

# The Slightly Less Unwary Westerner Nigel Titley – Flag Telecom peering @flagtelecom.com



# Agenda

- **Introduction**
- Our network
- \*\* What I wished I had known
- Conclusions

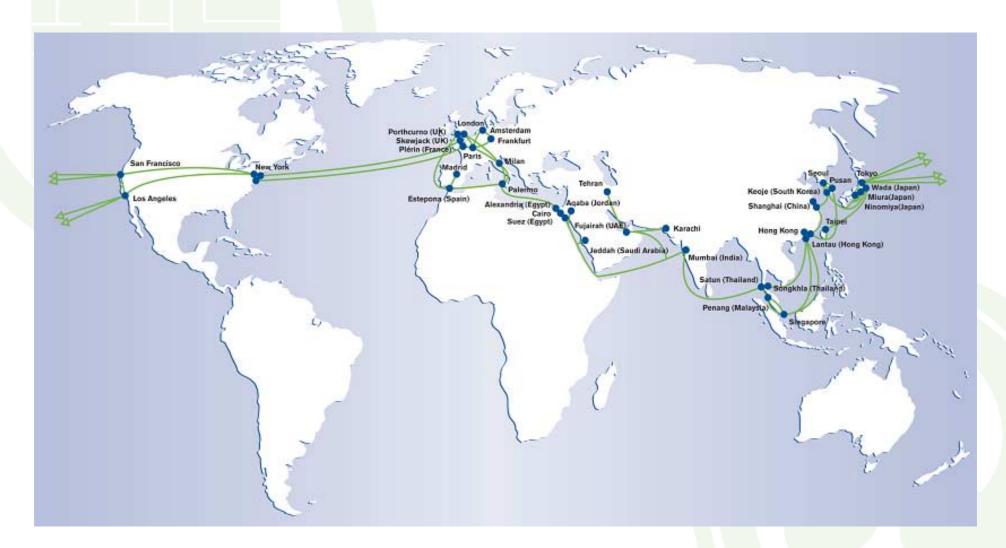


#### Introduction

- Nigel Titley Peering Coordinator for FLAG
- **LINX** founder and board member
- RIPE NCC board member
- 12 year's experience of European peering
- 2 years experience of peering in the US
- \*\* A little experience of peering in Asia



#### The FLAG Global Network





# FLAG Global MPLS/IP Network & Peering





#### What I wish I had known

- I thought that peering in Asia was just like Europe and the USA
- **!!** It isn't
- I hope this presentation can give *some* of the reasons why they differ.



### How it works in Europe

- I measure the traffic and decide who I would like to peer with
- I send an email to <a href="mailto:peering@someisp.com">peering@someisp.com</a>
- I get a response back giving me an answer "yes" or "no"
- If "yes" then we set up the peering
- If "no" then I try to find out why
- Simple
- **Boring**



### It's who you know

- Peering in Asia is built up via personal relationships
- You cannot expect just to email <a href="mailto:peering@some-asia-corp.com">peering@some-asia-corp.com</a>
- You need to make personal contact
- Preferably, you need to be introduced by an intermediate
- May not be dedicated peering contact
- May take a long time to find the contact
- Meetings like APRICOT can help
  - Especially when Equinix is buying the drink
- If you want to peer.... see me afterwards



#### Where has all the traffic gone?

- **The traffic goes to strange places**
- Not all flows are to and from the US
- Peer to peer traffic (such as music sharing) may take the lowest latency route
- FLAG has a direct cable Europe Asia so may attract strange peer to peer flows



#### When is an IXP not an IXP?

- Control of the contro
- May just be a selling point for local transit
- **Check the contract thoroughly**
- Check the conditions of use
- Remember that de-regulation is very new in parts of Asia
- **Get local expertise**



### It Pays to Advertise

- **IXPs** may not advertise their customers
- Some Asian IXPs may not carry lists of members
- List of members may only be available to other members
- Website may only be in the local language (Taiwan is particularly bad here)
- Probably related to previous slide



### What would you like with that?

- Peering often cannot be negotiated alone
- Peering may be part of an overall deal
- There may be conditions attached
- Partnership
- Be prepared to be flexible
- **Be** prepared to be patient



#### Yes or No?

- "Yes" may not mean "yes"
- **!!** It may mean "I heard you"
- It may mean "I heard you and I think I understand you"
- It may mean "I didn't understand you, but keep on talking anyway"

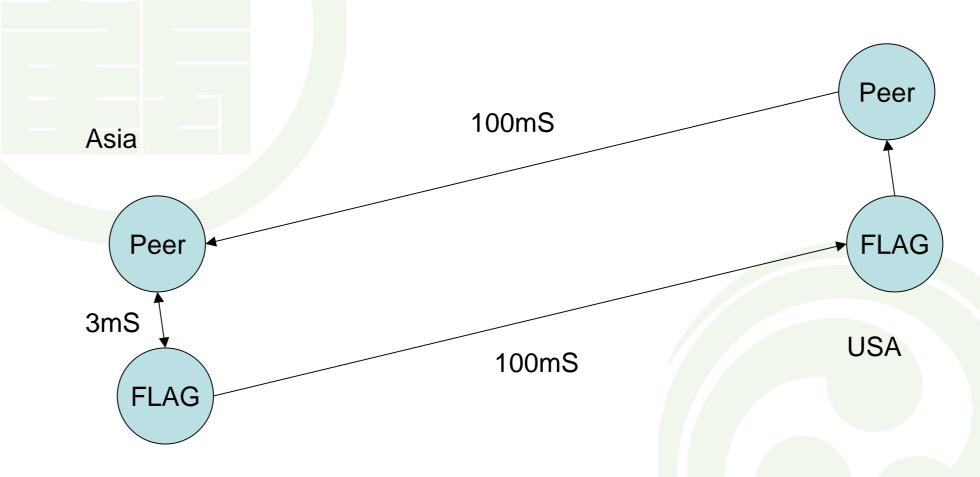


### Playing the trombone

- Many Asian countries are dominated by a single incumbent
- The incumbent will almost certainly not peer in country for (perceived) competitive reasons
- Peering is not under such scrutiny as it is in the US and Europe
- They may agree to peer within the Asian region, but not in country
- They may only agree to peer on the west coast of the US, in which case this is what may happen



## Playing the trombone (2)





## Playing the trombone (3)

- **Traffic may route via the West coast**
- Transit is sometimes better than peering
- It may be better for your customers' sakes to swallow your pride and take transit rather than peering far away from the region.



#### The Great Questions

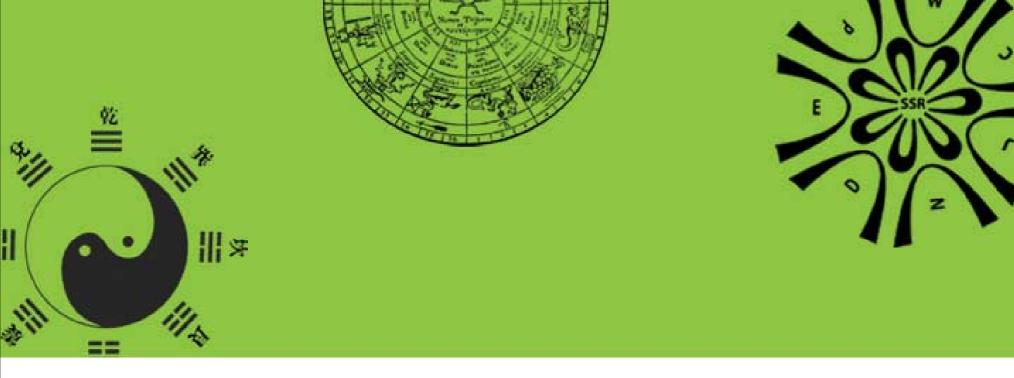
- What is the answer to Life, the Universe and Everything?
  - Answer: 42
- Where do babies comes from?
  - Answer: they are found under rose bushes
- Why won't China Telecom peer with me?
  - Answer: ?????



#### Conclusions

- Take nothing for granted
- Make sure you have local representation
- \*\* Accept that you will have to meet people in person
- Try and learn a few words of the local language
- Be patient





### Thank You

