

# Getting started with the DDoS Mitigation and Reporting portal

March 2024

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## DDoS Essentials

Lumen® DDoS Essentials is an affordable and easy-to-implement solution that provides pre-emptive, multi-layered, automated protection against common volumetric DDoS attacks. DDoS Essentials is powered by near real-time Lumen threat intelligence from Black Lotus Labs, providing automated protection against common DDoS attacks with a standardized offering and a predefined mitigation template. It is available as an add-on to Lumen® Internet On-Demand. It is important to note that DDoS Essentials is a different product from Lumen® DDoS Hyper® and Lumen® DDoS Mitigation Service. DDoS Essentials is an add-on service exclusive to Lumen Internet On-Demand customers, while DDoS Hyper and DDoS Mitigation are standalone products. Check out the [comparison chart](#) to learn more about how these three DDoS defense products differ.

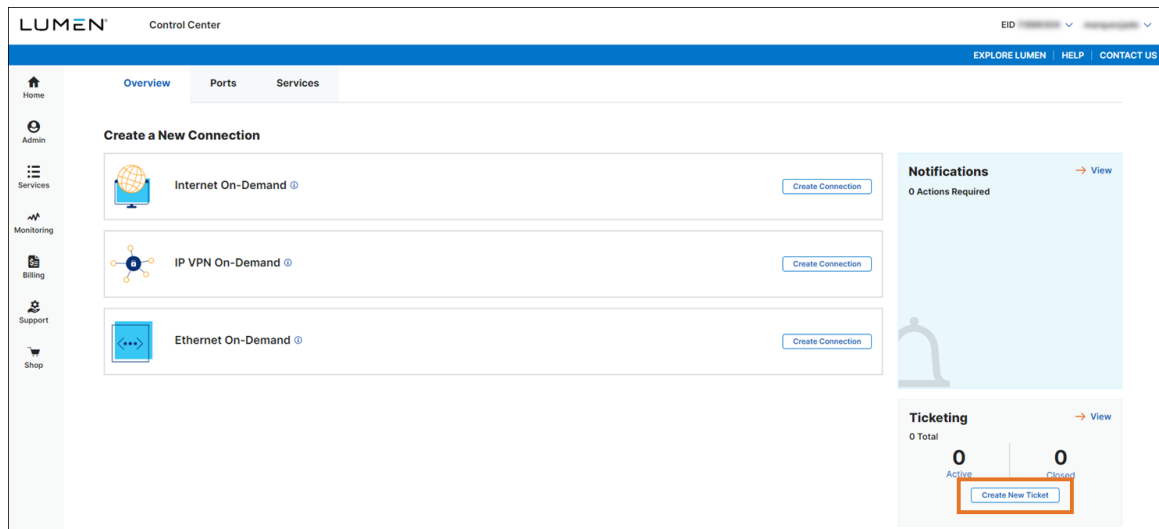
## Accessing the DDoS Mitigation and Reporting portal for DDoS Essentials customers

Your Lumen DDoS Essentials service comes with a portal containing dashboards and reports displaying real-time and historical information on alert history, mitigation history and flow data. Use this guide to acquaint yourself with the information available and how to navigate through the various pages. **For information on navigating the reporting portal for DDoS Hyper and DDoS Mitigation, skip to page 5.**

You can view or update who has access to your DDoS Essentials reporting portal from within the Lumen NaaS Manager that is built into the Lumen Control Center portal. Follow these steps to view or modify who has access to the DDoS Mitigation and Reporting portal:

1. The user who placed the order for Lumen Internet On-Demand will automatically be the user who has access to the DDoS Essentials reporting tool.
2. To update the contact information and transfer access, you must submit a service request ticket within the portal. Please note that only one user can have access to the reporting tool at a time. If you transfer access to another user, you will no longer have access to the reporting tool. There are two options for updating the contact information.

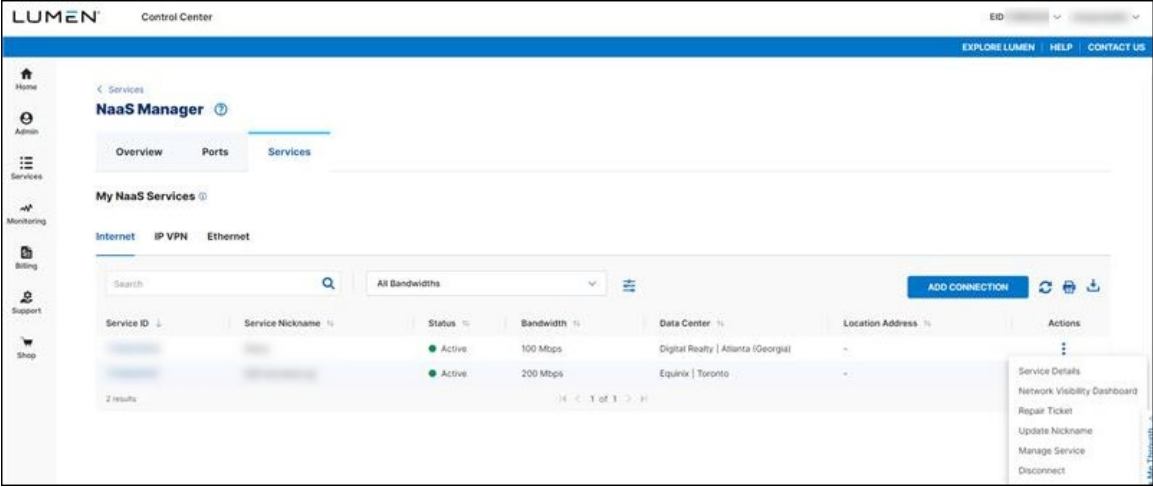
- Option 1: Start Control Center and access the NaaS manager where DDoS Essentials is located. Click on the overview and scroll down to the right-hand portion of your screen. Click **Create New Ticket**.



From there, scroll down to update the new contact information by entering the new person's contact information and submit ticket.

The screenshot shows the 'Contacts' form. It includes a dropdown for 'Preferred Contact Method' (set to 'Email and Portal'), input fields for 'Primary Contact Name' and 'Secondary Contact Name', 'Phone' (with country code dropdowns), and 'Email' fields. At the bottom, there are two buttons: 'TICKET NOT NEEDED' and 'SUBMIT TICKET'.

- Option 2: Start in the control center and find the NaaS manager where DDoS Essentials is located. Click on the services tab and find your Internet On-Demand service. Once you have found it, choose actions, and click on repair ticket.



To update the contact information, scroll down and update the current contact information.

The 'Contacts' form contains the following fields and options:

- Preferred Contact Method: A dropdown menu currently set to 'Email and Portal'.
- Primary Contact Name: A text input field.
- Secondary Contact Name: A text input field.
- Phone: Two input fields, each with a country code dropdown (currently '+1').
- Email: Two input fields.

At the bottom right of the form, there are two buttons: 'TICKET NOT NEEDED' and 'SUBMIT TICKET'.

If you are already authorized to view the DDoS Mitigation and Reporting portal, then you can use the following steps to access the DDoS reporting portal.

In the **Services** tab in the NaaS Manager under “Overview”, scroll down to find the DDoS Reporting tool link on the right-hand side of the screen. If you are an authorized user, you will be automatically logged into the DDoS Reporting portal.

The screenshot displays the Lumen Control Center interface for NaaS Manager. The main content area is titled "Add New Connection" and lists three service types: Internet On-Demand, IP VPN On-Demand, and Ethernet On-Demand, each with an "Add Connection" button. On the right-hand side, there are several informational panels: "Notifications" (Platform Account Activated on 04 May 2023), "Order Status" (0 Installs, 0 Changes, 0 Disconnects), "Ticketing" (0 Total, 0 Active, 0 Closed), and "DDoS Essentials" (highlighted with a red box, containing a link to "View reporting portal"). Below these is a "Learn" section with links to various knowledge base articles and terms & conditions.

Once you have successfully logged into the DDoS reporting portal, please skip to the section titled “DDoS Mitigation and Reporting portal dashboard” on page 9 for further guidance.

## Accessing the DDoS Mitigation and Reporting portal for DDoS Hyper or DDoS Mitigation Service customers

Your DDoS Hyper and DDoS Mitigation services from Lumen come with a portal containing an extensive volume of dashboards and reports. Use this guide to acquaint yourself with the information available and how to navigate through the various pages.

First, sign in to Lumen Control Center and navigate to the DDoS Mitigation and Reporting portal: click **Monitoring**, then click **Security Solutions Analytics**.

<https://www.lumen.com/login/>

The screenshot shows the Lumen Control Center interface. The left sidebar has a 'Monitoring' menu with 'Security Solutions Analytics' highlighted. The main content area displays several widgets: 'Billing' with an outstanding invoice of \$27,885.00, 'Ticketing' showing 18 active and 0 potential tickets, 'Open Orders' with 499 installs, 6 changes, and 36 disconnects, and a 'Scheduled Maintenance' calendar for January 2023. Other widgets include 'Frequently Visited' links and 'Lumen News'.

From the Security Solutions Analytics page select **DDoS Mitigation and Reporting** (in the **Reports** section).

The screenshot shows the 'Reports' section of the Lumen Control Center. It lists several reporting options for different regions: North America, Europe, and Asia, all powered by Lumen. The 'Lumen Security Solutions Reporting (powered by Lumen)' section lists various services like Managed Premises Firewall, Adaptive Threat Intelligence, etc. The 'DDoS Mitigation and Reporting' link is highlighted with a red box, and a note below it says 'Please use this link for DDoS mitigation reporting.'

If your account has been set up for single sign-on, you will be automatically redirected and signed in to the DDoS Mitigation and Reporting portal. If this doesn't work, then please verify that your username in Control Center matches your email address using all lowercase characters and open a SOC ticket in Control Center to request verification of your username in the DDoS Mitigation and Reporting portal. Your usernames in both Control Center and the DDoS Mitigation and Reporting portal must match for single sign-on to work properly.

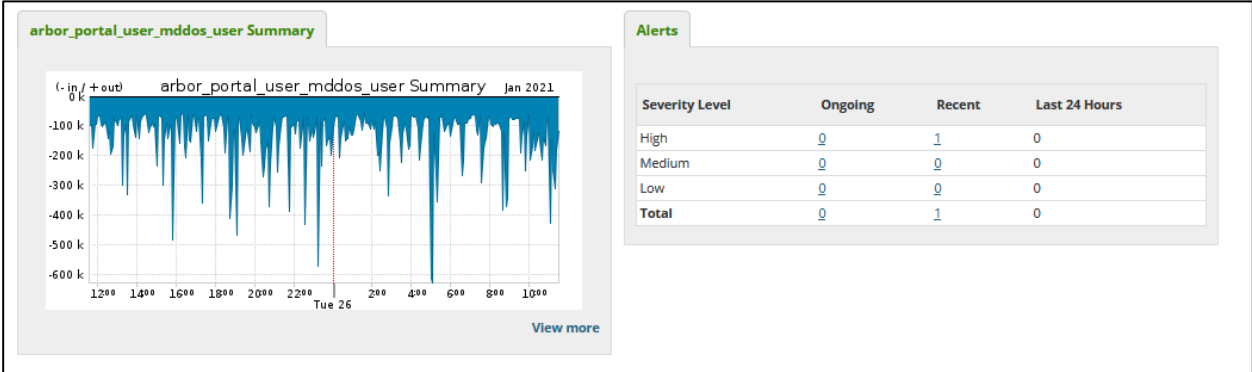
If your company requires a separate authentication method, you will need to sign in to the DDoS Mitigation and Reporting portal separately as described on page 19 at the end of this document, using your unique username, RSA PIN, and RSA token-generated code.

Once signed in, you have access to all the DDoS Mitigation and Reporting portal information that is applicable to your business.



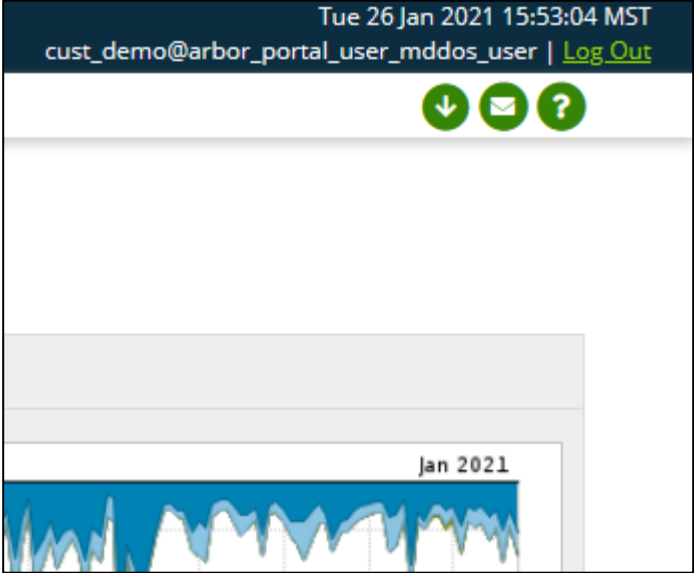
# DDoS Mitigation and Reporting portal dashboard

The first page presented to the Portal User is the DDoS Mitigation and Reporting dashboard. A snapshot is below.



Navigating by means of the top menu bar, portal customers can examine characteristics of their network traffic at any time, independent of DDoS events and alerts. Alerts can be examined through the menu bar, or from the Alerts panel in the Status page.

Traffic into (top) and out of (bottom) of the customer network appears on the left of the Status screen. On the right, a summary of current and recent DDoS alerts is presented in the upper right, note three control icons, illustrated below.



The down-arrow icon is used to download this page to a PDF document. The mail icon is used to mail an image of the page. The question mark icon brings up an extensive on-line manual for the entire portal. This on-line manual is very detailed. Please note that not all features described in the manual are available to you as a user. A snapshot is below.

**NETSCOUT** | Arbor Sightline and Threat Mitigation System Search All

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For information about capabilities, see [Configuring Capability Groups](#).

> **Default content of your *My Sightline* dashboard**  
By default, your *My Sightline* dashboard contains the following gadgets:

**My Sightline dashboard default gadgets**

Gadget	Description
<i>Introduction</i>	A welcome gadget that describes how to use and customize the <i>My Sightline</i> dashboard.
<i>Top DoS Alerts</i>	A summary of the top five ongoing DoS alerts on the network. Only high or medium alerts are displayed.
<i>Network Summary</i>	A summary of your network's traffic over the last 24 hours.
<i>Top Customers</i>	A summary of the top five customers consuming bandwidth on your network.
<i>Top Applications</i>	A summary of the top five applications detected in your network's traffic.
<i>Top Countries</i>	A summary of the top five countries consuming bandwidth on your network.

**Note**  
IP Location data is only available when you deploy appliances that have the traffic and routing analysis role or Flow Sensor appliances with appliance-based licensing.

> **Adding content to your *My Sightline* dashboard**  
To add content to your *My Sightline* dashboard:

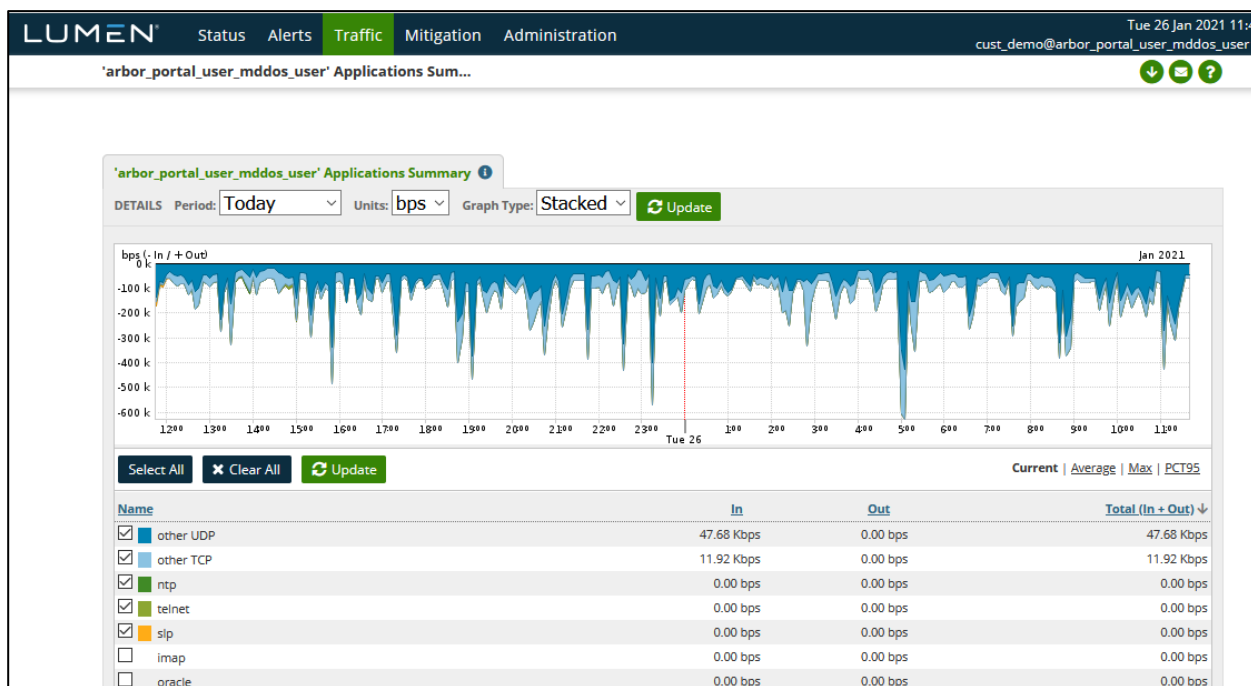
1. Navigate to the *My Sightline* page (**System > My Sightline**).
2. Click **Add Content**.
3. Hover your mouse pointer over the gadget that you want to add, and then click **Add to Report**.
4. Repeat Step 3 for each gadget that you want to add, and then click **Hide**.

## Navigating through the DDoS Mitigation and Reporting portal

There are a couple of ways to navigate through this portal. Clicking through on clickable gadgets will typically bring the user to specific information on the gadget selected. Using the navigation bar is a quick way to get to specific spot in the portal.

### Traffic > Summary > Application

The DDoS Mitigation and Reporting portal shows a summary of the traffic, for all monitored networks of the customer, broken down by application.



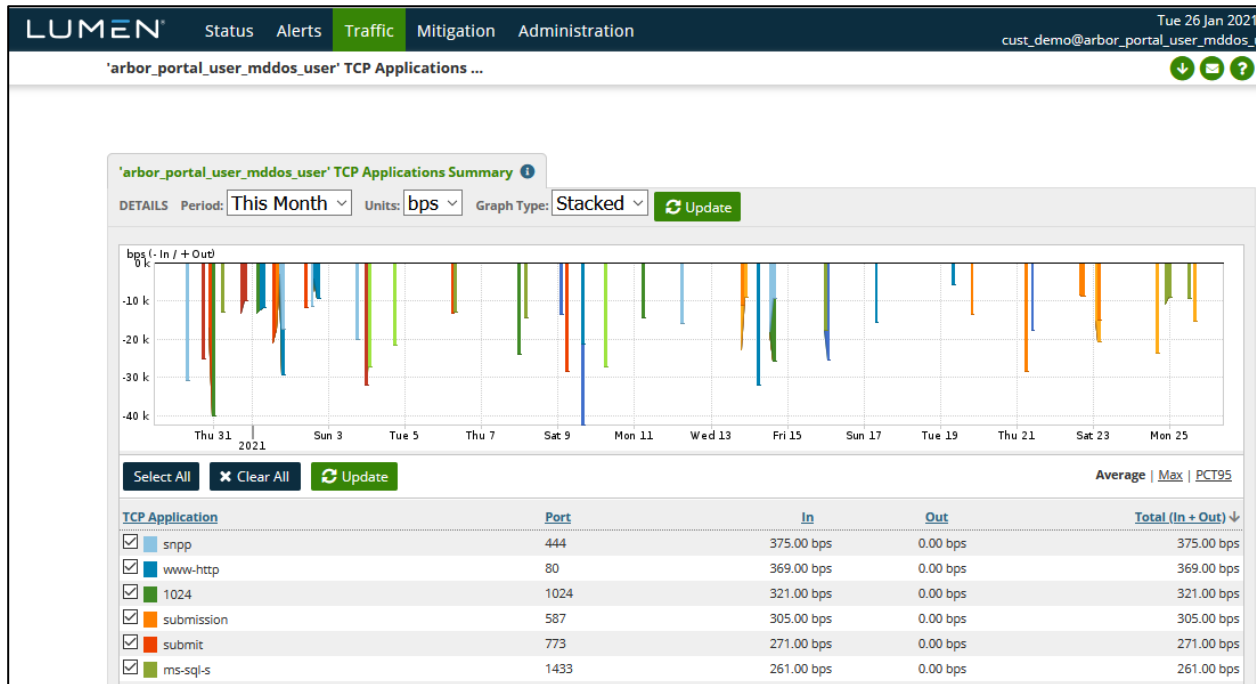
The default period is the previous 24 hours. The period can be changed to various predefined selections or to “other” for a user-defined timeframe. The default display is bits per second (bps) but can be changed to packets per second (pps). Available graph types are stacked (default), pie, and bar.

The negative values show traffic out of the customer network (“in” to Lumen), and the positive is the traffic into the customer network (“out” of Lumen)

Any selected applications are shown in the graph with a unique color. Any unchecked applications are not represented in the graph. The table can be sorted by clicking on a column header. Click the column header again to reverse the order.

## Traffic > Summary > TCP

Very similar to the Applications report, this screen constrains the report to TCP traffic broken down by TCP Port.



The default period is the previous 24 hours. The period can be changed to various predefined selections or to “other” for a user-defined timeframe. The default display is bits per second (bps) but can be changed to packets per second (pps). Available graph types are stacked (default), pie, and bar.

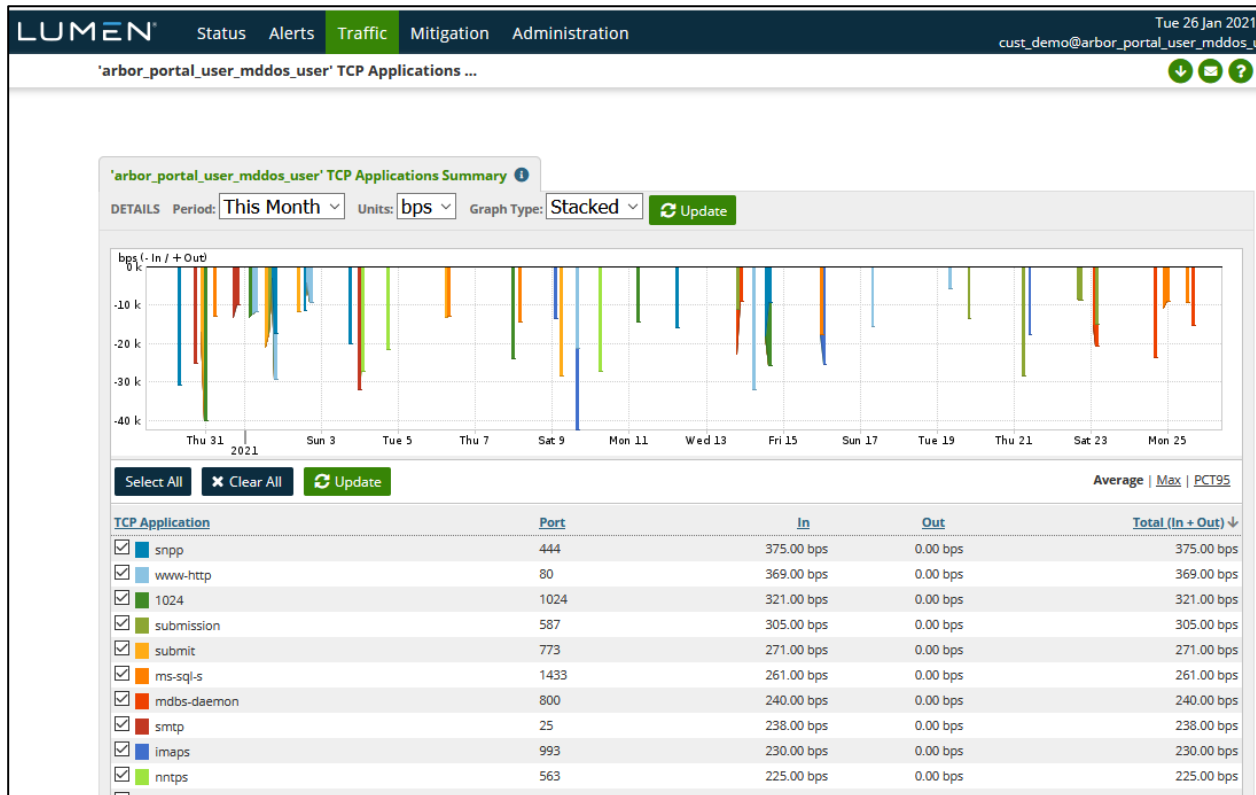
The negative values show traffic out of the customer network (“in” to Lumen), and the positive is the traffic into the customer network (“out” of Lumen).

Any selected ports are shown in the graph with a unique color. Any unchecked ports are not represented in the graph. The table can be sorted by clicking on a column header. Click the column header again to reverse the order.

There is a similar report for UDP ports that looks, and behaves identically, constraining the report to UDP traffic aggregated by UDP port.

## Traffic > Summary > TCP

This screen breaks down the customer's traffic by IP-level protocol.



Those shown here, TCP, ESP (for VPN traffic), UDP, and ICMP are the most likely to be seen. This screen is very similar in appearance, and function to those discussed previously.

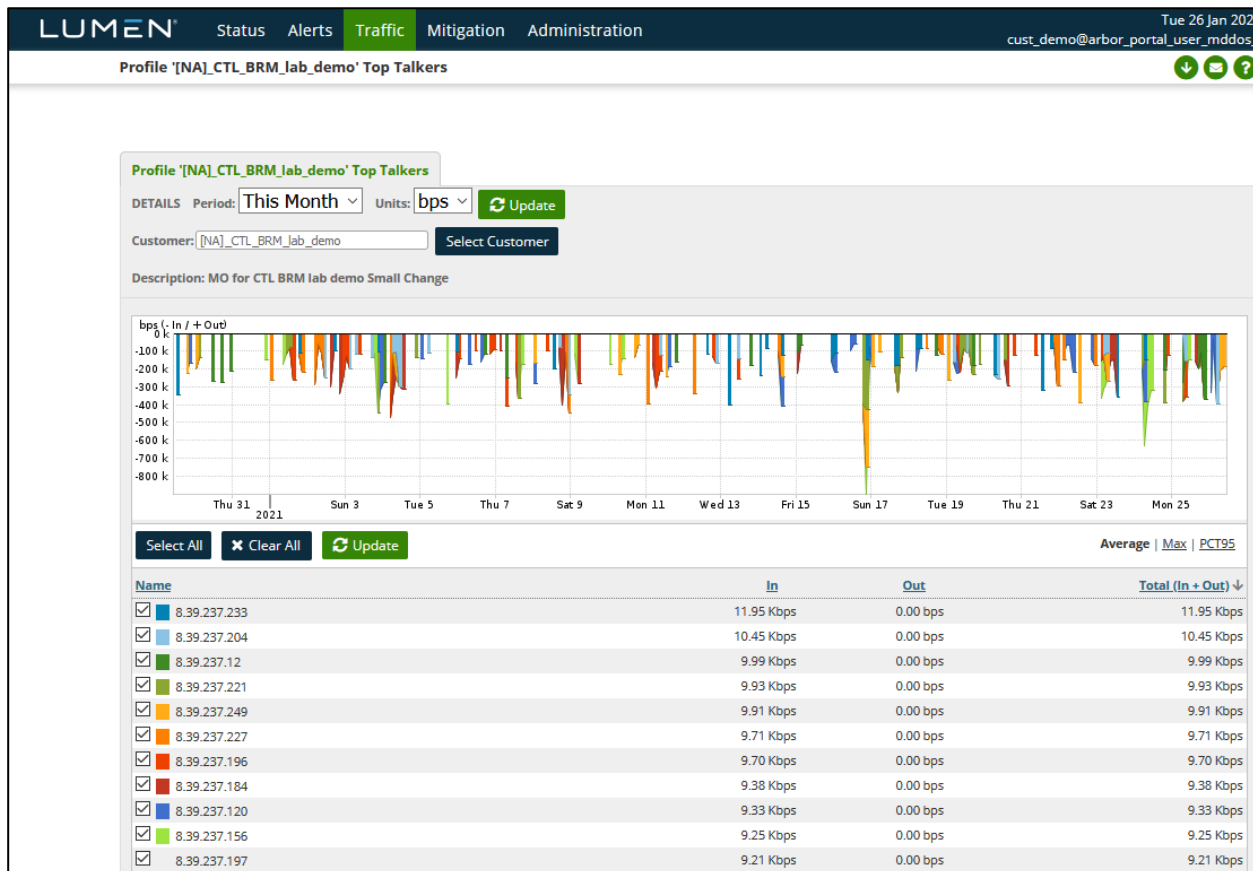
The default period is the previous 24 hours. The period can be changed to various predefined selections, or to "other" for a user-defined timeframe. The default display is bits per second (bps) but can be changed to packets per second (pps). Available graph types are stacked (default), pie, and bar.

The negative values show traffic out of the customer network ("into" Lumen), and the positive is the traffic into the customer network ("out" of Lumen).

Any selected protocols are shown in the graph with a unique color. Any unchecked protocols are not represented in the graph. The table can be sorted by clicking on a column header. Click the column header again to reverse the order.

## Traffic > Profiles > Top Talkers

This screen identifies the systems generating the most traffic on the network that traverses the Lumen network:



The period is selectable from a pre-defined list. The graph type can be bar (default) or pie. Units can be bits per second (default) or packets per second.

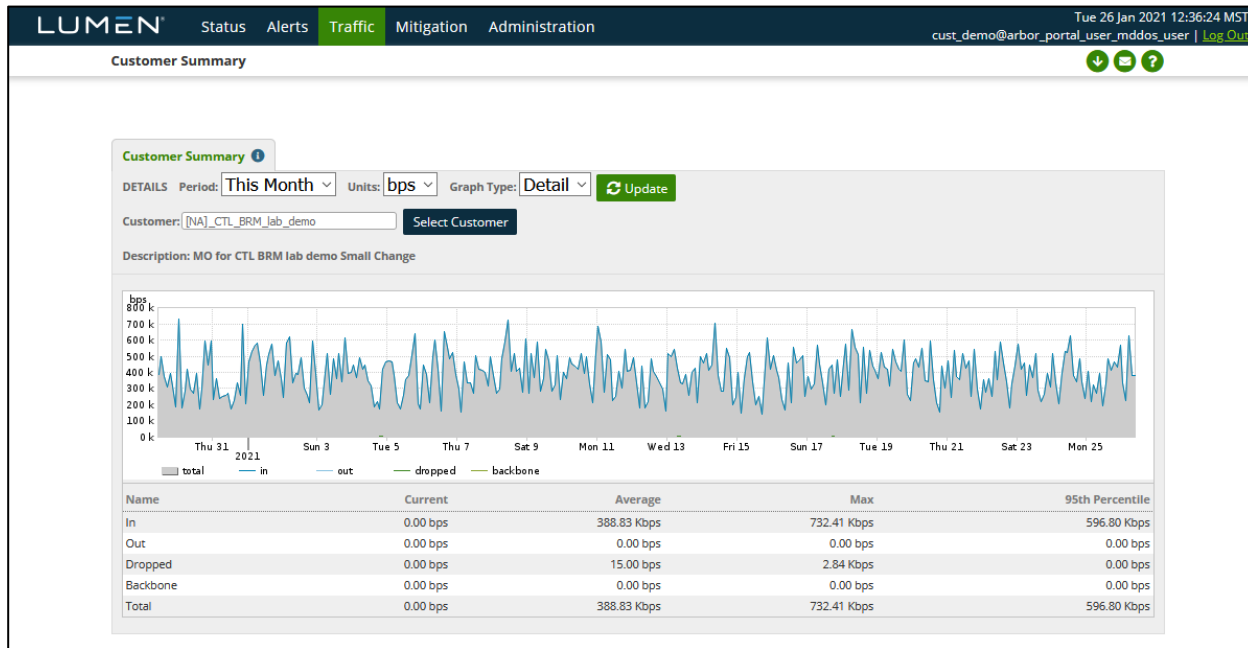
For each of the top-ranked hosts, the time, and rate of their individual peak rate is shown. Those hosts that are checked are shown on the graph with a unique color. Those hosts left unchecked are not shown in the graph.

If the DNS name of host can be resolved, it is shown to the left of the IP address. None of the addresses in the example above can be resolved. If resolved, the name would appear in the blank space to the left of the address.

The table can be sorted by clicking on a column heading. The order of the sort can be reversed by clicking on the column heading a second time.

## Traffic > Profiles > Profile Detail

The summary reports above are for all the networks being monitored that are associated with the Arbor portal account. If you have multiple profiles (a.k.a. “managed objects”, or “zones”), you can view traffic reports restricted to one specific profile, with the options under Traffic →Profiles. This is a traffic summary report for one profile.



A different profile can be chosen from the selection box. The time period is selectable and customizable. Graph type can be stacked (default), pie, or bar. Units can be bits per second (default), or packets per second. When any of these options is changed the “Update” button must be clicked.

Traffic is displayed as “IN” represents, into the Lumen network, hence out of the customer’s networks. Likewise, “OUT” represents, out of the Lumen network and into the customer’s networks.

Traffic shown as “dropped” is traffic reported as dropped by backbone routers, not by the Arbor TMS DDoS mitigation devices. This data is unrelated to DDoS mitigations.

Only those directions/categories of traffic checked in the table are shown in the graph.

Application, Ports, Protocols, and Top Talker reports, identical to those previously discussed but restrained to a specific profile, are available under the Traffic →Profiles menu.

## DDoS Alerts

DDoS Alerts can be viewed under Alerts → All Alerts, or by clicking on the number of ongoing or recent alerts on the status page. Here is a page resulting from clicking on the number of recent high alerts.

The screenshot shows the LUMEN Alerts interface. At the top, there are navigation tabs: Status, Alerts (selected), Traffic, Mitigation, and Administration. The user is logged in as 'cust\_demo@arbor\_portal\_user\_mddos\_user' and the time is 'Tue 26 Jan 2021 12:42:53 MST'. The page title is 'All Alerts'. Below the title, there is a search bar and a 'Wizard' button. The search results show '1 results (1.63 seconds)'. The table below has columns: ID, Max Impact, Importance, Alert, Start Time, and Classification & Annotations. The first row shows an alert with ID '10362460', 'No Data' for Max Impact, 'High' importance (indicated by three red dots), and a classification of 'Possible Attack'. The alert description is 'DoS Alert Incoming IPv4 DoS Profiled Router Bandwidth Attack to [NA\_CTL\_BRM\_lab\_demo]'. The start time is 'Nov 20 02:12 2020 - 02:45 (0:33)'. At the bottom right, it says 'Page generation took 1.89 seconds (Details)'.

ID ↓	Max Impact	Importance ⓘ	Alert	Start Time	Classification & Annotations
<a href="#">10362460</a>	No Data	High 691.8% of 53 pps	DoS Alert Incoming IPv4 DoS Profiled Router Bandwidth Attack to [NA_CTL_BRM_lab_demo]	Nov 20 02:12 2020 - 02:45 (0:33)	Possible Attack

Alerts matching the selection criteria are listed up to 10 per page. They can be sorted in various ways by clicking on the column headers. The small graph shows the traffic rates for the affected destination IPs for the duration of the alert.

The Importance is assigned automatically by the Peakflow system based on various criteria.

The Alert details shows the type of Alert (bandwidth, misuse, profiled, e.g.) and the name of the managed object (often called “zone”) that is affected.

The start time and, if applicable, the end time of each alert is shown in the time zone configured for the portal account (defaults to UTC).

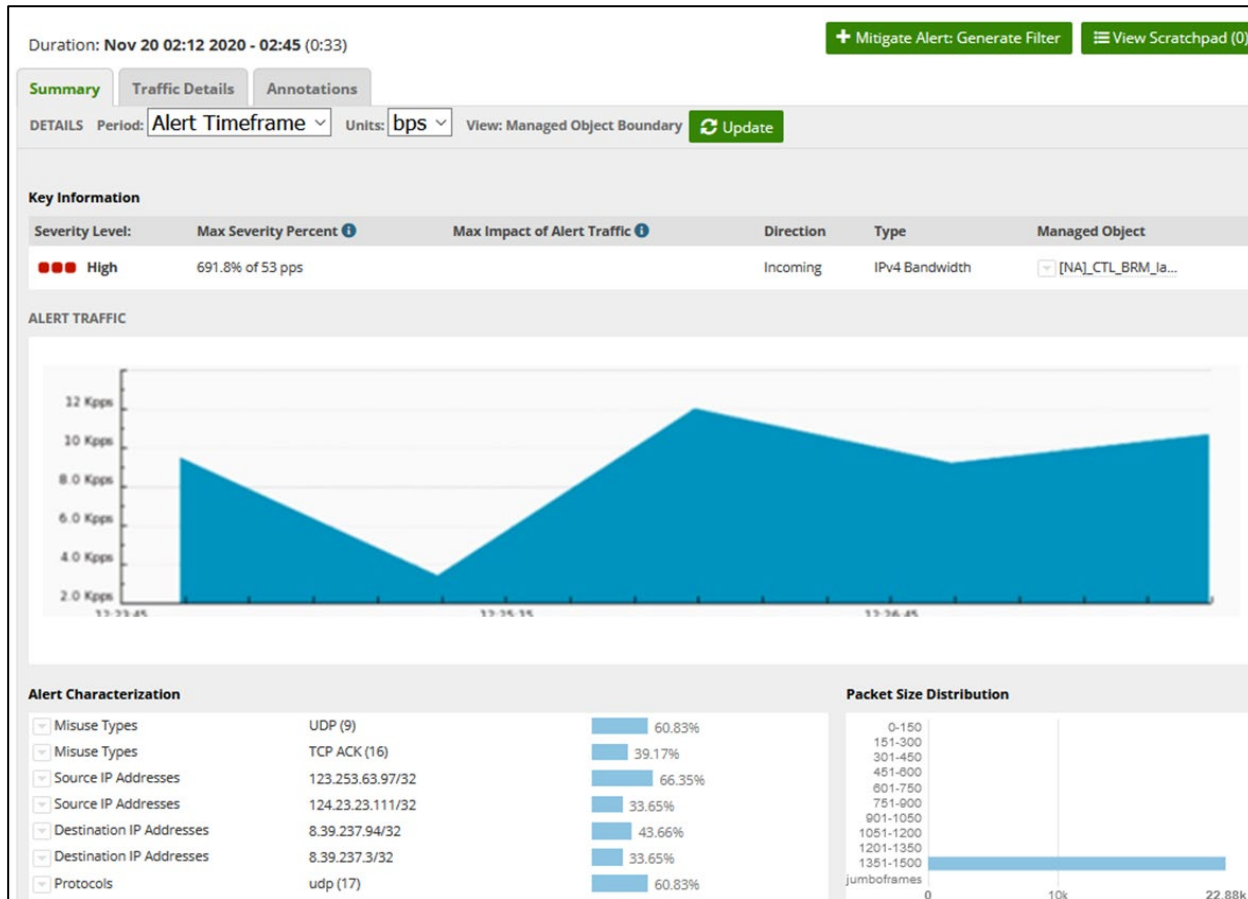
The Classification is initially assigned automatically by the Peakflow system as “Possible Attack”. This can be manually changed by operators to one of None, Flash Crowd, Network Failure, Trivial, or Verified Attack. This is for notational purposes only and has no effect on the operation of the system, and Lumen operators may omit setting this after investigating an alert.

Annotations, shown with the Classification, display the last automatic, or manual comment added to the alert. The third line above shows an example of an automatic comment added when a mitigation of that attack was initiated from the alert. (It is possible to initiate mitigations in other ways that don't associate the mitigation with the alert, in which case, no annotation such as this would be created.)



## DDoS Alert Summary

An alert can be inspected by clicking on the alert ID number:



The graph shows the total traffic associated with the affected IPs during the alert, along with some information about the alert, such as the data rates, the type of alert, and the affected profile. (Most customers have one profile, a.k.a. zone, some may have multiple.)

The Alert Characteristics panel shows the most relevant source, and destination IPs, ports, and protocols. Protocol-appropriate information will also be shown, such as TCP Flags, ICMP codes, etc. The characteristics may be more or less specific, depending on the variation seen in the traffic. In this example, the source IPs are widespread on the Internet, some of the traffic has been narrowed down as coming from the same /10 network, but other traffic cannot be so categorized and is shown as coming from the Internet as a whole (0.0.0.0/0).

TCP Flags, list those flags commonly being seen in the traffic flow. These are all normal flags. For example, a SYN Flood would likely list only flag "S" as it would predominate.

# DDoS Alert Traffic Details

More detail about the traffic generating a DDoS alert is available in the data from individual routers in the Lumen backbone. The list of affected interfaces on individual routers is shown on the Alert Summary page, and the detail coming from a specific interface is accessed with the “Detail” button for a specific interface.

**DoS Profiled Router Alert 10362460** ⬇️ 🗨️ ?

Duration: Nov 20 02:12 2020 - 02:45 (0:33) + Mitigate Alert: Generate Filter View Scratchpad (0)

Summary **Traffic Details** Annotations

DETAILS Period: Alert Timeframe Units: bps View: Managed Object Boundary 🔄 Update

Alert Traffic for Top Source IP Addresses Fri Nov 20 2020

**Top Traffic Patterns (last 5 min of selected timeframe)** 📄 Download All Patterns

No patterns found in the last 5 minutes of the selected timeframe.

**Top 5 Items by Alert Traffic**

Source IP Addresses		Destination IP Addresses	
123.253.63.97/32	89.29 Kbps   66.35%	8.39.237.94/32	58.76 Kbps   43.66%
124.23.23.111/32	45.29 Kbps   33.65%	8.39.237.3/32	45.29 Kbps   33.65%
	<a href="#">View Graph</a> 2 reported	8.39.237.127/32	30.53 Kbps   22.68%
			<a href="#">View Graph</a> 3 reported

Source TCP Ports		Destination TCP Ports	
37742	5.88 Kbps   4.37%	1196 netmagic	5.88 Kbps   4.37%
9010 sdr	5.88 Kbps   4.37%	1806 musiconline	5.88 Kbps   4.37%
61906	4.53 Kbps   3.37%	219 uarps	4.53 Kbps   3.37%
39557	4.53 Kbps   3.37%	401 ups	4.53 Kbps   3.37%
51322	4.53 Kbps   3.37%	1555 livelan	4.53 Kbps   3.37%

Source UDP Ports		Destination UDP Ports	
1024-65535 Dynamic	9.97 Kbps   7.41%	92 npp	5.88 Kbps   4.37%
13144	5.88 Kbps   4.37%	817	5.88 Kbps   4.37%
5583 tmo-icon-sync	5.88 Kbps   4.37%	1507 symplex	5.88 Kbps   4.37%
44788	5.88 Kbps   4.37%	991 nas	5.88 Kbps   4.37%
17710	5.88 Kbps   4.37%	640 entrust-sps	5.88 Kbps   4.37%

Source ASNs		Destination ASNs	
0 NULL	134.59 Kbps   100.00%	0 NULL	134.59 Kbps   100.00%

## Administration > My Account

This page will display details of your account:

The screenshot shows the 'Edit My Account' page in the LUMEN administration interface. The page is titled 'Edit My Account' and has a navigation bar with 'Administration' selected. The account configuration details are as follows:

Field	Value
Username	cust_demo
Real Name	Demo account
Email Address	
<b>Password Change</b>	
Old Password for cust_demo	
New Password	
Confirm New Password	
<b>User Interface</b>	
Timezone	Default (America/Denver)
UI Menu	mssp_noadmin.xml

Buttons:

Page generation took 2.92 seconds (Details)

## For more information

The DDoS Mitigation and Reporting portal offers excellent visibility into your DDoS Hyper and DDoS Mitigation services. Make sure to use the Help selection often by selecting the “?” icon in the upper-right of every page for detailed descriptions of each page.

Additional information on DDoS Mitigation and other products can be found at the following locations:

- Lumen Security Solutions: <https://www.lumen.com/en-us/solutions/connected-security.html>
- DDoS Mitigation and Application Security: <https://www.lumen.com/en-us/security/ddos-and-web-application.html>
- Black Lotus Labs: The Lumen Threat Research Lab: <https://www.lumen.com/en-us/security/black-lotus-labs.html>
- View a list of Lumen products: <https://www.lumen.com/en-us/resources/product-finder.html>
- Sign in to Control Center: <https://www.lumen.com/login>
- Learn more about Lumen: [www.lumen.com](http://www.lumen.com)

## For customers that require a separate authentication method

When your service was activated, you received an email with instructions on how to activate your portal account. To summarize, you should have access to the following things:

- The link to the service: <https://globalview.lumen.com>
- Login credentials – established during service activation
- Username
- PIN
- The RSA SecurID app – available from your app store
- A token for the RSA Secure

Each user will have a unique username and will use an auto-generated token for the password, combined with a PIN that you specify. You will need access to the RSA Token generation app that can be found at your app store.

Once you have your Username, PIN and RSA token app, you are ready to sign in. When you click the portal link you will be provided with the following dialog.

Your Unique User Name

Welcome to Lumen®  
Authorized Users Only

Username

Password

Log In

XXXXXXXXXX

XXXX: Your unique PIN  
YYYYYY: RSA Token Code

Enter your unique username in the top box. Your password will be the 4-digit PIN number you have established concatenated with the number generated by the RSA Token app.