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Subject: [PATCH net-2.6.25 1/3][ARP] Minus one level of indentation in arp\_req\_set  
Posted by [Pavel Emelianov](#) on Wed, 05 Dec 2007 17:15:02 GMT

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The ATF\_PUBL requests are handled completely separate from the others. Emphasize it with a separate function. This also reduces the indentation level.

The same issue exists with the arp\_delete\_request, but when I tried to make it in one patch diff produced completely unreadable patch. So I split it into two, but they may be done with one commit.

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

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```
diff --git a/net/ipv4/arp.c b/net/ipv4/arp.c
index b3f366a..d628e6e 100644
```

```
--- a/net/ipv4/arp.c
```

```
+++ b/net/ipv4/arp.c
```

```
@ @ -953,37 +953,45 @ @ out_of_mem:
```

```
 * Set (create) an ARP cache entry.
```

```
 */
```

```
+static int arp_req_set_public(struct arpreq *r, struct net_device *dev)
+{
+  __be32 ip = ((struct sockaddr_in *)&r->arp_pa)->sin_addr.s_addr;
+  __be32 mask = ((struct sockaddr_in *)&r->arp_netmask)->sin_addr.s_addr;
+
+  if (mask && mask != htonl(0xFFFFFFFF))
+    return -EINVAL;
+  if (!dev && (r->arp_flags & ATF_COM)) {
+    dev = dev_getbyhwaddr(&init_net, r->arp_ha.sa_family,
+      r->arp_ha.sa_data);
+    if (!dev)
+      return -ENODEV;
+  }
+  if (mask) {
+    if (pneigh_lookup(&arp_tbl, &ip, dev, 1) == NULL)
+      return -ENOBUFS;
+    return 0;
+  }
+  if (dev == NULL) {
+    IPV4_DEVCONF_ALL(PROXY_ARP) = 1;
+    return 0;
+  }
+  if (__in_dev_get_rtnl(dev)) {
```

```

+ IN_DEV_CONF_SET(__in_dev_get_rtnl(dev), PROXY_ARP, 1);
+ return 0;
+ }
+ return -ENXIO;
+}
+
static int arp_req_set(struct arpreq *r, struct net_device * dev)
{
- __be32 ip = ((struct sockaddr_in *) &r->arp_pa)->sin_addr.s_addr;
+ __be32 ip;
    struct neighbour *neigh;
    int err;

- if (r->arp_flags & ATF_PUBL) {
-     __be32 mask = ((struct sockaddr_in *) &r->arp_netmask)->sin_addr.s_addr;
-     if (mask && mask != htonl(0xFFFFFFFF))
-         return -EINVAL;
-     if (!dev && (r->arp_flags & ATF_COM)) {
-         dev = dev_getbyhwaddr(&init_net, r->arp_ha.sa_family, r->arp_ha.sa_data);
-         if (!dev)
-             return -ENODEV;
-     }
-     if (mask) {
-         if (pneigh_lookup(&arp_tbl, &ip, dev, 1) == NULL)
-             return -ENOBUFS;
-         return 0;
-     }
-     if (dev == NULL) {
-         IPV4_DEVCONF_ALL(PROXY_ARP) = 1;
-         return 0;
-     }
-     if (__in_dev_get_rtnl(dev)) {
-         IN_DEV_CONF_SET(__in_dev_get_rtnl(dev), PROXY_ARP, 1);
-         return 0;
-     }
-     return -ENXIO;
- }
+ if (r->arp_flags & ATF_PUBL)
+     return arp_req_set_public(r, dev);

+ ip = ((struct sockaddr_in *)&r->arp_pa)->sin_addr.s_addr;
+ if (r->arp_flags & ATF_PERM)
+     r->arp_flags |= ATF_COM;
+ if (dev == NULL) {
--
1.5.3.4

```

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