



NOCTION
NETWORK INTELLIGENCE

IRP Global Management Interface

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IRP Global Management Interface Overview

Since the IRP launch, managing multiple instances within different regions and accounts has been a fairly tedious operation. The common view across all of the devices was lacking. This made it cumbersome for network administrators to see the overall network performance and optimization details and try to make sense of the network-wide stats.

IRP users had to manage their platforms' configurations (think BGP and Router details, adding providers, configuring commit control, etc.) by accessing each instance individually. They had to review reports and graphs provided by IRPs one at a time. Setting up notifications and granting user access to multiple instances was time-consuming.

The aforementioned challenges have been addressed with the introduction of the IRP Global Management Interface (GMI).

GMI is a single pane of glass interface that allows network administrators to manage multiple Noction Intelligent Routing Platforms and get access to various data and statistics for those instances from one, easy to access application. With GMI, IRP users now have one, easy place to:

- Monitor multiple IRP instances and their performance
- Get comprehensive network performance analytics
- Facilitate network troubleshooting
- Automatically manage bandwidth levels for provider groups from various points of presence using the Global Commit feature

All the information is now in one commonplace with a modern, intuitive, and easy to navigate frontend.

Administrators are now free to create an unlimited number of dashboards and add as many relevant widgets to these dashboards as needed. This makes it much more clear for users to determine the effects of all the IRP instances performance in their network, analyze data, set up notifications, in a way that is much more convenient.

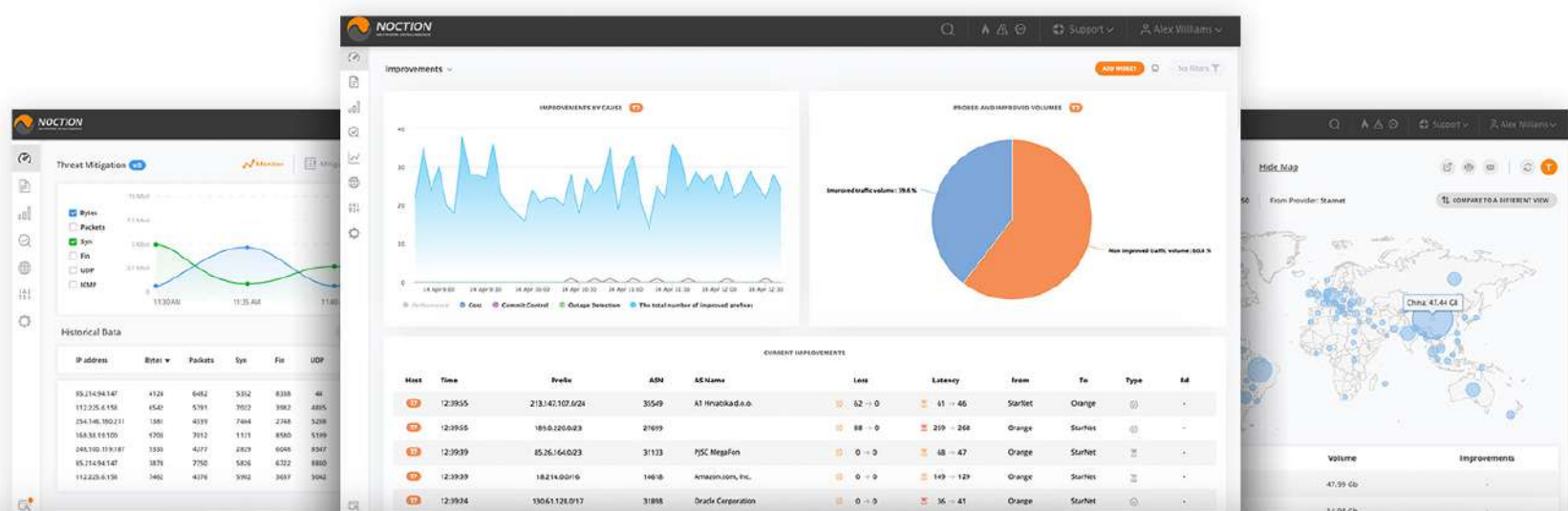


Figure 1: IRP Global Management Interface

GMI Operating Details and Technical Requirements

GMI acts as a standard web application, all user interactions are made via a web browser. The list of supported browsers includes:

- Google Chrome / Chromium version 42 and higher
- Safari version 10.1 and higher
- Firefox 64 and higher
- Edge 45 and higher
- Opera 42 and higher

In order to plan the GMI deployment in your network, a series of hardware/software requirements need to be met and specific information has to be determined:

Hardware requirements

- CPU - Recommended Intel® i5 latest 10th, 9th, 8th, 7th, and 6th Generation Products with 5 threads
- RAM - Recommended size of at least 4 GB
- HDD - Recommended size of at least 4 GB SSD

Software requirements

Operating systems:

- CentOS 7
- Ubuntu 16.04, Ubuntu 18.04, or Ubuntu 20.04

New features available with GMI

Global Commit

This feature is of great use for companies operating worldwide networks with varying degrees of integration. Global Commit is designed for organizations with multiple geographic locations, operating as independent networks from a functional point of view, but under a single contractual agreement with their transit providers. The feature allows such organizations to balance local, regional, and global preagreed 95th agreements to ensure locations both don't over exceed bandwidth commitments, but also so that they don't needlessly underutilize connectivity.

Network administrators who take advantage of the Global Commit feature get peace of mind, knowing that the contractual agreements with ISPs will be strictly respected, and there will be no unexpected overages.

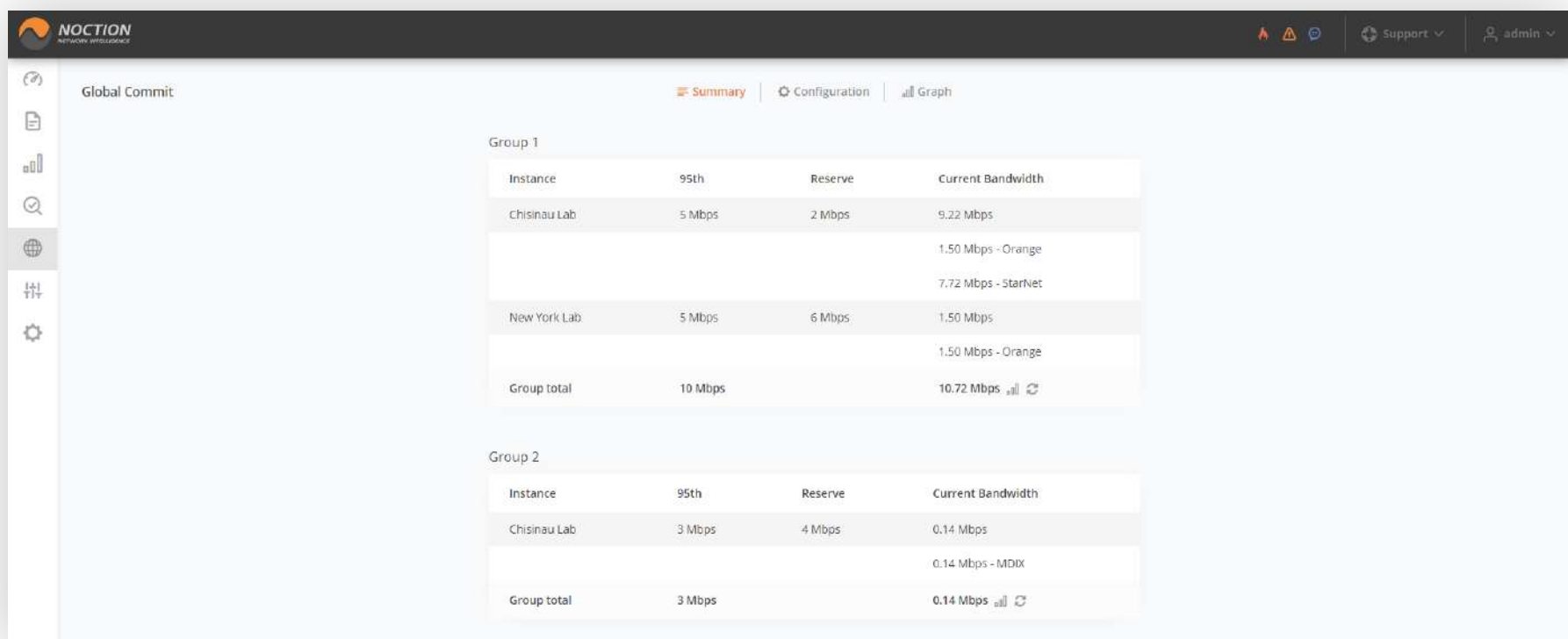


Figure 2: Global Commit Summary

Remote-triggered Blackholing

The Remote-triggered Blackholing feature allows the redirection of traffic to a non-existent resource (a so-called black hole), or the blocking of the unwanted traffic in a provider's network, thus preventing such traffic from entering the IRP GMI user's network.

The feature can be specifically used to better understand and mitigate the effects of the Distributed Denial of Service (DDoS) attacks. Its visual representation in GMI consists of the Monitoring and Rules sections. The Monitoring tab offers a 30-minute router(s) traffic graph view, as per specific IRP instance, providing the total Bytes and Packets statistics along with the filter down capability on packet types, including Syn, Fin, UDP, ICMP. The Rules section allows specifying a prefix to be blackholed.

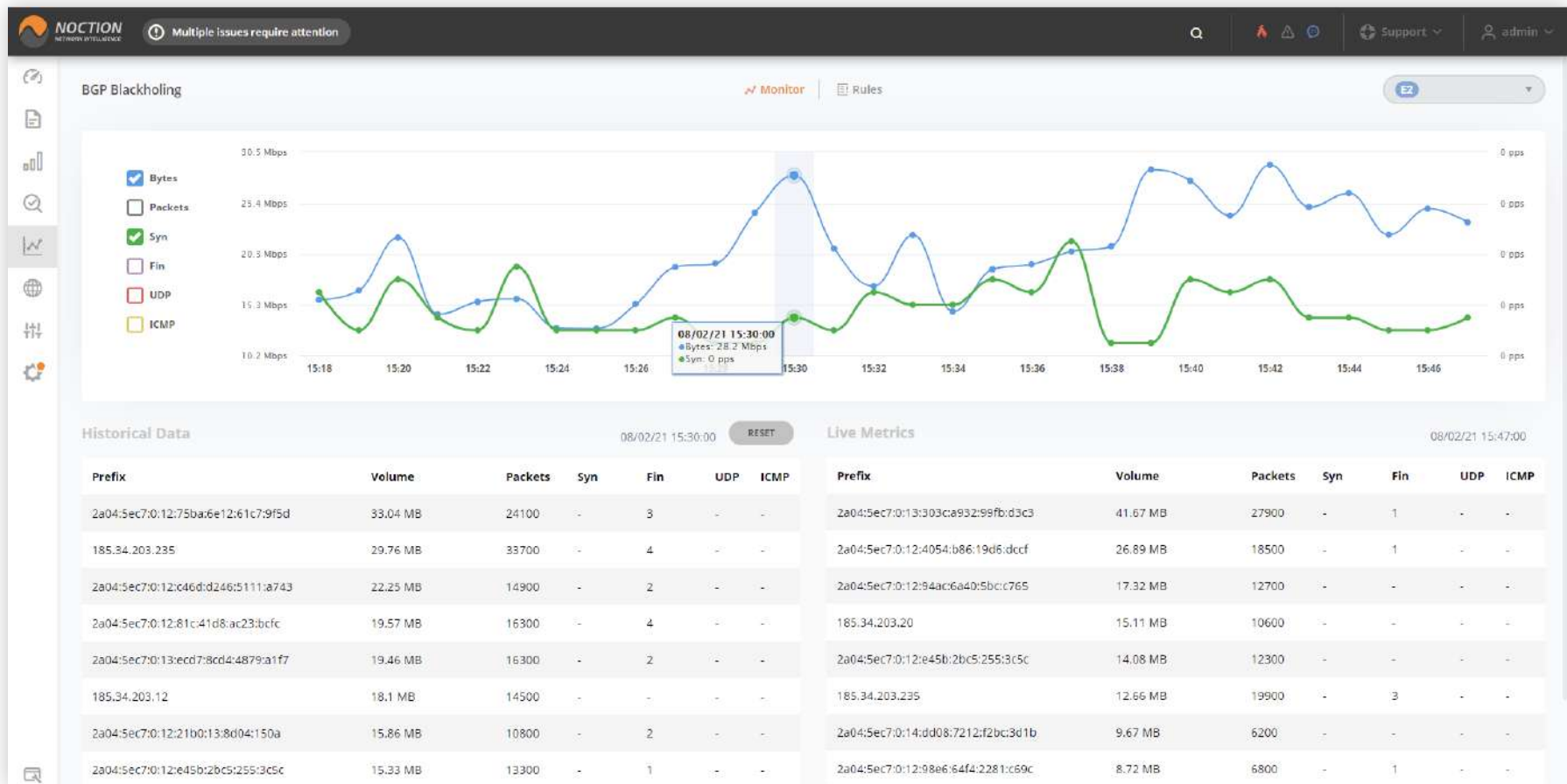


Figure 3: GMI RTBH

To learn more about the GMI operating principles and capabilities, contact us via sales@noction.com and schedule a personalized demo or review the [documentation](#).

About Noction

Noction is a privately funded technology company with offices in the US, Europe, and Asia. Founded in 2011, Noction is providing cutting edge network intelligence technologies, enabling enterprises to take full advantage of maximum network performance for business critical applications such as e-commerce, VoIP and media streaming across IP networks.



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