BitTorrent Consumes Big Bandwidth

Based on the working principle of BitTorrent protocol, if somebody is downloading big files with BitTorrent software, it will be a disaster for other users who need bandwidth for business operations as the user will consume large amount of bandwidth, thus causing long time network slowness, intermittence, even disconnections; because meantime the user downloading files from others, others are downloading files from him.

So it is necessary for IT administrators to track BitTorrent user at first place to regain network bandwidth for business operations. Blocking BitTorrent protocol can be one way; this article is to discuss how to track BitTorrent users with Colasoft Packet Sniffer .

How to Track BitTorrent User?

>***Step1***. *Download a free trial of Capsa Network Analyzer and implement it correctly*

>***Step2***. *Launch the program and start a capture*

>***Step3***. *Find* ***BitTorrent*** *protocol item in the Protocol tab*

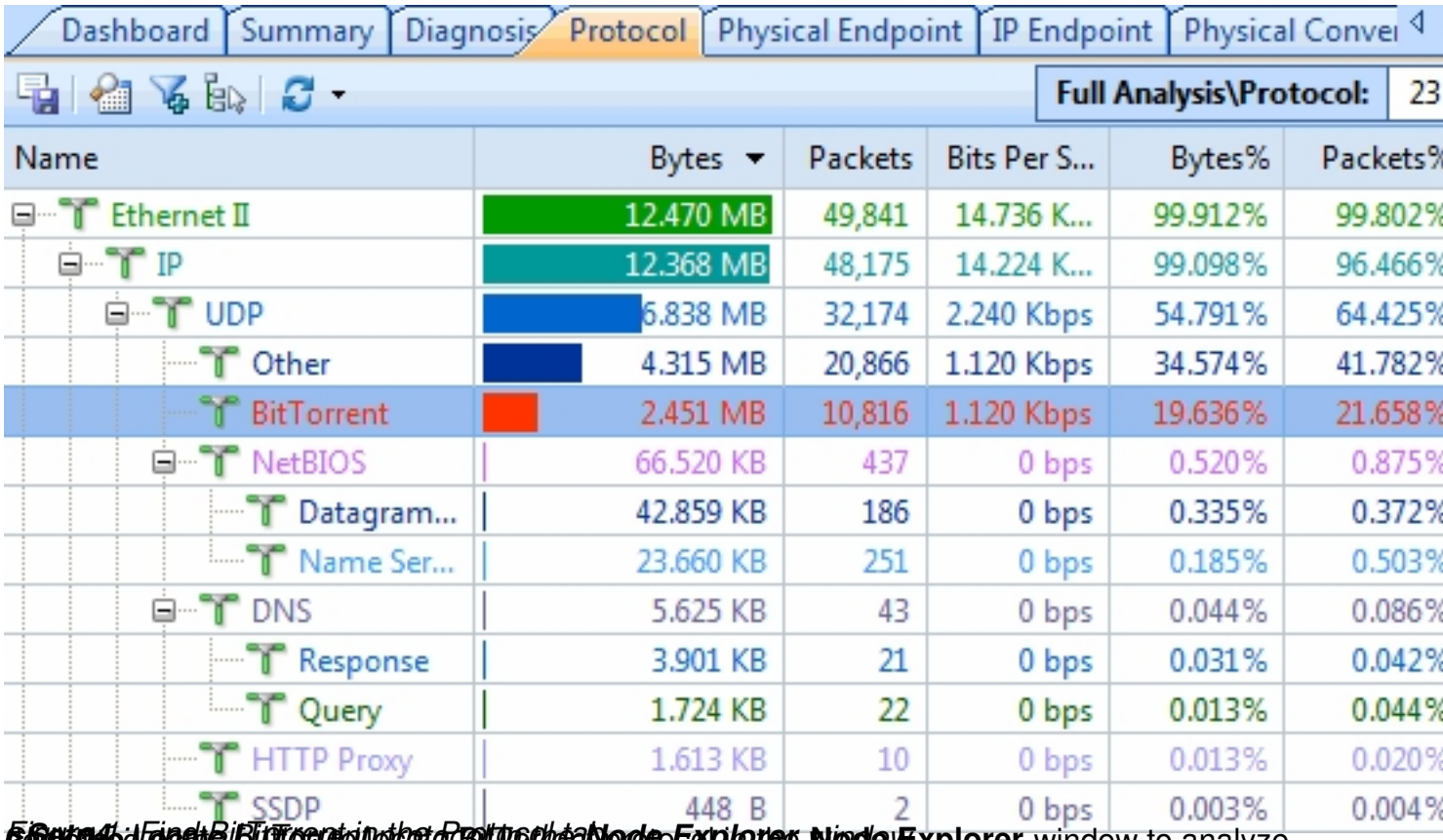


Figure 4: Find BitTorrent in the Protocol tab of the Node Explorer window

Click the **Locate** button to locate BitTorrent protocol in the **Node Explorer** window to analyze

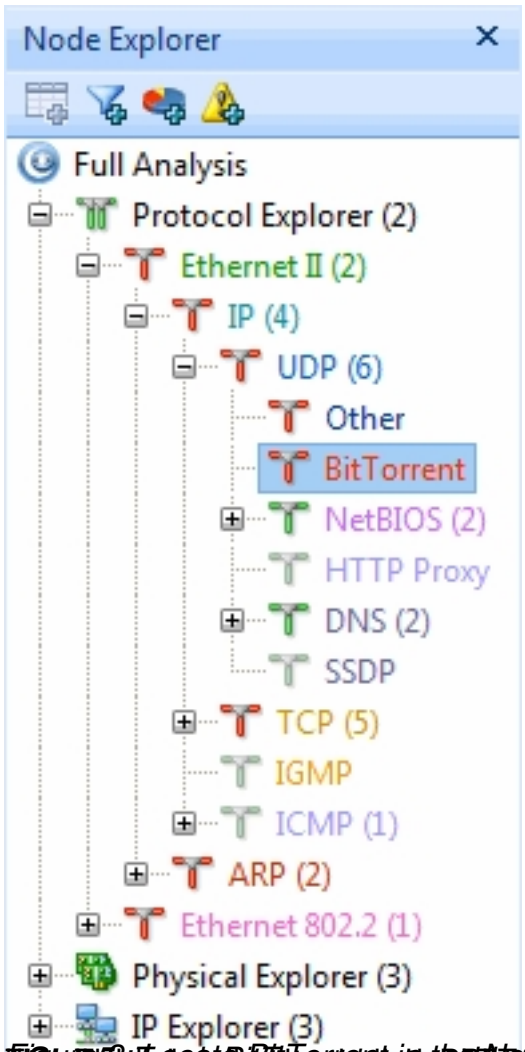
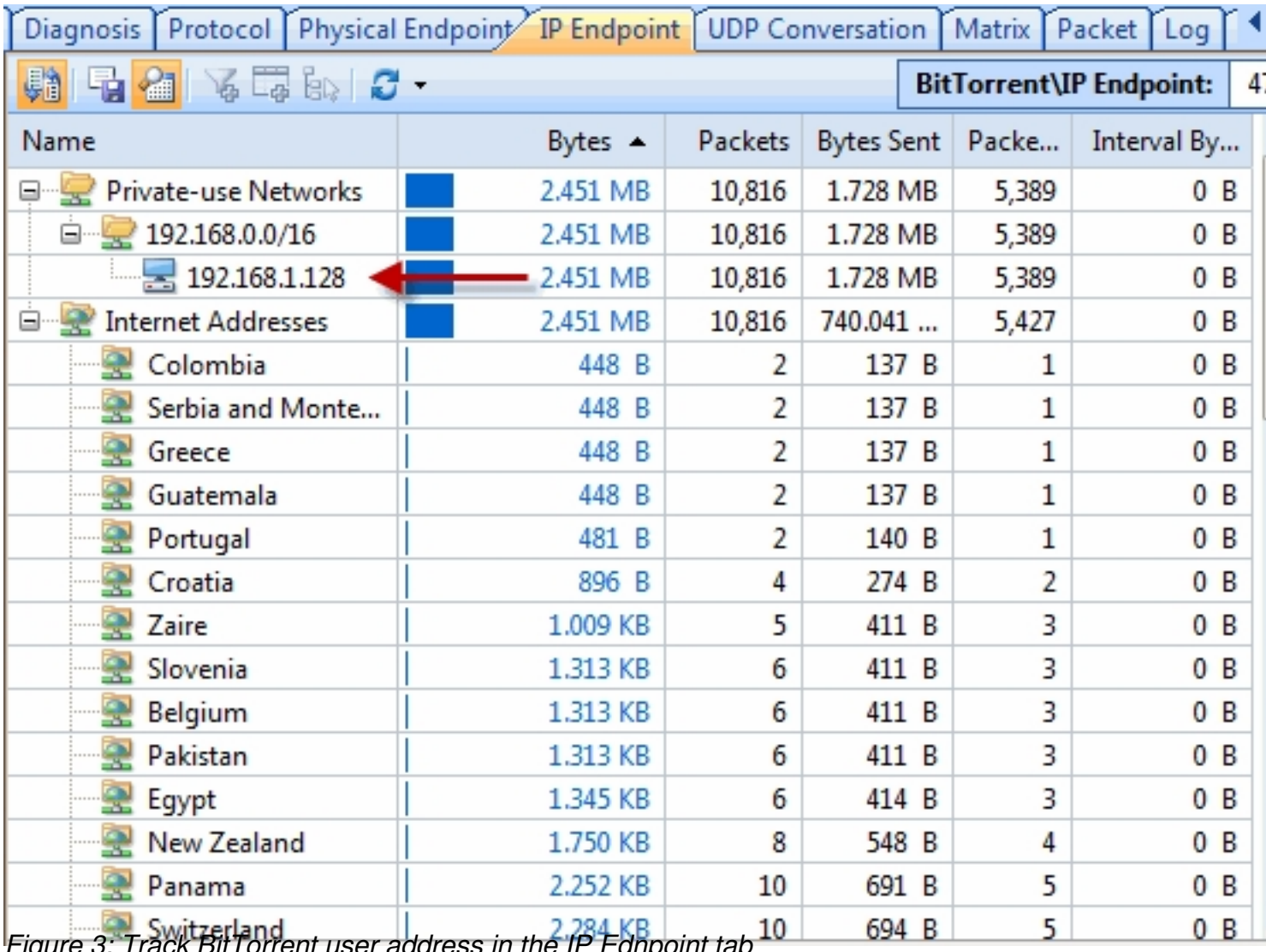


Figure 3: Locate BitTorrent in the Node Explorer to display filter

With the above steps, the BitTorrent data has been



Name	Bytes	Packets	Bytes Sent	Packe...	Interval By...
Private-use Networks	2.451 MB	10,816	1.728 MB	5,389	0 B
192.168.0.0/16	2.451 MB	10,816	1.728 MB	5,389	0 B
192.168.1.128	2.451 MB	10,816	1.728 MB	5,389	0 B
Internet Addresses	2.451 MB	10,816	740.041 ...	5,427	0 B
Colombia	448 B	2	137 B	1	0 B
Serbia and Monte...	448 B	2	137 B	1	0 B
Greece	448 B	2	137 B	1	0 B
Guatemala	448 B	2	137 B	1	0 B
Portugal	481 B	2	140 B	1	0 B
Croatia	896 B	4	274 B	2	0 B
Zaire	1.009 KB	5	411 B	3	0 B
Slovenia	1.313 KB	6	411 B	3	0 B
Belgium	1.313 KB	6	411 B	3	0 B
Pakistan	1.313 KB	6	411 B	3	0 B
Egypt	1.345 KB	6	414 B	3	0 B
New Zealand	1.750 KB	8	548 B	4	0 B
Panama	2.252 KB	10	691 B	5	0 B
Switzerland	2.284 KB	10	694 B	5	0 B

Figure 3: Track BitTorrent user address in the IP Endpoint tab

View how many connections have been built in the Matrix tab

You'll be shocked to see how many connections have been built in the "Matrix" Tab. In this case, we can see this user has built more than 1000 connections with other hosts.

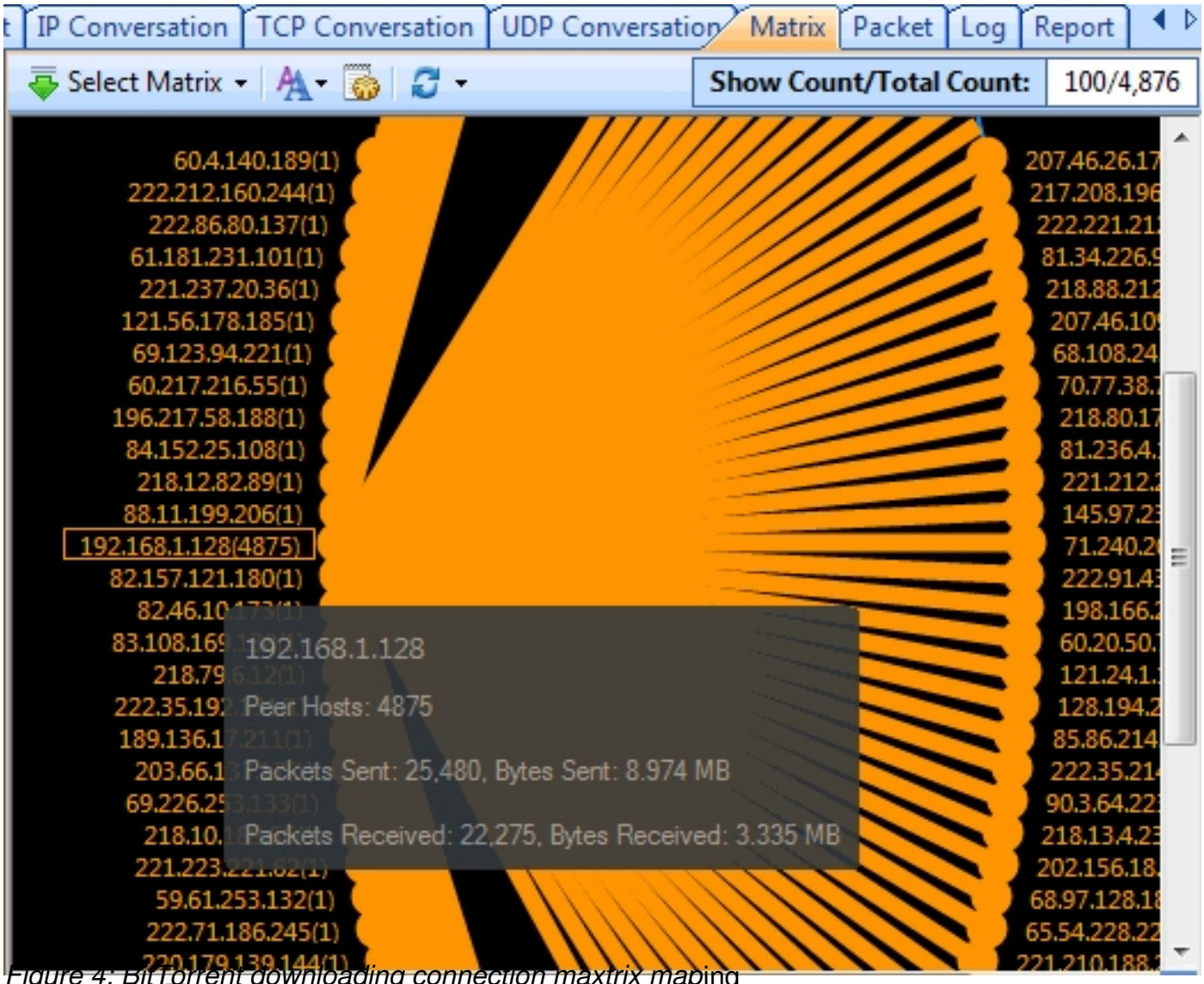


Figure 4: BitTorrent downloading connection maxtrix mapping

About BitTorrent

BitTorrent is a peer-to-peer file sharing protocol used for distributing large amounts of data. BitTorrent is one of the most common protocols for transferring large files.

The protocol works when a file provider initially makes his/her file (or group of files) available to the network. This is called a seed and allows others, named peers, to connect and download the file. Each peer that downloads a part of the data makes it available to other peers to download. After the file is successfully downloaded by a peer, many continue to make the data available, becoming additional seeds. This distributed nature of BitTorrent leads to a viral spreading of a file throughout peers. As more peers join the swarm, the likelihood of a successful download increases. Relative to standard Internet hosting, this provides a significant reduction in the original distributor's hardware and bandwidth resource costs. It also provides redundancy against system problems and reduces dependence on the original distributor.

Next Step

>>Download Capsa Network Analyzer