
Subject: Re: [PATCH 6/14][RTNL]: Introduce the rtnl_kill_links call.

Posted by [Pavel Emelianov](#) on Fri, 11 Apr 2008 07:39:33 GMT

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```
>> diff --git a/net/core/rtnetlink.c b/net/core/rtnetlink.c
>> index da99ac0..bc39e41 100644
>> --- a/net/core/rtnetlink.c
>> +++ b/net/core/rtnetlink.c
>> @@ -269,6 +269,26 @@ int rtnl_link_register(struct rtnl_link_ops *ops)
>>
>> EXPORT_SYMBOL_GPL(rtnl_link_register);
>>
>> +static void __rtnl_kill_links(struct net *net, struct rtnl_link_ops *ops)
>> +{
>> + struct net_device *dev;
>> +restart:
>> + for_each_netdev(net, dev) {
>> + if (dev->rtnl_link_ops == ops) {
>> + ops->dellink(dev);
>> + goto restart;
>> + }
>> + }
>> +}
>> +}
>> +}
>> +
>> +void rtnl_kill_links(struct net *net, struct rtnl_link_ops *ops)
>> +{
>> + rtnl_lock();
>> + __rtnl_kill_links(net, ops);
>> + rtnl_unlock();
>> +}
>> +EXPORT_SYMBOL_GPL(rtnl_kill_links);
>> +
>> /**
>> * __rtnl_link_unregister - Unregister rtnl_link_ops from rtnetlink.
>> * @ops: struct rtnl_link_ops * to unregister
>> @@ -277,17 +297,10 @@ EXPORT_SYMBOL_GPL(rtnl_link_register);
>> */
>> void __rtnl_link_unregister(struct rtnl_link_ops *ops)
>> {
>> - struct net_device *dev, *n;
>> - struct net *net;
>>
>> - for_each_net(net) {
>> -restart:
>> - for_each_netdev_safe(net, dev, n) {
>> - if (dev->rtnl_link_ops == ops) {
>> - ops->dellink(dev);
>> - goto restart;
>> - }
```

```
>> - }
>> - }
>> + __rtnl_kill_links(net, ops);
>
> This was _safe, and now it's not. Is that intentional?
```

Yup - we goto restart in case we del some link, so there's no need in _safe iteration.

This goto was added by Partick (commit 68365458 [NET]: rtnl_link: fix use-after-free) and I suspect he simply forgot to remove the _safe iterator (I put him in Cc to correct me if I'm wrong).

```
>> }
>> list_del(&ops->list);
>> }
>> --
>> 1.5.3.4
>
```

Containers mailing list
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