
Subject: [patch 28/38][IPV6] route6 - Pass network namespace to
rt6_add_route_info and rt6_get_route_info
Posted by [Daniel Lezcano](#) on Mon, 03 Dec 2007 16:17:04 GMT
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Add a network namespace parameter to rt6_add_route_info() and
rt6_get_route_info to enable them to handle multiple network namespaces.

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net/ipv6/route.c | 25 ++++++-----
1 file changed, 17 insertions(+), 8 deletions(-)

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

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--- linux-2.6-netns.orig/net/ipv6/route.c

+++ linux-2.6-netns/net/ipv6/route.c

@@ -95,10 +95,12 @@ static void ip6_link_failure(struct sk_
static void ip6_rt_update_pmtu(struct dst_entry *dst, u32 mtu);

#ifdef CONFIG_IPV6_ROUTE_INFO
-static struct rt6_info *rt6_add_route_info(struct in6_addr *prefix, int prefixlen,
+static struct rt6_info *rt6_add_route_info(struct net *net,
+ struct in6_addr *prefix, int prefixlen,
+ struct in6_addr *gwaddr, int ifindex,
+ unsigned pref);
-static struct rt6_info *rt6_get_route_info(struct in6_addr *prefix, int prefixlen,
+static struct rt6_info *rt6_get_route_info(struct net *net,
+ struct in6_addr *prefix, int prefixlen,
+ struct in6_addr *gwaddr, int ifindex);
#endif

@@ -442,6 +444,7 @@ static struct rt6_info *rt6_select(struc
int rt6_route_rcv(struct net_device *dev, u8 *opt, int len,
 struct in6_addr *gwaddr)
{
+ struct net *net = dev->nd_net;
 struct route_info *rinfo = (struct route_info *) opt;
 struct in6_addr prefix_buf, *prefix;
 unsigned int pref;
@@ -489,7 +492,8 @@ int rt6_route_rcv(struct net_device *dev
 prefix = &prefix_buf;
}

- rt = rt6_get_route_info(prefix, rinfo->prefix_len, gwaddr, dev->ifindex);
+ rt = rt6_get_route_info(net, prefix, rinfo->prefix_len, gwaddr,
+ dev->ifindex);

```

if (rt && !lifetime) {
    ip6_del_rt(rt);
@@ -497,7 +501,7 @@ int rt6_route_rcv(struct net_device *dev
}

if (!rt && lifetime)
- rt = rt6_add_route_info(prefix, rinfo->prefix_len, gwaddr, dev->ifindex,
+ rt = rt6_add_route_info(net, prefix, rinfo->prefix_len, gwaddr, dev->ifindex,
    pref);
else if (rt)
    rt->rt6i_flags = RTF_ROUTEINFO |
@@ -1592,14 +1596,15 @@ static struct rt6_info * ip6_rt_copy(str
}

#ifdef CONFIG_IPV6_ROUTE_INFO
-static struct rt6_info *rt6_get_route_info(struct in6_addr *prefix, int prefixlen,
+static struct rt6_info *rt6_get_route_info(struct net *net,
+    struct in6_addr *prefix, int prefixlen,
+    struct in6_addr *gwaddr, int ifindex)
{
    struct fib6_node *fn;
    struct rt6_info *rt = NULL;
    struct fib6_table *table;

- table = fib6_get_table(&init_net, RT6_TABLE_INFO);
+ table = fib6_get_table(net, RT6_TABLE_INFO);
    if (table == NULL)
        return NULL;

@@ -1623,7 +1628,8 @@ out:
    return rt;
}

-static struct rt6_info *rt6_add_route_info(struct in6_addr *prefix, int prefixlen,
+static struct rt6_info *rt6_add_route_info(struct net *net,
+    struct in6_addr *prefix, int prefixlen,
+    struct in6_addr *gwaddr, int ifindex,
+    unsigned pref)
{
@@ -1634,6 +1640,9 @@ static struct rt6_info *rt6_add_route_in
    .fc_dst_len = prefixlen,
    .fc_flags = RTF_GATEWAY | RTF_ADDRCONF | RTF_ROUTEINFO |
        RTF_UP | RTF_PREF(pref),
+    .fc_nlninfo.pid = 0,
+    .fc_nlninfo.nlh = NULL,
+    .fc_nlninfo.net = net,
};

```

```
    ipv6_addr_copy(&cfg.fc_dst, prefix);  
@@ -1645,7 +1654,7 @@ static struct rt6_info *rt6_add_route_in  
  
    ip6_route_add(&cfg);  
  
- return rt6_get_route_info(prefix, prefixlen, gwaddr, ifindex);  
+ return rt6_get_route_info(net, prefix, prefixlen, gwaddr, ifindex);  
}  
#endif
```

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