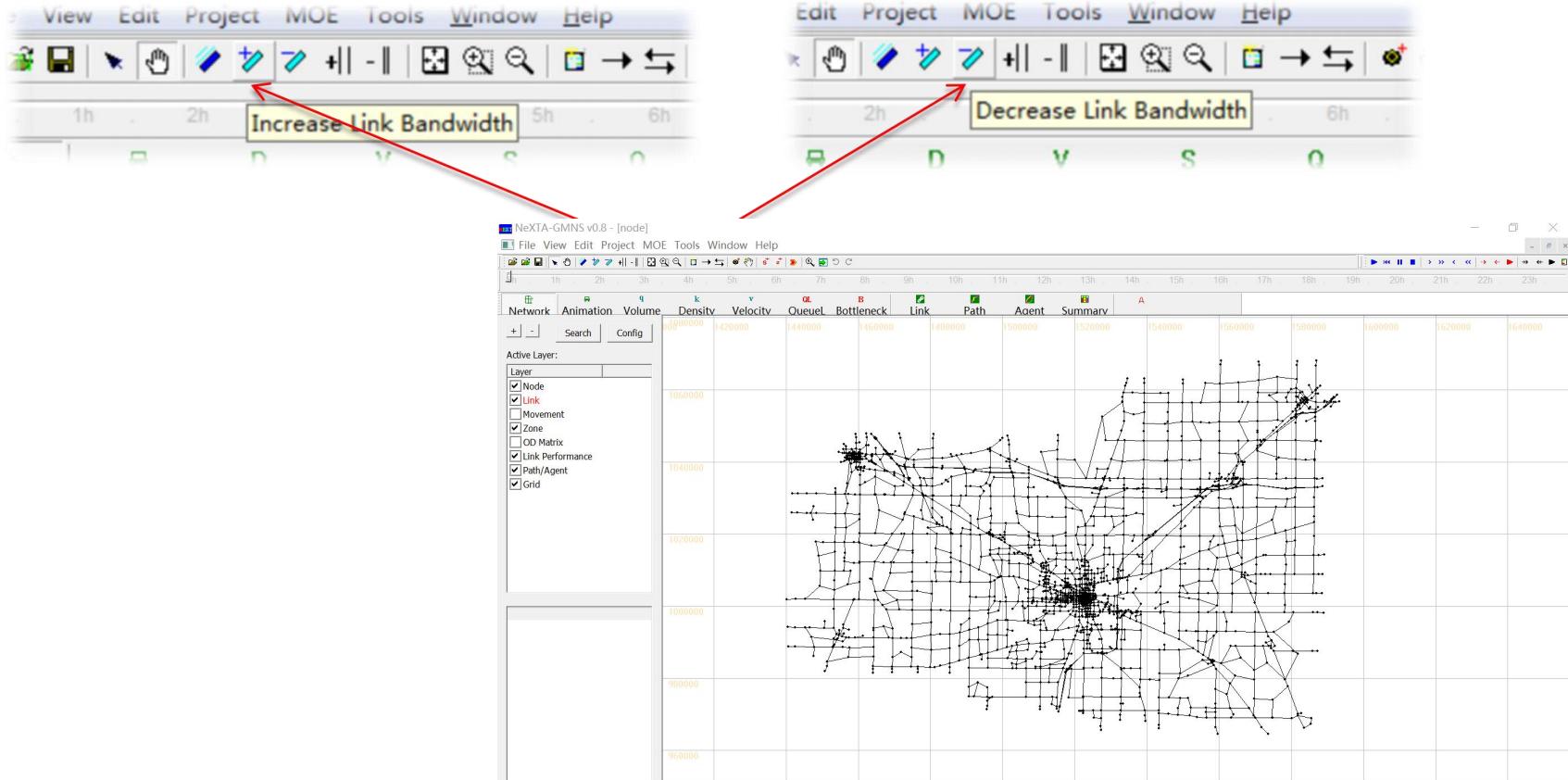
Size of Movement Text:

OK

How to increase/decrease offset between links?

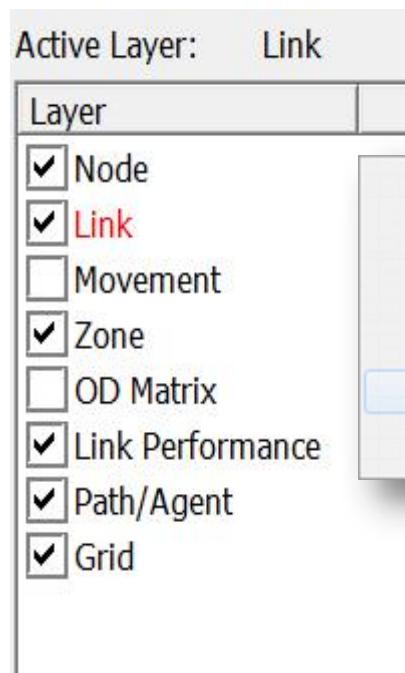


How to increase the bandwidth of a link?

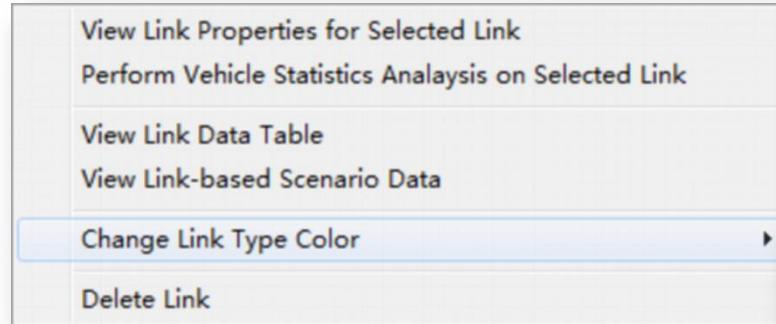


How to change link color?

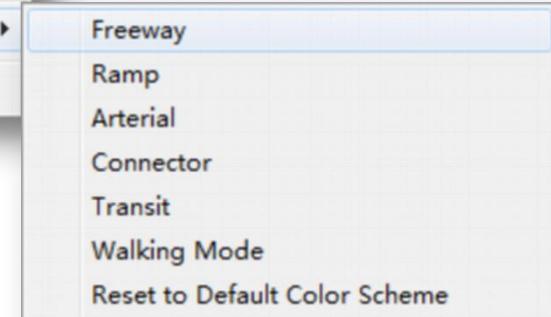
1



2

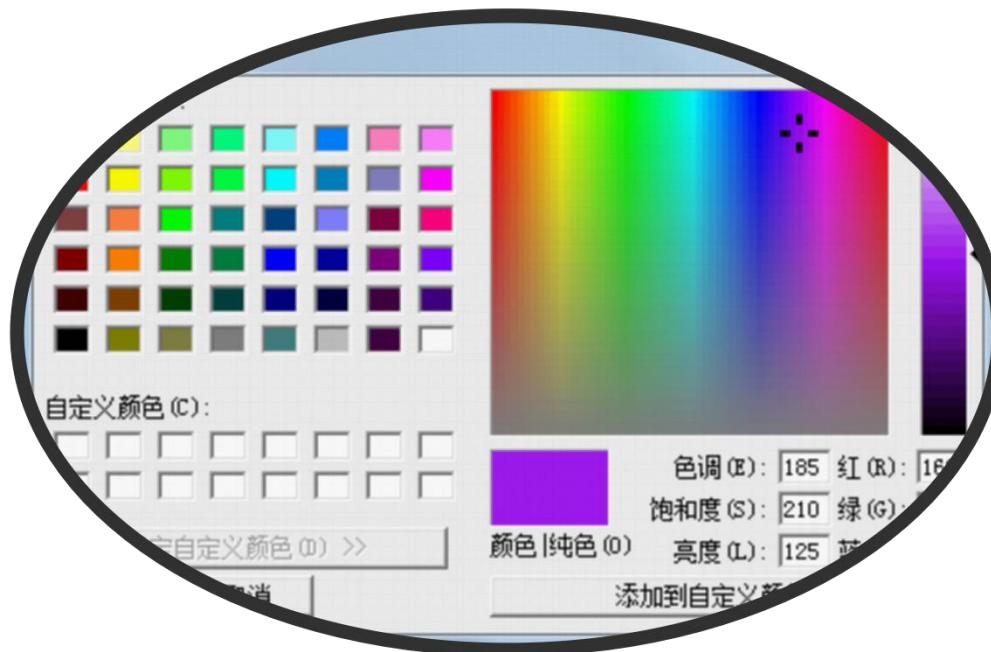


3

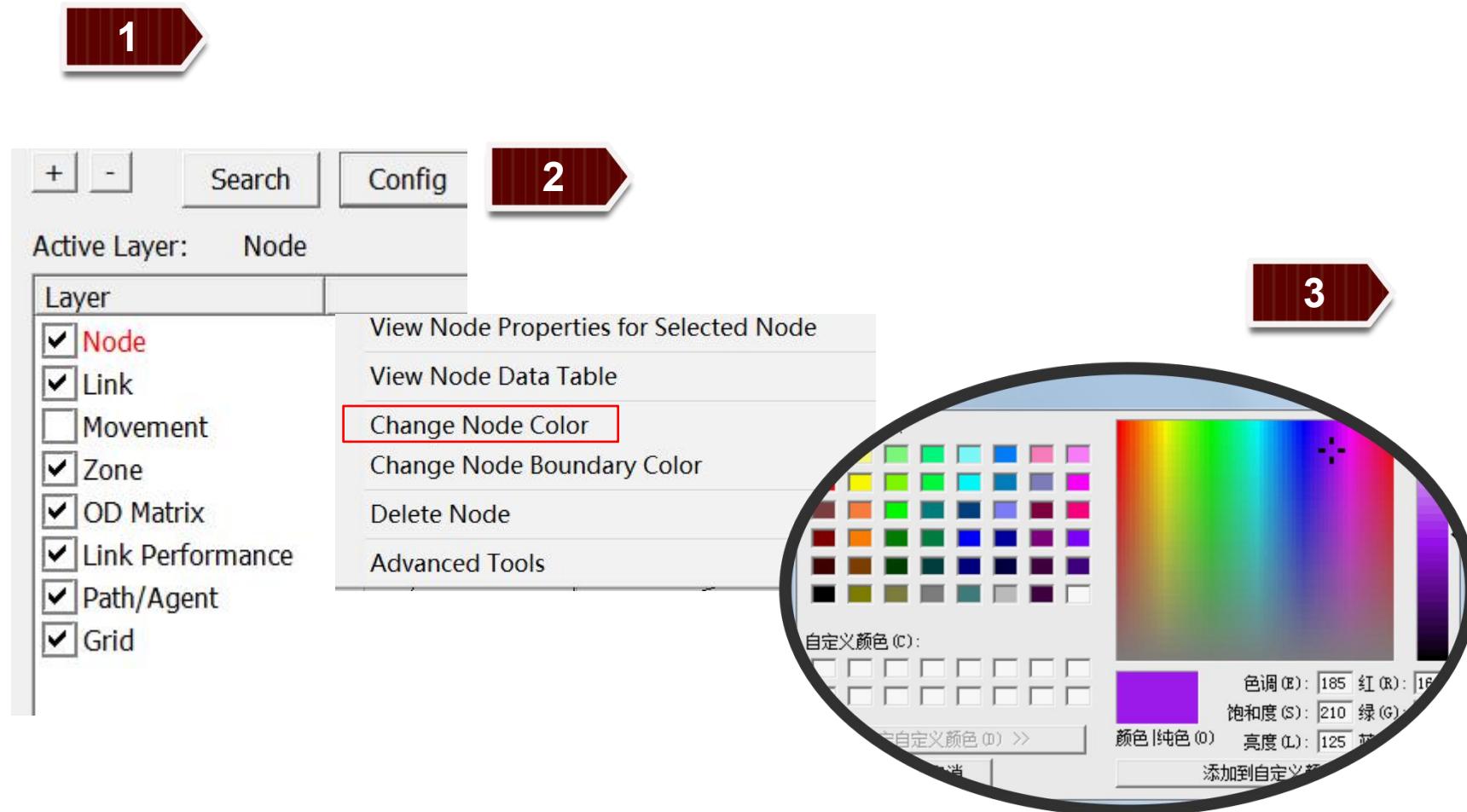


How to change link color?

4

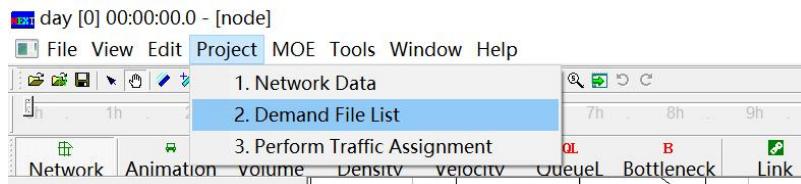


How to change node color?



How to show OD matrix?

1



2

OD Demand Table

1. Demand File List:

No.	File Name	Format Type	Loading Mult...	Start Time (...)	End Time (m...)	With Time P...
< >						

Edit Demand File List in Excel Edit Selected Demand File in Excel

2. Demand Type:

No.	Demand Type	Avg VOT	% of Pretrip ...	% of Enroute...
< >				

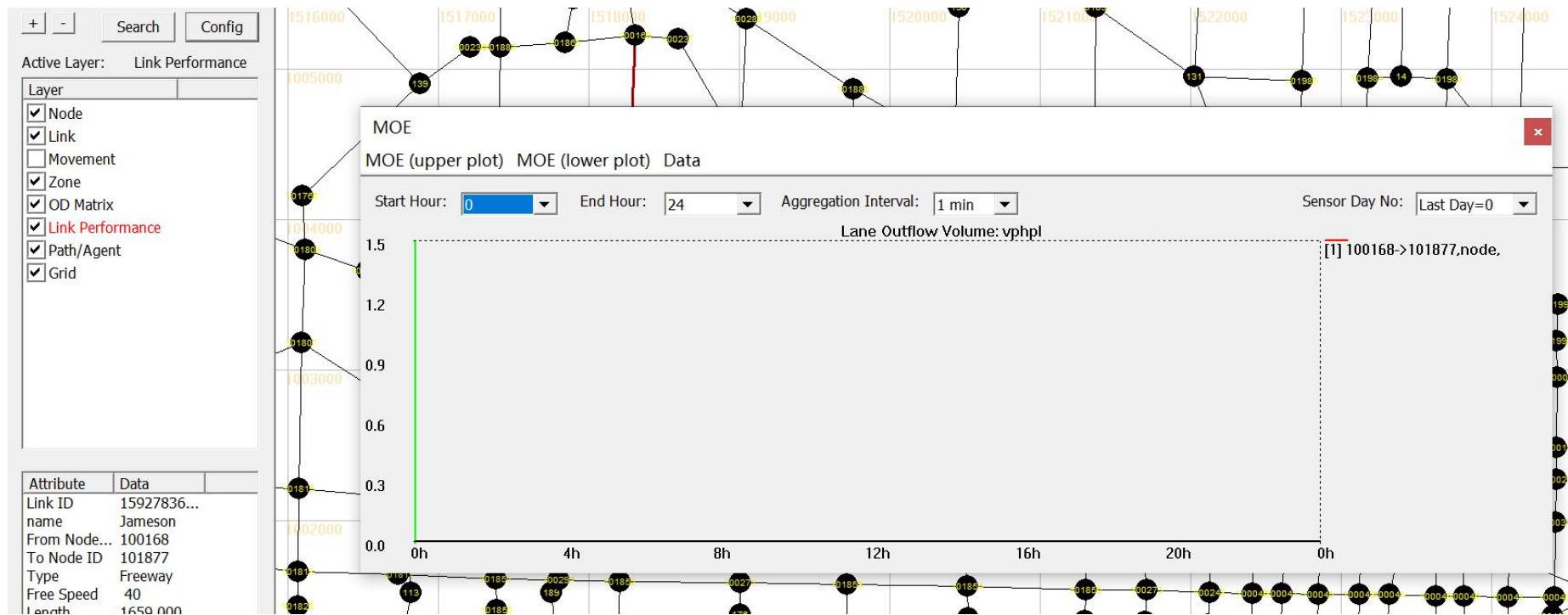
Edit Demand Type File in Excel

Exit

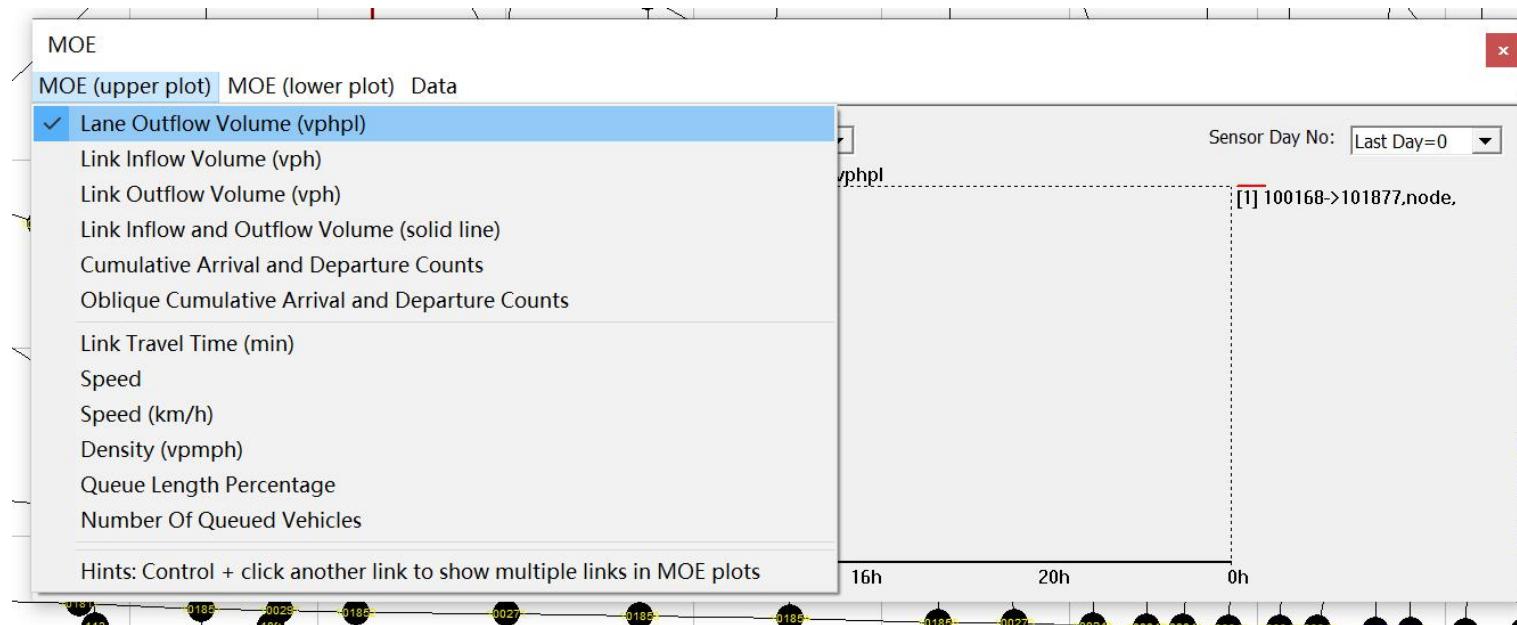
How to show link MOE?

1

2



How to show link MOE?

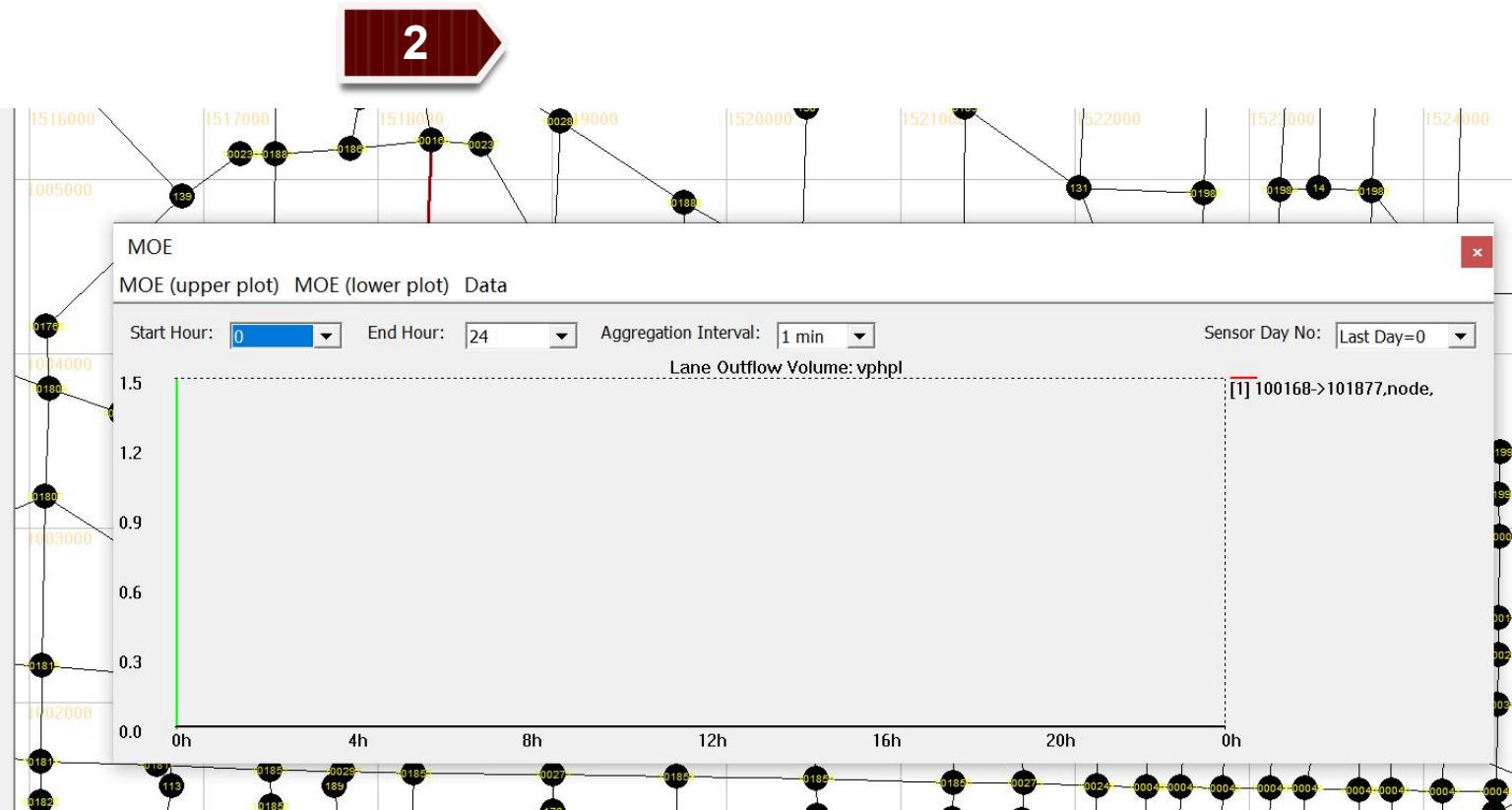


How to show two MOEs simultaneously?

1

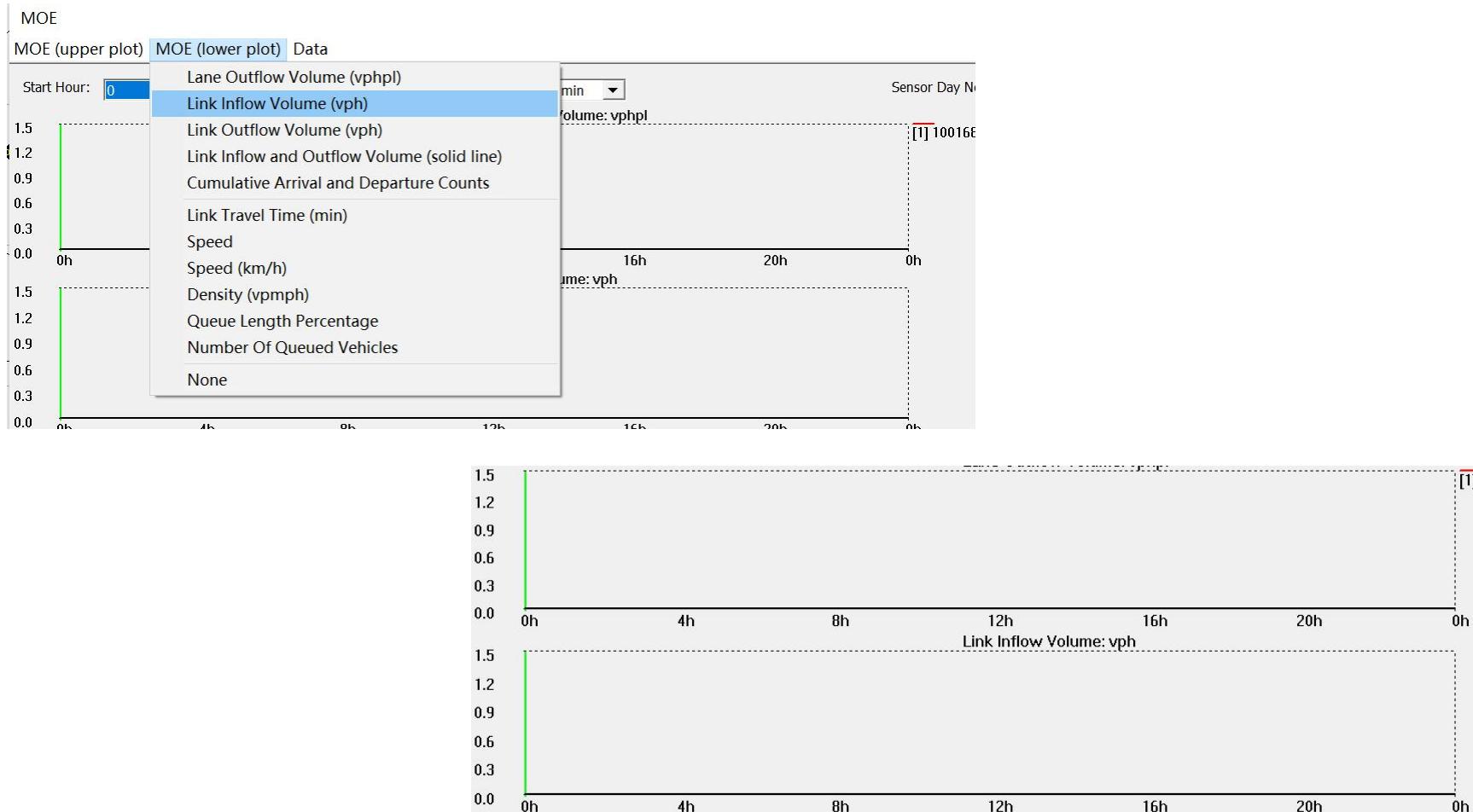


2



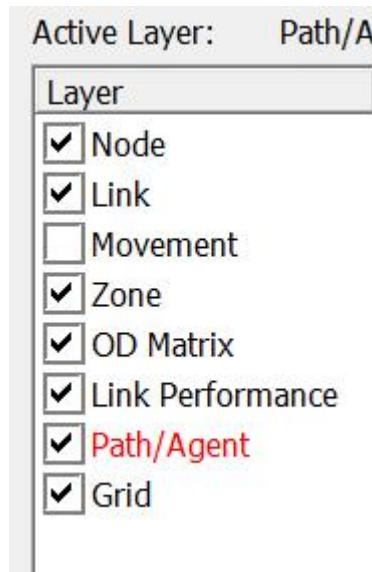
How to show two MOEs simultaneously?

3

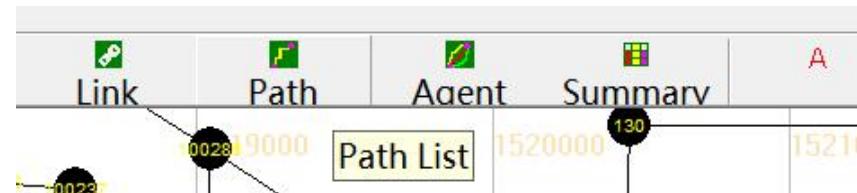


How to select a path?

1

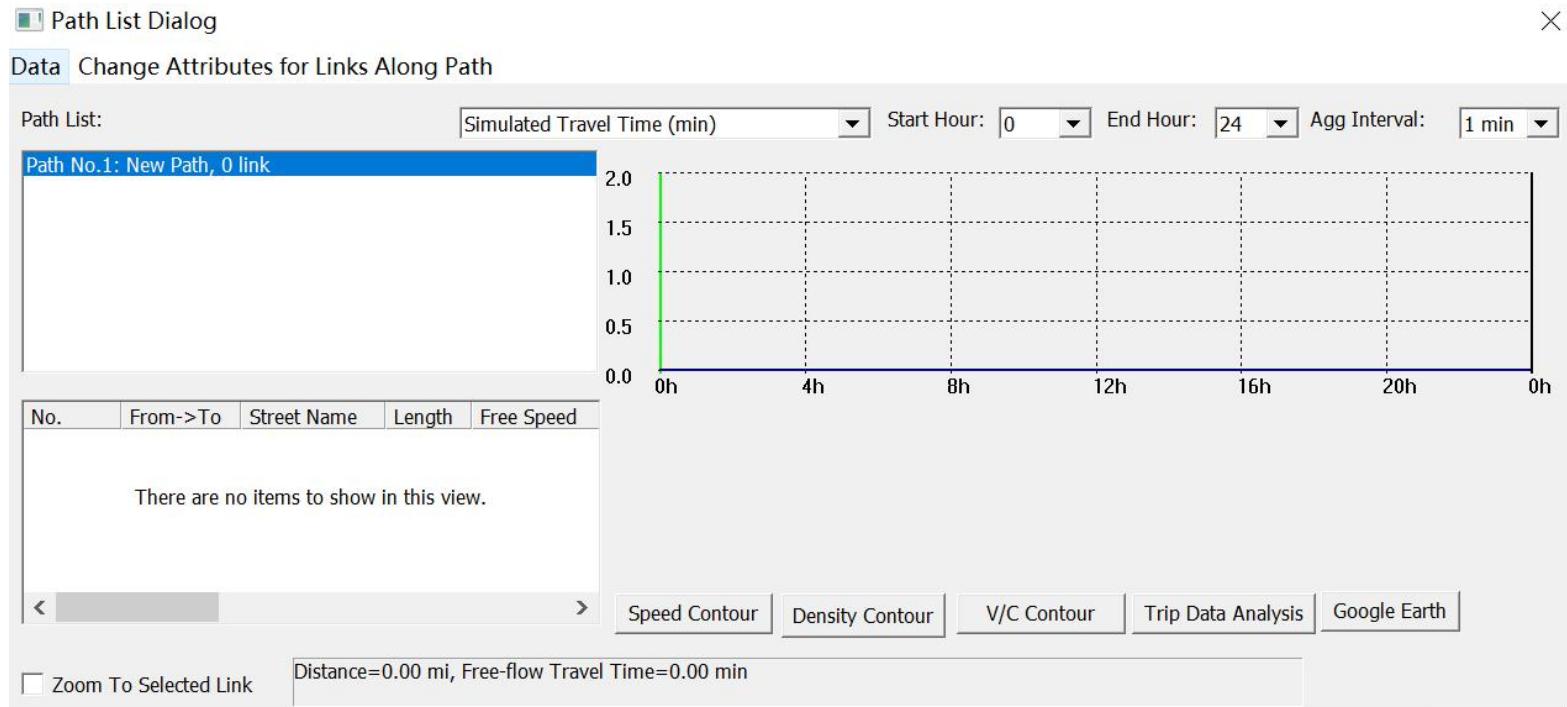
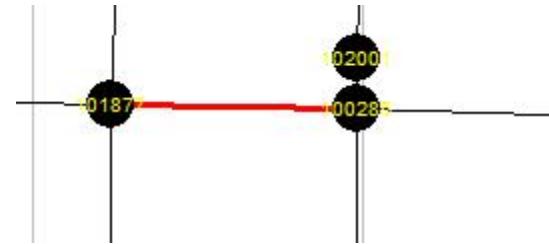


2



How to select a path?

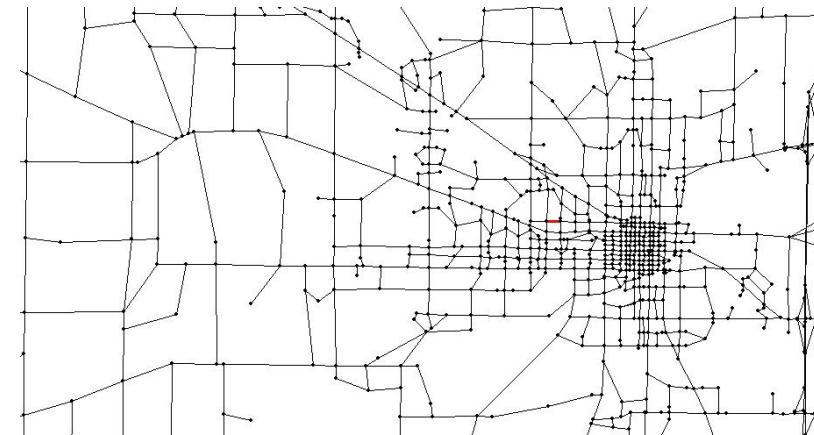
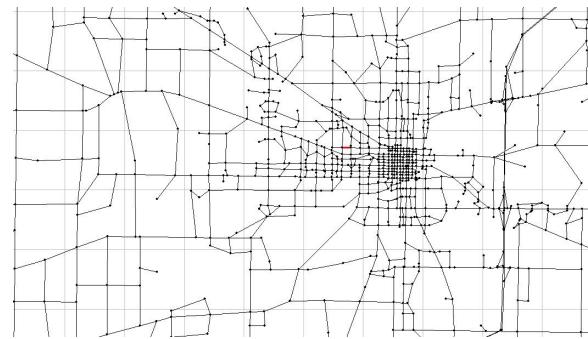
3



How to show/hide grid?

Active Layer: Grid

Layer
<input checked="" type="checkbox"/> Node
<input checked="" type="checkbox"/> Link
<input type="checkbox"/> Movement
<input checked="" type="checkbox"/> Zone
<input checked="" type="checkbox"/> OD Matrix
<input checked="" type="checkbox"/> Link Performance
<input checked="" type="checkbox"/> Path/Agent
<input checked="" type="checkbox"/> Grid

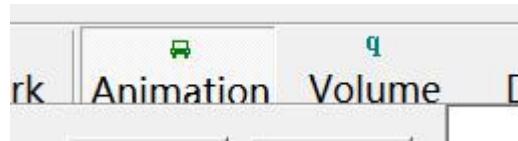


NeXTA
AMS

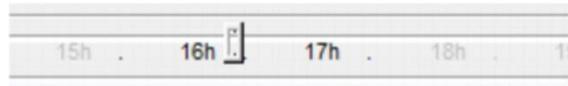
**Time-dependent AMS
Result Display**

How to display time-dependent simulation result?(Animation)

1

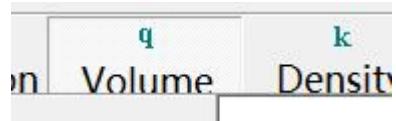


2

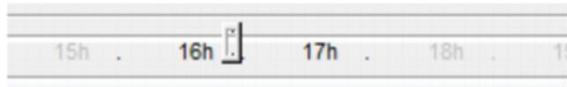


How to display time-dependent simulation result?(Volume)

1

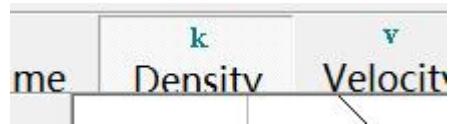


2

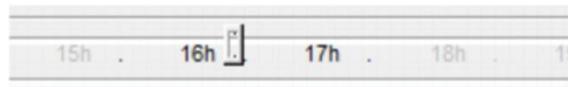


How to display time-dependent simulation result?(Density)

1



2



How to display time-dependent simulation result?(Speed)

1

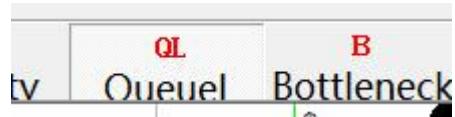


2



How to display time-dependent simulation result?(Queue)

1

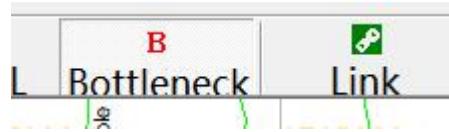


2



How to display time-dependent simulation result?(Bottleneck)

1



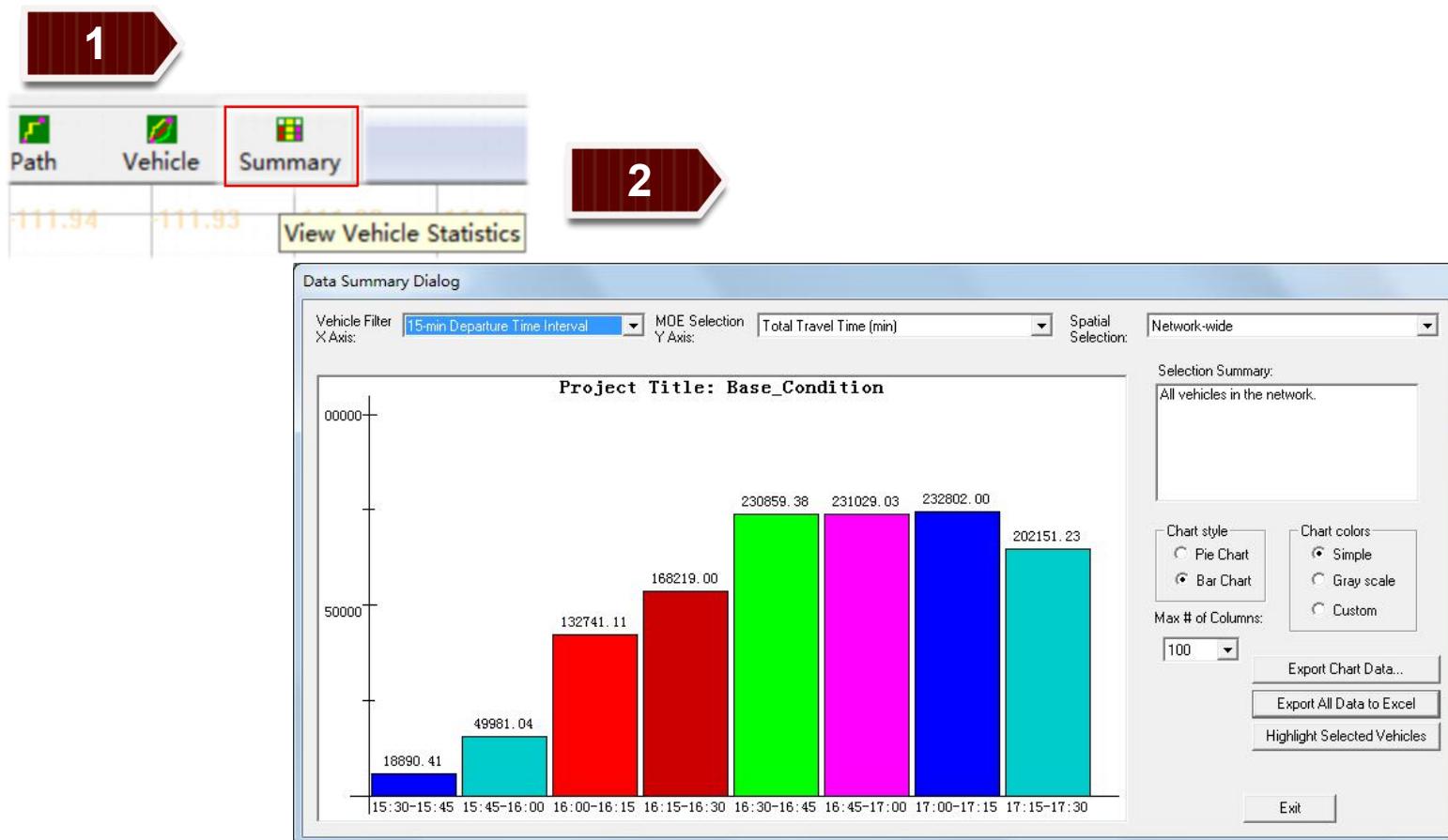
2



NeXTA

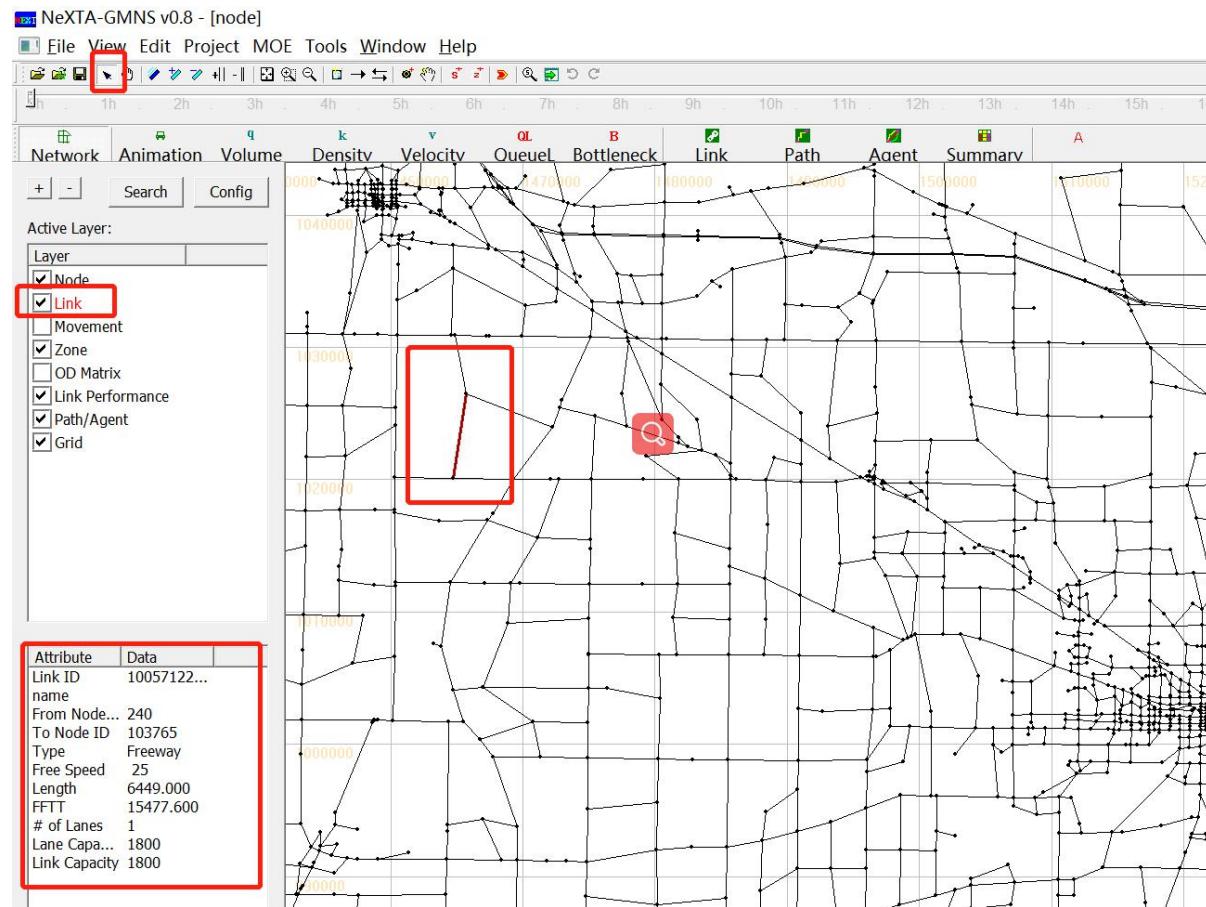
Advanced Analysis Features

How to do overall network statistics?



How to select link analysis?

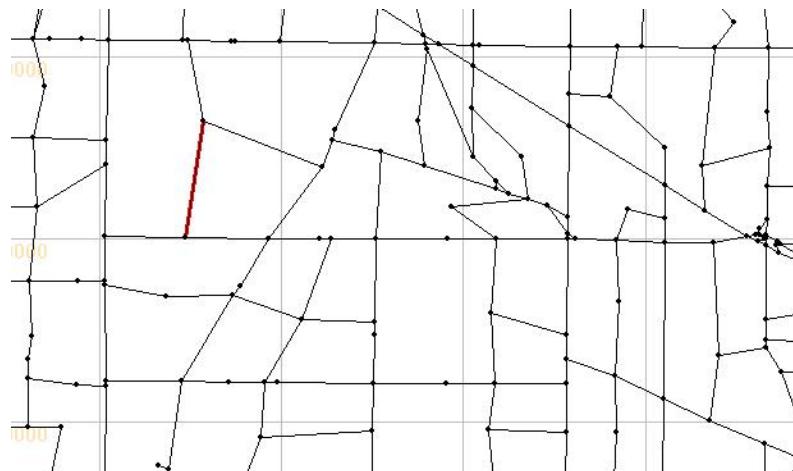
1



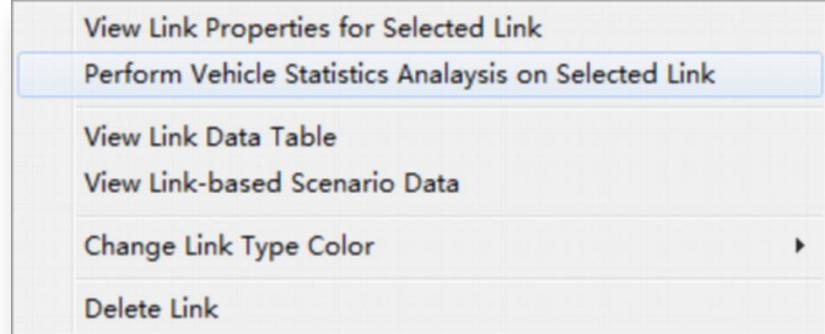
2

How to select link analysis?

3

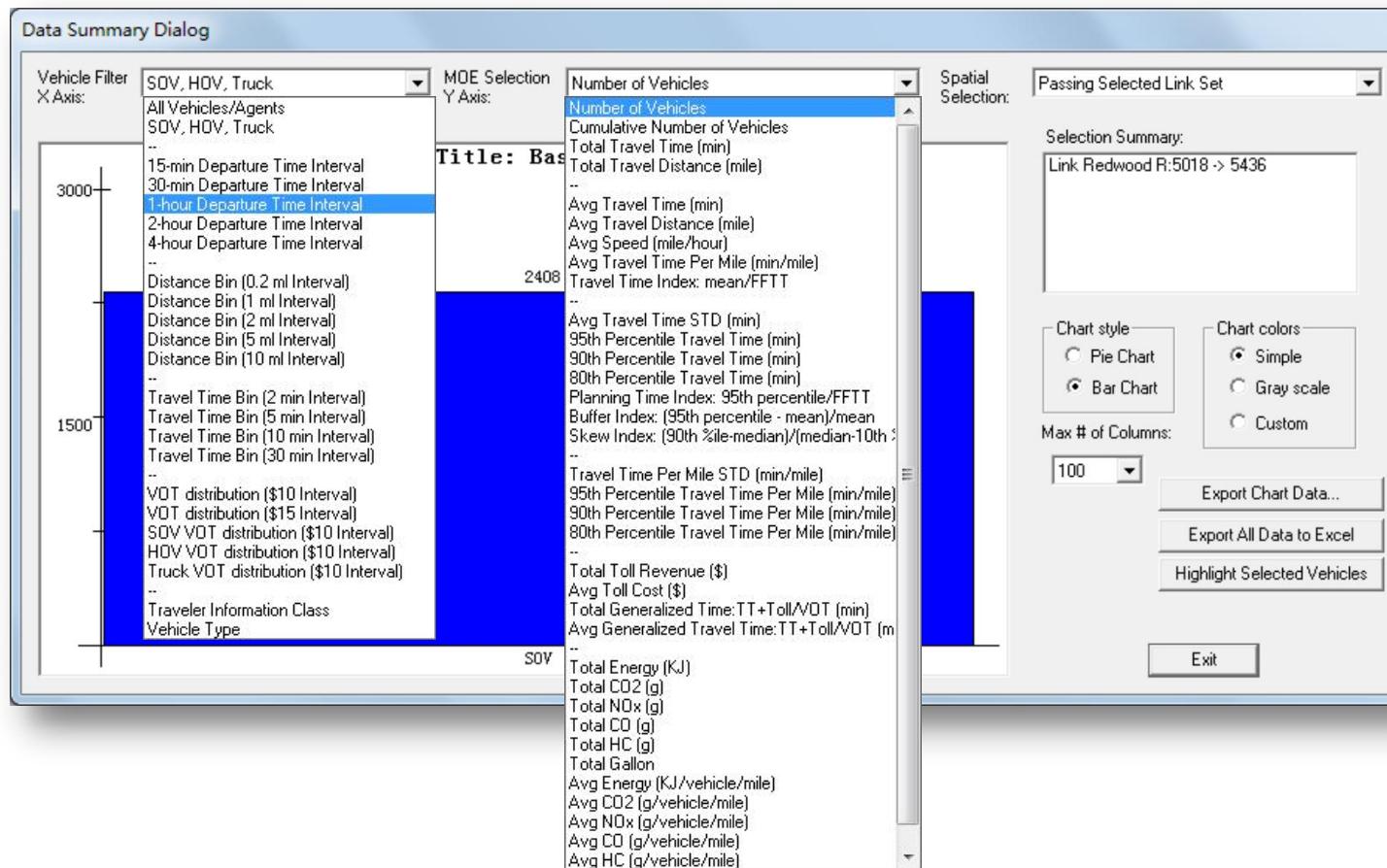


4



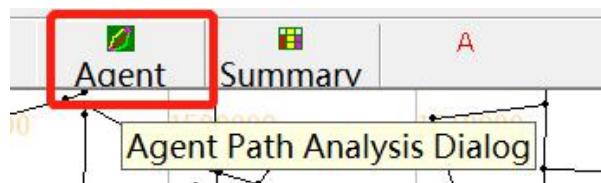
How to select link analysis?

5

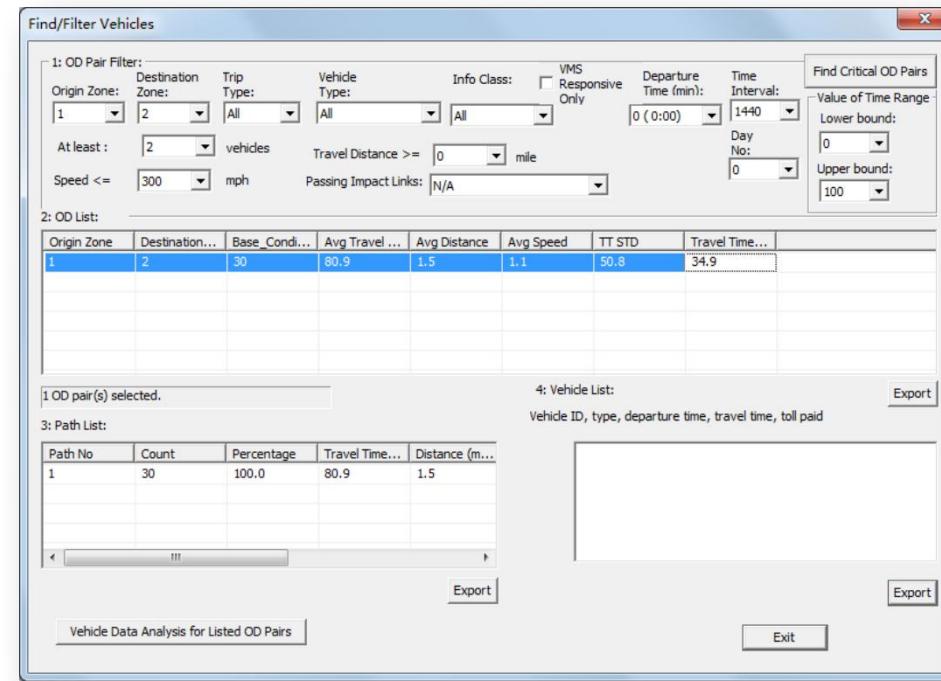


How to select OD analysis?

1

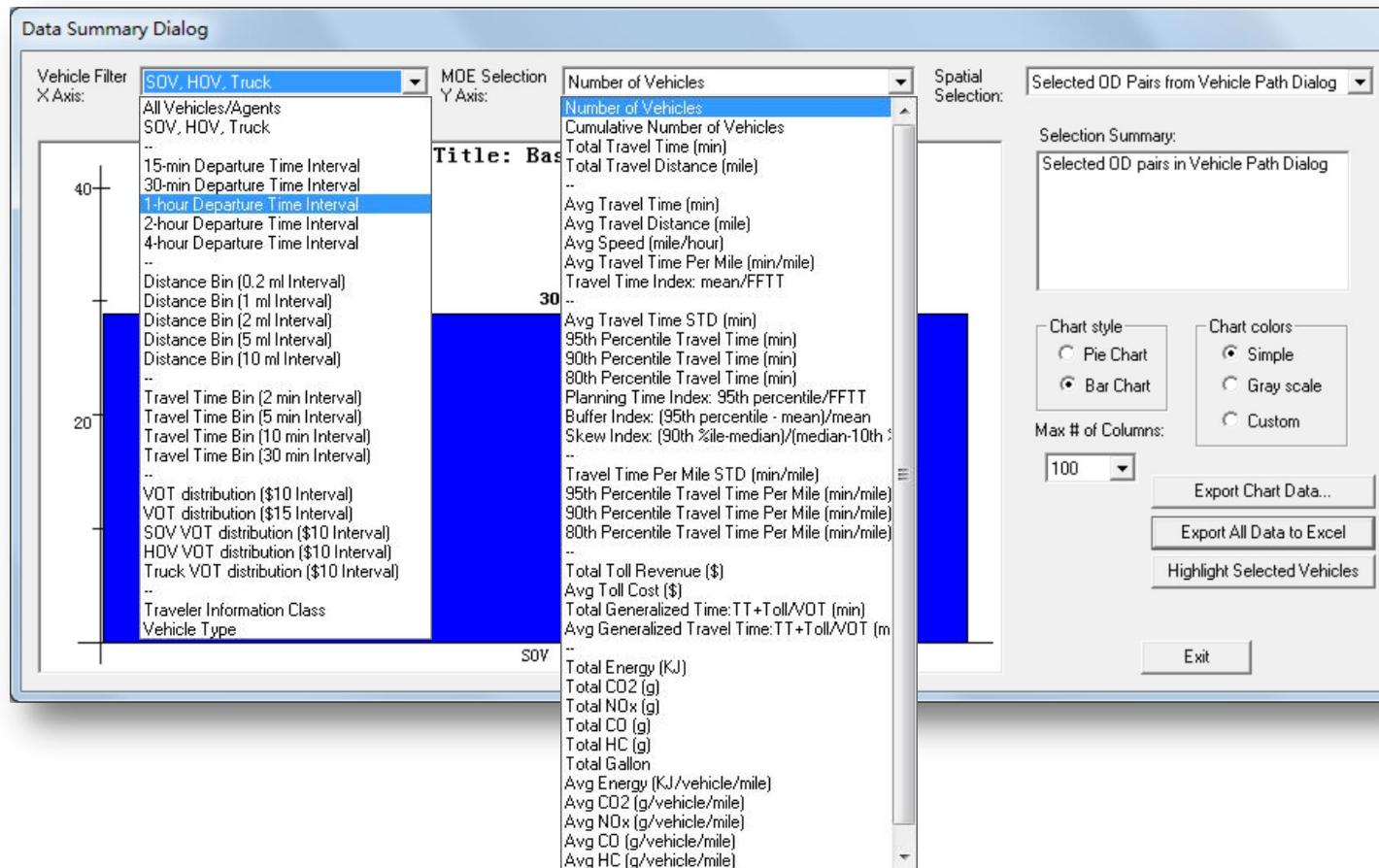


2



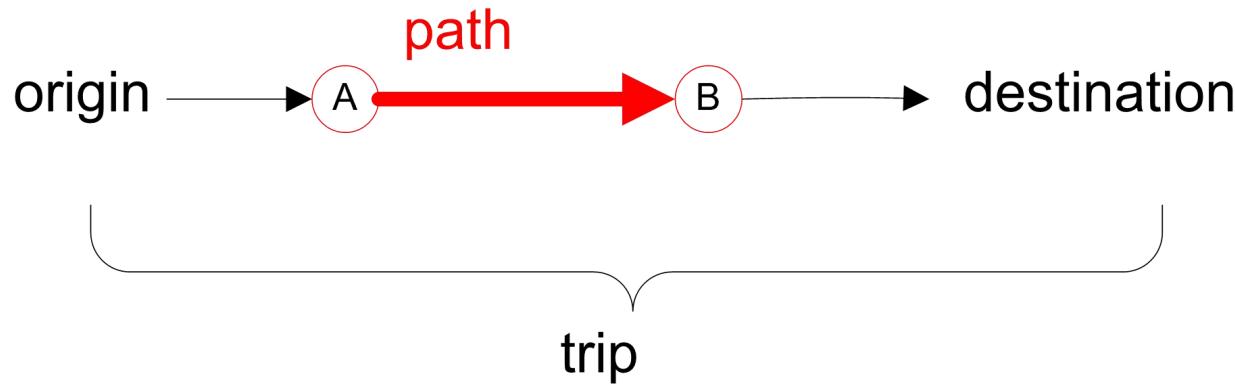
How to select link analysis?

3



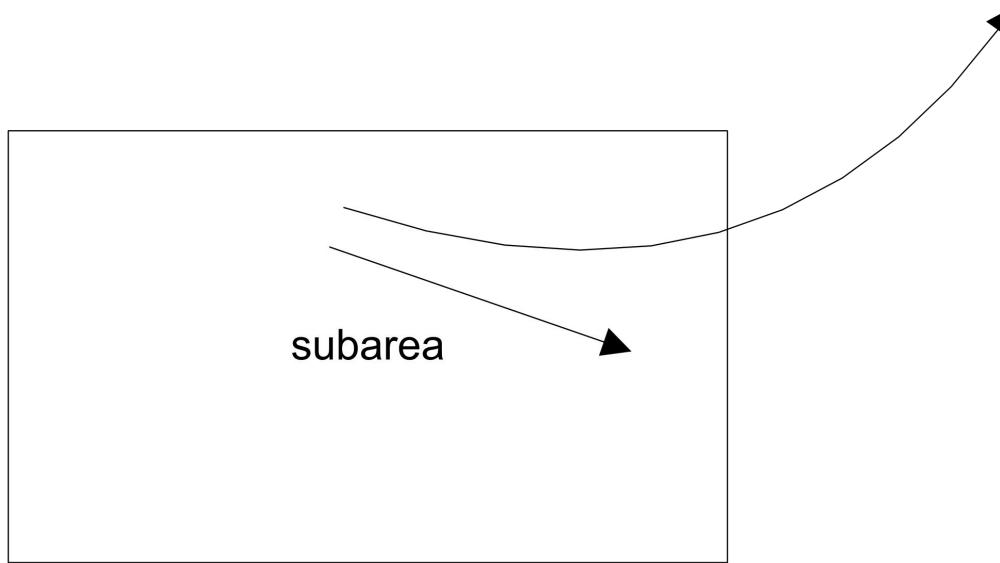
How to define vehicle selection categories?

- Trips Passing Selected Path
- Partial Trips Passing Selected Path



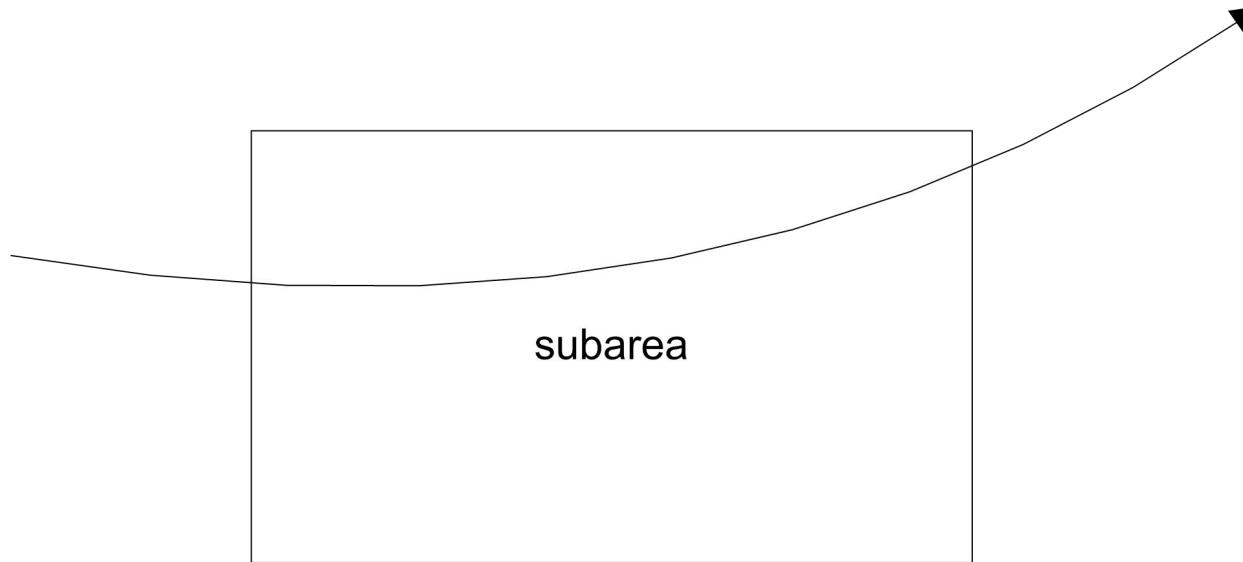
How to define vehicle selection categories?

- Originating from Subarea



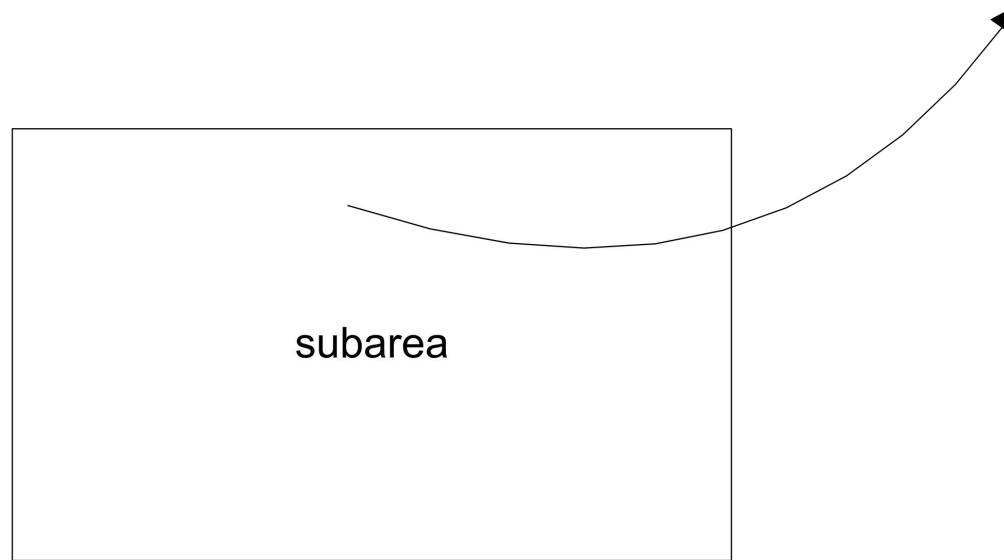
How to define vehicle selection categories?

- Traversing through Subarea



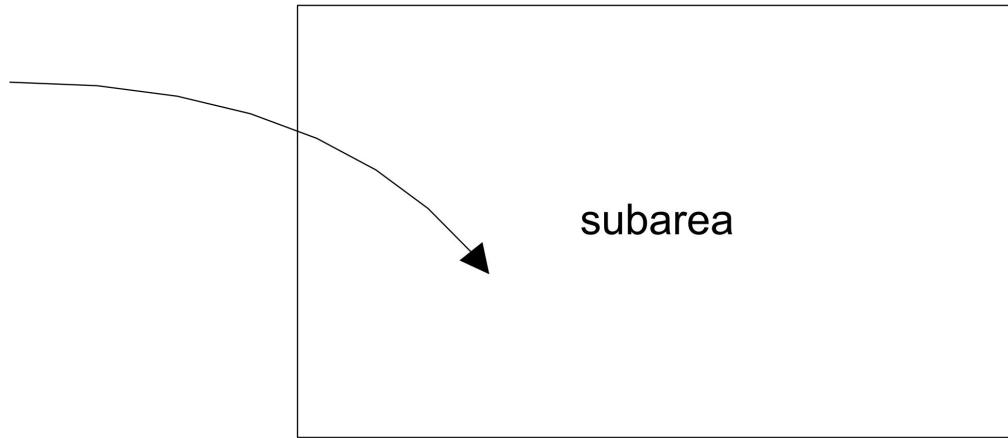
How to define vehicle selection categories?

- Subarea Internal-to-External Trips



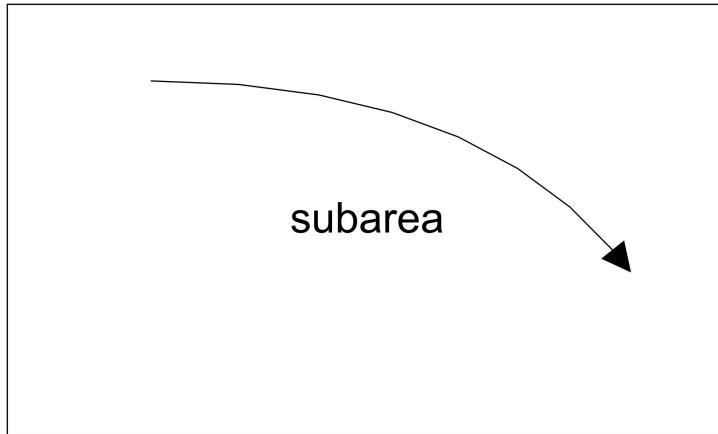
How to define vehicle selection categories?

- Subarea External-to-Internal Trips



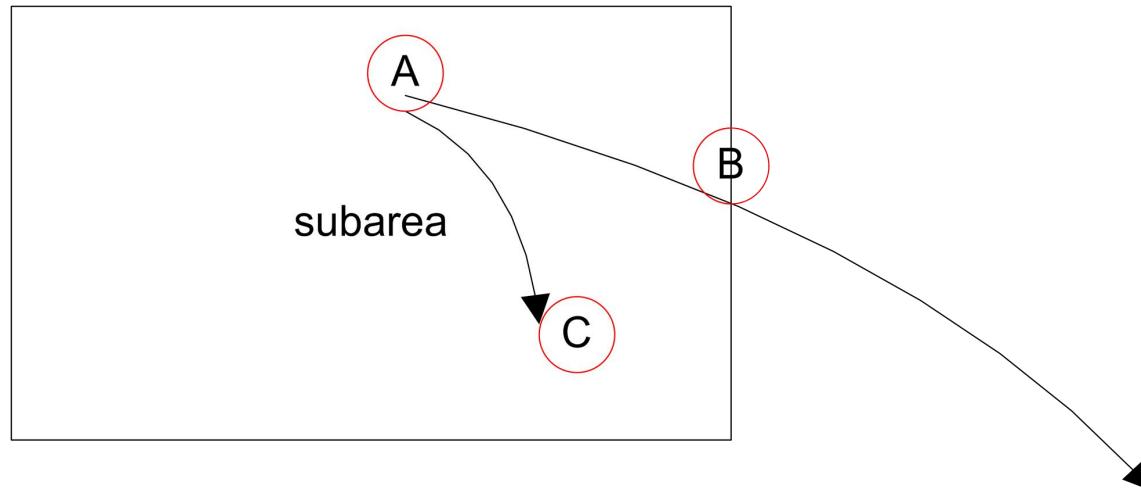
How to define vehicle selection categories?

- Subarea Internal-to-Internal Trips



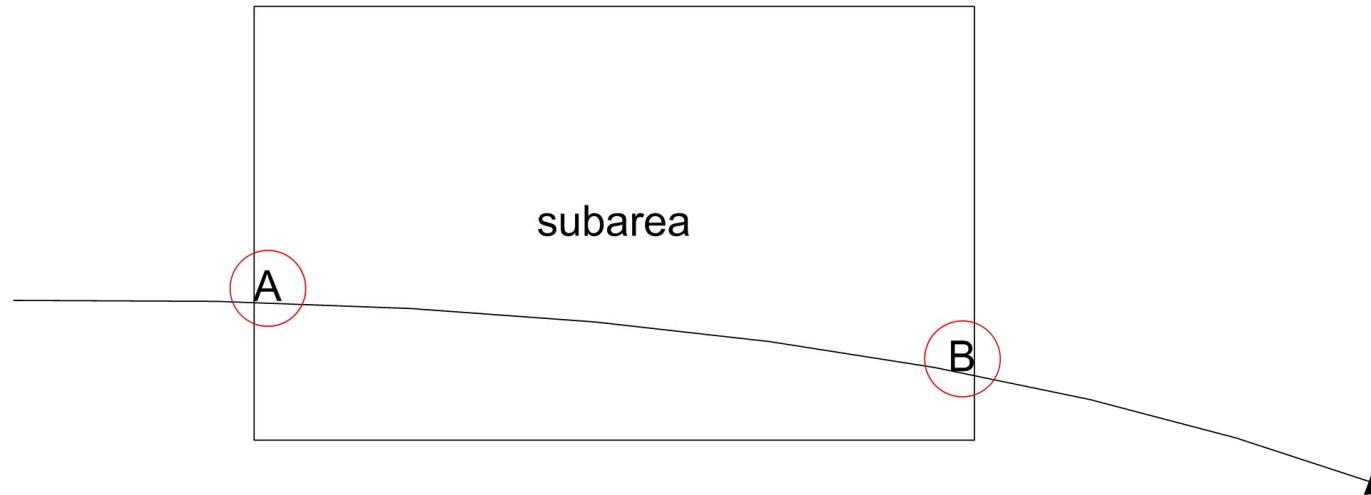
How to define vehicle selection categories?

- Complete and Partial Trips inside Subarea



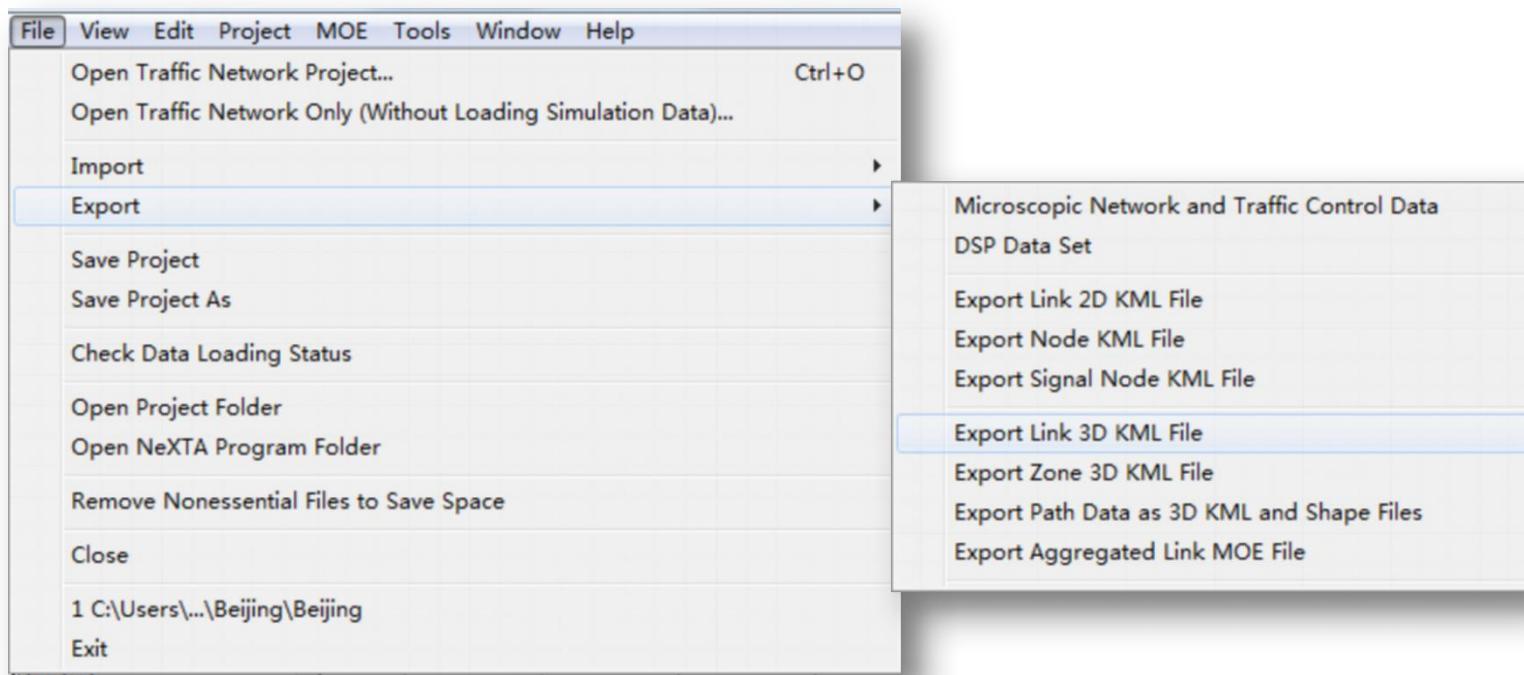
How to define vehicle selection categories?

- Subarea Boundary-to-Boundary Trips



How to exporting 3D links to Google Earth?

1

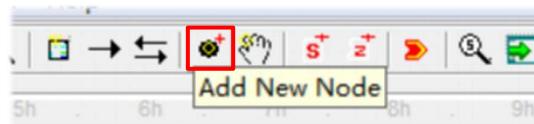


NeXTA

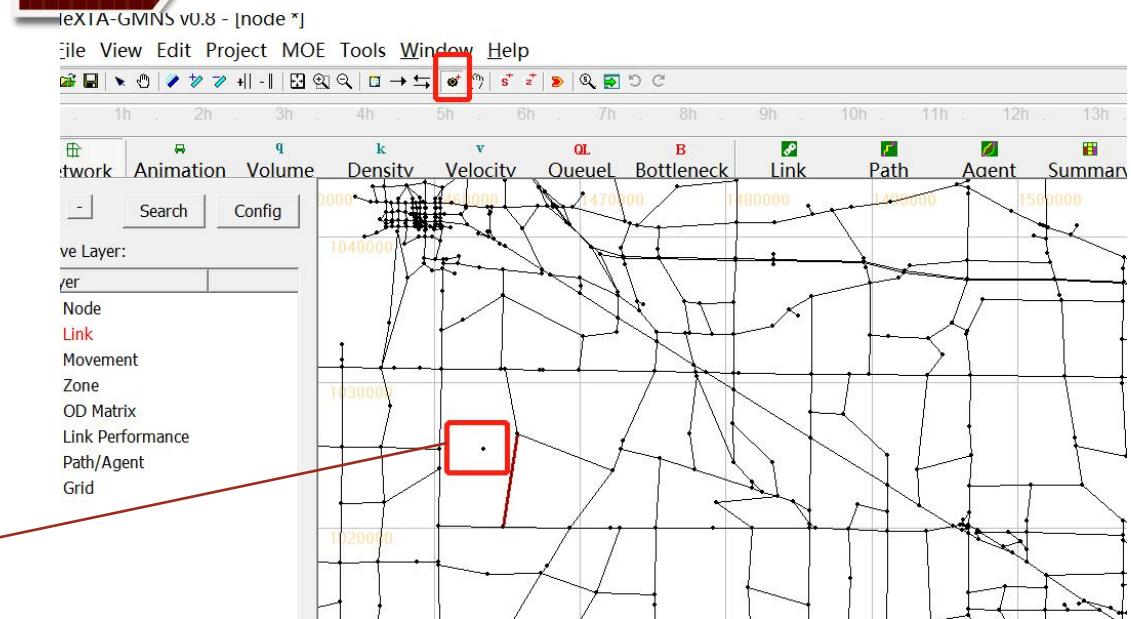
Changing Network Data

How to add a node?

1

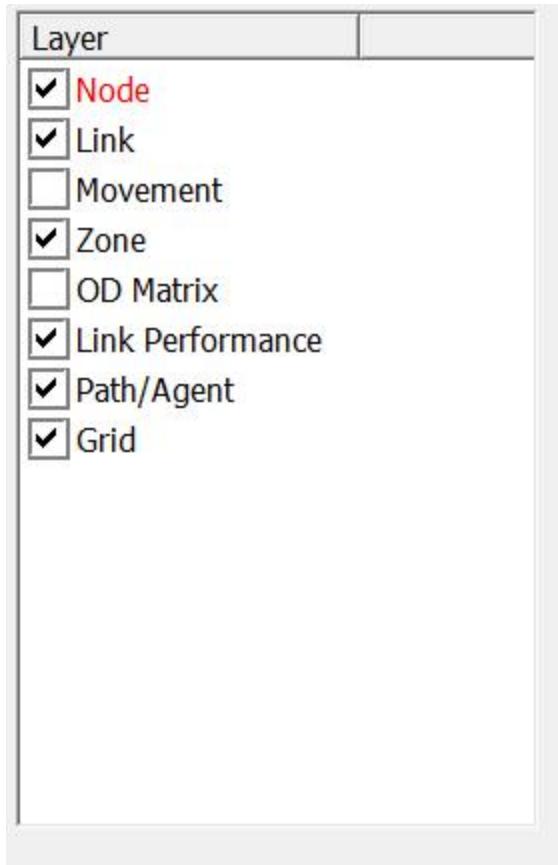


2

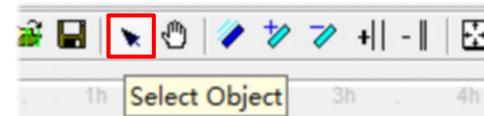


How to delete a node?

1

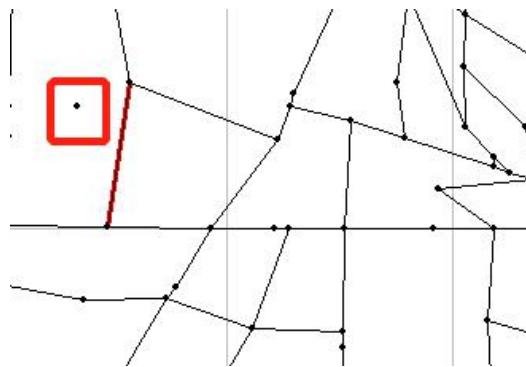


2

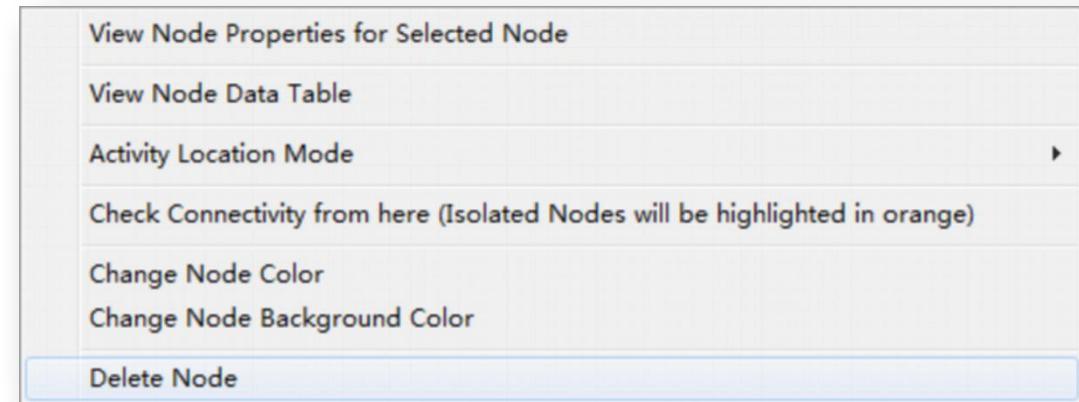


How to delete a node?

3



4

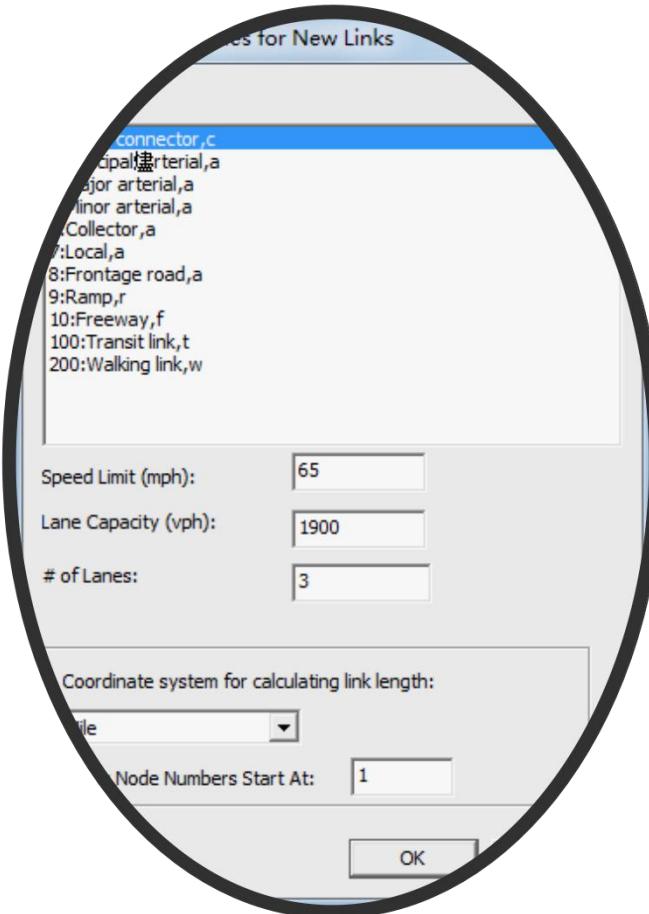


How to add a link based on a given link type?

1

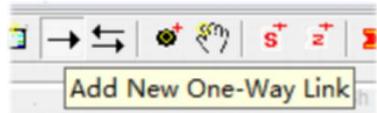


2

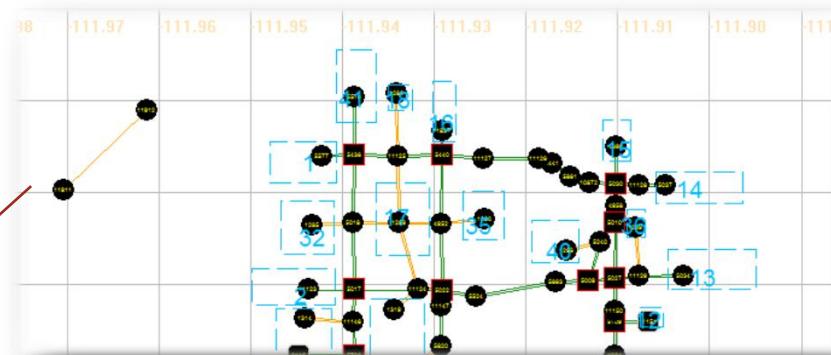


How to add a link based on a given link type?

3



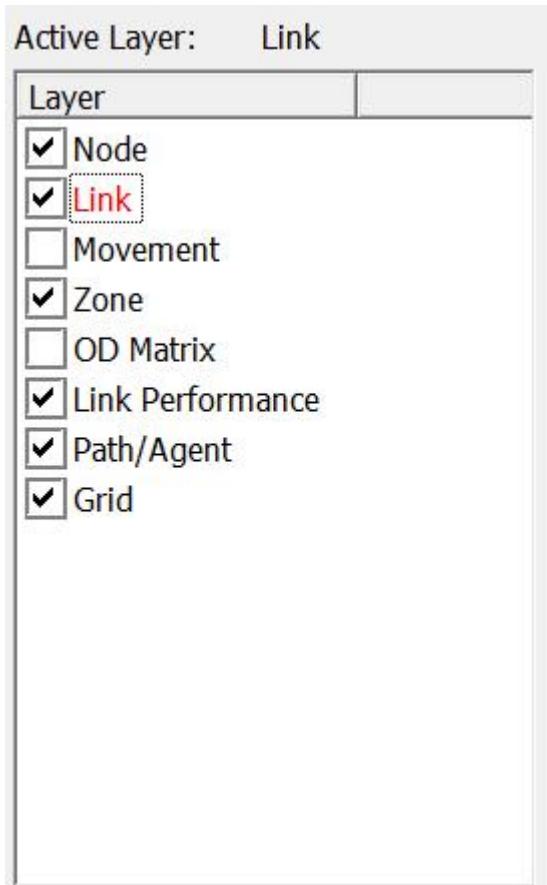
4



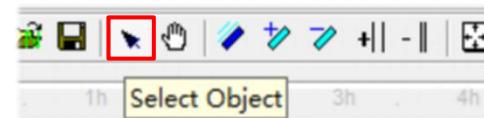
A new link

How to delete a link?

1

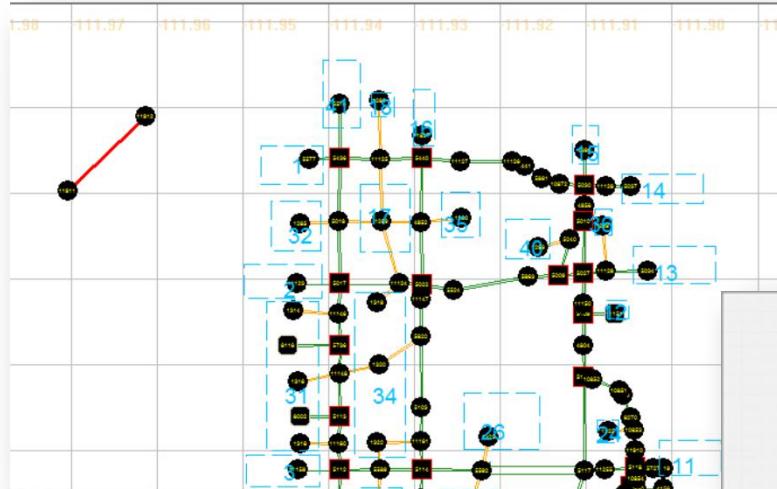


2

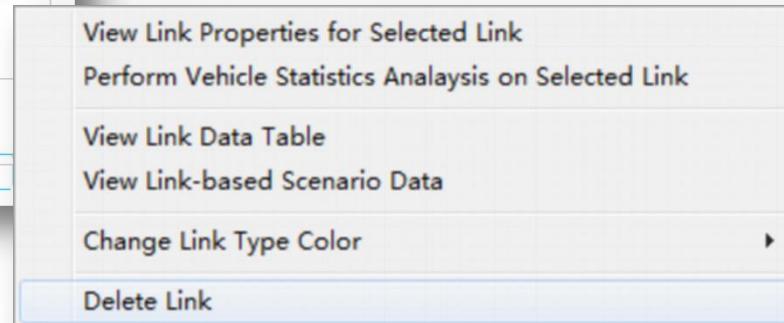


How to delete a link?

3



4



How to add node in CSV file?

1

- agent.csv
- export_path_speed.txt
- input_node_control_type.csv
- lane.csv
- link_geometry.csv
- link_performance.csv
- movement.csv
- NeXTA.log
- node.csv
- road_link.csv
- segment.csv

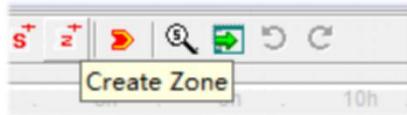
2

	A	B	C	D	E	F	G
1	name	node id	zone id	node type	ctrl type	x coord	y coord
2		0	0			1523372	1003234 PC
3		1	0			1523373	1003235 PC
4		2	0			1523873	1003225 PC
	-	-	-	-	-	-	-

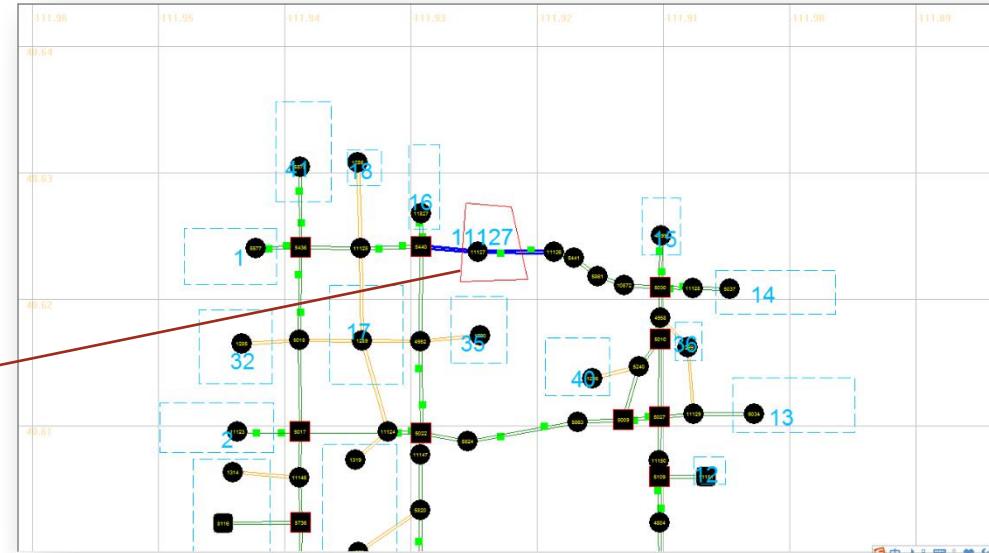
How to add a zone?

1

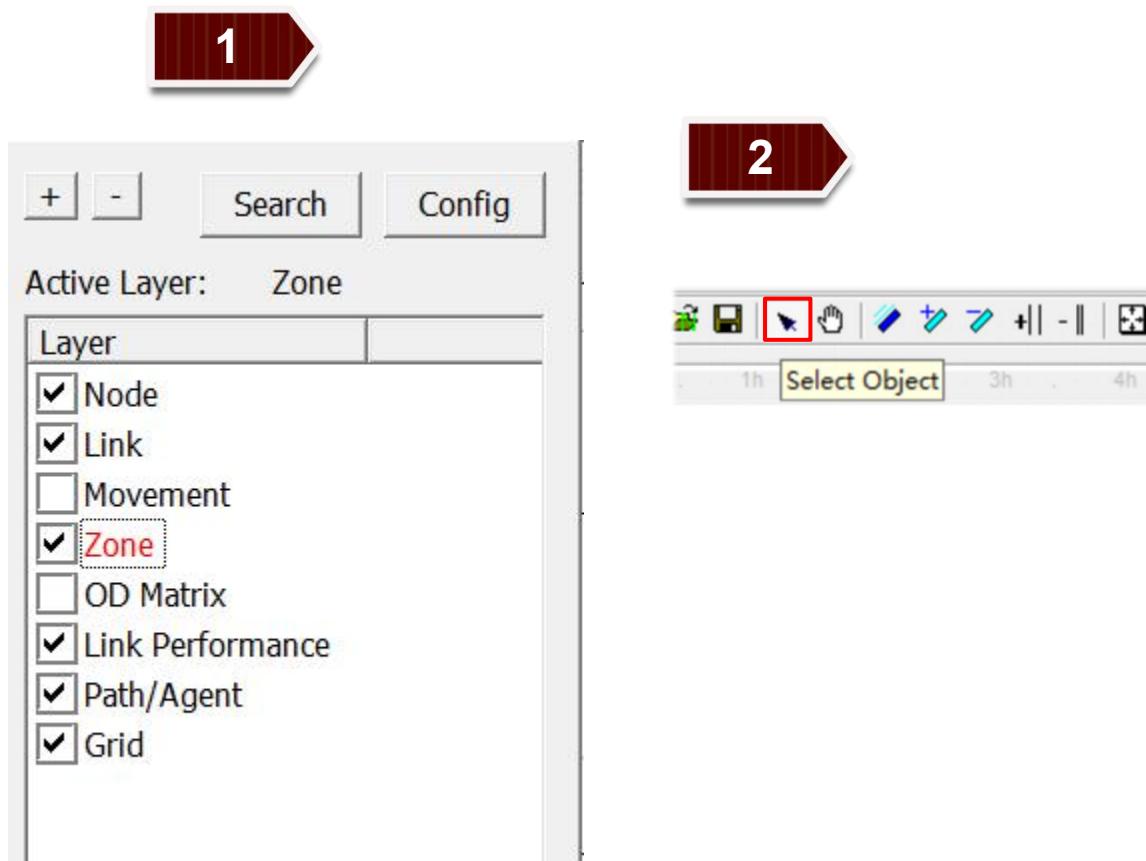
2



A new zone

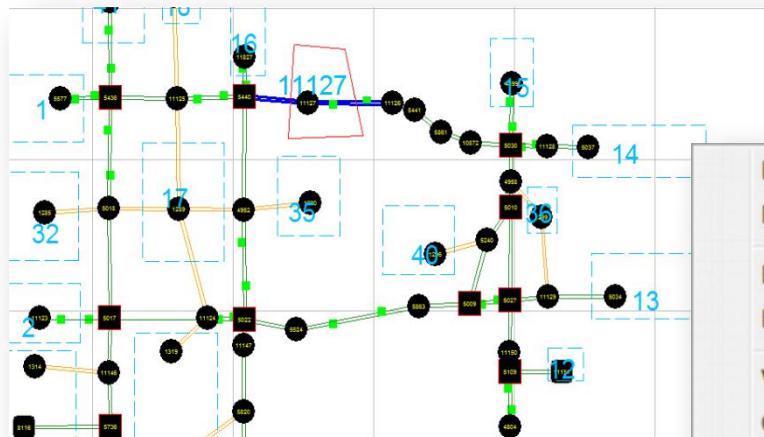


How to delete a zone?

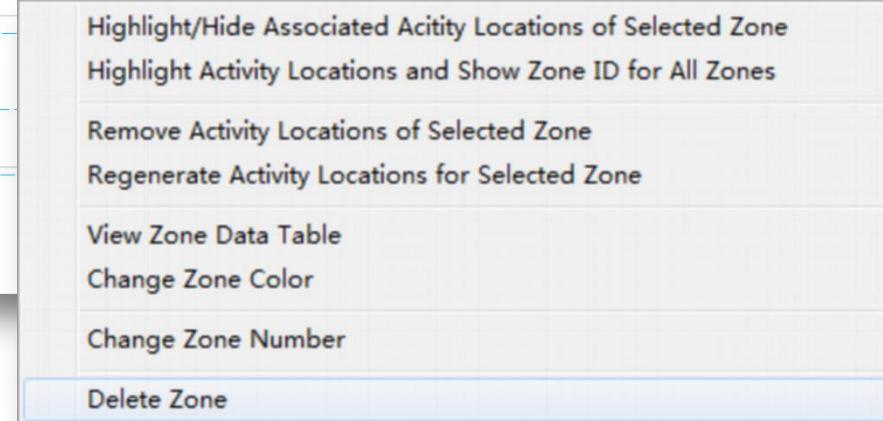


How to delete a zone?

3

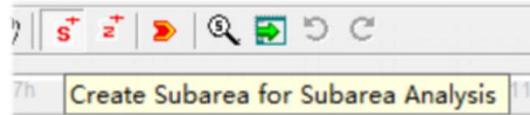


4



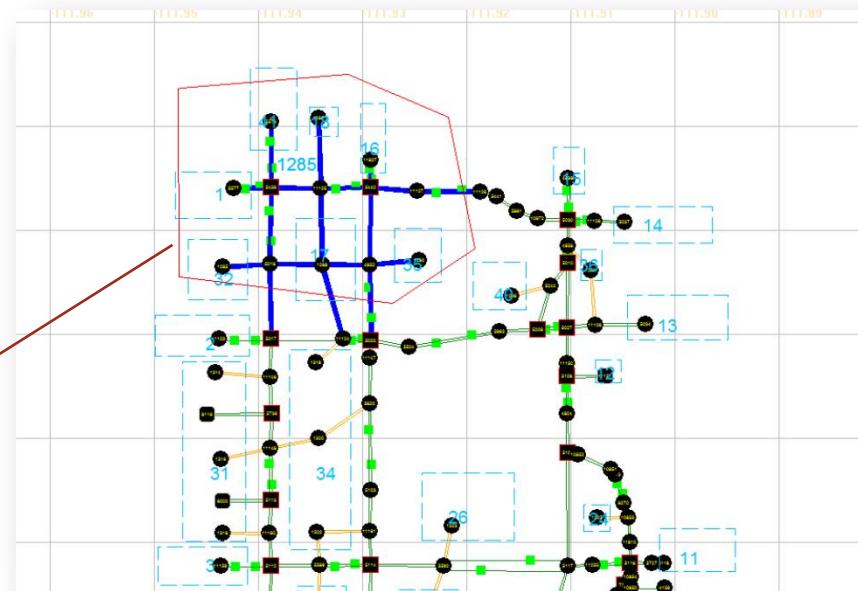
How to add subarea?

1



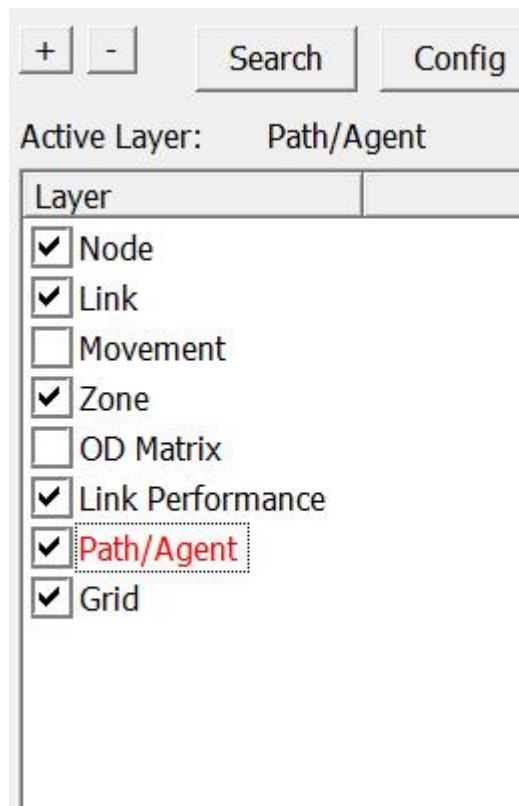
A New subarea

2

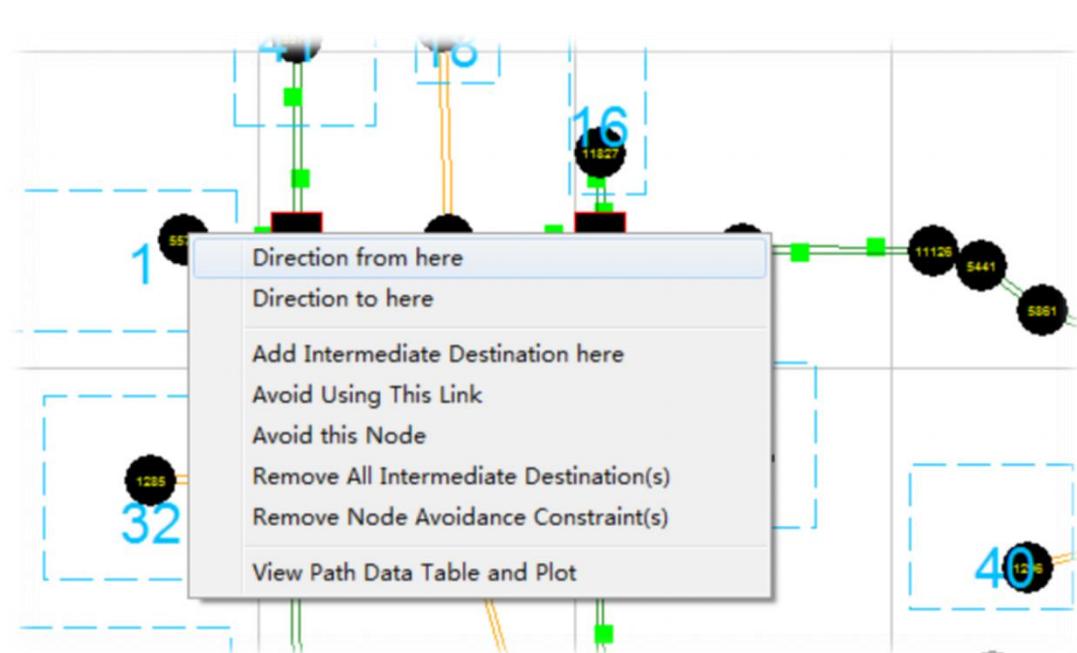


How to define a path?

1

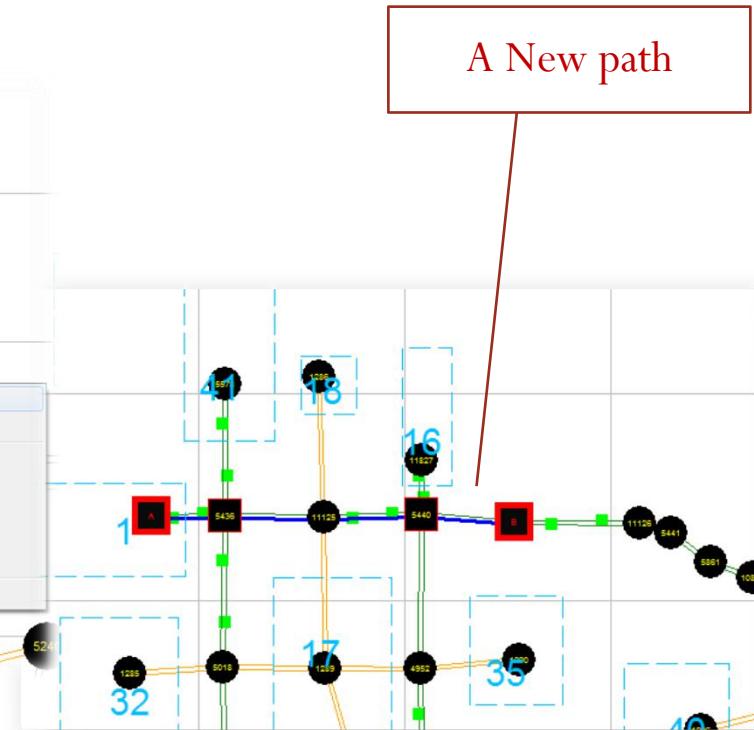
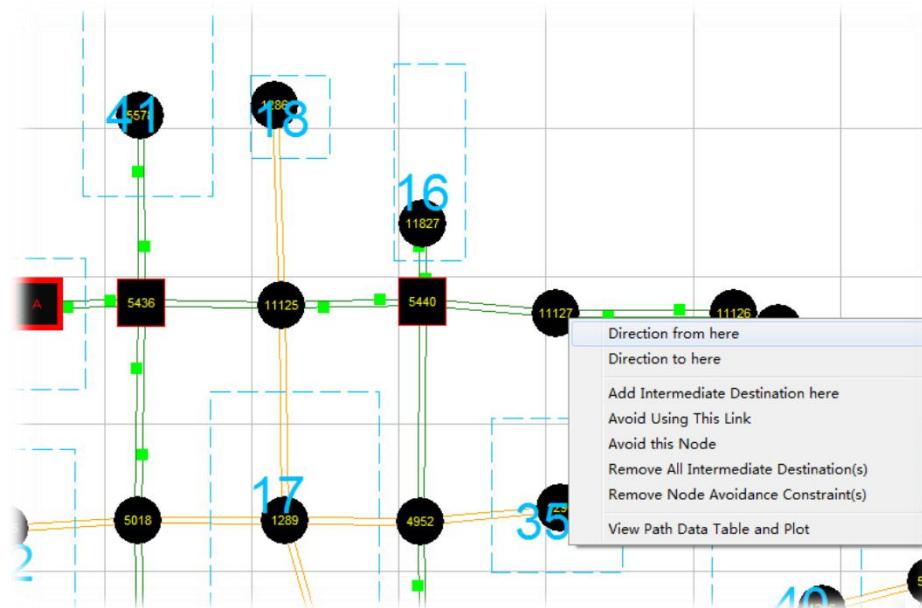


2



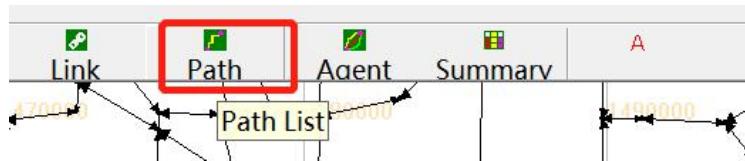
How to define a path?

3

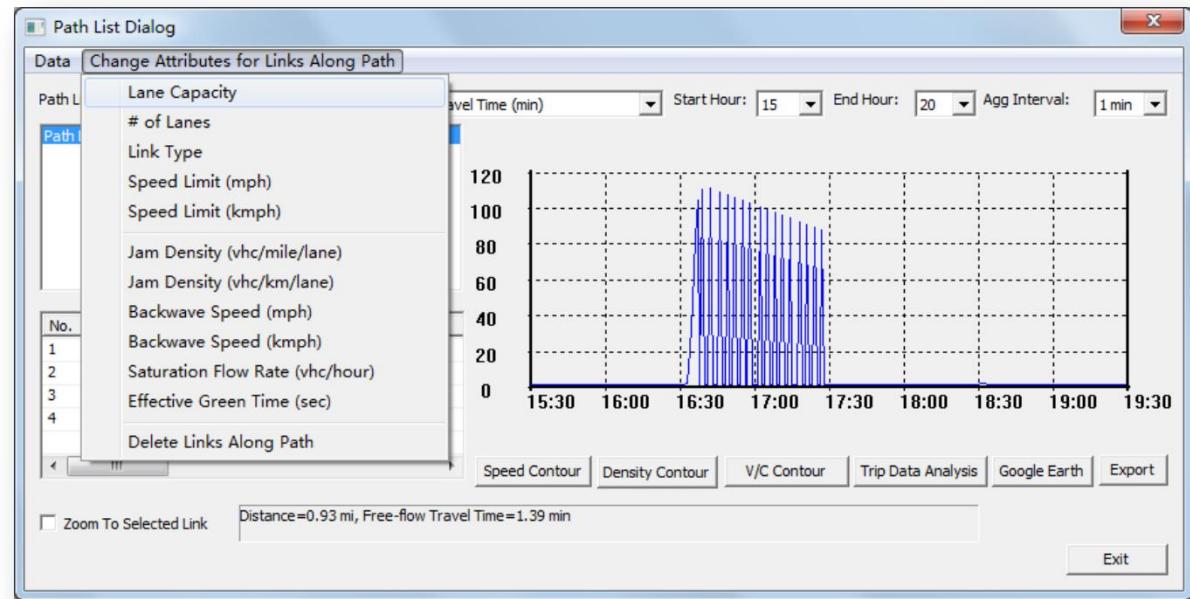


How to change link attribute for links along a path?

1

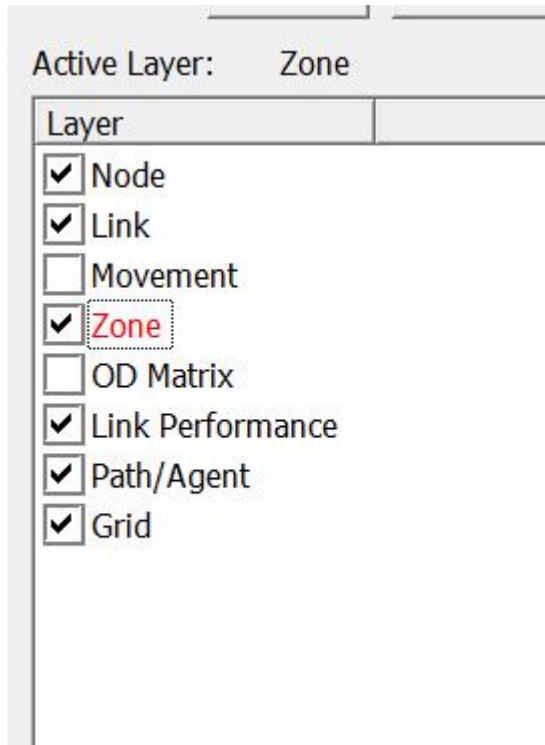


2

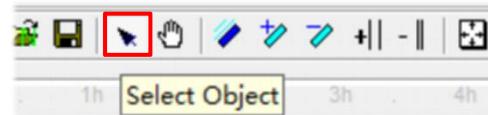


How to remove activity locations for a zone?

1



2



How to remove activity locations for a zone?

3

