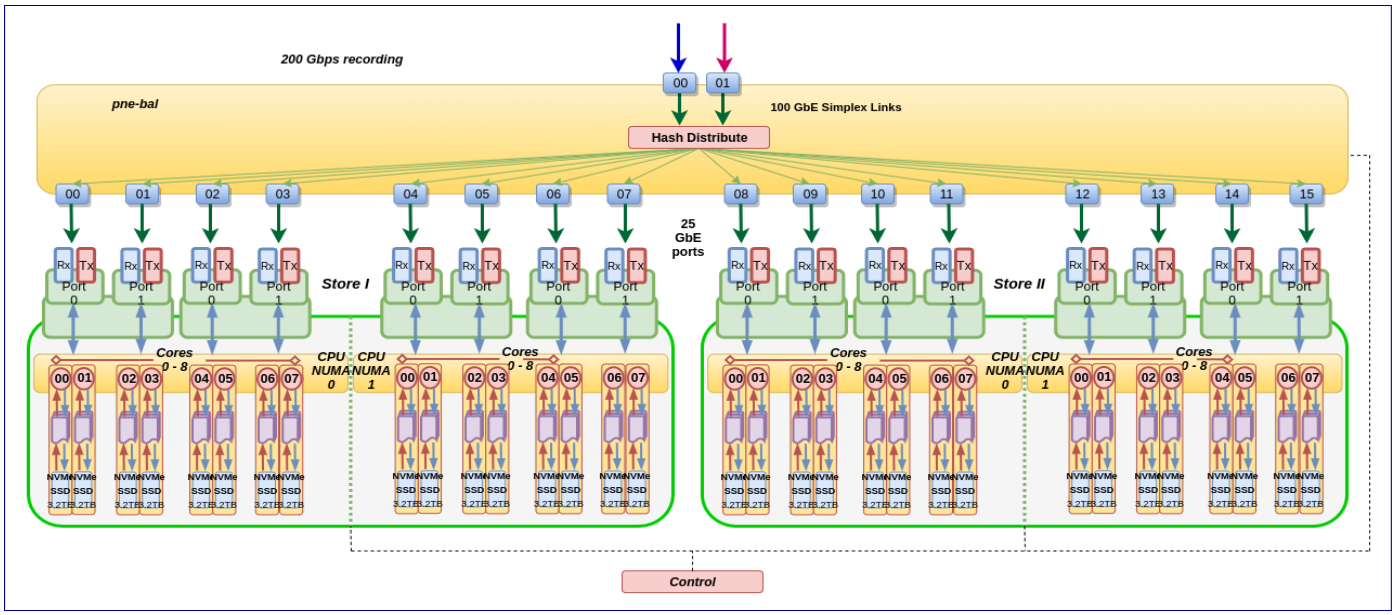


The ps-rapp system captures Ethernet frames via the pne-balancer and distributes them over several egress ports where they are stored to NVMe SSDs in the Store servers. Each frame is tagged with its origin port so that correct synchronization to the port can be done during playback. Bi-directional hash distribution is done on the source and destination IP address such that each stream has flow-affinity

features

- record and playback 25 – 200 Gbps in 25 Gbps chunks

- recorded streams have flow-affinity independence

- up to 24 NVMe SSDs per Store server in 1.6, 3.2 or 6.4 TB

- flexible scaling configurations in:
  - volume
  - duration
  - cost-effective storage media

- greater scaling options using cascaded pne-balancers

- control server for two or more Store servers

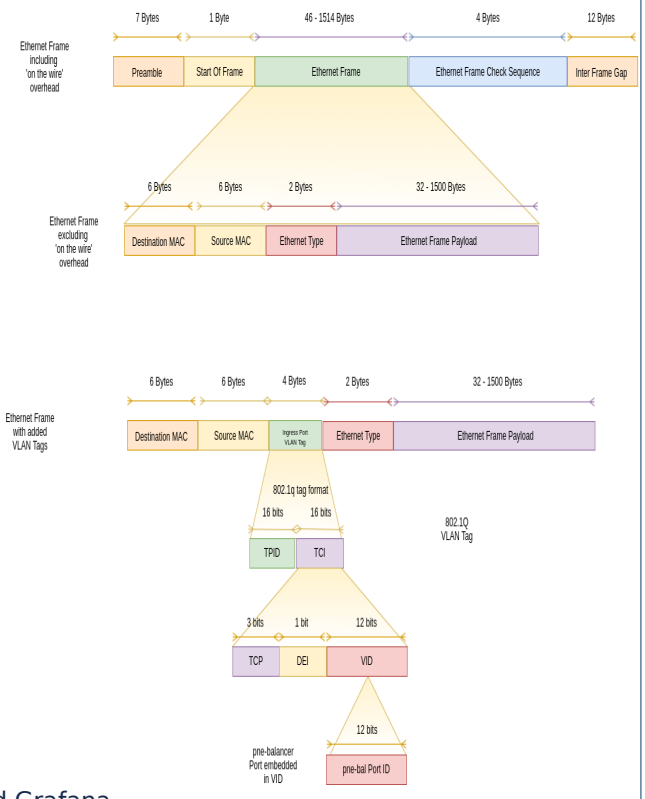
- complete link recording or customized:
  - Layer 2 to Layer 4 filtering
  - black- or white-list filtering

- playback in single-shot or looped mode according to:
  - pcap timestamps
  - throttled to a limit
  - as fast as possible

- CLI interface to control configuration and read statistics

- REST API for third party systems integration

- statistics for ports, ingress and egress traffic to InfluxDB and Grafana



sample configuration – 200 Gbps ~ 100 TB

- one pne-balancer – 2 x 100 GbE ingress, 16 x 25 GbE egress
- two ps-store servers – AMD Epyc servers, 32 x 3.2 TB NVMe SSDs
- minimum record duration – 1 hour at 200 Gbps

connectivity

- QSFP28 SR, LR – 100 GbE
- SFP28 SR, LR – 25 GbE
- DAC – 25 GbE & 100 GbE