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Subject: [PATCH 3/3] [IPV6]: Fix refcounting for anycast dst entries.

Posted by [den](#) on Tue, 18 Mar 2008 14:35:25 GMT

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Anycast DST entries allocated inside `ipv6_dev_ac_inc` are leaked when network device is stopped without removing IPv6 addresses from it. The bug has been observed in the reality on 2.6.18-rhel5 kernel.

In the above case `addrconf_ifdown` marks all entries as obsolete and `ip6_del_rt` called from `__ipv6_dev_ac_dec` returns `ENOENT`. The reference is not dropped.

The fix is simple. DST entry should not keep reference when stored in the FIB6 tree.

Signed-off-by: Denis V. Lunev <[den@openvz.org](mailto:den@openvz.org)>

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net/ipv6/anycast.c | 9 ++-----

1 files changed, 2 insertions(+), 7 deletions(-)

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

index 96868b9..7bc0469 100644

--- a/net/ipv6/anycast.c

+++ b/net/ipv6/anycast.c

@@ -334,9 +334,7 @@ int ipv6\_dev\_ac\_inc(struct net\_device \*dev, struct in6\_addr \*addr)  
 idev->ac\_list = aca;  
 write\_unlock\_bh(&idev->lock);

- dst\_hold(&rt->u.dst);  
- if (ip6\_ins\_rt(rt))  
- dst\_release(&rt->u.dst);  
+ ip6\_ins\_rt(rt);

addrconf\_join\_solict(dev, &aca->aca\_addr);

@@ -378,10 +376,7 @@ int \_\_ipv6\_dev\_ac\_dec(struct inet6\_dev \*idev, struct in6\_addr \*addr)  
 addrconf\_leave\_solict(idev, &aca->aca\_addr);

dst\_hold(&aca->aca\_rt->u.dst);  
- if (ip6\_del\_rt(aca->aca\_rt))  
- dst\_free(&aca->aca\_rt->u.dst);  
- else  
- dst\_release(&aca->aca\_rt->u.dst);  
+ ip6\_del\_rt(aca->aca\_rt);

aca\_put(aca);  
return 0;

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1.5.3.rc5

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