# batman-adv - Bug #397

# BATMAN\_V throughput on bridge, vxlan and veth

07/29/2019 04:51 PM - Linus Lüssing

Status: New Start date: 07/29/2019

Priority: Normal Due date:

Assignee: batman-adv developers % Done: 0%

Category: Estimated time: 0.00 hour

# Description

For these interfaces, bridge, vxlan and veth, batman-adv currently uses the 1Mbit/s default throughput. Also see:

https://github.com/freifunk-gluon/gluon/issues/1728

For vxlan Matthias is currently working on a patch to inherit the properties from its parent device (similar to what vlan does).

For veth ethtool reports 10Gbit/s, which is way more reasonable value for an in-kernel connection than our 1MBit/s default value:

```
$ ethtool veth0
Settings for veth0:
       Supported ports: [ ]
       Supported link modes: Not reported
       Supported pause frame use: No
       Supports auto-negotiation: No
       Supported FEC modes: Not reported
       Advertised link modes: Not reported
       Advertised pause frame use: No
       Advertised auto-negotiation: No
       Advertised FEC modes: Not reported
       Speed: 10000Mb/s
       Duplex: Full
       Port: Twisted Pair
       PHYAD: 0
       Transceiver: internal
       Auto-negotiation: off
       MDI-X: Unknown
       Link detected: yes
```

However batman-adv uses the default 1MBit/s throughput value due to auto-negotiation being disabled. We could add an exception in batman-adv for veth to disregard the auto-negotiation property, however that would not be sufficient for applications with for instance v(x)lans stacked on top of veth.

For bridge interfaces it is even more tricky.

#### History

### #1 - 07/29/2019 05:00 PM - Linus Lüssing

Approaches that could be worth discussing:

- Should veth be patched to advertise auto-negotiation=on?
- Should batman-adv be patched to disregard auto-negotiation property for veth?
- Should the bridge be patched to advertise the minimum speed of all bridge ports?
- Should there be a user, per hard-iface option in batman-adv to always fetch the speed regardless of the auto-negotiation flag?
- Should the auto-negotiation flag check in batman-adv be removed and instead applying the default throughput to a list of specific interface types, only? (e.g. tap, l2tp, ...)

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