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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  
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<https://lists.osdl.org/mailman/listinfo/containers>

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