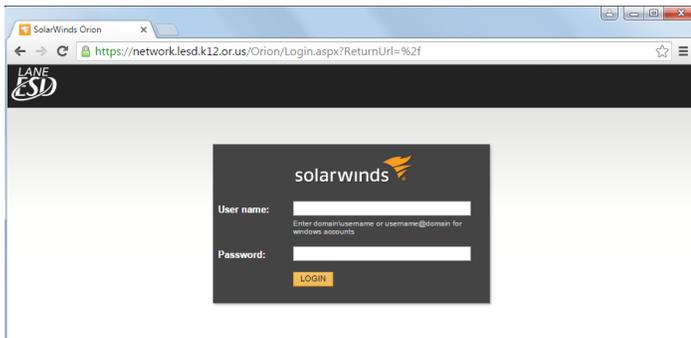


# Lane ESD Network Monitoring Tools

School districts receiving Lane ESD internet services now have access to a new suite of network monitoring tools, powered by SolarWinds. Contact Lane ESD NOC ([noc@lesd.k12.or.us](mailto:noc@lesd.k12.or.us)) to register for an account.

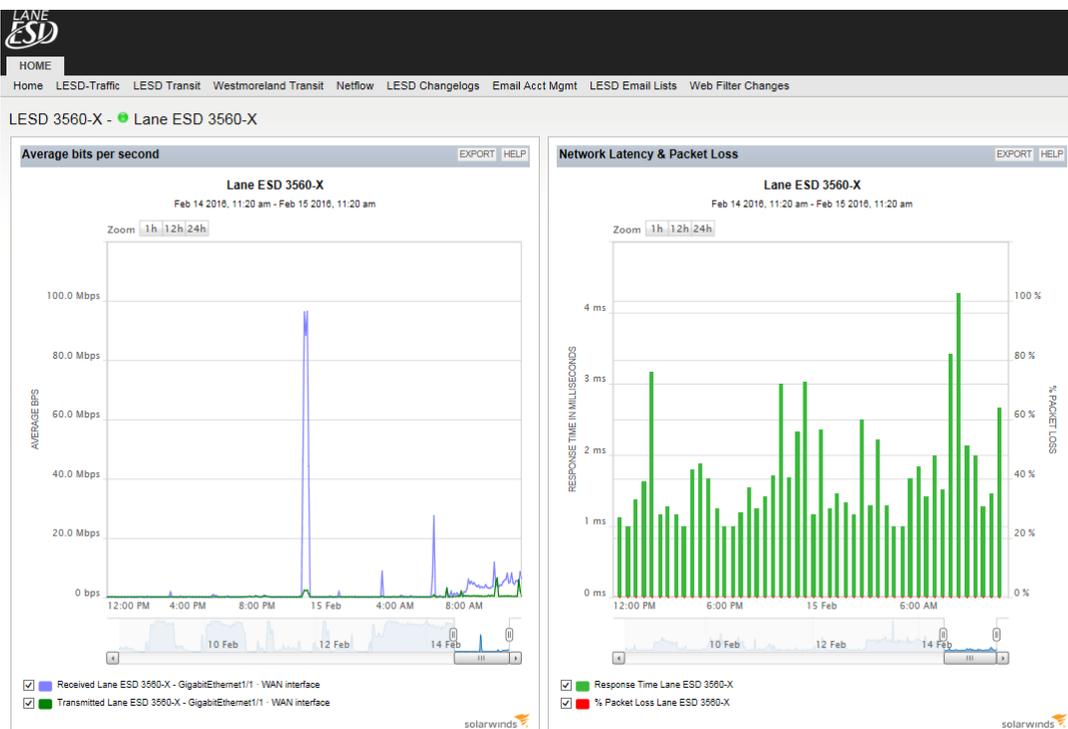
To access your account, please visit: <https://www.network.lesd.k12.or.us>

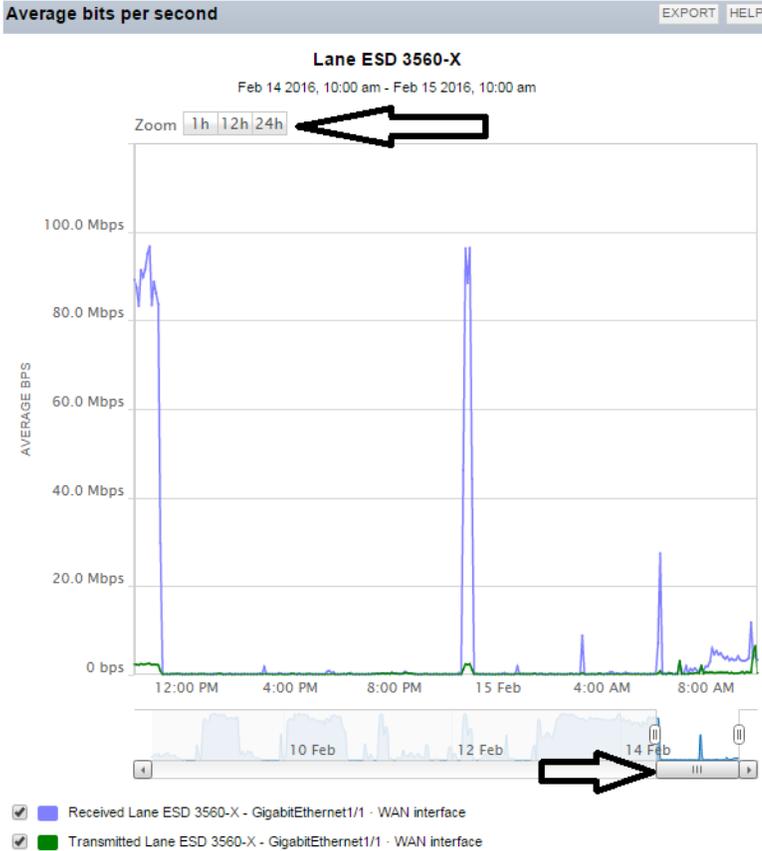


## TRAFFIC PAGE



After logging in, you are first directed to your district traffic page.





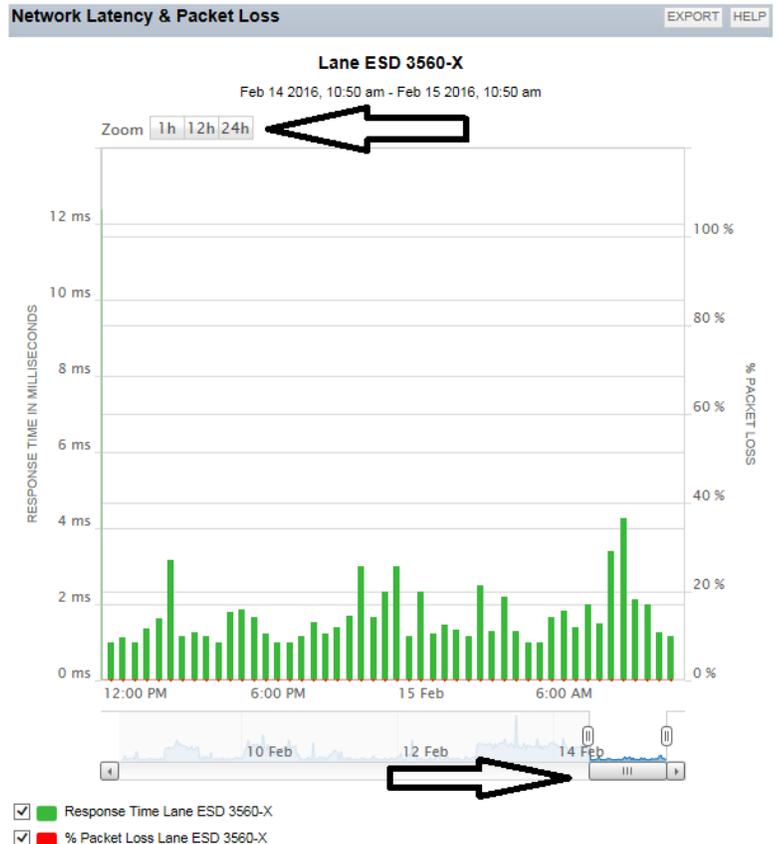
The graph on the left side of the district traffic page indicates the total average bits per second received and transmitted from the Lane ESD equipment servicing your district. There are three ways to adjust the data time frames in the graph:

1. You can click the zoom buttons for 1h, 12h, and 24h periods
2. You can click on the interactive graph, and hold down and drag, to create a custom time frame.
3. You can adjust the time frame slider at the bottom of the graph.

You can use the check boxes at the bottom of the graph to deselect received or transmitted traffic.

The graph on the right of the traffic page shows the latency and packet loss measured between Lane ESD's monitoring server at the Willamette Internet Exchange (WIX) and the Lane ESD's equipment in your district.

This graph shows the ping responses between the two devices. Latency is represented as green bars and is measured in milliseconds. Packet loss is represented as red lines indicating percentage lost.



# TRANSIT TRAFFIC PAGE

LANE ESD LESDTECH (LOGOUT)

HOME

Home LESD-Traffic LESD Transit Westmoreland Transit Netflow LESD Changelogs Email Acct Mgmt LESD Email Lists Web Filter Changes



The graphs on the transit traffic page show the rate and utilization of transit traffic used by your district.

The graph on the left side of the transit traffic page shows the transit average bits per second. The graph on the right of the transit traffic page is the transit utilization graph. This shows how much of the rate-limit is being used.

Your district's rate-limit is indicated at the bottom of the page, under the CBQoS Policy Details section.

Last 1 Hours Both

Traversing through Aggregation A SR - TenGigabitEthernet0/30.101 - LESD

### Transit Average Bits per Second

BOTH, LAST 1 HOURS, RATE (Kbps)

CLASSNAME	AVERAGE	INTERFACE UTILIZATION	LAST POLLED
lesd12mb			
lesd-ratelimit		0.00 %	0.00 %

### Transit Utilization

BOTH, LAST 1 HOURS, % OF CLASS UTILIZATION

CLASSNAME	AVERAGE	CLASS UTILIZATION	LAST POLLED
lesd12mb			
lesd-ratelimit		0.16 %	0.05 %

### CBQoS Policy Details

Traffic policies and their class-maps on this interface:

lesd12mb (applied to packets leaving this interface)

	Limit (% or Kbps)	Kbps Last Hour	Kbps Last 24 Hours
lesd-ratelimit	12.0 Mbps	14,227 kbps	192,888 kbps

# NETFLOW TRAFFIC ANALYZER


LESDTECH (LOGOUT)

HOME

[Home](#)
[LESD-Traffic](#)
[LESD Transit](#)
[Westmoreland Transit](#)
[Netflow](#)
[LESD Changelogs](#)
[Email Acct Mgmt](#)
[LESD Email Lists](#)
[Web Filter Changes](#)



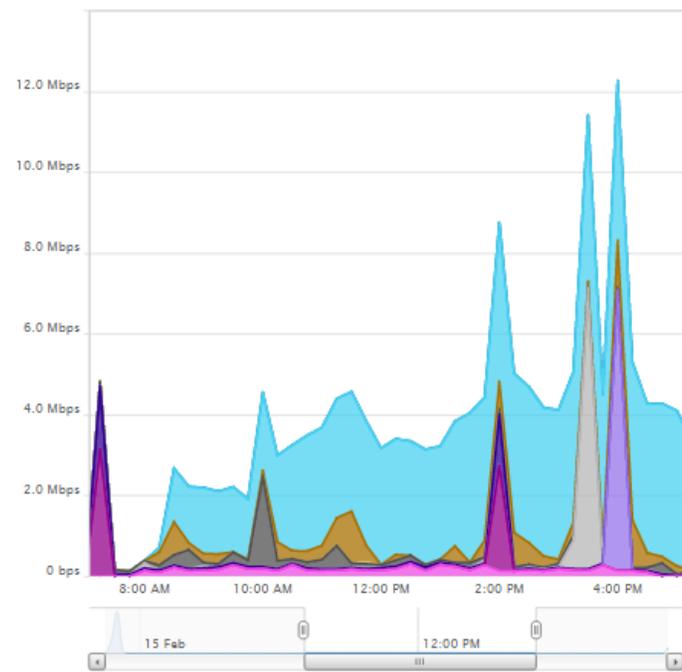
The first two graphs on the NetFlow page show the top ten receivers and transmitters of your district traffic. You have the option to designate the direction (Ingress, Egress, or Both) of the selected endpoint traffic.

LESD Netflow

Last 1 Days  Both

**Top 10 Receivers** HELP

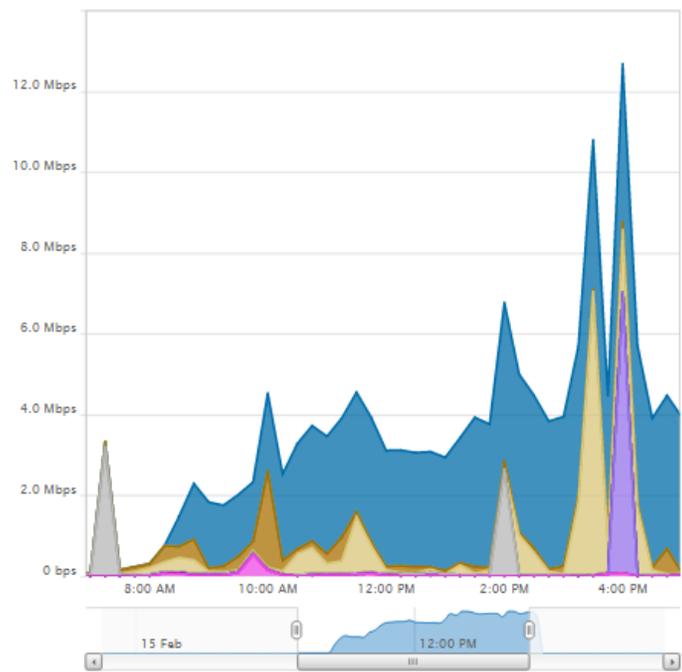
BOTH, LAST 1 DAYS, RATE (KBPS)



HOSTNAME	INGRESS BYTES	EGRESS BYTES	INGRESS PACKETS	EGRESS PACKETS	PERCENT
<input checked="" type="checkbox"/> backup.lesd.k12.or.us	0 bytes	14.6 Gbytes	0	10.3 M	32.96%
<input checked="" type="checkbox"/> mlp82tech-ame.lesd.k12.or.us	0 bytes	12.2 Gbytes	0	9.43 M	27.45%
<input checked="" type="checkbox"/> IM132TECH-CYEE	0 bytes	1.4 Gbytes	0	1.19 M	3.23%
<input checked="" type="checkbox"/> nearline.lesd.k12.or.us	0 bytes	1.4 Gbytes	0	1.07 M	3.05%
<input checked="" type="checkbox"/> archive.lesd.k12.or.us	0 bytes	1.1 Gbytes	0	1.13 M	2.5%
<input checked="" type="checkbox"/> 163.41.59.245	0 bytes	906.8 Mbytes	0	648.59 k	2.04%

**Top 10 Transmitters** HELP

BOTH, LAST 1 DAYS, RATE (KBPS)



HOSTNAME	INGRESS BYTES	EGRESS BYTES	INGRESS PACKETS	EGRESS PACKETS	PERCENT
<input checked="" type="checkbox"/> net-234-114.actionnet.net	0 bytes	12.0 Gbytes	0	9.25 M	26.95%
<input checked="" type="checkbox"/> directory.lesd.k12.or.us	0 bytes	8.1 Gbytes	0	5.69 M	18.21%
<input checked="" type="checkbox"/> mail.lesd.k12.or.us	0 bytes	5.0 Gbytes	0	3.93 M	11.35%
<input checked="" type="checkbox"/> cache.google.com	0 bytes	2.3 Gbytes	0	1.77 M	5.23%
<input checked="" type="checkbox"/> cms-fr.lesd.k12.or.us	0 bytes	1.1 Gbytes	0	801.71 k	2.56%
<input checked="" type="checkbox"/> wifi.lesd.k12.or.us	1.1 Gbytes	0 bytes	2.69 M	0	2.46%

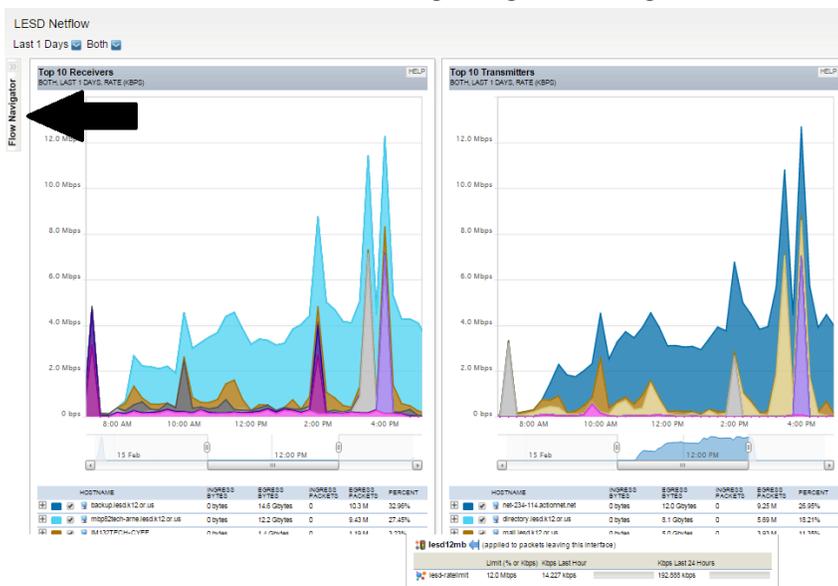
The chart on the bottom left of the NetFlow page shows the twenty most bandwidth-consuming conversations conducted over your network. Conversations are listed with the amount of data transferred in the conversation, in both bytes and packets.

The chart of the bottom right of the NetFlow page shows the top ten domains visited by your district. This resource provides a view of the domains responsible for the most traffic from all nodes in your district.

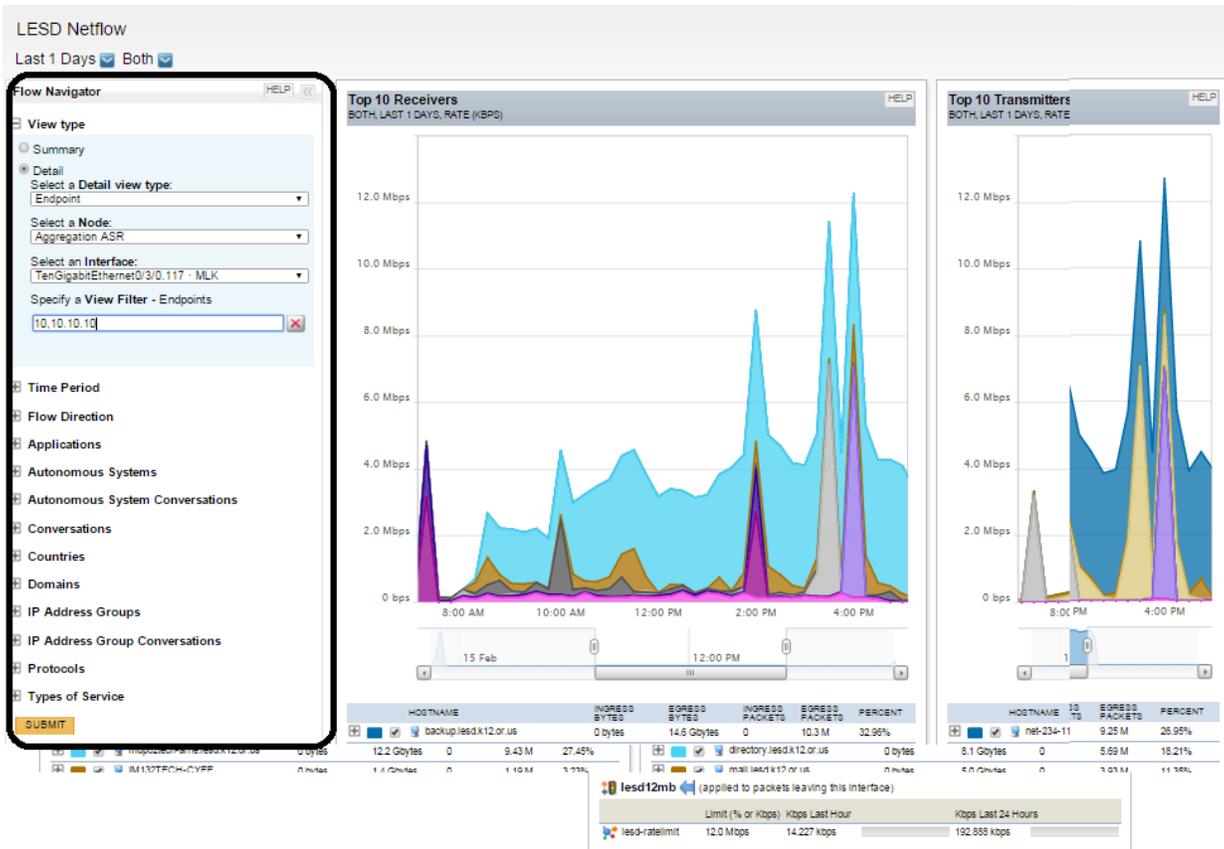
Top 20 Conversations					
BOTH, LAST 1 DAYS					
CONVERSATION	INGRESS BYTES	EGRESS BYTES	INGRESS PACKETS	EGRESS PACKETS	PERCENT
Between mtp82tech-ame.lesd.k12.or.us (163.41.60.111) and net-234-114.actionnet.net (206.192.234.114)	324.8 Mbytes	12.0 Gbytes	6.22 M	9.25 M	27.68%
Between directory.lesd.k12.or.us (163.41.62.111) and backup.lesd.k12.or.us (163.41.122.109)	145.2 Mbytes	8.1 Gbytes	2.81 M	5.69 M	18.54%
Between mall.lesd.k12.or.us (163.41.62.121) and backup.lesd.k12.or.us (163.41.122.109)	68.0 Mbytes	3.7 Gbytes	1.31 M	2.63 M	8.55%
Between archive.lesd.k12.or.us (163.41.62.129) and mail.lesd.k12.or.us (163.41.62.121)	76.7 Mbytes	1.1 Gbytes	870.75 k	1.13 M	2.67%
Between cms-fr.lesd.k12.or.us (163.41.62.78) and backup.lesd.k12.or.us (163.41.122.109)	20.8 Mbytes	1.1 Gbytes	399.9 k	799.97 k	2.61%
Between 163.41.60.27 and vhost5.lesd.k12.or.us (163.41.62.43)	779.3 Mbytes	15.8 Mbytes	555.97 k	369.12 k	1.79%
Between cms-biachly.lesd.k12.or.us (163.41.62.86) and backup.lesd.k12.or.us (163.41.122.109)	14.2 Mbytes	771.7 Mbytes	272.25 k	544.46 k	1.77%
Between cache.google.com (140.211.86.42) and 163.41.59.245	12.3 Mbytes	770.3 Mbytes	285 k	542.76 k	1.76%
Between wifi.lesd.k12.or.us (163.41.60.250) and 163.41.77.60	696.2 Mbytes	73.8 Mbytes	722.56 k	301.6 k	1.74%
Between nearline.lesd.k12.or.us (163.41.60.116) and inv.lesd.k12.or.us (163.41.62.34)	14.1 Mbytes	731.8 Mbytes	256.44 k	515.67 k	1.68%
Between streaming201.radionomy.net (31.12.64.201) and 163.41.59.100	8.5 Mbytes	492.0 Mbytes	211.67 k	396.2 k	1.13%
Between 163.41.59.124 and 198.237.72.18	154.6 Mbytes	293.2 Mbytes	390.43 k	473.9 k	1.01%
Between webmail.lesd.k12.or.us (163.41.62.122) and backup.lesd.k12.or.us (163.41.122.109)	7.3 Mbytes	396.5 Mbytes	140.39 k	280.73 k	0.91%
Between cache.google.com (140.211.86.12) and IM132TECH-CYEE (163.41.60.46)	1.1 Mbytes	400.2 Mbytes	23.65 k	283.01 k	0.9%
Between a23-41-176-54.deploy.static.akamaitechnologies.com (23.41.176.54) and 163.41.60.14	1.8 Mbytes	299.8 Mbytes	43.66 k	211.53 k	0.68%
Between nearline.lesd.k12.or.us (163.41.60.116) and cms-biachly.lesd.k12.or.us (163.41.62.86)	6.4 Mbytes	255.8 Mbytes	114.35 k	262.51 k	0.59%
Between 163.41.59.100 and 198.237.72.18	65.6 Mbytes	158.8 Mbytes	160.47 k	230.69 k	0.53%
Between cache.google.com (140.211.86.57) and IM132TECH-CYEE (163.41.60.46)	219.1 Mbytes	13.9 Mbytes	158.46 k	89.36 k	0.53%
Between 13.107.4.50 and 163.41.60.10	1.6 Mbytes	219.0 Mbytes	38.72 k	160.12 k	0.5%
Between 75-170-72-146.eugn.qwest.net (75.170.72.146) and wifi.lesd.k12.or.us (163.41.60.250)	149.4 Mbytes	47.4 Mbytes	592 k	145.46 k	0.44%
Remaining traffic	1.3 Gbytes	9.3 Gbytes	4.29 M	9.17 M	23.98%

Top 10 Domains					
BOTH, LAST 1 DAYS					
DOMAIN	INGRESS BYTES	EGRESS BYTES	INGRESS PACKETS	EGRESS PACKETS	PERCENT
k12.or.us	2.8 Gbytes	30.8 Gbytes	16.46 M	25.62 M	60.7%
actionnet.net	324.8 Mbytes	12.0 Gbytes	6.22 M	9.25 M	22.15%
google.com	255.6 Mbytes	2.3 Gbytes	738.78 k	1.77 M	4.64%
akamaitechnologies.com	31.5 Mbytes	2.3 Gbytes	340.5 k	1.71 M	4.16%
foodn.net	3.5 Mbytes	705.5 Mbytes	62.72 k	542.23 k	1.28%
pandora.com	956.6 kbytes	667.8 Mbytes	10.65 k	493.45 k	1.21%
radionomy.net	8.5 Mbytes	492.6 Mbytes	211.67 k	386.71 k	0.9%
amazonaws.com	405.2 Mbytes	79.7 Mbytes	305.6 k	196.04 k	0.87%
aaplimg.com	3.8 Mbytes	448.4 Mbytes	93.67 k	346.94 k	0.82%
ie100.net	20.1 Mbytes	310.5 Mbytes	70.25 k	276.05 k	0.6%
Remaining traffic	307.2 Mbytes	1.2 Gbytes	1.06 M	1.34 M	2.67%

To see more detailed information regarding traffic usage, click the Flow Navigator tool on the left side of the page.



# FLOW NAVIGATOR



The Flow Navigator allows you to create your own custom NetFlow views where you can apply filters on all monitored objects (summary filtered views) or you can specify objects that you want to filter further (detail filtered views).

You can customize a filter that will enable you to display network traffic connected with a specified endpoint of origin or destination.