

FLEXIBLE PIC CONCENTRATOR (FPC)

CONFIGURATION EXAMPLE:

RESTRICTIONS:

- sFlow sampling on ingress interfaces does not capture CPU-bound traffic
- sFlow sampling on egress interfaces does not support broadcast and multicast packets
- sampling can be configured only on physical interfaces et,xe and etc. to collect samples for LAG configure sflow for each member
- sampling rate can be $N = 1..65535$,
- CPU can handle maximum 9500 samples per second without chance to overload, all samples that exceeds sw rate limiter are dropped

The most accurate sampling rate can be calculated from current performance.

Example:

Current performance is 2Mpps. Then most accurate sampling rate is :
 $9500/2000000 \sim 210$ samples per second

If samples per second rate exceeds SW rate limiter extra samples are dropped and sampling rates(N) are reduced for top five interfaces. The reduced sampling rate is used until the device is rebooted or when a new sampling rate is configured. SW rate limiter can be set to 300..9500 samples per second

```

protocols {
  sflow {
    agent-id 192.168.168.1;
    polling-interval 5;
    sample-rate {
      ingress 1024;
      egress 1024;
    }
    source-ip 192.168.168.1;
    collector 172.31.0.1 {
      udp-port 6343;
    }
    interfaces xe-0/0/70:0.0;
    interfaces xe-0/0/70:1.0;
  }
}

```



n is a number of packets PFE handles on interfaces for which sFlow sampling is configured (ingress, egress)

PFE takes sample from every N packet and sends this sample to FPC CPU. Every sample includes first 128 bytes of packet. Sampling rate N can be individual configured for each interface.