



at&t

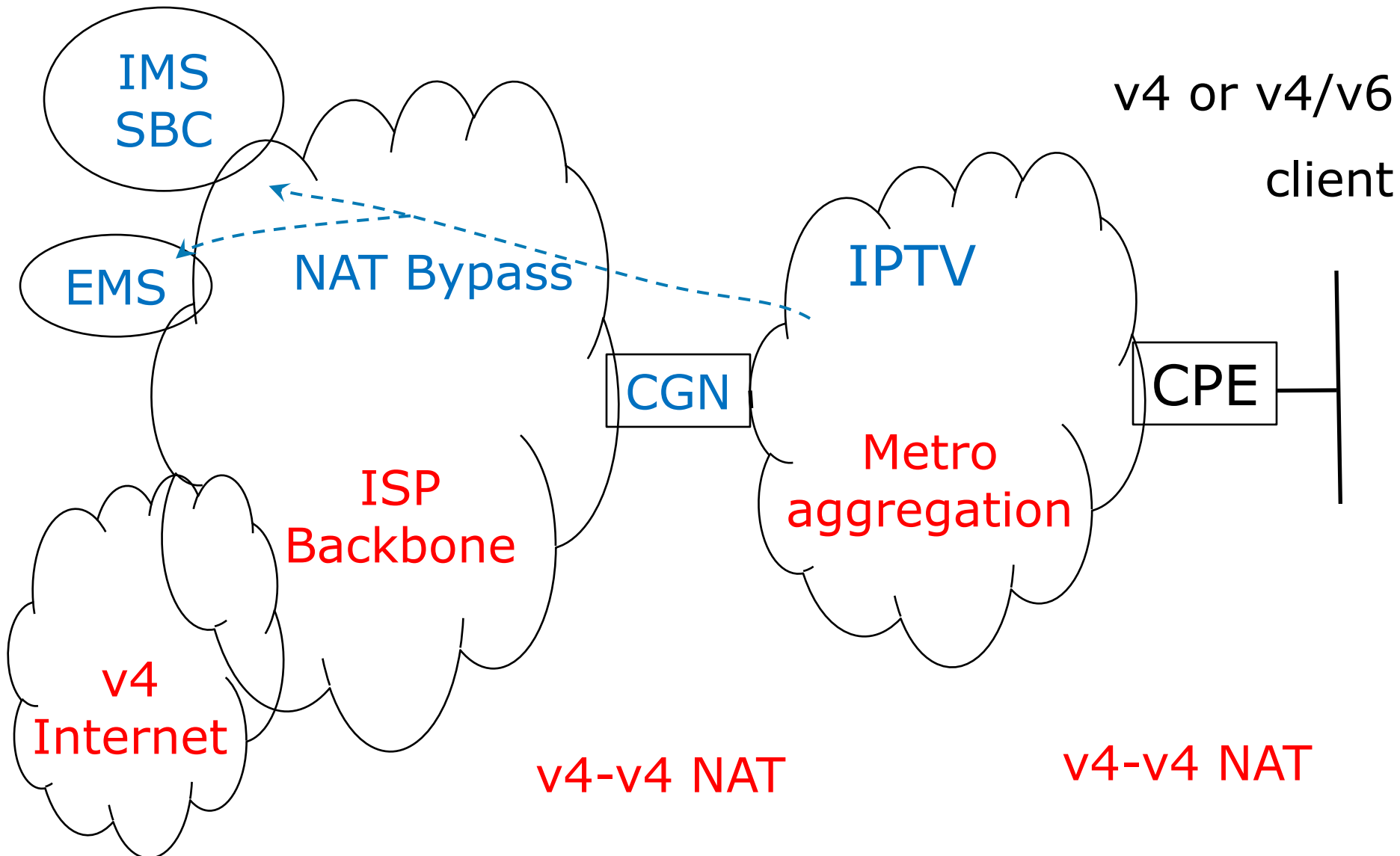
Possible NAT444 Broadband Transition Strategy

Chris Chase
AT&T Labs
June 17, 2009

Motivations

- Mitigate IPv4 Address Exhaust
- Provide access to legacy v4 Internet during v6 transition
- Minimize impacts to existing triple play services

CGN: Carrier Grade NAT



NAT Bypass

- Policy to bypass NAT for
 - OAM traffic
 - CVoIP
 - To SBC
 - Within ISP - media release
 - Outside ISP – anchor media at SBC
- Only Internet services are NAT'ed
- After CVoIP and OAM transition to v6 remove private v4 from ISP backbone
- IPTV untouched
 - Inside NAT boundary

Management

- Manage private space as other carrier space
- Support static port forwarding
 - e.g., Combined with a redirection service
- Required to log NAT state history