
Subject: [PATCH 12/14][VLAN]: Make vlan_name_type per-net.

Posted by [Pavel Emelianov](#) on Thu, 10 Apr 2008 14:58:19 GMT

[View Forum Message](#) <> [Reply to Message](#)

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

```
net/8021q/vlan.c    | 14 ++++++-----  
net/8021q/vlan.h    |  4 +++-  
net/8021q/vlanproc.c|  7 +++++--  
3 files changed, 16 insertions(+), 9 deletions(-)
```

```
diff --git a/net/8021q/vlan.c b/net/8021q/vlan.c  
index 541542e..5cacad0 100644  
--- a/net/8021q/vlan.c  
+++ b/net/8021q/vlan.c  
@@ -52,9 +52,6 @@ static char vlan_version[] = DRV_VERSION;  
 static char vlan_copyright[] = "Ben Greear <greearb@candelatech.com>;  
 static char vlan_buggyright[] = "David S. Miller <davem@redhat.com>;  
  
/* Determines interface naming scheme. */  
-unsigned short vlan_name_type = VLAN_NAME_TYPE_RAW_PLUS_VID_NO_PAD;  
  
- static struct packet_type vlan_packet_type = {  
- .type = __constant_htons(ETH_P_8021Q),  
- .func = vlan_skb_recv, /* VLAN receive method */  
@@ -299,6 +296,8 @@ static int register_vlan_device(struct net_device *real_dev,  
     unsigned short VLAN_ID)  
{  
    struct net_device *new_dev;  
+   struct net *net = dev_net(real_dev);  
+   struct vlan_net *vn = net_generic(net, VLAN_ID);  
    char name[IFNAMSIZ];  
    int err;  
  
@@ -310,7 +309,7 @@ static int register_vlan_device(struct net_device *real_dev,  
    return err;  
  
/* Gotta set up the fields for the device. */  
- switch (vlan_name_type) {  
+ switch (vn->name_type) {  
    case VLAN_NAME_TYPE_RAW_PLUS_VID:  
        /* name will look like: eth1.0005 */  
        snprintf(name, IFNAMSIZ, "%s.%u", real_dev->name, VLAN_ID);  
@@ -580,7 +579,10 @@ static int vlan_ioctl_handler(struct net *net, void __user *arg)  
        break;  
    if ((args.u.name_type >= 0) &&  
        (args.u.name_type < VLAN_NAME_TYPE_HIGHEST)) {
```

```

-  vlan_name_type = args.u.name_type;
+  struct vlan_net *vn;
+
+  vn = net_generic(net, vlan_net_id);
+  vn->name_type = args.u.name_type;
  err = 0;
} else {
  err = -EINVAL;
@@ @ -642,6 +644,8 @@ static int vlan_init_net(struct net *net)
if (err < 0)
  goto err_assign;

+ vn->name_type = VLAN_NAME_TYPE_RAW_PLUS_VID_NO_PAD;
+
  err = vlan_proc_init(net);
if (err < 0)
  goto err_proc;
diff --git a/net/8021q/vlan.h b/net/8021q/vlan.h
index 7258357..5229a72 100644
--- a/net/8021q/vlan.h
+++ b/net/8021q/vlan.h
@@ -3,8 +3,6 @@

#include <linux/if_vlan.h>

-extern unsigned short vlan_name_type;
-
#define VLAN_GRP_HASH_SHIFT 5
#define VLAN_GRP_HASH_SIZE (1 << VLAN_GRP_HASH_SHIFT)
#define VLAN_GRP_HASH_MASK (VLAN_GRP_HASH_SIZE - 1)
@@ -59,6 +57,8 @@ struct vlan_net {
  struct proc_dir_entry *proc_vlan_dir;
  /* /proc/net/vlan/config */
  struct proc_dir_entry *proc_vlan_conf;
+ /* Determines interface naming scheme. */
+ unsigned short name_type;
};

#endif /* !(__BEN_VLAN_802_1Q_INC__) */
diff --git a/net/8021q/vlanproc.c b/net/8021q/vlanproc.c
index cc17b72..daad006 100644
--- a/net/8021q/vlanproc.c
+++ b/net/8021q/vlanproc.c
@@ -260,13 +260,16 @@ static void vlan_seq_stop(struct seq_file *seq, void *v)

static int vlan_seq_show(struct seq_file *seq, void *v)
{
+ struct net *net = seq_file_net(seq);

```

```
+ struct vlan_net *vn = net_generic(net, vlan_net_id);
+
+ if (v == SEQ_START_TOKEN) {
+     const char *nmtype = NULL;
+
+     seq_puts(seq, "VLAN Dev name | VLAN ID\n");
+
-     if (vlan_name_type < ARRAY_SIZE(vlan_name_type_str))
-         nmtype = vlan_name_type_str[vlan_name_type];
+     if (vn->name_type < ARRAY_SIZE(vlan_name_type_str))
+         nmtype = vlan_name_type_str[vn->name_type];
+
     seq_printf(seq, "Name-Type: %s\n",
                nmtype ? nmtype : "UNKNOWN");
--
```

1.5.3.4

Containers mailing list
Containers@lists.linux-foundation.org
<https://lists.linux-foundation.org/mailman/listinfo/containers>
