

## batman-adv - Bug #200

### leaking global TT entries

12/13/2014 08:02 AM - Linus Lüssing

<b>Status:</b>	Closed	<b>Start date:</b>	12/13/2014
<b>Priority:</b>	Normal	<b>Due date:</b>	
<b>Assignee:</b>		<b>% Done:</b>	0%
<b>Category:</b>		<b>Estimated time:</b>	0.00 hour
<b>Target version:</b>	2014.4.0		

#### Description

There seems to be a memory leak for global translation table entries:

```
root@Linus-Debian:~# batctl o; batctl tg
[B.A.T.M.A.N. adv 2014.3.0-48-g4383006-dirty, MainIF/MAC: eth1/02:04:64:a4:39:c2 (bat0 BATMAN_IV)]
  Originator      last-seen (#/255)      Nexthop [outgoingIF]:  Potential nexthops ...
No batman nodes in range ...
Globally announced TT entries received via the mesh bat0
  Client          VID  (TTVN)      Originator          (Curr TTVN) (CRC          ) Flags
+ b6:55:75:a2:60:90  -1  ( 1) via 02:04:64:a4:39:c1  ( 1) (0x5416bae1) [....]
+ fa:22:c6:ae:eb:7a  -1  ( 1) via 02:04:64:a4:39:c1  ( 1) (0xf1e21099) [....]
+ 1a:8b:63:a1:19:f8  -1  ( 1) via 02:04:64:a4:39:c1  ( 1) (0x8137a753) [....]
+ f6:04:1d:23:9a:e0  -1  ( 1) via 02:04:64:a4:39:c1  ( 1) (0xf182c149) [....]
```

This not only results in a memory leak for global TT entries but also the associated orig\_node, now in invisible zombie state. Furthermore the leaking orig\_node results in potentially bogus multicast counters (resulting in the multicast optimizations not always activating when they should).

The attached debug patch, basically decreasing intervals, makes it easy to reproduce the issue with the following two nodes setup:

```
[eth0--A--eth1] ~ [eth0--B]
```

(so eth1, the secondary interface, of node A is connected to eth0, the primary interface, of node B)

Running the following command on node A results in a new leak on node B about every two seconds:

```
while true; do
  batctl if del eth1; batctl if del eth0
  sleep 2
  batctl if add eth0; batctl if add eth1
  sleep `echo 0.$((10*$RANDOM/32767))$((10*$RANDOM/32767))$((10*$RANDOM/32767))`
done
```

The log output of node B (batman+route+tt) is attached as well.

#### History

#1 - 12/13/2014 08:05 AM - Linus Lüssing

- Description updated

#2 - 02/18/2015 12:10 PM - Marek Lindner

I do believe we have merged your patch ? Can we close the ticket ?

#3 - 02/19/2015 04:17 PM - Linus Lüssing

Yes, can be closed, got fixed with 2014.4.0. Thanks :)!

**#4 - 02/20/2015 06:47 AM - Marek Lindner**

- Status changed from New to Closed

**#5 - 02/11/2017 08:52 AM - Sven Eckelmann**

- Target version set to 2014.4.0

**Files**

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0001-TT-memory-leak-debug-patch.patch	8.79 KB	12/13/2014	Linus Lüssing
node-B-TT-leak.log	128 KB	12/13/2014	Linus Lüssing