

The Profitap logo features the word "PROFITAP" in a bold, white, sans-serif font. The letters "P" and "T" are underlined with two horizontal lines. A thin orange line is positioned above the "P" and "T".

**PROFITAP**

The ntop logo consists of the lowercase letters "ntop" in a white, lowercase, sans-serif font.

**ntop**

# *SOLUTION BRIEF:*

*DISSECTING NETWORK TRAFFIC WITH PROFITAP & NTOP*

*| ONE-STOP COMPLETE SOLUTION FOR VIEWING YOUR NETWORK TRAFFIC*

VISIT [WWW.PROFITAP.COM](http://WWW.PROFITAP.COM)

# THE CHALLENGE

Internet Service Providers (ISPs) face the struggles of extreme bandwidth usage compounded by customer growth. While this is great for business, the challenge is making sure the bandwidth is being used effectively. Many times, customers will complain that "the internet is slow" when really it is because they are using up 98% of their bandwidth on YouTube or online backup, etc.

These customers may not know they are the source of their problems and without the right tools, the ISP may not be able to troubleshoot this issue as well. Problems like these quickly become very expensive, because your company is not operating at 100%. It is important to find the cause as soon as possible.


The ability to view "into" traffic or deep packet inspection (DPI) allows you to see the type of traffic and where the traffic is going, to name a few. You can probably already see the amount of traffic without DPI, but knowing that you are using Facebook or sending 100% traffic overseas is data that can be very useful.


ntop has an array of software tools and hardware appliances that allow you to view this type of information. But many times, the issue becomes how do you connect this all together? How is it possible to get a line-in to your internet pipe or remote office to view this type of traffic? That's where Profitap's line of products come in.

Profitap develops and manufactures a complete range of innovative Network TAPs, Network Packet Brokers and Portable Field Service Troubleshooters for security, forensics, deep packet capture and network performance monitoring sectors.

Direct access to the network and full visibility provides the basis for a proper network assessment. With a non-intrusive and fail-safe design, Profitap network analysis and traffic acquisition solutions provide complete and secure visibility into every bit and packet on the network.

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*“ PROFITAP’S NETWORK  
TAPS ALLOW YOU TO  
CAPTURE 100% OF THE  
PACKETS THAT ARE  
FLOWING OVER YOUR  
NETWORK LINES.”*

# *PROFITAP & NTOP JOINT SOLUTION*

Many companies do not have visibility into what is happening on their networks. “What are my users doing?”, “Where is the traffic coming to/ from?”

In many cases, there is simply no way to view this traffic. To get full access to what is going on the network lines, a TAP is required, that can be used to copy/mirror traffic to another port. This device must be resilient, low cost and easy to use in order to not bring any harm to the critical network link by adding a point of failure.

From small single TAP environments looking to simply keep an eye on traffic to global installations with distributed TAPs, bypass TAPs and fiber infrastructures, Profitap has the ability to craft a network visibility solution tailored to your specific needs.

Once we have a copy of the network traffic, where do we send it? What exactly can we see? Profitap's network TAPs allow you to capture 100% of the packets that are flowing over your network lines. This data can be sent to ntop's software solution directly, or to a Network Packet Broker. Profitap offers a range of Network Packet Brokers that can aggregate and filter all mirrored traffic coming from the TAPs in real time. With an NPB in the setup, only actionable data is delivered to the ntop software, which makes for a very efficient solution.

**" PROFITAP'S TAPS AND  
NTOP'S FULL LINE OF  
SOFTWARE OFFER FULL  
ACCESS AND VISIBILITY  
INTO YOUR NETWORK."**

**NTOP'S SOFTWARE SOLUTIONS OFFER THE  
FOLLOWING:**

**Traffic Recording:**

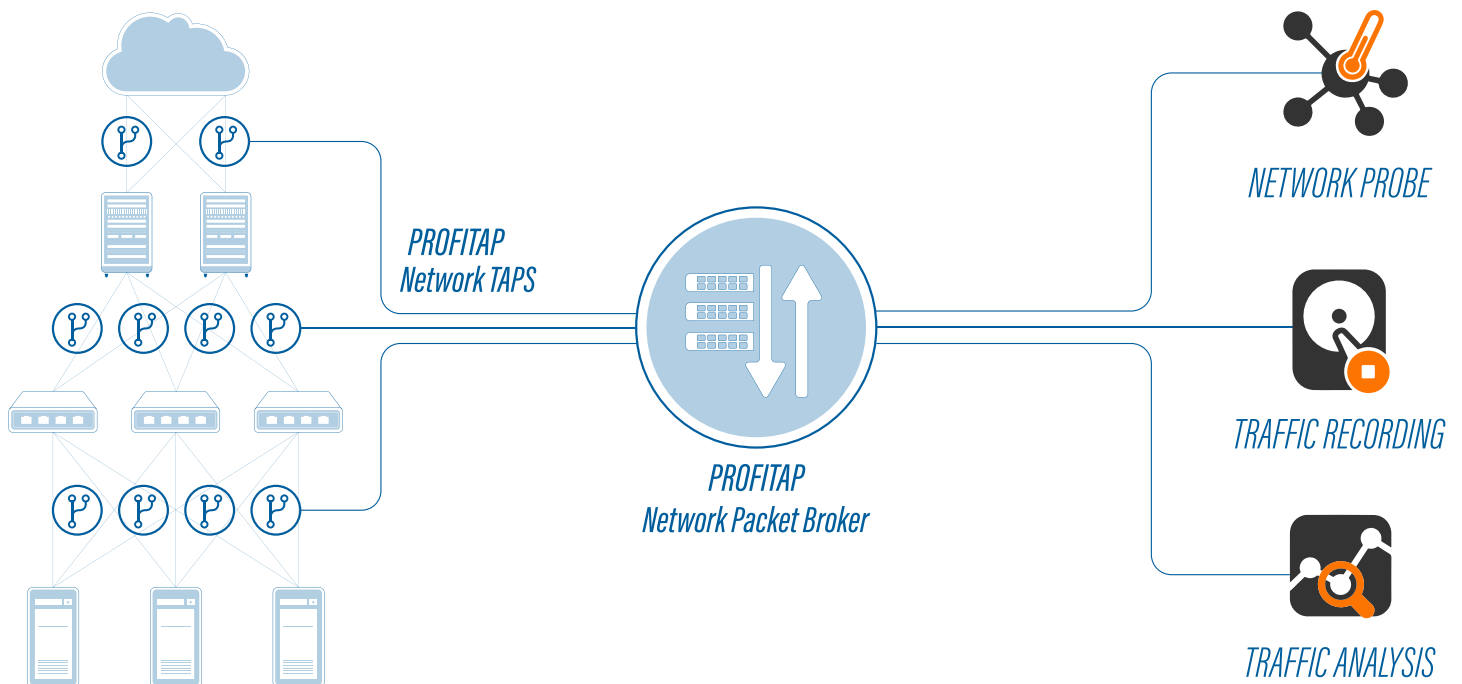
10Gbit and above lossless network traffic recording with the n2disk™ traffic recorder. Uses the industry standard PCAP file format to dump packets into files so the resulting output can be easily integrated with existing third party or even open/source analysis tools (e.g. Wireshark). n2disk™ is able to produce an index on-the-fly during packet capture, to quickly retrieve interesting packets using fast-BPF and time interval. Precise traffic replay of the captured traffic can be done with disk2n™.

**Network Probe:**

nProbe™ is an extensible NetFlow v5/v9/IPFIX probe with plugins support for Layer 7 content inspection. nProbe Cento™ is the high-speed equivalent with up to 100 Gbit NetFlow, traffic classification, and packet shunting for IDS/packet-to-disk acceleration.

**Traffic Analysis:**

High-speed web-based traffic analysis and flow collection using ntopng. Persistent traffic statistics in RRD format. Layer 7 analysis by leveraging on nDPI, an Open Source DPI framework.



# MAIN BENEFITS

- Capture all network traffic in real-time with Network TAPs and then deliver only the important data to ntop software solutions with Profitap NPBs
- Sort network traffic according to many criteria including IP address, port, L7 protocol, throughput, Autonomous Systems (ASs) and show real time network traffic and active hosts
- Record and Visualize hosts' historical applications protocols usage
- Get a geographic map of your network communications with the rest of the world
- High-speed web-based traffic analysis and flow collection using ntopng. Persistent traffic statistics in RRD format
- Layer 7 analysis by leveraging on nDPI, an Open Source DPI framework
- nProbe Cento: up to 100 Gbit NetFlow, traffic classification, and packet shunting for IDS/packet-to-disk acceleration
- Traffic Recording
- 10 Gbit and above lossless network traffic recording with n2disk. Industry standard PCAP file format
- Wire-speed packet capture/transmission using commodity hardware with PF\_RING. Zero-Copy packet distribution across threads, applications, Virtual Machines
- ntopng natively integrated InfluxDB/Grafana support as well a custom network flow database that enables flow search and retrieval at high-speed.
- Duplicate and deliver full-duplex traffic to the ntop software at line rate, with no impact on the network link

Profitap's TAPs and ntop's full line of software together offer full access and visibility into your network. This way, the root cause of a network problem can be identified, and solved quickly and accurately.



# ntop

ntop develops high-quality networking software used by small individuals as well by large telecom operators, mostly open-source, free for no-profit/research, and provides direct support at reasonable prices. We operate our computers using the green energy (photovoltaics) we produce, our staff is geographically distributed in Europe and North America, we mostly work from our SOHO going to the office only when necessary, as we see a value in working close to our families and serving remote customers at night when all offices would be closed.

All our software and technology is home-grown and thus independent from third-party companies, our prices are transparent and stable over time, we have full control on what we produce. Our aim is to continue operating ntop with these principles for the years to come, and not to become a sales-driven company where profit is (mostly) the only driving force, while steady growing in both revenues and staff like we have done for the past years. We like and believe in what we do, and how we do it. We expect to be here for the years to come, when you will need us.

## *PROFITAP*

Profitap develops and manufactures Copper and Fiber Network TAPs, Network Packet Brokers and Portable Field Service Troubleshooters. These solutions are designed with the security, forensics, deep packet capture and network performance monitoring sectors in mind.

Profitap network solutions help eliminate network downtime and add security to existing and new networks all over the world. All of Profitap's networking monitoring tools are highly performant, secure and user-friendly, and provide complete visibility and access to your network, 24/7. With more than 1,000 clients from 55 countries, Profitap has become a must-have solution and tech partner for many important businesses, many of which are among Fortune 500 companies.



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# **PROFITAP**

Profitap develops and manufactures high-quality network monitoring solutions. Our high-density data center TAPs and field service troubleshooters provide complete, comprehensive visibility and access to your network 24-7-365.

Profitap's non-intrusive and fail-safe design ensures our TAPs provide the utmost security for networks and monitoring appliances.

We have developed our products to be market leading in the industry where the definition of excellence is constantly being challenged. With more than 1,000 clients from 55 countries, Profitap has become an integral solution for major businesses, many of which are Fortune 500 companies.

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