Packetmaster One - PM1

30 Gbit Ethernet Appliance

Data Access is an ever more important topic in todays complex and growing Ethernet/IP networks. While standard optical and/or electrical TAPs are being used to safely access raw data on the line, other tools are needed to allow efficient use of expensive monitoring probes and packet recording appliances. The Packetmaster One appliance has been developed to help reduce costs in such complex monitoring systems in both, Carrier- as well as Enterprise class networks.

It combines 24 x 10/100/1000 ports and 2 x 10 Gbit ports with an extremely powerful network process engine to allow users basically any data manipulation at line rate before the data is recorded or analysed.
In combination with the Packetmaster Two and the extended versions Packetmaster EX24 and EX48 basically any monitoring requirement can be realised efficiently and cost effectively.

Applications

Link / Port Aggregation
Aggregates up to 24 GigE ports (12 links) to one single or multiple output ports (GigE or 10G).

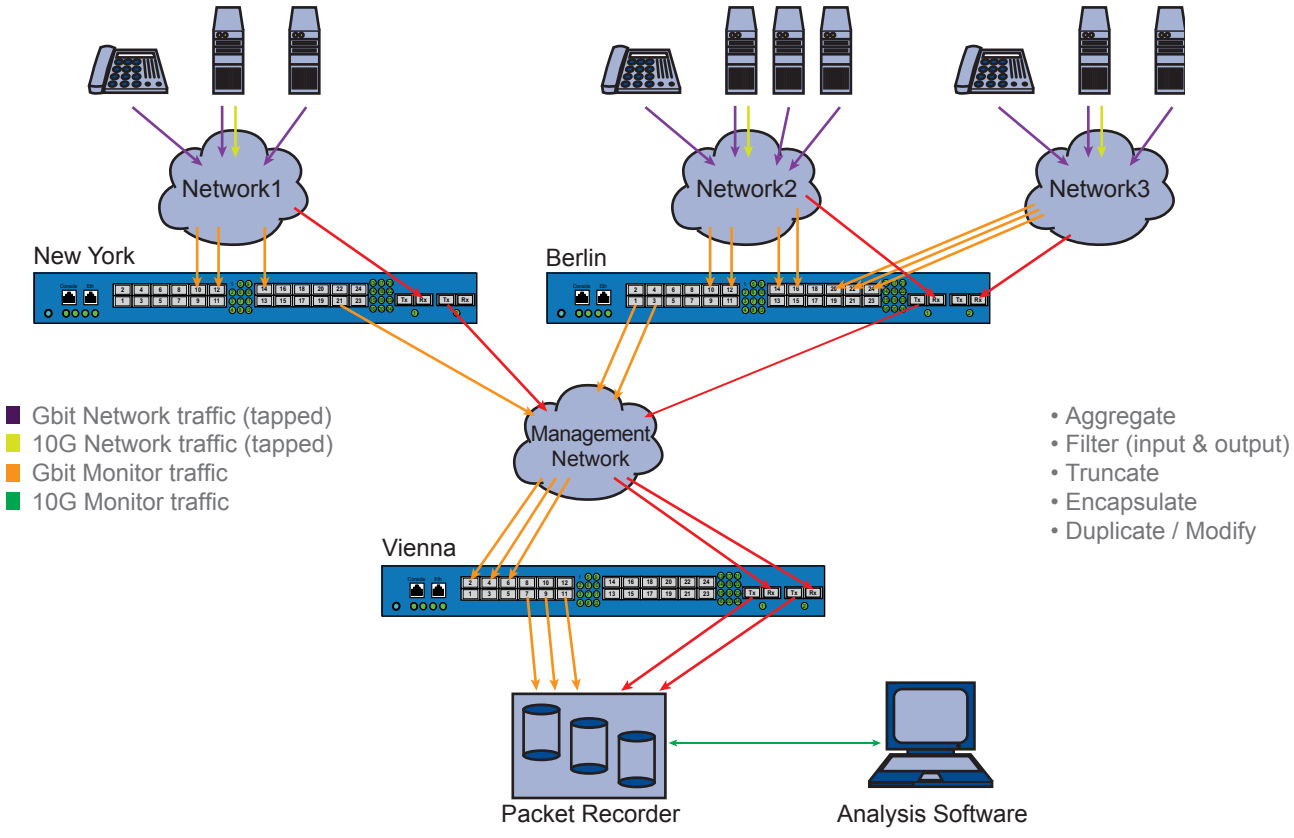
Filter
Filters traffic by IP address, port number, protocol, physical input port or any bit inside the frame. The appliance allows positive as well as negative filters.

Load balancing
Load balanced traffic by IP address, port number and physical input port.

Cross connect
The PM1 can be used as layer 3 cross connect plus aggregator and filter.

Duplicate traffic remover - DTR
The DTR feature allows the automatic removal of duplicated packets on links helping save cost in recording or probe hardware.

„PM1 traffic encapsulation and routing“

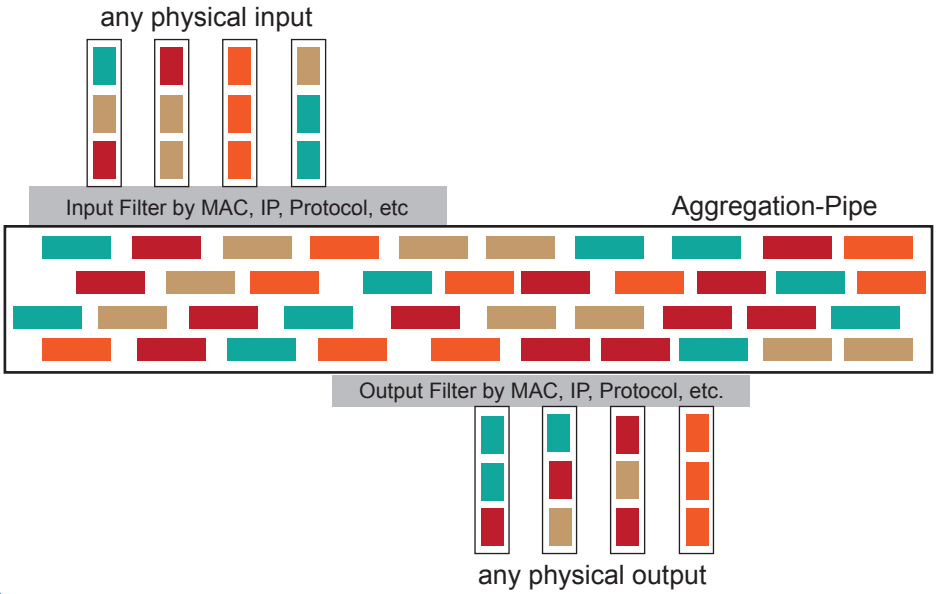


Optimization

- Optimize the number of required monitoring probes or data recorders in your data center or network cloud.
- Avoid expensive recording hardware in remote locations.
- Get “Traffic to the desk”.
- Cut payloads to save a huge amount of data and recalculate a valid CRC for the remaining frame content at line rate.
- Route monitoring traffic to where you need and want it.
- Monitor redundant links without re-cording twice the bandwith.
- Merge 10/100/1000 and 10G traffic into the same recording system.
- Duplicate monitoring traffic to all analysis tools needed.

Filter SetUp using the CLI

The PM1 offers an extremely simple Command Line Interface (CLI) to set up filter and aggregation parameters making a cumbersome GUI unnecessary. Especially when a high number of filters is applied and when negative filters come into play the use of the CLI is by far the simplest and most efficient way to setup the appliance.



Specifications

Network Ports
24x 10/100/1000 Ethernet
2x 10GE

Port use
All ports can be used as input as well as output at the same time. Ports can be reconfigured without any operational system impact.

Programming
Very simple CLI command line interface for very complex filter combinations. Remote access, password protected, via Telnet or SSH.

Filters
MAC Source and Destination
VLAN tags
IP Source and Destination
Protocol
UDP ports
TCP ports
Input port
User defined

Filter combination
Any filter can be combined with any other filter. Up to 960 filters can be active at the same time.

Filter use
Filters can be applied as „positive“ or „negative“ filters (MAC A and IP B but NOT Protocol C and NOT Port D)

Mechanical Specifications
1U, 19“ appliance
44mm (H) x 330mm (D) x 483mm (W)

Electrical Specifications
Input Power: 100-240 V, 2 A, 47-63 Hz
DC Input: -48 VDC nominal, 4.0A

Operating Specifications
Operating Temperature: 0° C to 40° C
Storage Temperature: -10° C to 70° C

Compliance
CE, RoHS

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