Understanding Traffic Patterns

What is a Traffic Pattern? It is a logical structure you create in order to analyze the network traffic you are interested in. Traffic Patterns are completely independent of the physical infrastructure. This enables you to focus on logical properties of your traffic instead focusing on physical links, network devices and their interfaces.

Traffic Pattern is a part of the totally collected network traffic. It represents the traffic between two networks, namely:

- Internal Network usually represents the whole or part of your internal network (company network) from which the NetFlow data are exported and collected
- External Network can be an arbitrary network other part of your network (such as a network in another city, database center etc), Internet provider's network, or the whole Internet.

The traffic between the Internal Network and External Network is always bidirectional. This means that the Traffic Pattern will match the traffic going from the Internal Network to External Network, and from the External Network to Internal Network. The statistics are generated for the traffic between Internal and External Networks separately in two opposite directions, referenced from the Internal Network perspective:

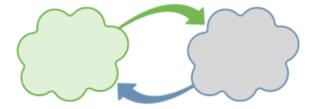
- Outgoing (Out) traffic going out of the Internal network or, in other words, traffic sourced from the Internal Network and destined to the External Network.
- Incoming (In) traffic coming into the Internal network or, in other words, traffic sourced from the External Network and destined to the Internal Network.

There are three types of Traffic depending on the direction of traffic in regards to you Internal network:

Self Traffic - within one network. In other words, source and destination of the traffic are both
within a single network. Naturally, the network in question has to be within your internal network.
In this case, your internal network (or its part) is both Internal Network and External Network.. In
the case of Self Traffic, outbound traffic volume is the same as the inbound traffic volume.



 Normal Traffic - between two different networks (network IP ranges do not overlap). Usually, one of these network is your company' network (or its part) and some external network such as the whole Internet or some specific network like Facebook.



Custom Traffic - a combination of Self-Traffic and Normal Traffic. For example, if you want to
track the entire network communication of your PR department. This means tracking (1) to witch
part of your company network did they communicate with and (2) to which networks outside of
your company network did they communicate with. The Internal Network is your PR department
and the External Network is all networks except PR department network.





Traffic Pattern's Internal and External networks are defined by IP address ranges and other parameters collected by the NetFlow and similar protocols can be used as filters to further specify Traffic Patterns. Learn more about Configuring Traffic Patterns.