

APRICOT 2013 @ Singapore

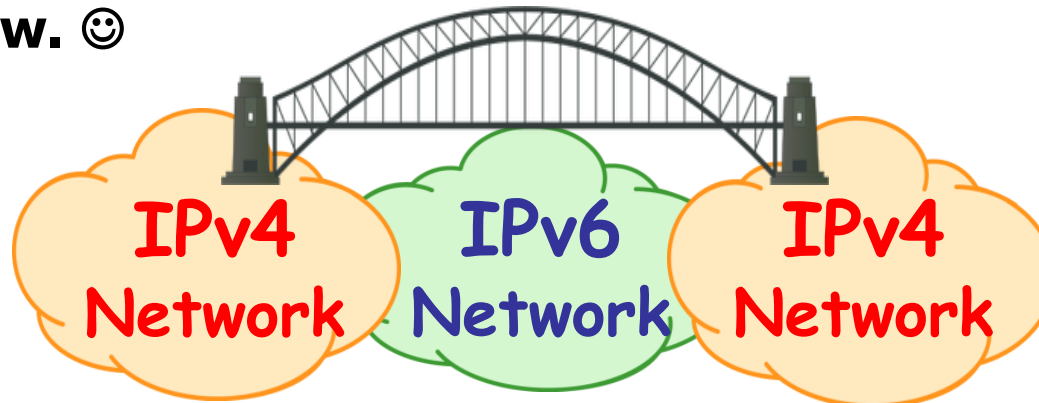
Lightning Talk IPv4 over IPv6 in the Venue

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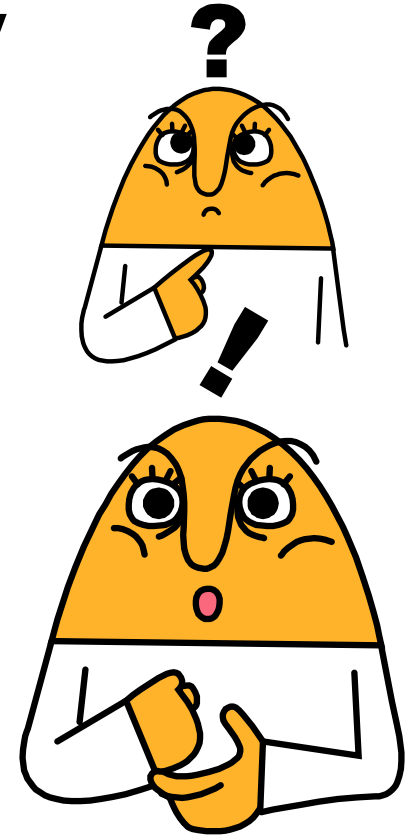
Motivation for this trial

- **IPv4 address exhaustion currently**
 - We, especially ISPs in APNIC region, already do not have enough global IPv4 addresses.
- **Demands of IPv4 over IPv6 experiences**
 - Conference network is very appropriate to share and gather good experiences.
- **Encouraging IPv6 deployment**
 - IPv4 over IPv6 is one of catalysts to deploy IPv6, as you all know. 😊

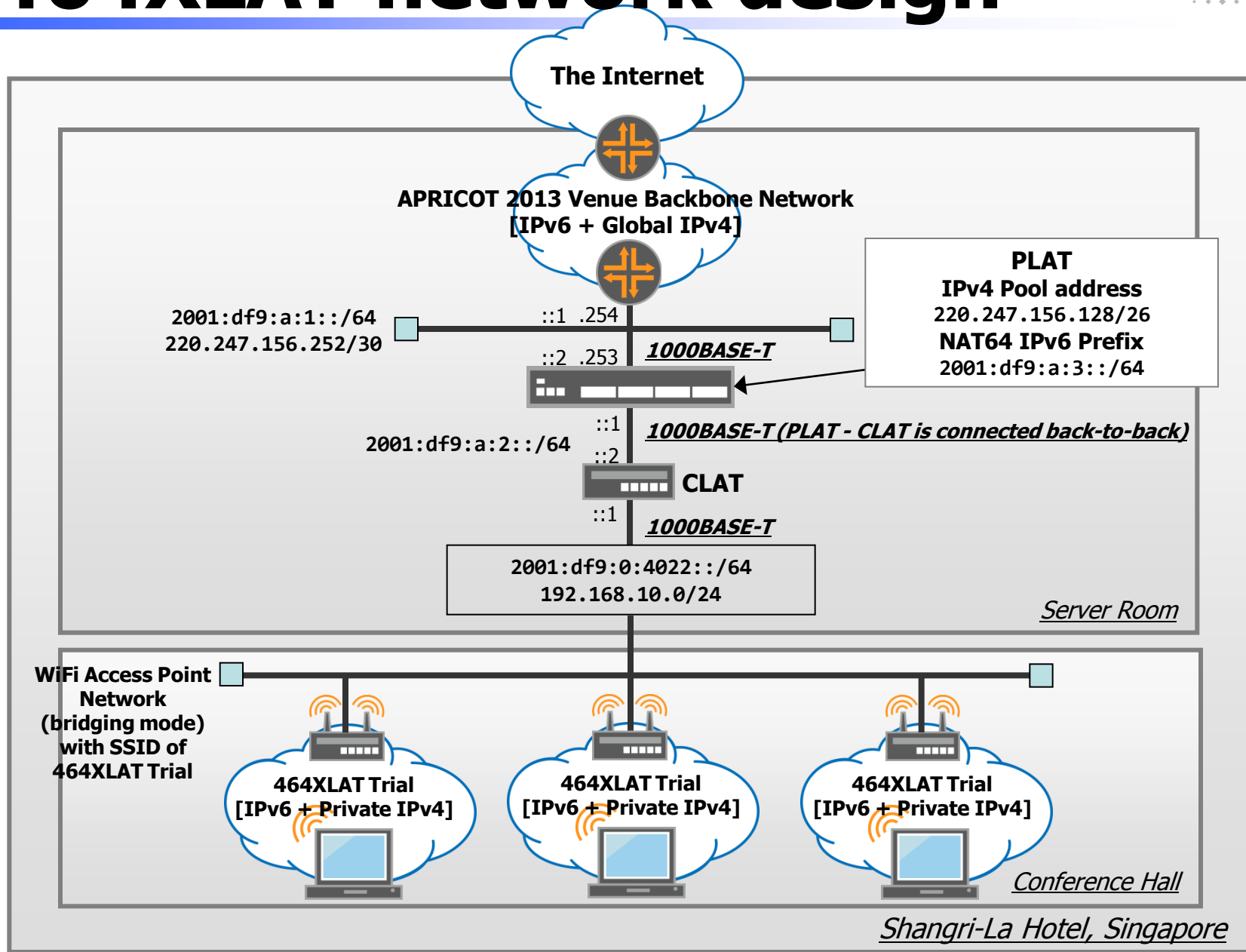


Reasons we chose 464XLAT in this time

- **Limited IPv4 address**
 - Available IPv4 address pool size is generally small in the conference network.
 - 464XLAT is one of stateful solutions.
- **Many selections of products and codes**
 - Products: Cisco, Juniper, A10, ... etc
 - OSS: ASAMAP(Vyatta), Linuxnat64, Ecdysis NAT64, ... etc
 - 464XLAT is combination of existing things.
- **Easy troubleshooting**
 - During troubleshooting, figuring out IPv4 address from translated IPv6 packet header is practicable without deep packet inspection.
 - 464XLAT is not an encap/decap method.

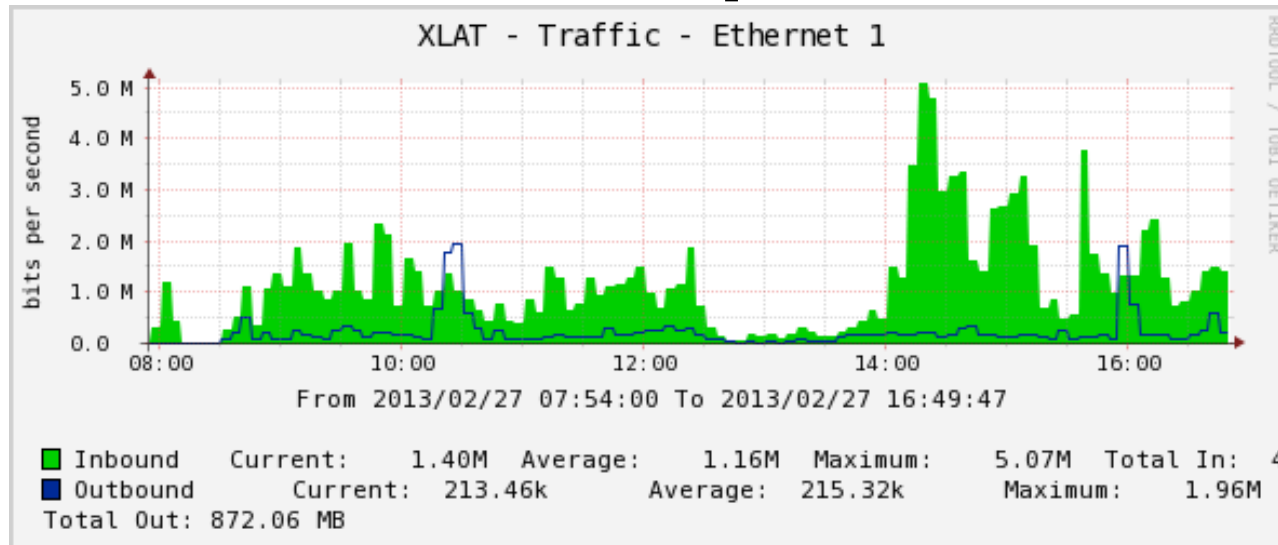


464XLAT network design

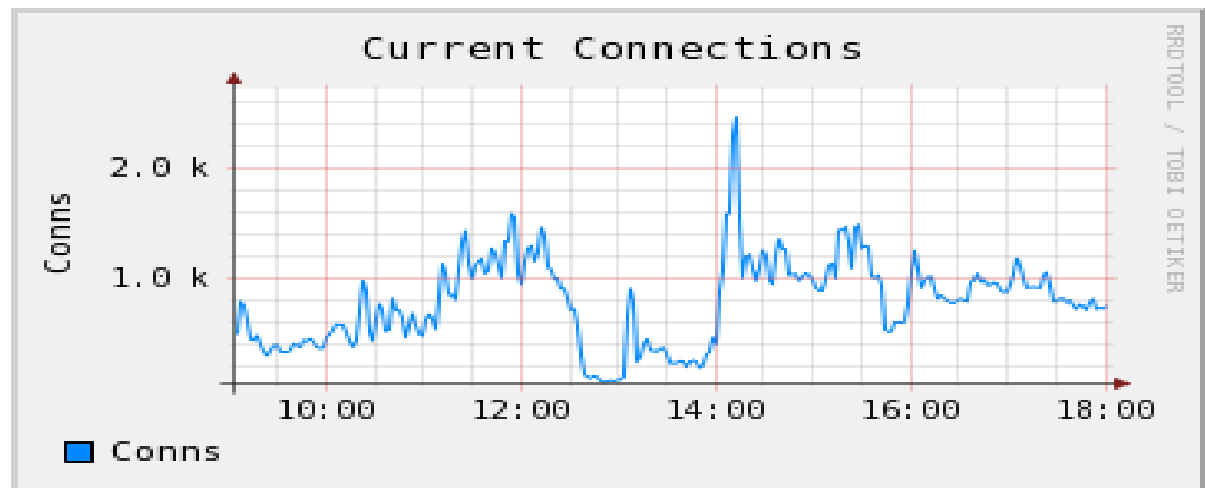


464XLAT statistics so far

Traffic volume at uplink interface of PLAT

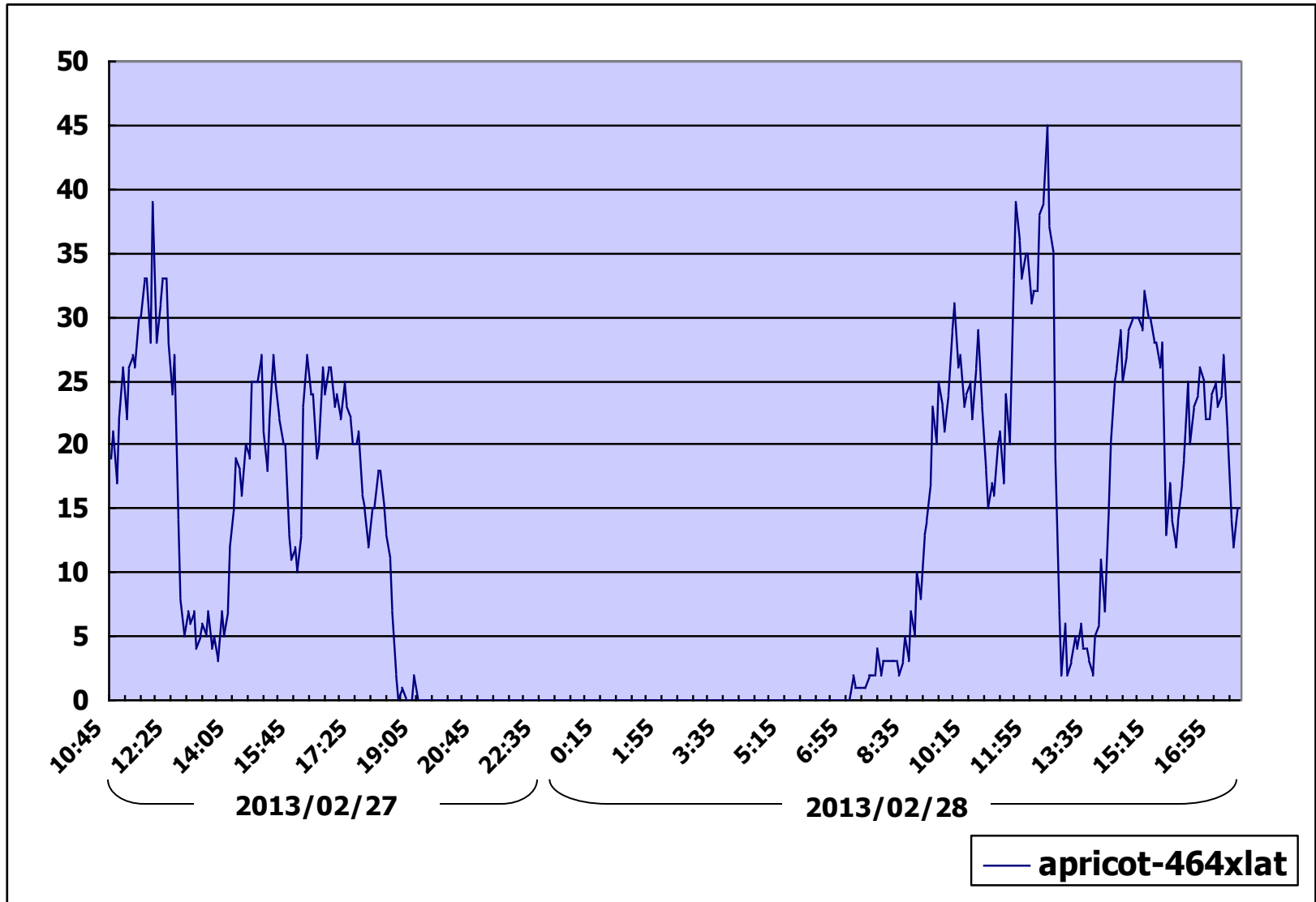


The number of NAT64 connections



464XLAT statistics so far

Wi-Fi association (2013/02/27 - 2013/02/28)



IPv4 over IPv6 is ...

- **already existing here!**
- **available to introduce in your network too!**

Firstly, please try to connect to apricot-464xlat SSID 😊

Special Thanks (in alphabetical order)

- **Gaurab Raj Upadhaya, Miwa Fujii, Shin Shirahata, Yoshinobu "maz" Matsuzaki, and APRICOT 2013 NOC members for cooperative support and operation**
- **A10 Networks, NEC AccessTechnica for good gears**



**A10 Networks
AX 2600-GC**



**NEC AccessTechnica
WR9500N (Prototype)**