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:

<table>
<thead>
<tr>
<th>Name</th>
<th>Bytes</th>
<th>Packets</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>default_arp_policer</strong></td>
<td>3091706</td>
<td>67211</td>
</tr>
</tbody>
</table>

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 Policier 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 Policier 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