

# Change (Increase) Default ARP Limiter Setting



(Needed config change for DE-CIX Frankfurt Peering LAN | Base = Juniper)

## 0) Background

The size of the DE-CIX peering LAN produces an amount of ARP packets per second (~ 1.000 pps) which is higher than the default setting of a Juniper. To not have session drops, the default number must be changed. Please verify this with your vendor for other used router vendors on base of this Juniper example.

## 1) Verify the Status:

```
> show policer __default_arp_policer__
Policers:
```

Name	Bytes	Packets
__default_arp_policer__	3091706	67211

Means: if there is something different than a "0" for both counters, there are drops. (The default policer is active on all layer3 interfaces.)

## 2) Configure Solution: Create a New Policer for the DE-CIX Peering

```
set firewall policer DECIX-arp if-exceeding bandwidth-limit 2m
set firewall policer DECIX-arp if-exceeding burst-size-limit 2m
set firewall policer DECIX-arp then discard
```

## 3) Activate Solution: Activate Policer on your DE-CIX Peering Interface

```
set interfaces <IF-Name> unit <VLAN-ID> family inet policer arp DECIX-arp
```

Verify the result via "show policer ?" and follow the instruction from section:1.

## 4) Credits and further readings:

- Thanks all who participated at the DE-CIX Tech Mailing List
- <https://de-cix.net/academy> for finding a webinar on the ARP topic
- <https://lkhill.com/juniper-arp-policer/> (find here a long version which were also used as base for this document)

For questions please contact: [support@de-cix.net](mailto:support@de-cix.net)