

batman-adv - Bug #221

Collision into tt hash tables

07/24/2015 10:29 AM - Def D

Status: Closed	Start date: 07/24/2015
Priority: Normal	Due date:
Assignee:	% Done: 0%
Category:	Estimated time: 0.00 hour
Target version: 2015.2	
Description	
Using maint branch	
There is a collision in my batman network that counting 5 vlans. A mac addr is not added into tt hash tables because the function <code>batadv_compare_tt</code> does not check vid of mac addr. If a mac exist into several vlans (generaly true) , and the function <code>batadv_choose_tt</code> return the same hash for two couples of mac:vid, then only one is registred.	
This patch work for me	
<pre>static int batadv_compare_tt(const struct hlist_node *node, const void *data2) { const void *data1 = container_of(node, struct batadv_tt_common_entry, hash_entry); - return batadv_compare_eth(data1, data2); + struct batadv_tt_common_entry* tt1 = data1; + struct batadv_tt_common_entry* tt2 = data2; + + return (tt1->vid == tt2->vid) && batadv_compare_eth(data1, data2); }</pre>	

History

#1 - 07/24/2015 12:08 PM - Marek Lindner

Please send patches to the mailing list. Here a few guidelines: [Contribute](#)

Thanks!

#2 - 07/24/2015 01:11 PM - Antonio Quartulli

Actually this does not lead to a "hash collision" (which would only have effects on the performance and therefore would have not been a real bug since hash tables are implemented in a way that takes care of collisions), because the hash function is computed in "`batadv_choose_tt()`".

"`batadv_compare_tt()`" is the routine deciding whether the object found through the hash function is really the one we are looking for or not. Therefore this means that you can have issues only in cases when "`batadv_choose_tt()`" should compute the same hash value for two entries having the same MAC but different VID (this is not impossible but rather unlikely).

This said, the bug report is valid and the fix too (thanks!! :)) but I wanted to clarify on the severity of this bug.

#3 - 07/27/2015 11:02 AM - Def D

Do you want I send my little patch to the mailing list ?
With the title "Fix batadv_compare_tt function"

#4 - 07/27/2015 11:12 AM - Marek Lindner

Def D wrote:

Do you want I send my little patch to the mailing list ?
With the title "Fix batadv_compare_tt function"

Please always send patches to the mailing list. That is were we discuss code submissions.

Thanks!

#5 - 01/29/2016 10:48 AM - Simon Wunderlich

- Status changed from New to Closed

Fixed with release v2015.2

#6 - 02/11/2017 08:44 AM - Sven Eckelmann

- Target version set to 2015.2