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Subject: [PATCH RFC 23/31] net: Modify all rtnetlink methods to only work in the initial namespace

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

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

Before I can enable rtnetlink to work in all network namespaces I need to be certain that something won't break. So this patch deliberately disables all of the methods and when they are audited this extra check can be disabled.

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

---

```
net/bridge/br_netlink.c | 9 ++++++++
net/core/fib_rules.c    | 7 ++++++
net/core/neighbour.c    | 18 ++++++
net/core/rtnetlink.c    | 13 ++++++
net/decnet/dn_dev.c     | 12 ++++++
net/decnet/dn_fib.c     | 8 ++++++
net/decnet/dn_route.c   | 8 ++++++
net/decnet/dn_rules.c   | 5 +++++
net/decnet/dn_table.c   | 4 ++++
net/ipv4/devinet.c      | 12 ++++++
net/ipv4/fib_frontend.c | 12 ++++++
net/ipv4/fib_rules.c    | 5 +++++
net/ipv6/addrconf.c     | 31 ++++++
net/ipv6/fib6_rules.c   | 5 +++++
net/ipv6/ip6_fib.c      | 4 ++++
net/ipv6/route.c        | 12 ++++++
net/sched/act_api.c     | 8 ++++++
net/sched/cls_api.c     | 8 ++++++
net/sched/sch_api.c     | 20 ++++++
19 files changed, 201 insertions(+), 0 deletions(-)
```

```
diff --git a/net/bridge/br_netlink.c b/net/bridge/br_netlink.c
```

```
index 119b97d..85165a1 100644
```

```
--- a/net/bridge/br_netlink.c
```

```
+++ b/net/bridge/br_netlink.c
```

```
@@ -14,6 +14,7 @@
```

```
#include <linux/rtnetlink.h>
```

```
#include <net/netlink.h>
```

```
#include <net/net_namespace.h>
```

```
+#include <net/sock.h>
```

```
#include "br_private.h"
```

```
static inline size_t br_nlmsg_size(void)
```

```
@@ -104,9 +105,13 @@ errout:
```

```

*/
static int br_dump_ifinfo(struct sk_buff *skb, struct netlink_callback *cb)
{
+ net_t net = skb->sk->sk_net;
  struct net_device *dev;
  int idx;

+ if (!net_eq(net, init_net()))
+ return 0;
+
  read_lock(&per_net(dev_base_lock, init_net()));
  for (dev = per_net(dev_base, init_net()), idx = 0; dev; dev = dev->next) {
    /* not a bridge port */
@@ -133,12 +138,16 @@ skip:
*/
static int br_rtm_setlink(struct sk_buff *skb, struct nlmsg_hdr *nlh, void *arg)
{
+ net_t net = skb->sk->sk_net;
  struct ifinfomsg *ifm;
  struct nlattr *protinfo;
  struct net_device *dev;
  struct net_bridge_port *p;
  u8 new_state;

+ if (!net_eq(net, init_net()))
+ return -EINVAL;
+
  if (nlmsg_len(nlh) < sizeof(*ifm))
    return -EINVAL;

diff --git a/net/core/fib_rules.c b/net/core/fib_rules.c
index 2fa2708..00b4148 100644
--- a/net/core/fib_rules.c
+++ b/net/core/fib_rules.c
@@ -163,6 +163,9 @@ int fib_nl_newrule(struct sk_buff *skb, struct nlmsg_hdr *nlh, void *arg)
  struct nlattr *tb[FRA_MAX+1];
  int err = -EINVAL;

+ if (!net_eq(net, init_net()))
+ return -EINVAL;
+
  if (nlh->nlmsg_len < nlmsg_msg_size(sizeof(*frh)))
    goto errout;

@@ -244,12 +247,16 @@ errout:

int fib_nl_delrule(struct sk_buff *skb, struct nlmsg_hdr *nlh, void *arg)
{

```

```

+ net_t net = skb->sk->sk_net;
  struct fib_rule_hdr *frh = nlmsg_data(nlh);
  struct fib_rules_ops *ops = NULL;
  struct fib_rule *rule;
  struct nlattr *tb[FRA_MAX+1];
  int err = -EINVAL;

+ if (!net_eq(net, init_net()))
+ return -EINVAL;
+
  if (nlh->nlmsg_len < nlmsg_msg_size(sizeof(*frh)))
    goto errout;

diff --git a/net/core/neighbour.c b/net/core/neighbour.c
index f5d4f92..d89c6fe 100644
--- a/net/core/neighbour.c
+++ b/net/core/neighbour.c
@@ -1445,6 +1445,9 @@ int neigh_delete(struct sk_buff *skb, struct nlmsg_hdr *nlh, void *arg)
  struct net_device *dev = NULL;
  int err = -EINVAL;

+ if (!net_eq(net, init_net()))
+ return -EINVAL;
+
  if (nlmsg_len(nlh) < sizeof(*ndm))
    goto out;

@@ -1511,6 +1514,9 @@ int neigh_add(struct sk_buff *skb, struct nlmsg_hdr *nlh, void *arg)
  struct net_device *dev = NULL;
  int err;

+ if (!net_eq(net, init_net()))
+ return -EINVAL;
+
  err = nlmsg_parse(nlh, sizeof(*ndm), tb, NDA_MAX, NULL);
  if (err < 0)
    goto out;
@@ -1783,11 +1789,15 @@ static struct nla_policy nl_ntbl_parm_policy[NDTPA_MAX+1]
__read_mostly = {

int neightbl_set(struct sk_buff *skb, struct nlmsg_hdr *nlh, void *arg)
{
+ net_t net = skb->sk->sk_net;
  struct neigh_table *tbl;
  struct ndtmsg *ndtmsg;
  struct nlattr *tb[NDTA_MAX+1];
  int err;

```

```

+ if (!net_eq(net, init_net()))
+ return -EINVAL;
+
err = nlmsg_parse(nlh, sizeof(*ndtmsg), tb, NDTA_MAX,
nl_neightbl_policy);
if (err < 0)
@@ -1907,11 +1917,15 @@ errout:

int neightbl_dump_info(struct sk_buff *skb, struct netlink_callback *cb)
{
+ net_t net = skb->sk->sk_net;
int family, tidx, nidx = 0;
int tbl_skip = cb->args[0];
int neigh_skip = cb->args[1];
struct neigh_table *tbl;

+ if (!net_eq(net, init_net()))
+ return 0;
+
family = ((struct rtgenmsg *) nlmsg_data(cb->nlh))->rtgen_family;

read_lock(&neigh_tbl_lock);
@@ -2030,9 +2044,13 @@ out:

int neigh_dump_info(struct sk_buff *skb, struct netlink_callback *cb)
{
+ net_t net = skb->sk->sk_net;
struct neigh_table *tbl;
int t, family, s_t;

+ if (!net_eq(net, init_net()))
+ return 0;
+
read_lock(&neigh_tbl_lock);
family = ((struct rtgenmsg *) nlmsg_data(cb->nlh))->rtgen_family;
s_t = cb->args[0];
diff --git a/net/core/rtnetlink.c b/net/core/rtnetlink.c
index 5ac07a0..9be586c 100644
--- a/net/core/rtnetlink.c
+++ b/net/core/rtnetlink.c
@@ -395,6 +395,9 @@ static int rtnl_dump_ifinfo(struct sk_buff *skb, struct netlink_callback *cb)
int s_idx = cb->args[0];
struct net_device *dev;

+ if (!net_eq(net, init_net()))
+ return 0;
+
read_lock(&per_net(dev_base_lock, net));

```

```

for (dev=per_net(dev_base, net), idx=0; dev; dev = dev->next, idx++) {
    if (idx < s_idx)
@@ -429,6 +432,9 @@ static int rtnl_setlink(struct sk_buff *skb, struct nlmsghdr *nlh, void *arg)
    struct nlattr *tb[IFLA_MAX+1];
    char ifname[IFNAMSIZ];

+ if (!net_eq(net, init_net()))
+ return -EINVAL;
+
    err = nlmsg_parse(nlh, sizeof(*ifm), tb, IFLA_MAX, ifla_policy);
    if (err < 0)
        goto errout;
@@ -602,6 +608,9 @@ static int rtnl_getlink(struct sk_buff *skb, struct nlmsghdr* nlh, void *arg)
    int iw_buf_len = 0;
    int err;

+ if (!net_eq(net, init_net()))
+ return -EINVAL;
+
    err = nlmsg_parse(nlh, sizeof(*ifm), tb, IFLA_MAX, ifla_policy);
    if (err < 0)
        return err;
@@ -650,9 +659,13 @@ errout:

static int rtnl_dump_all(struct sk_buff *skb, struct netlink_callback *cb)
{
+ net_t net = skb->sk->sk_net;
    int idx;
    int s_idx = cb->family;

+ if (!net_eq(net, init_net()))
+ return 0;
+
    if (s_idx == 0)
        s_idx = 1;
    for (idx=1; idx<NPROTO; idx++) {
diff --git a/net/decnet/dn_dev.c b/net/decnet/dn_dev.c
index c83c8d1..a09275b 100644
--- a/net/decnet/dn_dev.c
+++ b/net/decnet/dn_dev.c
@@ -648,12 +648,16 @@ static struct nla_policy dn_ifa_policy[IFA_MAX+1] __read_mostly = {

static int dn_nl_deladdr(struct sk_buff *skb, struct nlmsghdr *nlh, void *arg)
{
+ net_t net = skb->sk->sk_net;
    struct nlattr *tb[IFA_MAX+1];
    struct dn_dev *dn_db;
    struct ifaddrmsg *ifm;

```

```

    struct dn_ifaddr *ifa, **ifap;
    int err = -EADDRNOTAVAIL;

+ if (!net_eq(net, init_net()))
+ goto errout;
+
    err = nlmsg_parse(nlh, sizeof(*ifm), tb, IFA_MAX, dn_ifa_policy);
    if (err < 0)
        goto errout;
@@ -680,6 +684,7 @@ errout:

static int dn_nl_newaddr(struct sk_buff *skb, struct nlmsghdr *nlh, void *arg)
{
+ net_t net = skb->sk->sk_net;
    struct nlattr *tb[IFA_MAX+1];
    struct net_device *dev;
    struct dn_dev *dn_db;
@@ -687,6 +692,9 @@ static int dn_nl_newaddr(struct sk_buff *skb, struct nlmsghdr *nlh, void
*arg)
    struct dn_ifaddr *ifa;
    int err;

+ if (!net_eq(net, init_net()))
+ return -EINVAL;
+
    err = nlmsg_parse(nlh, sizeof(*ifm), tb, IFA_MAX, dn_ifa_policy);
    if (err < 0)
        return err;
@@ -788,11 +796,15 @@ errout:

static int dn_nl_dump_ifaddr(struct sk_buff *skb, struct netlink_callback *cb)
{
+ net_t net = skb->sk->sk_net;
    int idx, dn_idx = 0, skip_ndevs, skip_naddr;
    struct net_device *dev;
    struct dn_dev *dn_db;
    struct dn_ifaddr *ifa;

+ if (!net_eq(net, init_net()))
+ return 0;
+
    skip_ndevs = cb->args[0];
    skip_naddr = cb->args[1];

diff --git a/net/decnet/dn_fib.c b/net/decnet/dn_fib.c
index cc2ab1f..832e1b4 100644
--- a/net/decnet/dn_fib.c
+++ b/net/decnet/dn_fib.c

```

```
@@ -503,10 +503,14 @@ static int dn_fib_check_attr(struct rtmsg *r, struct rtattr **rta)
```

```
int dn_fib_rtm_delroute(struct sk_buff *skb, struct nlmsg_hdr *nlh, void *arg)
```

```
{
+ net_t net = skb->sk->sk_net;
  struct dn_fib_table *tb;
  struct rtattr **rta = arg;
  struct rtmsg *r = NLMSG_DATA(nlh);
```

```
+ if (!net_eq(net, init_net()))
```

```
+ return -EINVAL;
```

```
+
  if (dn_fib_check_attr(r, rta))
    return -EINVAL;
```

```
@@ -519,10 +523,14 @@ int dn_fib_rtm_delroute(struct sk_buff *skb, struct nlmsg_hdr *nlh, void
*arg)
```

```
int dn_fib_rtm_newroute(struct sk_buff *skb, struct nlmsg_hdr *nlh, void *arg)
```

```
{
+ net_t net = skb->sk->sk_net;
  struct dn_fib_table *tb;
  struct rtattr **rta = arg;
  struct rtmsg *r = NLMSG_DATA(nlh);
```

```
+ if (!net_eq(net, init_net()))
```

```
+ return -EINVAL;
```

```
+
  if (dn_fib_check_attr(r, rta))
    return -EINVAL;
```

```
diff --git a/net/decnet/dn_route.c b/net/decnet/dn_route.c
```

```
index 9669e50..d942ea0 100644
```

```
--- a/net/decnet/dn_route.c
```

```
+++ b/net/decnet/dn_route.c
```

```
@@ -1528,6 +1528,7 @@ rtattr_failure:
```

```
*/
```

```
int dn_cache_getroute(struct sk_buff *in_skb, struct nlmsg_hdr *nlh, void *arg)
```

```
{
+ net_t net = in_skb->sk->sk_net;
  struct rtattr **rta = arg;
  struct rtmsg *rtm = NLMSG_DATA(nlh);
  struct dn_route *rt = NULL;
```

```
@@ -1536,6 +1537,9 @@ int dn_cache_getroute(struct sk_buff *in_skb, struct nlmsg_hdr *nlh,
void *arg)
```

```
  struct sk_buff *skb;
  struct flowi fl;
```

```

+ if (!net_eq(net, init_net()))
+ return -EINVAL;
+
+ memset(&fl, 0, sizeof(fl));
+ fl.proto = DNPROTO_NSP;

@@ -1613,10 +1617,14 @@ out_free:
*/
int dn_cache_dump(struct sk_buff *skb, struct netlink_callback *cb)
{
+ net_t net = skb->sk->sk_net;
+ struct dn_route *rt;
+ int h, s_h;
+ int idx, s_idx;

+ if (!net_eq(net, init_net()))
+ return 0;
+
+ if (NLMSG_PAYLOAD(cb->nlh, 0) < sizeof(struct rtmsg))
+ return -EINVAL;
+ if (!(((struct rtmsg *)NLMSG_DATA(cb->nlh))->rtm_flags&RTM_F_CLONED))
diff --git a/net/decnet/dn_rules.c b/net/decnet/dn_rules.c
index e32d0c3..84eec40 100644
--- a/net/decnet/dn_rules.c
+++ b/net/decnet/dn_rules.c
@@ -243,6 +243,11 @@ static u32 dn_fib_rule_default_pref(void)

int dn_fib_dump_rules(struct sk_buff *skb, struct netlink_callback *cb)
{
+ net_t net = skb->sk->sk_net;
+
+ if (!net_eq(net, init_net()))
+ return 0;
+
+ return fib_rules_dump(skb, cb, AF_DECnet);
}

diff --git a/net/decnet/dn_table.c b/net/decnet/dn_table.c
index 13b2421..3ff151c 100644
--- a/net/decnet/dn_table.c
+++ b/net/decnet/dn_table.c
@@ -459,12 +459,16 @@ static int dn_fib_table_dump(struct dn_fib_table *tb, struct sk_buff
*skb,

int dn_fib_dump(struct sk_buff *skb, struct netlink_callback *cb)
{
+ net_t net = skb->sk->sk_net;
+ unsigned int h, s_h;

```



```

unsigned int e = 0, s_e;
struct dn_fib_table *tb;
struct hlist_node *node;
int dumped = 0;

+ if (!net_eq(net, init_net()))
+ return 0;
+
+ if (NLMSG_PAYLOAD(cb->nlh, 0) >= sizeof(struct rtmsg) &&
+ ((struct rtmsg *)NLMSG_DATA(cb->nlh))->rtm_flags&RTM_F_CLONED)
+ return dn_cache_dump(skb, cb);
diff --git a/net/ipv4/devinet.c b/net/ipv4/devinet.c
index b0d12ec..7769b1c 100644
--- a/net/ipv4/devinet.c
+++ b/net/ipv4/devinet.c
@@ -443,6 +443,7 @@ struct in_ifaddr *inet_ifa_byprefix(struct in_device *in_dev, __be32 prefix,

static int inet_rtm_deladdr(struct sk_buff *skb, struct nlmsg_hdr *nlh, void *arg)
{
+ net_t net = skb->sk->sk_net;
+ struct nlattr *tb[IFA_MAX+1];
+ struct in_device *in_dev;
+ struct ifaddrmsg *ifm;
@@ -451,6 +452,9 @@ static int inet_rtm_deladdr(struct sk_buff *skb, struct nlmsg_hdr *nlh, void
*arg

ASSERT_RTNL();

+ if (!net_eq(net, init_net()))
+ return -EINVAL;
+
+ err = nlmsg_parse(nlh, sizeof(*ifm), tb, IFA_MAX, ifa_ipv4_policy);
+ if (err < 0)
+ goto errout;
@@ -562,10 +566,14 @@ errout:

static int inet_rtm_newaddr(struct sk_buff *skb, struct nlmsg_hdr *nlh, void *arg)
{
+ net_t net = skb->sk->sk_net;
+ struct in_ifaddr *ifa;

ASSERT_RTNL();

+ if (!net_eq(net, init_net()))
+ return -EINVAL;
+
+ ifa = rtm_to_ifaddr(nlh);
+ if (IS_ERR(ifa))

```

```
return PTR_ERR(ifa);
@@ -1173,12 +1181,16 @@ nla_put_failure:
```

```
static int inet_dump_ifaddr(struct sk_buff *skb, struct netlink_callback *cb)
{
+ net_t net = skb->sk->sk_net;
  int idx, ip_idx;
  struct net_device *dev;
  struct in_device *in_dev;
  struct in_ifaddr *ifa;
  int s_ip_idx, s_idx = cb->args[0];

+ if (!net_eq(net, init_net()))
+ return 0;
+
  s_ip_idx = ip_idx = cb->args[1];
  read_lock(&per_net(dev_base_lock, init_net()));
  for (dev = per_net(dev_base, init_net()), idx = 0; dev; dev = dev->next, idx++) {
diff --git a/net/ipv4/fib_frontend.c b/net/ipv4/fib_frontend.c
index 449f42d..0e48fb8 100644
--- a/net/ipv4/fib_frontend.c
+++ b/net/ipv4/fib_frontend.c
@@ -538,10 +538,14 @@ errout:
```

```
int inet_rtm_delroute(struct sk_buff *skb, struct nlmsg_hdr* nlh, void *arg)
{
+ net_t net = skb->sk->sk_net;
  struct fib_config cfg;
  struct fib_table *tb;
  int err;

+ if (!net_eq(net, init_net()))
+ return -EINVAL;
+
  err = rtm_to_fib_config(skb, nlh, &cfg);
  if (err < 0)
    goto errout;
@@ -559,10 +563,14 @@ errout:
```

```
int inet_rtm_newroute(struct sk_buff *skb, struct nlmsg_hdr* nlh, void *arg)
{
+ net_t net = skb->sk->sk_net;
  struct fib_config cfg;
  struct fib_table *tb;
  int err;

+ if (!net_eq(net, init_net()))
+ return -EINVAL;
```

```

+
err = rtm_to_fib_config(skb, nlh, &cfg);
if (err < 0)
    goto errout;
@@ -580,12 +588,16 @@ errout:

int inet_dump_fib(struct sk_buff *skb, struct netlink_callback *cb)
{
+ net_t net = skb->sk->sk_net;
    unsigned int h, s_h;
    unsigned int e = 0, s_e;
    struct fib_table *tb;
    struct hlist_node *node;
    int dumped = 0;

+ if (!net_eq(net, init_net()))
+ return 0;
+
    if (nlmsg_len(cb->nlh) >= sizeof(struct rtmsg) &&
        ((struct rtmsg *) nlmsg_data(cb->nlh))->rtm_flags & RTM_F_CLONED)
        return ip_rt_dump(skb, cb);
diff --git a/net/ipv4/fib_rules.c b/net/ipv4/fib_rules.c
index b837c33..f2c50e0 100644
--- a/net/ipv4/fib_rules.c
+++ b/net/ipv4/fib_rules.c
@@ -279,6 +279,11 @@ nla_put_failure:

int fib4_rules_dump(struct sk_buff *skb, struct netlink_callback *cb)
{
+ net_t net = skb->sk->sk_net;
+
+ if (!net_eq(net, init_net()))
+ return 0;
+
    return fib_rules_dump(skb, cb, AF_INET);
}

diff --git a/net/ipv6/addrconf.c b/net/ipv6/addrconf.c
index 7afe698..83b7312 100644
--- a/net/ipv6/addrconf.c
+++ b/net/ipv6/addrconf.c
@@ -2951,11 +2951,15 @@ static struct nla_policy ifa_ipv6_policy[IFA_MAX+1] __read_mostly
= {
    static int
    inet6_rtm_deladdr(struct sk_buff *skb, struct nlmsg_hdr *nlh, void *arg)
    {
+ net_t net = skb->sk->sk_net;
        struct ifaddrmsg *ifm;

```

```

struct nlattr *tb[IFA_MAX+1];
struct in6_addr *pfx;
int err;

+ if (!net_eq(net, init_net()))
+ return -EINVAL;
+
err = nlmsg_parse(nlh, sizeof(*ifm), tb, IFA_MAX, ifa_ipv6_policy);
if (err < 0)
return err;
@@ -3003,6 +3007,7 @@ static int inet6_addr_modify(struct inet6_ifaddr *ifp, u8 ifa_flags,
static int
inet6_rtm_newaddr(struct sk_buff *skb, struct nlmsg_hdr *nlh, void *arg)
{
+ net_t net = skb->sk->sk_net;
struct ifaddrmsg *ifm;
struct nlattr *tb[IFA_MAX+1];
struct in6_addr *pfx;
@@ -3012,6 +3017,9 @@ inet6_rtm_newaddr(struct sk_buff *skb, struct nlmsg_hdr *nlh, void
*arg)
u8 ifa_flags;
int err;

+ if (!net_eq(net, init_net()))
+ return -EINVAL;
+
err = nlmsg_parse(nlh, sizeof(*ifm), tb, IFA_MAX, ifa_ipv6_policy);
if (err < 0)
return err;
@@ -3278,26 +3286,42 @@ done:

static int inet6_dump_ifaddr(struct sk_buff *skb, struct netlink_callback *cb)
{
+ net_t net = skb->sk->sk_net;
enum addr_type_t type = UNICAST_ADDR;
+
+ if (!net_eq(net, init_net()))
+ return 0;
+
return inet6_dump_addr(skb, cb, type);
}

static int inet6_dump_ifmcaddr(struct sk_buff *skb, struct netlink_callback *cb)
{
+ net_t net = skb->sk->sk_net;
enum addr_type_t type = MULTICAST_ADDR;
+
+ if (!net_eq(net, init_net()))

```

```

+ return 0;
+
return inet6_dump_addr(skb, cb, type);
}

```

```

static int inet6_dump_ifacaddr(struct sk_buff *skb, struct netlink_callback *cb)
{
+ net_t net = skb->sk->sk_net;
enum addr_type_t type = ANYCAST_ADDR;
+
+ if (!net_eq(net, init_net()))
+ return 0;
+
return inet6_dump_addr(skb, cb, type);
}

```

```

static int inet6_rtm_getaddr(struct sk_buff *in_skb, struct nlmsg_hdr* nlh,
void *arg)
{
+ net_t net = in_skb->sk->sk_net;
struct ifaddrmsg *ifm;
struct nlattr *tb[IFA_MAX+1];
struct in6_addr *addr = NULL;
@@ -3306,6 +3330,9 @@ static int inet6_rtm_getaddr(struct sk_buff *in_skb, struct nlmsg_hdr*
nlh,
struct sk_buff *skb;
int err;

+ if (!net_eq(net, init_net()))
+ return -EINVAL;
+
err = nlmsg_parse(nlh, sizeof(*ifm), tb, IFA_MAX, ifa_ipv6_policy);
if (err < 0)
goto errout;
@@ -3472,11 +3499,15 @@ nla_put_failure:

```

```

static int inet6_dump_ifinfo(struct sk_buff *skb, struct netlink_callback *cb)
{
+ net_t net = skb->sk->sk_net;
int idx, err;
int s_idx = cb->args[0];
struct net_device *dev;
struct inet6_dev *idev;

+ if (!net_eq(net, init_net()))
+ return 0;
+

```

```

    read_lock(&per_net(dev_base_lock, init_net()));
    for (dev=per_net(dev_base, init_net()), idx=0; dev; dev = dev->next, idx++) {
        if (idx < s_idx)

```

```

diff --git a/net/ipv6/fib6_rules.c b/net/ipv6/fib6_rules.c

```

```

index 0862809..80d6de6 100644

```

```

--- a/net/ipv6/fib6_rules.c

```

```

+++ b/net/ipv6/fib6_rules.c

```

```

@@ -223,6 +223,11 @@ nla_put_failure:

```

```

int fib6_rules_dump(struct sk_buff *skb, struct netlink_callback *cb)
{
+ net_t net = skb->sk->sk_net;
+
+ if (!net_eq(net, init_net()))
+ return 0;
+
    return fib_rules_dump(skb, cb, AF_INET6);
}

```

```

diff --git a/net/ipv6/ip6_fib.c b/net/ipv6/ip6_fib.c

```

```

index 96d8310..97814ed 100644

```

```

--- a/net/ipv6/ip6_fib.c

```

```

+++ b/net/ipv6/ip6_fib.c

```

```

@@ -362,6 +362,7 @@ end:

```

```

int inet6_dump_fib(struct sk_buff *skb, struct netlink_callback *cb)
{
+ net_t net = skb->sk->sk_net;
+ unsigned int h, s_h;
+ unsigned int e = 0, s_e;
+ struct rt6_rtnl_dump_arg arg;
@@ -370,6 +371,9 @@ int inet6_dump_fib(struct sk_buff *skb, struct netlink_callback *cb)
+ struct hlist_node *node;
+ int res = 0;

+ if (!net_eq(net, init_net()))
+ return 0;
+
+ s_h = cb->args[0];
+ s_e = cb->args[1];

```

```

diff --git a/net/ipv6/route.c b/net/ipv6/route.c

```

```

index 4519006..02fd8ae 100644

```

```

--- a/net/ipv6/route.c

```

```

+++ b/net/ipv6/route.c

```

```

@@ -1985,9 +1985,13 @@ errout:

```

```

int inet6_rtm_delroute(struct sk_buff *skb, struct nlmsg_hdr* nlh, void *arg)

```

```

{
+ net_t net = skb->sk->sk_net;
  struct fib6_config cfg;
  int err;

+ if (!net_eq(net, init_net()))
+ return -EINVAL;
+
  err = rtm_to_fib6_config(skb, nlh, &cfg);
  if (err < 0)
    return err;
@@ -1997,9 +2001,13 @@ int inet6_rtm_delroute(struct sk_buff *skb, struct nlmsg_hdr* nlh, void
*arg)

int inet6_rtm_newroute(struct sk_buff *skb, struct nlmsg_hdr* nlh, void *arg)
{
+ net_t net = skb->sk->sk_net;
  struct fib6_config cfg;
  int err;

+ if (!net_eq(net, init_net()))
+ return -EINVAL;
+
  err = rtm_to_fib6_config(skb, nlh, &cfg);
  if (err < 0)
    return err;
@@ -2132,6 +2140,7 @@ int rt6_dump_route(struct rt6_info *rt, void *p_arg)

int inet6_rtm_getroute(struct sk_buff *in_skb, struct nlmsg_hdr* nlh, void *arg)
{
+ net_t net = in_skb->sk->sk_net;
  struct nlattr *tb[RTA_MAX+1];
  struct rt6_info *rt;
  struct sk_buff *skb;
@@ -2139,6 +2148,9 @@ int inet6_rtm_getroute(struct sk_buff *in_skb, struct nlmsg_hdr* nlh,
void *arg)
  struct flowi fl;
  int err, iif = 0;

+ if (!net_eq(net, init_net()))
+ return -EINVAL;
+
  err = nlmsg_parse(nlh, sizeof(*rtm), tb, RTA_MAX, rtm_ipv6_policy);
  if (err < 0)
    goto errout;
diff --git a/net/sched/act_api.c b/net/sched/act_api.c
index 835070e..18d8f68 100644
--- a/net/sched/act_api.c

```

```
+++ b/net/sched/act_api.c
@@ -942,10 +942,14 @@ done:
```

```
static int tc_ctl_action(struct sk_buff *skb, struct nlmsg_hdr *n, void *arg)
{
+ net_t net = skb->sk->sk_net;
  struct rtattr **tca = arg;
  u32 pid = skb ? NETLINK_CB(skb).pid : 0;
  int ret = 0, ovr = 0;
```

```
+ if (!net_eq(net, init_net()))
+ return -EINVAL;
```

```
+
  if (tca[TCA_ACT_TAB-1] == NULL) {
    printk("tc_ctl_action: received NO action attrs\n");
    return -EINVAL;
```

```
@@ -1015,6 +1019,7 @@ find_dump_kind(struct nlmsg_hdr *n)
static int
tc_dump_action(struct sk_buff *skb, struct netlink_callback *cb)
{
```

```
+ net_t net = skb->sk->sk_net;
  struct nlmsg_hdr *nlh;
  unsigned char *b = skb->tail;
  struct rtattr *x;
```

```
@@ -1024,6 +1029,9 @@ tc_dump_action(struct sk_buff *skb, struct netlink_callback *cb)
  struct tcmsg *t = (struct tcmsg *) NLMSG_DATA(cb->nlh);
  struct rtattr *kind = find_dump_kind(cb->nlh);
```

```
+ if (!net_eq(net, init_net()))
+ return 0;
```

```
+
  if (kind == NULL) {
    printk("tc_dump_action: action bad kind\n");
    return 0;
```

```
diff --git a/net/sched/cls_api.c b/net/sched/cls_api.c
index 19935f9..09a3ec8 100644
```

```
--- a/net/sched/cls_api.c
```

```
+++ b/net/sched/cls_api.c
```

```
@@ -129,6 +129,7 @@ static __inline__ u32 tcf_auto_prio(struct tcf_proto *tp)
```

```
static int tc_ctl_tfilter(struct sk_buff *skb, struct nlmsg_hdr *n, void *arg)
{
```

```
+ net_t net = skb->sk->sk_net;
  struct rtattr **tca;
  struct tcmsg *t;
  u32 protocol;
```

```
@@ -145,6 +146,9 @@ static int tc_ctl_tfilter(struct sk_buff *skb, struct nlmsg_hdr *n, void *arg)
  unsigned long fh;
```



```

int err;

+ if (!net_eq(net, init_net()))
+ return -EINVAL;
+
replay:
    tca = arg;
    t = NLMSG_DATA(n);
@@ -385,6 +389,7 @@ static int tcf_node_dump(struct tcf_proto *tp, unsigned long n, struct
tcf_walke

static int tc_dump_tfilter(struct sk_buff *skb, struct netlink_callback *cb)
{
+ net_t net = skb->sk->sk_net;
    int t;
    int s_t;
    struct net_device *dev;
@@ -395,6 +400,9 @@ static int tc_dump_tfilter(struct sk_buff *skb, struct netlink_callback *cb)
    struct Qdisc_class_ops *cops;
    struct tcf_dump_args arg;

+ if (!net_eq(net, init_net()))
+ return 0;
+
    if (cb->nlh->nlen < NLMSG_LENGTH(sizeof(*tcm)))
        return skb->len;
    if ((dev = dev_get_by_index(init_net(), tcm->tcm_ifindex)) == NULL)
diff --git a/net/sched/sch_api.c b/net/sched/sch_api.c
index 912e8e1..7e33f73 100644
--- a/net/sched/sch_api.c
+++ b/net/sched/sch_api.c
@@ -578,6 +578,7 @@ check_loop_fn(struct Qdisc *q, unsigned long cl, struct qdisc_walker *w)

static int tc_get_qdisc(struct sk_buff *skb, struct nlmsghdr *n, void *arg)
{
+ net_t net = skb->sk->sk_net;
    struct tcmsg *tcm = NLMSG_DATA(n);
    struct rtattr **tca = arg;
    struct net_device *dev;
@@ -586,6 +587,9 @@ static int tc_get_qdisc(struct sk_buff *skb, struct nlmsghdr *n, void *arg)
    struct Qdisc *p = NULL;
    int err;

+ if (!net_eq(net, init_net()))
+ return -EINVAL;
+
    if ((dev = __dev_get_by_index(init_net(), tcm->tcm_ifindex)) == NULL)
        return -ENODEV;

```

```

@@ -639,6 +643,7 @@ static int tc_get_qdisc(struct sk_buff *skb, struct nlmsg_hdr *n, void *arg)

static int tc_modify_qdisc(struct sk_buff *skb, struct nlmsg_hdr *n, void *arg)
{
+ net_t net = skb->sk->sk_net;
  struct tcmsg *tcm;
  struct rtattr **tca;
  struct net_device *dev;
@@ -646,6 +651,9 @@ static int tc_modify_qdisc(struct sk_buff *skb, struct nlmsg_hdr *n, void
*arg)
  struct Qdisc *q, *p;
  int err;

+ if (!net_eq(net, init_net()))
+ return -EINVAL;
+
  replay:
  /* Reinit, just in case something touches this. */
  tcm = NLMSG_DATA(n);
@@ -851,11 +859,15 @@ err_out:

static int tc_dump_qdisc(struct sk_buff *skb, struct netlink_callback *cb)
{
+ net_t net = skb->sk->sk_net;
  int idx, q_idx;
  int s_idx, s_q_idx;
  struct net_device *dev;
  struct Qdisc *q;

+ if (!net_eq(net, init_net()))
+ return 0;
+
  s_idx = cb->args[0];
  s_q_idx = q_idx = cb->args[1];
  read_lock(&per_net(dev_base_lock, init_net()));
@@ -900,6 +912,7 @@ done:

static int tc_ctl_tclass(struct sk_buff *skb, struct nlmsg_hdr *n, void *arg)
{
+ net_t net = skb->sk->sk_net;
  struct tcmsg *tcm = NLMSG_DATA(n);
  struct rtattr **tca = arg;
  struct net_device *dev;
@@ -912,6 +925,9 @@ static int tc_ctl_tclass(struct sk_buff *skb, struct nlmsg_hdr *n, void *arg)
u32 qid = TC_H_MAJ(clid);
  int err;

```

```

+ if (!net_eq(net, init_net()))
+ return -EINVAL;
+
+ if ((dev = __dev_get_by_index(init_net(), tcm->tcm_ifindex)) == NULL)
+ return -ENODEV;

@@ -1086,6 +1102,7 @@ static int qdisc_class_dump(struct Qdisc *q, unsigned long cl, struct
qdisc_walk

static int tc_dump_tclass(struct sk_buff *skb, struct netlink_callback *cb)
{
+ net_t net = skb->sk->sk_net;
+ int t;
+ int s_t;
+ struct net_device *dev;
@@ -1093,6 +1110,9 @@ static int tc_dump_tclass(struct sk_buff *skb, struct netlink_callback
*cb)
+ struct tcmsg *tcm = (struct tcmsg*)NLMSG_DATA(cb->nlh);
+ struct qdisc_dump_args arg;

+ if (!net_eq(net, init_net()))
+ return 0;
+
+ if (cb->nlh->nlmsg_len < NLMSG_LENGTH(sizeof(*tcm)))
+ return 0;
+ if ((dev = dev_get_by_index(init_net(), tcm->tcm_ifindex)) == NULL)
+
--
1.4.4.1.g278f

```

---

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

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