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Subject: [PATCH RFC 19/31] net: sysfs interface support for moving devices between network namespaces.

Posted by [ebiederm](#) on Thu, 25 Jan 2007 19:00:21 GMT

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From: Eric W. Biederman <[ebiederm@xmission.com](mailto:ebiederm@xmission.com)> - unquoted

I haven't a clue if this interface will meet with widespread approval but at this point it is simple, and very useful.

Signed-off-by: Eric W. Biederman <[ebiederm@xmission.com](mailto:ebiederm@xmission.com)>

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net/core/net-sysfs.c | 35 ++++++-----  
1 files changed, 35 insertions(+), 0 deletions(-)

```
diff --git a/net/core/net-sysfs.c b/net/core/net-sysfs.c
index 1be6f94..f8a5c6b 100644
--- a/net/core/net-sysfs.c
+++ b/net/core/net-sysfs.c
@@ -188,6 +188,40 @@ static ssize_t store_mtu(struct class_device *cd, const char *buf, size_t len)
    return netdev_store(cd, buf, len, change_mtu);
}

+static ssize_t show_new_ns_pid(struct class_device *cd, char *buf)
+{
+    return -EPERM;
+
+static int change_new_ns_pid(struct net_device *dev, unsigned long new_ns_pid)
+{
+    struct task_struct *tsk;
+    int err;
+    net_t net;
+    /* Look up the network namespace */
+    err = -ESRCH;
+    rCU_read_lock();
+    tsk = find_task_by_pid(new_ns_pid);
+    if (tsk) {
+        task_lock(tsk);
+        if (tsk->nsproxy) {
+            err = 0;
+            net = get_net(tsk->nsproxy->net_ns);
+        }
+        task_unlock(tsk);
+    }
+    rCU_read_unlock();
+    /* If I found a network namespace move the device */
+    if (!err) {
```

```

+ err = dev_change_net_namespace(dev, net, NULL);
+ put_net(net);
+
+ return err;
+}
+static ssize_t store_new_ns_pid(struct class_device *cd, const char *buf, size_t len)
+{
+ return netdev_store(cd, buf, len, change_new_ns_pid);
+}
+
NETDEVICE_SHOW(flags, fmt_hex);

static int change_flags(struct net_device *dev, unsigned long new_flags)
@@ -243,6 +277,7 @@ static struct class_device_attribute net_class_attributes[] = {
 __ATTR(tx_queue_len, S_IRUGO | S_IWUSR, show_tx_queue_len,
       store_tx_queue_len),
 __ATTR(weight, S_IRUGO | S_IWUSR, show_weight, store_weight),
+ __ATTR(new_ns_pid, S_IWUSR, show_new_ns_pid, store_new_ns_pid),
 {}
};

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```

1.4.4.1.g278f

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Containers mailing list  
 Containers@lists.osdl.org  
<https://lists.osdl.org/mailman/listinfo/containers>

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