qMp (Quick Mesh Project) - Packages - Error #393

Asymetric BMX6 link on ethernet bridge interface

12/08/2016 07:59 PM - Victor Oncins

Status:	Tancat	**Start date:**	12/08/2016
Priority:	Normal	**Due date:**	
Assignee:	Roger Pueyo Centelles	**% Done:**	100%
Category:	Network	**Estimated time:**	0.00 hour
Target version:		**Spent time:**	8.00 hours

Description

This problem is reproduced in Clearance 3.2.1 and Nanostation M5 XM. When LAN and MESH role (12 VID tagged) is selected on wired interface, the BMX6 shows (bmx6 -c links) txRate=0 rxRate=100, so egress tagged frames are not transmitted to adjacent node.

Some tests were done. The original /etc/config/network showed:

config device 'lan_12'
option type '8021q'
option name 'lan_12'
option ifname 'br-lan'
option vid '12'
option proto 'static'

if this section is replaced by:

config device 'lan_12'
option type '8021q'
option name 'lan_12'
option ifname 'eth0'
option vid '12'
option proto 'static'

the problem seems to be solved.

History

#1 - 12/08/2016 11:31 PM - Roger Pueyo Centelles

Víctor,

I see the problem but I can't reproduce it on different hardware (I am using virtual machines as I don't have a NanoStation M5 XM right now). Could it be related to the hardware?

Please, can you attach the /etc/config/qmp, /etc/config/network and /etc/config/bmx6 files? Just to make sure I'm reproducing the same set-up.

#2 - 03/18/2017 12:49 PM - Roger Pueyo Centelles

- Category changed from qMp to Network

- Status changed from Nou to Tancat

- % Done changed from 0 to 100

Until now, when an interface (e.g. eth0) was configured to work as LAN **and** MESH, it was first put inside the br-lan bridge (correct), and then VLAN 12 was created on top of the br-lan interface (wrong). This means that, if another interface was configured to be in the br-lan bridge, it would also be used for meshing even if it wasn't meant to. This is exemplified by the original /etc/config/network excerpt posted above.

Since commit 8d26005ddfac76885c1a851fbf1eb736aa8aabf9, and for the same case as above, VLAN 12 will be created on top of eth0, **not** on top of the br-lan bridge. This will lead to a /etc/config/network configuration matching the second excerpt reported, which is known to be working properly.