

# NVO3 Anycast Layer 3 Gateway

draft-hao-nvo3-anycast-gw-00

Weiguo Hao(Huawei)

[haoweiguo@huawei.com](mailto:haoweiguo@huawei.com)

Lucy Yong(Huawei)

[lucy.yong@huawei.com](mailto:lucy.yong@huawei.com)

Yizhou Li(Huawei)

[liyizhou@huawei.com](mailto:liyizhou@huawei.com)

Feng Wang(H3C)

[imfeng@h3c.com](mailto:imfeng@h3c.com)

Wade Shao(Tencent)

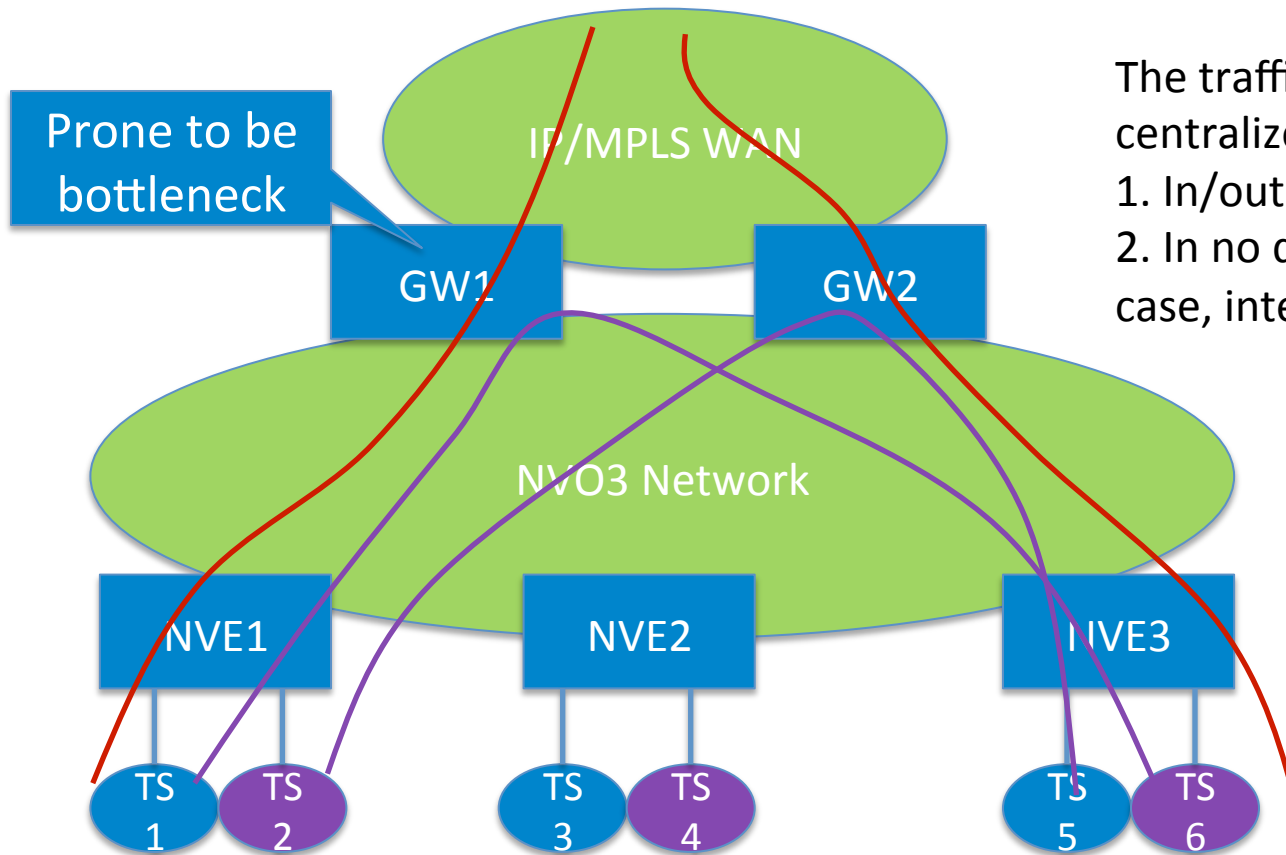
[wadeshao@tencent.com](mailto:wadeshao@tencent.com)

Vic Liu(China Mobile)

[liuzhiheng@chinamobile.com](mailto:liuzhiheng@chinamobile.com)

July, 2014 Toronto Canada

# Scenario



The traffic which goes through centralized gateway includes:

1. In/out DC traffic
2. In no distributed gateway case, inter-VNs traffic.

Anycast layer 3 NVO3 gateway is to improve gateway scalability.

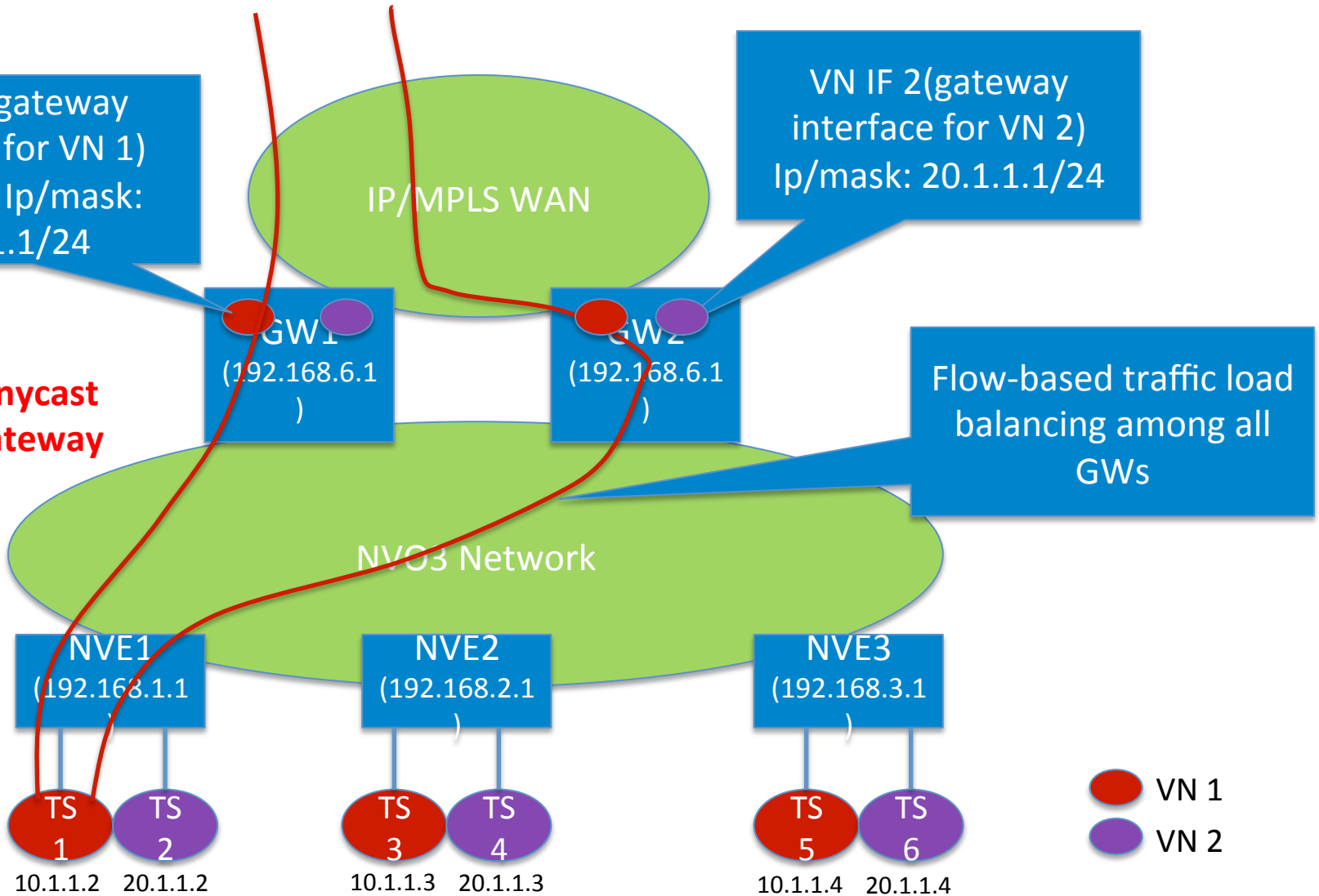
# L3 Anycast GW Solution

VN IF 1 (gateway interface for VN 1)  
Gateway Ip/mask:  
10.1.1.1/24

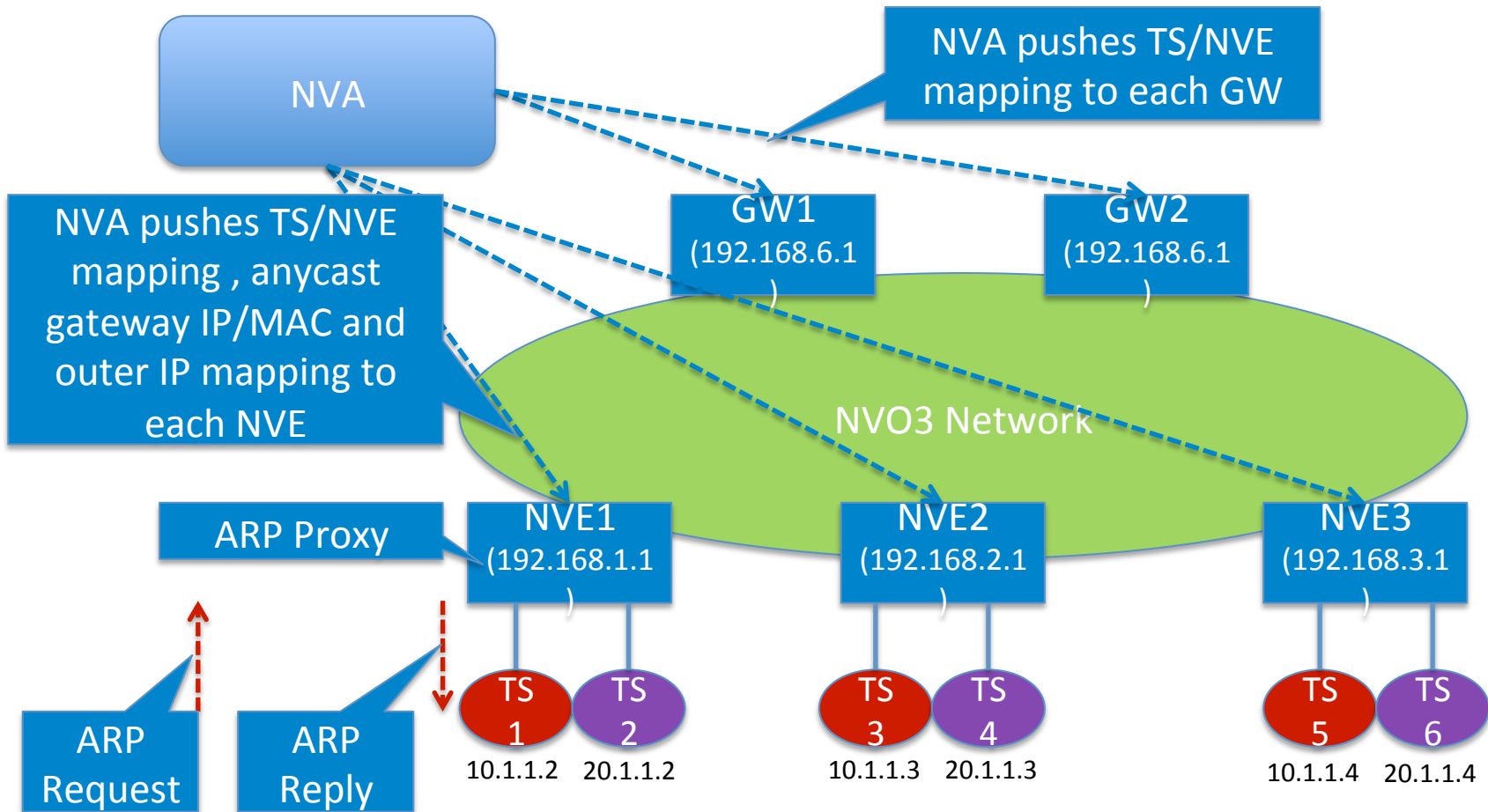
VN IF 2 (gateway interface for VN 2)  
Ip/mask: 20.1.1.1/24

**Anycast gateway**

Flow-based traffic load balancing among all GWs



# ARP Handling: L2 VN



# Comparison between VRRP and anycast gateway solution

Dimension	VRRP	Anycast gateway solution
Network bandwidth usage	Low	High
Keep alive workload	VRRP Session per VN	No
Network resilience	VRRP Switchover	Underlying network convergence

# Next Steps

- Solicit other comments and suggestions.