Subject: [PATCH 14/17] [NETNS]: Process devinet ioctl in the correct namespace.
Posted by den on Wed, 06 Feb 2008 10:53:34 GMT
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Add namespace parameter to devinet_ioctl and locate device inside it for
a state changes.

Signed-off-by: Denis V. Lunev <den@openvz.org>
---
 include/linux/inetdevice.h | 2 +-
 net/ipv4/af_inet.c | 7 ++++---
 net/ipv4/devinet.c | 6 +++---
 net/ipv4/ipconfig.c | 2 +-
 4 files changed, 9 insertions(+), 8 deletions(-)

```
diff --git a/include/linux/inetdevice.h b/include/linux/inetdevice.h
index fc4e3db..da05ab4 100644
--- a/include/linux/inetdevice.h
+++ b/include/linux/inetdevice.h
@@ -129,7 +129,7 @@ extern int unregister_inetaddr_notifier(struct notifier_block *nb);

 extern struct net_device *ip_dev_find(struct net *net, __be32 addr);
 extern int  inet_addr_onlink(struct in_device *in_dev, __be32 a, __be32 b);
-extern int  devinet_ioctl(unsigned int cmd, void __user *);
+extern int  devinet_ioctl(struct net *net, unsigned int cmd, void __user *);
 extern void  devinet_init(void);
 extern struct in_device *inetdev_by_index(struct net *, int);
 extern __be32  inet_select_addr(const struct net_device *dev, __be32 dst, int scope);
diff --git a/net/ipv4/af_inet.c b/net/ipv4/af_inet.c
index 09ca529..c270080 100644
--- a/net/ipv4/af_inet.c
+++ b/net/ipv4/af_inet.c
@@ -784,6 +784,7 @@ int inet_ioctl(struct socket *sock, unsigned int cmd, unsigned long arg)
 {
  struct sock *sk = sock->sk;
  int err = 0;
+ struct net *net = sk->sk_net;

  switch (cmd) {
   case SIOCGSTAMP:
@@ -795,12 +796,12 @@ int inet_ioctl(struct socket *sock, unsigned int cmd, unsigned long arg)
   case SIOCADDRT:
   case SIOCDELRT:
   case SIOCRTMSG:
-   err = ip_rt_ioctl(sk->sk_net, cmd, (void __user *)arg);
+   err = ip_rt_ioctl(net, cmd, (void __user *)arg);
    break;
   case SIOCDARP:
```

```
   case SIOCGARP:
   case SIOCSARP:
-   err = arp_ioctl(sk->sk_net, cmd, (void __user *)arg);
+   err = arp_ioctl(net, cmd, (void __user *)arg);
    break;
   case SIOCGIFADDR:
   case SIOCSIFADDR:
@@ -813,7 +814,7 @@ int inet_ioctl(struct socket *sock, unsigned int cmd, unsigned long arg)
   case SIOCSIFPFLAGS:
   case SIOCGIFPFLAGS:
   case SIOCSIFFLAGS:
-   err = devinet_ioctl(cmd, (void __user *)arg);
+   err = devinet_ioctl(net, cmd, (void __user *)arg);
    break;
   default:
    if (sk->sk_prot->ioctl)
diff --git a/net/ipv4/devinet.c b/net/ipv4/devinet.c
index f282b26..a06fcae 100644
--- a/net/ipv4/devinet.c
+++ b/net/ipv4/devinet.c
@@ -595,7 +595,7 @@ static __inline__ int inet_abc_len(__be32 addr)
 }


-int devinet_ioctl(unsigned int cmd, void __user *arg)
+int devinet_ioctl(struct net *net, unsigned int cmd, void __user *arg)
 {
  struct ifreq ifr;
  struct sockaddr_in sin_orig;
@@ -624,7 +624,7 @@ int devinet_ioctl(unsigned int cmd, void __user *arg)
   *colon = 0;

 #ifdef CONFIG_KMOD
- dev_load(&init_net, ifr.ifr_name);
+ dev_load(net, ifr.ifr_name);
 #endif

  switch (cmd) {
@@ -665,7 +665,7 @@ int devinet_ioctl(unsigned int cmd, void __user *arg)
  rtnl_lock();

  ret = -ENODEV;
- if ((dev = __dev_get_by_name(&init_net, ifr.ifr_name)) == NULL)
+ if ((dev = __dev_get_by_name(net, ifr.ifr_name)) == NULL)
   goto done;

  if (colon)
diff --git a/net/ipv4/ipconfig.c b/net/ipv4/ipconfig.c
```

```
index a52b585..009d78f 100644
--- a/net/ipv4/ipconfig.c
+++ b/net/ipv4/ipconfig.c
@@ -291,7 +291,7 @@ static int __init ic_dev_ioctl(unsigned int cmd, struct ifreq *arg)

  mm_segment_t oldfs = get_fs();
  set_fs(get_ds());
- res = devinet_ioctl(cmd, (struct ifreq __user *) arg);
+ res = devinet_ioctl(&init_net, cmd, (struct ifreq __user *) arg);
  set_fs(oldfs);
  return res;
 }
--
1.5.3.rc5
```