

# World IPv6 Day on JANET

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GEANT Access Port Managers Meeting
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### What was World IPv6 Day?

- A day where content providers made their content available over IPv6.
- NOT a day for widespread deployment of IPv6 on access networks.
  - Change one thing at a time
- Measure the "brokenness" that content providers were afraid would stop people reaching their content when they added an AAAA record to the DNS
  - Predominantly 6to4 and Teredo related



### What did we do in the run-up?

- Some users might have significant problems on the day.
- Education and awareness
  - Blog articles, presentations.
  - Look out for systems with Internet Connection Sharing enabled.
  - Look out for Macs that treat 2002::/16 addresses with equal preference to "native" connectivity.



#### 22,000 Users

- ...then we have an email from <a major content provider>.
  - "We've been doing some research on which networks we think have the highest amount of IPv6 brokenness [...]"
  - "...and unfortunately JANET seems to have one of the highest levels of brokenness (in the top 10 worldwide in terms of number of users affected)."
  - "We have an estimate of approximately 22,000 users in JANET (approx 1.5% of users) with broken IPv6 connectivity (that is, a >15 second delay in getting to [our] services)."



#### 22,000 Users

- Obtained a list of the worst-affected sites
- Got in touch with each of them to warn their helpdesk
- ...another blog entry

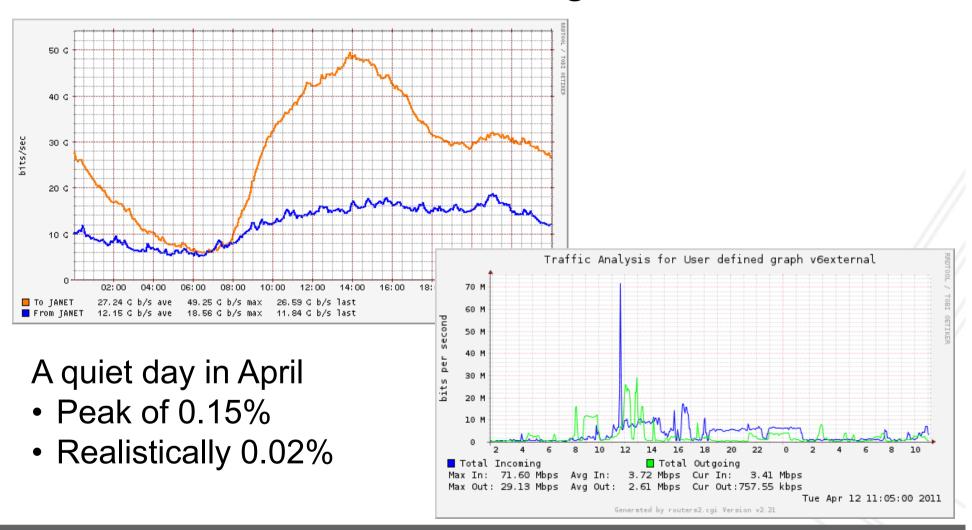


### What didn't we do in the run-up?

- Had to fend off some wacky ideas from colleagues...
  - Make www.ja.net IPv6 ONLY
    - How would people with problems find our contact details?
    - This is not about forcing people to deploy IPv6 on access networks
  - A little game accessible over IPv6 only, "win an iPad"
    - Did I not mention this isn't about forcing people to deploy IPv6 on access networks?

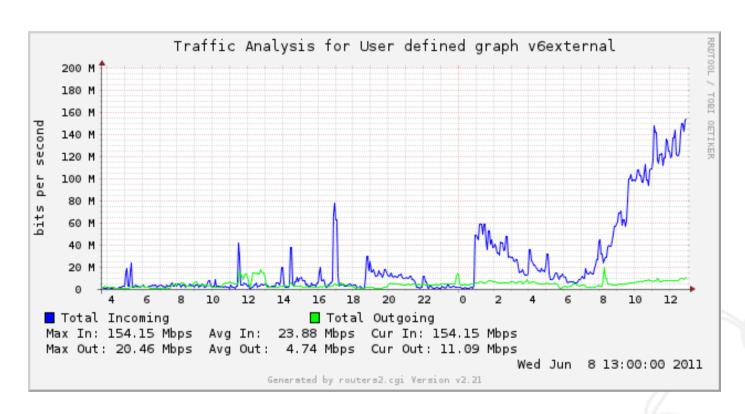


## What had we been seeing before W6D?





### What did we see on the day?



This is starting to look interesting...

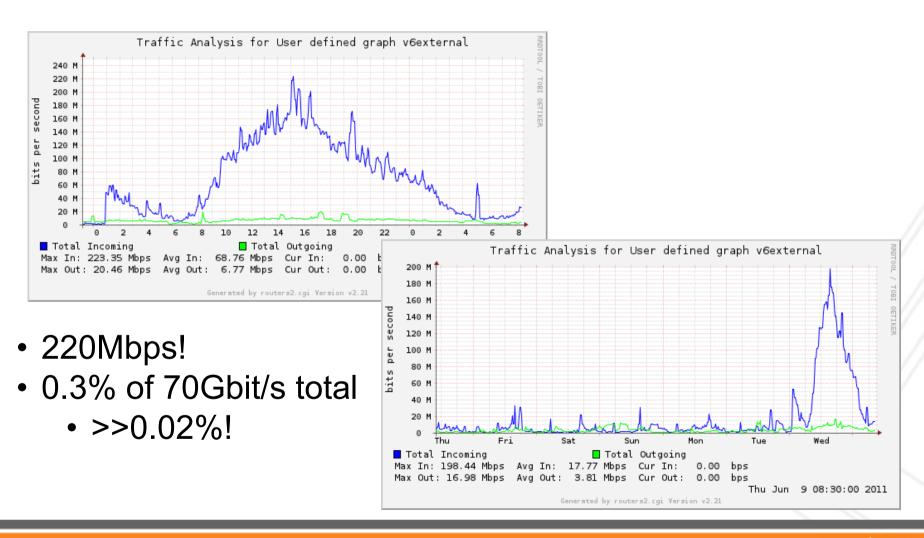


#### What did we hear on the day?

- No helpdesk calls
  - Well, one, about not being able to reach www.juniper.net
    - ...but they made a mistake with their DNS
- No evidence of 22,000 users with significant problems
  - Could have been misleading testing methodology?



#### The morning after the World IPv6 Day before...





#### That was that ... or was it?

