
Subject: [patch 08/38][IPv6] inet6_addr - remove ipv6_get_ifaddr wrapper

Posted by [Daniel Lezcano](#) on Mon, 03 Dec 2007 16:16:44 GMT

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The previous patch introduced a new parameter to the `ipv6_get_ifaddr` function and made a wrapper around it in order to reduce the impact of the patch and to facilitate code review.

This patch removes the wrapper and propagate the function change to all callers.

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```
include/net/addrconf.h | 15 ++++-----
net/ipv6/addrconf.c    | 10 +++++-----
net/ipv6/ip6_output.c  |  3 +-
net/ipv6/ndisc.c       |  9 +++++----
4 files changed, 16 insertions(+), 21 deletions(-)
```

Index: linux-2.6-netns/include/net/addrconf.h

=====

--- linux-2.6-netns.orig/include/net/addrconf.h

+++ linux-2.6-netns/include/net/addrconf.h

```
@@ -66,17 +66,10 @@ extern int  ipv6_chk_addr(struct net *n
#ifdef CONFIG_IPV6_MIP6 || defined(CONFIG_IPV6_MIP6_MODULE)
extern int  ipv6_chk_home_addr(struct in6_addr *addr);
#endif
```

```
-extern struct inet6_ifaddr  *__ipv6_get_ifaddr(struct net *net,
-        struct in6_addr *addr,
-        struct net_device *dev,
-        int strict);
-
```

```
-static inline struct inet6_ifaddr *ipv6_get_ifaddr(struct in6_addr *addr,
-        struct net_device *dev,
-        int strict)
```

```
-{
- return __ipv6_get_ifaddr(&init_net, addr, dev, strict);
-}
```

```
+extern struct inet6_ifaddr  *ipv6_get_ifaddr(struct net *net,
+        struct in6_addr *addr,
+        struct net_device *dev,
+        int strict);
```

```
extern int  ipv6_get_saddr(struct dst_entry *dst,
        struct in6_addr *daddr,
```

Index: linux-2.6-netns/net/ipv6/addrconf.c

=====

```

--- linux-2.6-netns.orig/net/ipv6/addrconf.c
+++ linux-2.6-netns/net/ipv6/addrconf.c
@@ -1223,8 +1223,8 @@ int ipv6_chk_same_addr(struct net *net,
    return ifp != NULL;
}

-struct inet6_ifaddr * __ipv6_get_ifaddr(struct net *net, struct in6_addr *addr,
-    struct net_device *dev, int strict)
+struct inet6_ifaddr *ipv6_get_ifaddr(struct net *net, struct in6_addr *addr,
+    struct net_device *dev, int strict)
{
    struct inet6_ifaddr * ifp;
    u8 hash = ipv6_addr_hash(addr);
@@ -1715,7 +1715,7 @@ void addrconf_prefix_rcv(struct net_devi

```

ok:

```

- ifp = ipv6_get_ifaddr(&addr, dev, 1);
+ ifp = ipv6_get_ifaddr(dev->nd_net, &addr, dev, 1);

    if (ifp == NULL && valid_lft) {
        int max_addresses = in6_dev->cnf.max_addresses;
@@ -3103,7 +3103,7 @@ inet6_rtm_newaddr(struct sk_buff *skb, s
    /* We ignore other flags so far. */
    ifa_flags = ifm->ifa_flags & (IFA_F_NODAD | IFA_F_HOMEADDRESS);

- ifa = ipv6_get_ifaddr(pfx, dev, 1);
+ ifa = ipv6_get_ifaddr(net, pfx, dev, 1);
    if (ifa == NULL) {
        /*
         * It would be best to check for !NLM_F_CREATE here but
@@ -3410,7 +3410,7 @@ static int inet6_rtm_getaddr(struct sk_b
    if (ifm->ifa_index)
        dev = __dev_get_by_index(&init_net, ifm->ifa_index);

- if ((ifa = ipv6_get_ifaddr(addr, dev, 1)) == NULL) {
+ if ((ifa = ipv6_get_ifaddr(net, addr, dev, 1)) == NULL) {
    err = -EADDRNOTAVAIL;
    goto errout;
}

```

Index: linux-2.6-netns/net/ipv6/ip6_output.c

```

=====
--- linux-2.6-netns.orig/net/ipv6/ip6_output.c
+++ linux-2.6-netns/net/ipv6/ip6_output.c
@@ -936,7 +936,8 @@ static int ip6_dst_lookup_tail(struct so
    struct flowi fl_gw;
    int redirect;

```

```

- ifp = ipv6_get_ifaddr(&fl->fl6_src, (*dst)->dev, 1);
+ ifp = ipv6_get_ifaddr(&init_net, &fl->fl6_src,
+     (*dst)->dev, 1);

    redirect = (ifp && ifp->flags & IFA_F_OPTIMISTIC);
    if (ifp)
Index: linux-2.6-netns/net/ipv6/ndisc.c
=====
--- linux-2.6-netns.orig/net/ipv6/ndisc.c
+++ linux-2.6-netns/net/ipv6/ndisc.c
@@ -557,7 +557,7 @@ static void ndisc_send_na(struct net_dev
};

/* for anycast or proxy, solicited_addr != src_addr */
- ifp = ipv6_get_ifaddr(solicited_addr, dev, 1);
+ ifp = ipv6_get_ifaddr(&init_net, solicited_addr, dev, 1);
if (ifp) {
    src_addr = solicited_addr;
    if (ifp->flags & IFA_F_OPTIMISTIC)
@@ -617,7 +617,8 @@ void ndisc_send_rs(struct net_device *de
    * suppress the inclusion of the sllao.
    */
    if (send_sllao) {
- struct inet6_ifaddr *ifp = ipv6_get_ifaddr(saddr, dev, 1);
+ struct inet6_ifaddr *ifp = ipv6_get_ifaddr(&init_net, saddr,
+     dev, 1);
    if (ifp) {
        if (ifp->flags & IFA_F_OPTIMISTIC) {
            send_sllao = 0;
@@ -742,7 +743,7 @@ static void ndisc_rcv_ns(struct sk_buff

    inc = ipv6_addr_is_multicast(daddr);

- if ((ifp = ipv6_get_ifaddr(&msg->target, dev, 1)) != NULL) {
+ if ((ifp = ipv6_get_ifaddr(&init_net, &msg->target, dev, 1)) != NULL) {

    if (ifp->flags & (IFA_F_TENTATIVE|IFA_F_OPTIMISTIC)) {
        if (dad) {
@@ -900,7 +901,7 @@ static void ndisc_rcv_na(struct sk_buff
    return;
}
}
- if ((ifp = ipv6_get_ifaddr(&msg->target, dev, 1))) {
+ if ((ifp = ipv6_get_ifaddr(&init_net, &msg->target, dev, 1))) {
    if (ifp->flags & IFA_F_TENTATIVE) {
        addrconf_dad_failure(ifp);
        return;

```

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