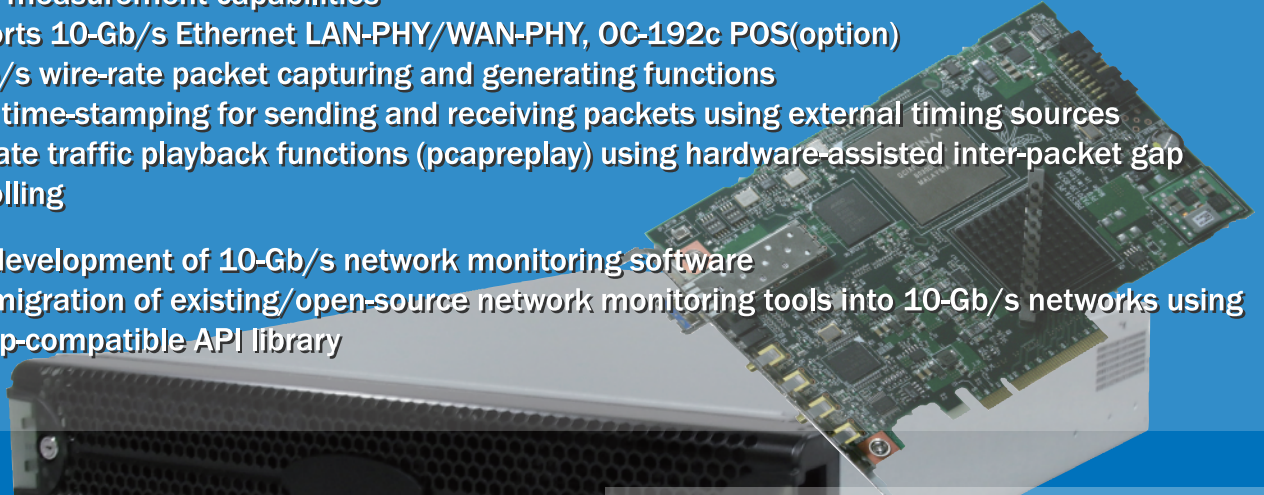


# NM10G

for high-accuracy 10-Gb/s network monitoring

powered by i-Visto technology

- Consisting of general-purpose PC and NM10G network interface card with highly-accurate traffic measurement capabilities
- Supports 10-Gb/s Ethernet LAN-PHY/WAN-PHY, OC-192c POS(option)
- 10-Gb/s wire-rate packet capturing and generating functions
- 10-ns time-stamping for sending and receiving packets using external timing sources
- Accurate traffic playback functions (pcapreplay) using hardware-assisted inter-packet gap controlling
- Easy development of 10-Gb/s network monitoring software
- Easy migration of existing/open-source network monitoring tools into 10-Gb/s networks using libpcap-compatible API library



- Open-source monitoring tools
- Existing monitoring software
  - Non-sampling packet capturing,
  - NetFlow probes, traffic statistics reporting

High-end, advanced traffic monitoring tools

- in-service QoS monitor,
- high-speed traffic playback

Libpcap-compatible API library

NM10G API library

provides raw software interface

Linux kernel

NM10G NIC device driver

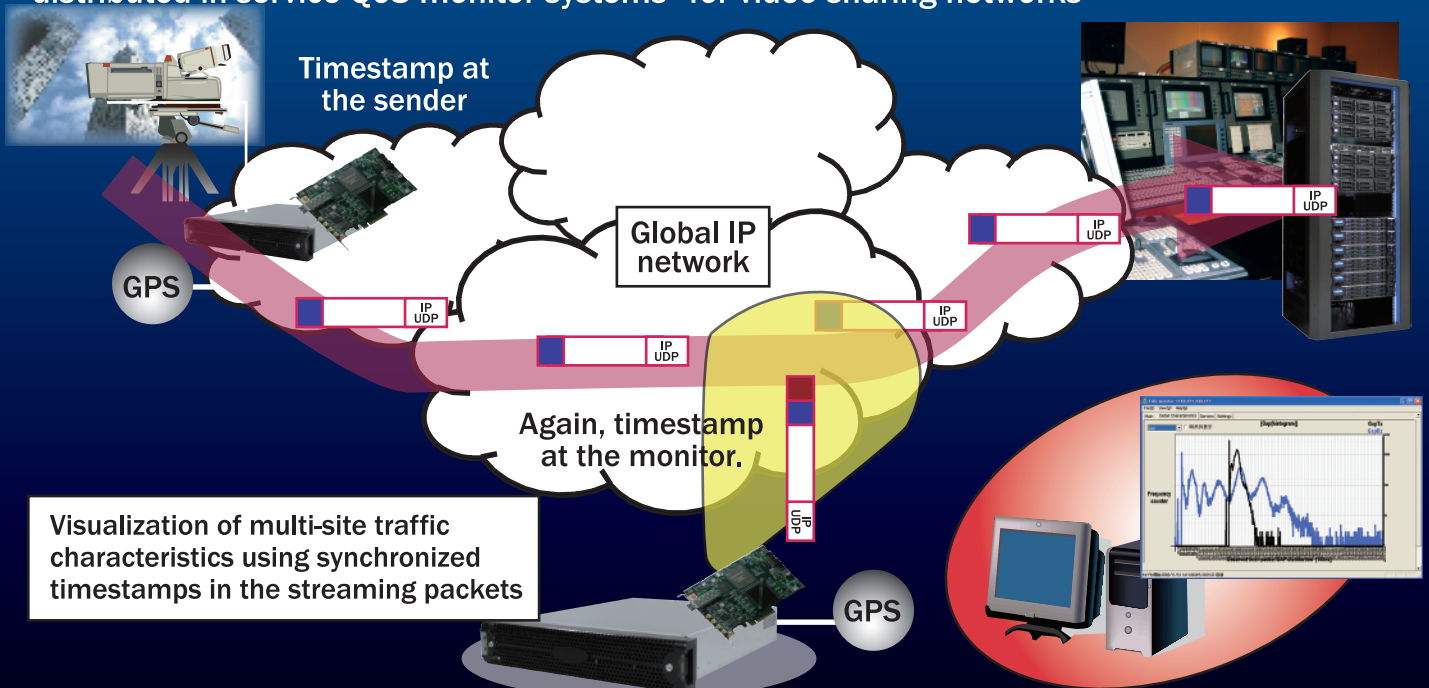
NM10G Platform

includes a NM10G network interface card.

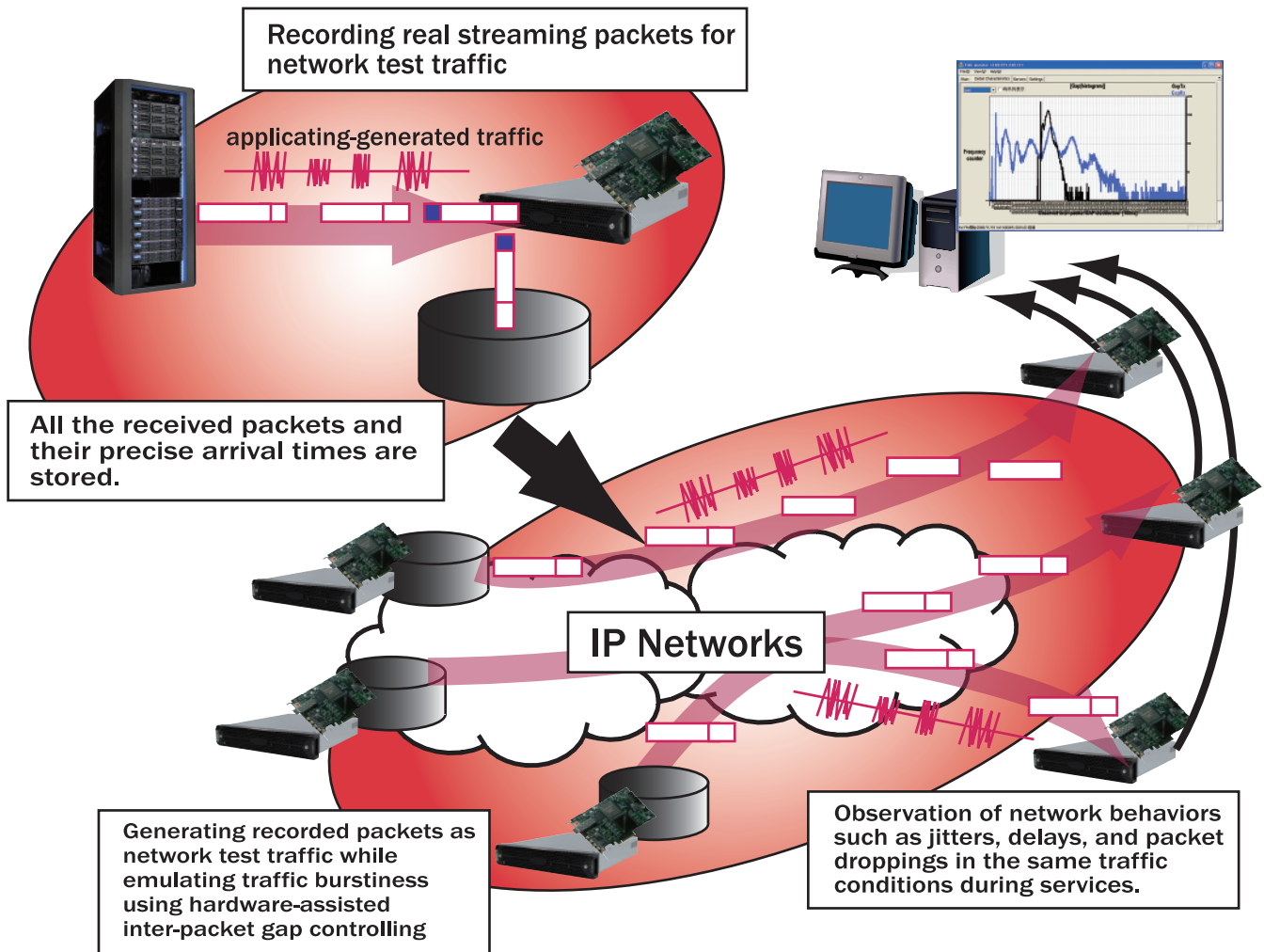
## Applications

It can be applied for a variety of high-speed network monitoring and measurement purposes.

- Traffic quality measurement of IP streams:  
"distributed in-service QoS monitor systems" for video sharing networks

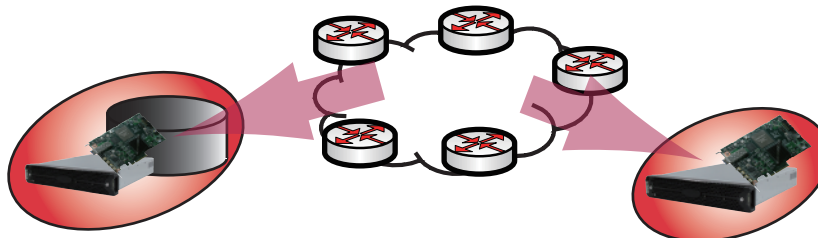


- Network performance evaluation  
"traffic playback systems" for verification of service availability.



- Easy deployment of high-performance network monitoring:  
"Libpcap-compatible API library" for migrating to 10-Gb/s networks.

Only re-compiling open-source and existing network monitoring software based on libpcap-compatible API library enables one to take advantage of hardware-assisted acceleration of NM10G.



Non-sampling packet capturing and analysis using "tcpdump(\*)".

(\*) <http://www.tcpdump.org/>

Non-sampling NetFlow(\*1) probe for flow analysis using "softflowd(\*2)".

(\*1) RFC3954: Cisco Systems NetFlow Services Export Version 9  
(\*2) [http://en.sourceforge.jp/projects/freshmeat\\_softflowd/](http://en.sourceforge.jp/projects/freshmeat_softflowd/)



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