

pfSense - Bug #8446

QinQ interfaces are assigned incorrectly

04/08/2018 07:35 PM - Steve Wheeler

Status:	Resolved	Start date:	04/08/2018
Priority:	Normal	Due date:	
Assignee:		% Done:	0%
Category:	Interfaces	Estimated time:	0.00 hour
Target version:	2.4.4		
Affected Version:	2.4.3	Affected Architecture:	All

Description

When creating a QinQ interface in 2.4.3 it is stored in the config correctly and created as an interface as expected:

```
<qinqentry>
  <if>em0</if>
  <tag>100</tag>
  <members>200</members>
  <descr><![CDATA[test wan]]></descr>
  <vlanif>em0.100</vlanif>
</qinqentry>
```

```
em0.100.200: flags=8843<UP,BROADCAST,RUNNING,SIMPLEX,MULTICAST> metric 0 mtu 1500
options=28<VLAN_MTU,JUMBO_MTU>
ether 00:90:7f:87:dc:75
inet6 fe80::290:7fff:fe87:dc75%em0.100.200 prefixlen 64 scopeid 0x10
nd6 options=21<PERFORMNUD,AUTO_LINKLOCAL>
media: Ethernet autoselect (1000baseT <full-duplex>)
status: active
```

But when selecting that device to assign it in the GUI the resulting config is still using the old notation:

```
<opt2>
  <descr><![CDATA[OPT2]]></descr>
  <if>em0.100_200</if>
  <enable></enable>
  <spoofmac></spoofmac>
</opt2>
```

Which results in expected failure:

```
Apr 9 01:03:35 php-fpm 8969 /interfaces_assign.php: The command '/sbin/ifconfig 'em0.100_200' -staticarp ' returned exit code '1', the output was 'ifconfig: interface em0.100_200 does not exist'
Apr 9 01:03:35 php-fpm 8969 /interfaces_assign.php: The command '/usr/sbin/arp -d -i 'em0.100_200' -a > /dev/null 2>&1 ' returned exit code '1', the output was ''
```

That config updated correctly to the new notation and functioned but the GUI showed the parent interface only, see pic. Selecting the expected QinQ port broke the config.

History

#1 - 08/01/2018 07:24 AM - Steve Wheeler

<https://github.com/pfsense/pfsense/pull/3968>

#2 - 08/01/2018 09:05 AM - Jim Pingle

- Target version set to 2.4.4

#3 - 08/03/2018 03:42 PM - Jim Pingle

- Status changed from New to Feedback

PR was merged earlier today.

#4 - 08/07/2018 07:18 PM - Steve Wheeler

This looks good now:

```
<qinqs>
  <qinqentry>
    <if>mvneta0</if>
    <tag>100</tag>
    <members>30</members>
    <descr><![CDATA[Test QinQ]]></descr>
    <vlanif>mvneta0.100</vlanif>
  </qinqentry>
</qinqs>
```

```
<opt5>
  <descr><![CDATA[QinQ]]></descr>
  <if>mvneta0.100.30</if>
  <enable></enable>
  <ipaddr>172.25.56.2</ipaddr>
  <subnet>24</subnet>
  <spoofmac></spoofmac>
</opt5>
```

```
mvneta0.100: flags=8843<UP,BROADCAST,RUNNING,SIMPLEX,MULTICAST> metric 0 mtu 1500
```

```
options=80000<LINKSTATE>
ether 00:08:a2:0c:0b:ba
inet6 fe80::208:a2ff:fe0c:bba%mvneta0.100 prefixlen 64 scopeid 0x11
groups: vlan
vlan: 100 vlanpcp: 0 parent interface: mvneta0
media: Ethernet autoselect (none)
status: no carrier
nd6 options=21<PERFORMNUD,AUTO_LINKLOCAL>
```

```
mvneta0.100.30: flags=8843<UP,BROADCAST,RUNNING,SIMPLEX,MULTICAST> metric 0 mtu 1500
```

```
options=28<VLAN_MTU,JUMBO_MTU>
ether 00:08:a2:0c:0b:ba
inet6 fe80::208:a2ff:fe0c:bba%mvneta0.100.30 prefixlen 64 scopeid 0x12
inet 172.25.56.2 netmask 0xfffff00 broadcast 172.25.56.255
media: Ethernet autoselect (1000baseT <full-duplex>)
status: active
nd6 options=21<PERFORMNUD,AUTO_LINKLOCAL>
```

```
01:23:41.890037 00:08:a2:0c:0b:ba > ff:ff:ff:ff:ff:ff, ethertype 802.1Q (0x8100), length 50: vlan 100, p 0, et
hertype 802.1Q, vlan 30, p 0, ethertype ARP, Ethernet (len 6), IPv4 (len 4), Request who-has 172.25.56.1 tell
172.25.56.2, length 28
```

The only anomaly I'm seeing is that the QinQ interface shows as UP with carrier even when the parent VLAN and it's parent NIC are down.

#5 - 08/08/2018 08:17 AM - Steve Wheeler

- *Status changed from Feedback to Resolved*

Files

Selection_384.png	70.8 KB	04/09/2018	Steve Wheeler
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