## (IETF73) ISP Shared Address

draft-shirasaki-isp-shared-addr

#### 2008.11

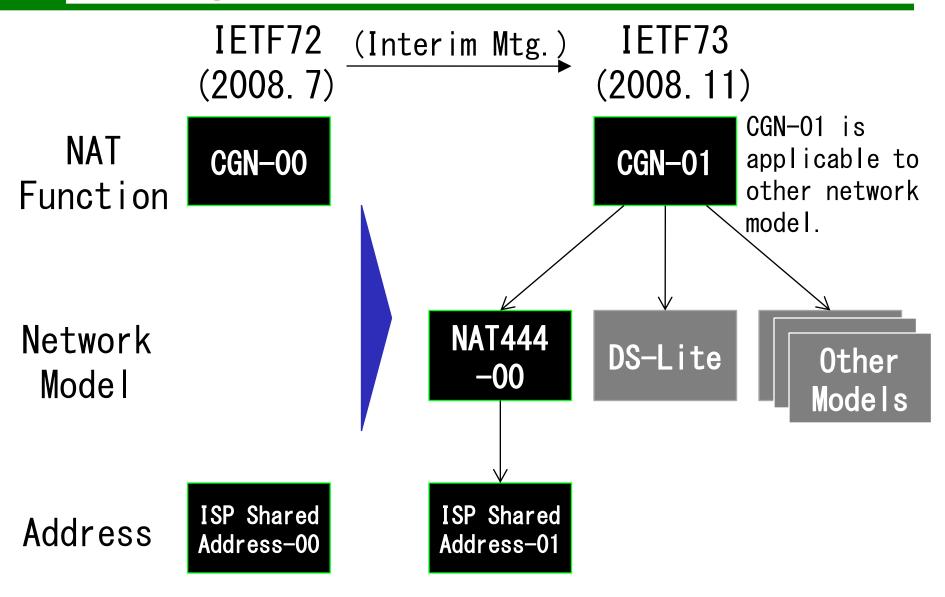
Y. Shirasaki, S. Miyakawa NTT Communications

A. Nakagawa KDDI

J. Yamaguchi IIJ

H. Ashida i TSCOM

#### Rearrangement of Internet Drafts

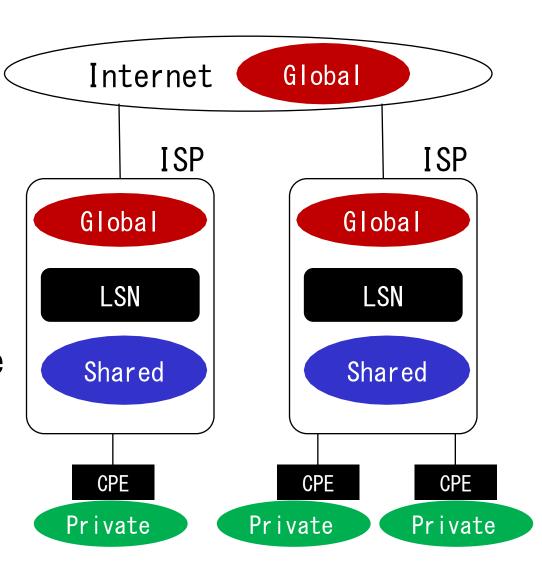


#### What is ISP Shared Address?

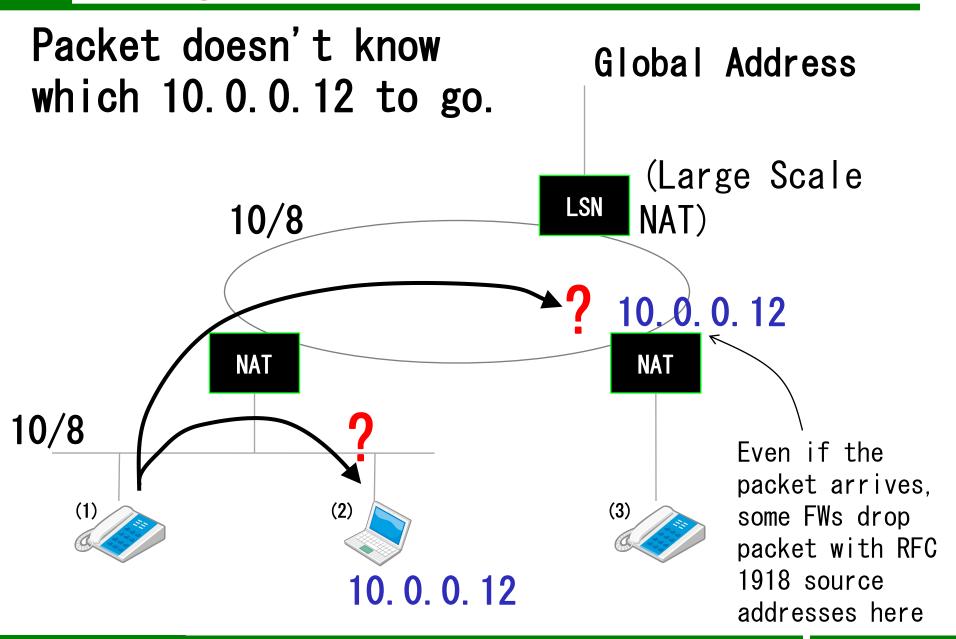
ISP Shared Address:

◆Used in NAT444 Model

◆Between LSN (Large Scale NAT) & CPE



#### Routing Issue of Private Address



#### Current status

- Proposed at APNIC26 (in Taipei / Feb, 2008)
  - We found Some ISPs agreed in AP Region.
- Talked with IANA
- ◆All of above suggested
  - Get (some level of) consensus in IETF first
  - It is unprecedented
- ◆As IPv4 space getting tighter
  - Earlier consensus, Easier to block space

# If this proposal is not passed,

ISP will get Global IPv4 Address Block

Depletion comes sooner!

#### Size of Shared Address

### ◆How large address size do we need ?

- One /8 might be small for large ISPs
- Four /8s might be too large to convince registries
- We may need to show the necessity in this case
- Two /8s suitable ?

	ISP Coverage	
Size	Number of ISPs	%
/10	103	44%
/9	58	52%
/8	35	65%
/8*2	19	82%
/8*3	6	92%
/8*4	2	100%

#### Summary

NAT444 Model needs Shared Address !!

to Working Group Draft?