
Subject: [PATCH 12/14][VLAN]: Make vlan_name_type per-net.
Posted by [Pavel Emelianov](#) on Thu, 10 Apr 2008 14:58:19 GMT
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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_net_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.%4i", 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

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