
Subject: [PATCH net-2.6.25 1/6][NETNS]: Clean out the ipv6-related sysctls creation/destruction

Posted by [Pavel Emelianov](#) on Thu, 10 Jan 2008 13:58:53 GMT

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The addrconf sysctls and neigh sysctls are registered and unregistered always in pairs, so they can be joined into one (well, two) functions, that accept the struct inet6_dev and do all the job.

This also get rids of unneeded ifdefs inside the code.

Signed-off-by: Pavel Emelyanov <xemul@openvz.org>

net/ipv6/addrconf.c | 63 ++++++-----
1 files changed, 34 insertions(+), 29 deletions(-)

diff --git a/net/ipv6/addrconf.c b/net/ipv6/addrconf.c

index 6a48bb8..27b35dd 100644

--- a/net/ipv6/addrconf.c

+++ b/net/ipv6/addrconf.c

@@ -102,7 +102,15 @@

```
#ifdef CONFIG_SYSCTL
static void addrconf_sysctl_register(struct inet6_dev *idev);
-static void addrconf_sysctl_unregister(struct ipv6_devconf *p);
+static void addrconf_sysctl_unregister(struct inet6_dev *idev);
+#else
+static inline void addrconf_sysctl_register(struct inet6_dev *idev)
+{
+}
+
+static inline void addrconf_sysctl_unregister(struct inet6_dev *idev)
+{
+}
#endif

#ifdef CONFIG_IPV6_PRIVACY
@@ -392,13 +400,7 @@ static struct inet6_dev * ipv6_add_dev(struct net_device *dev)

    ipv6_mc_init_dev(ndevice);
    ndev->tstamp = jiffies;
-#ifdef CONFIG_SYSCTL
-    neigh_sysctl_register(dev, ndev->nd_parms, NET_IPV6,
-        NET_IPV6_NEIGH, "ipv6",
-        &ndisc_ifinfo_sysctl_change,
-        NULL);
```

```

    addrconf_sysctl_register(ndev);
-#endif
    /* protected by rtnl_lock */
    rcu_assign_pointer(dev->ip6_ptr, ndev);

@@ -2391,15 +2393,8 @@ static int addrconf_notify(struct notifier_block *this, unsigned long
event,
    case NETDEV_CHANGENAME:
        if (idev) {
            snmp6_unregister_dev(idev);
-#ifdef CONFIG_SYSCTL
-    addrconf_sysctl_unregister(&idev->cnf);
-    neigh_sysctl_unregister(idev->nd_parms);
-    neigh_sysctl_register(dev, idev->nd_parms,
-        NET_IPV6, NET_IPV6_NEIGH, "ipv6",
-        &ndisc_ifinfo_sysctl_change,
-        NULL);
+    addrconf_sysctl_unregister(idev);
+    addrconf_sysctl_register(idev);
-#endif
            err = snmp6_register_dev(idev);
            if (err)
                return notifier_from_errno(err);
@@ -2523,10 +2518,7 @@ static int addrconf_ifdown(struct net_device *dev, int how)
    /* Shot the device (if unregistered) */

    if (how == 1) {
-#ifdef CONFIG_SYSCTL
-    addrconf_sysctl_unregister(&idev->cnf);
-    neigh_sysctl_unregister(idev->nd_parms);
-#endif
+    addrconf_sysctl_unregister(idev);
+    neigh_parms_release(&nd_tbl, idev->nd_parms);
+    neigh_ifdown(&nd_tbl, dev);
+    in6_dev_put(idev);
@@ -4106,21 +4098,34 @@ out:
    return;
}

+static void __addrconf_sysctl_unregister(struct ipv6_devconf *p)
+{
+    struct addrconf_sysctl_table *t;
+
+    if (p->sysctl == NULL)
+        return;
+
+    t = p->sysctl;
+    p->sysctl = NULL;

```

```

+ unregister_sysctl_table(t->sysctl_header);
+ kfree(t->dev_name);
+ kfree(t);
+}
+
static void addrconf_sysctl_register(struct inet6_dev *idev)
{
+ neigh_sysctl_register(idev->dev, idev->nd_parms, NET_IPV6,
+   NET_IPV6_NEIGH, "ipv6",
+   &ndisc_ifinfo_sysctl_change,
+   NULL);
+ __addrconf_sysctl_register(idev->dev->name, idev->dev->ifindex,
+   idev, &idev->cnf);
}

-static void addrconf_sysctl_unregister(struct ipv6_devconf *p)
+static void addrconf_sysctl_unregister(struct inet6_dev *idev)
{
- if (p->sysctl) {
-   struct addrconf_sysctl_table *t = p->sysctl;
-   p->sysctl = NULL;
-   unregister_sysctl_table(t->sysctl_header);
-   kfree(t->dev_name);
-   kfree(t);
- }
+ __addrconf_sysctl_unregister(&idev->cnf);
+ neigh_sysctl_unregister(idev->nd_parms);
}

```

```

@@ -4232,8 +4237,8 @@ void addrconf_cleanup(void)
   unregister_netdevice_notifier(&ipv6_dev_notf);

```

```

#ifdef CONFIG_SYSCTL
- addrconf_sysctl_unregister(&ipv6_devconf_dflt);
- addrconf_sysctl_unregister(&ipv6_devconf);
+ __addrconf_sysctl_unregister(&ipv6_devconf_dflt);
+ __addrconf_sysctl_unregister(&ipv6_devconf);
#endif

```

```

   rtnl_lock();

```

```

--

```

1.5.3.4
