# DE AUSTRALIA AND NEW ZEALAND INTERNET AWARDS IPV6 WINNER INTERNODE InternetNZ

## IPV6 SUMMIT 2012

# LEADING THE WAY: INTERNODE'S IPV6 DEPLOYMENT AND DELIVERY

(A GOOD NEWS STORY)

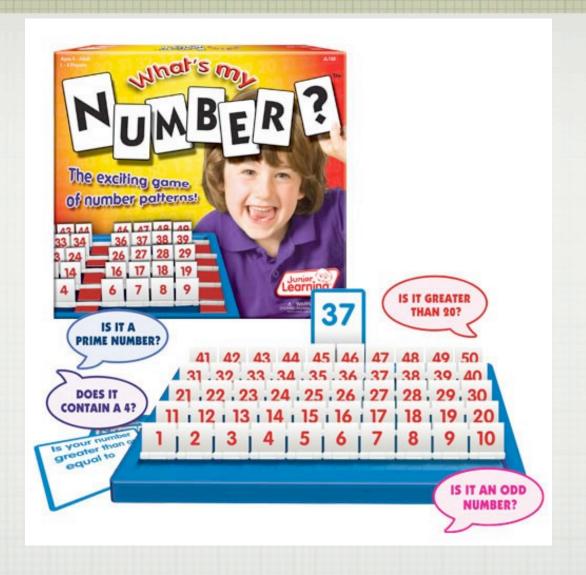
SIMON HACKETT FOUNDER, INTERNODE





# WE ALL UNDERSTAND THE REASON IPV6 EXISTS

(IPV4 ADDRESS SPACE EXHAUSTION)



BUT: INTERNET USERS DON'T CARE ABOUT IP ADDRESSING!

(THEY CARE ABOUT ACCESS TO NAMED SERVICES)



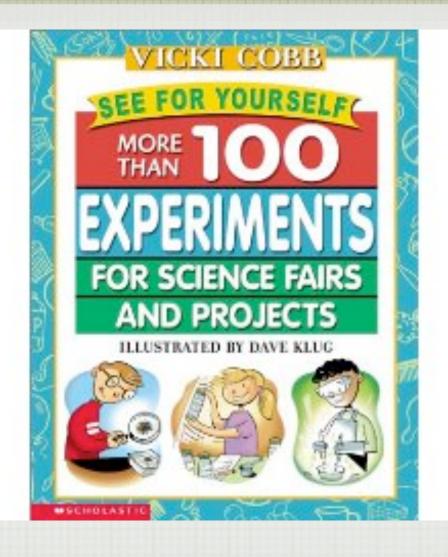
THE PRESENCE OF IPV6 SHOULD BE INVISIBLE TO END USERS DUAL STACK IPV4/IPV6 NATIVE IS SIMPLY 'INTERNET ACCESS DONE RIGHT'

# A LONG TIME AGO ...

A BRIEF HISTORY OF INTERNODE'S IPV6 JOURNEY



THE GEEK ON THE RIGHT DECIDED THAT INTERNODE WOULD BECOME LEADERS IN IPV6 DEPLOYMENT IN AUSTRALIA



INTERNODE OBTAINED AN IPV6 ADDRESS ALLOCATION, CONNECTED UP,
AND STARTED LEARNING HOW IPV6 WORKS



THE INTERNODE NATIONAL NETWORK IS DUAL STACK ENABLED.

NATIVE IPV6 ACCESS OFFERED TO FIXED LINE, ETHERNET PORT

AND DATA CENTRE COLOCATION CUSTOMERS



### **News & Media**

Internode has invited customers to participate in an Australia-first technical trial of IPv6, running natively on its national ADSL broadband network.

Australia-first native ADSL IPv6 access trial

06-11-2009

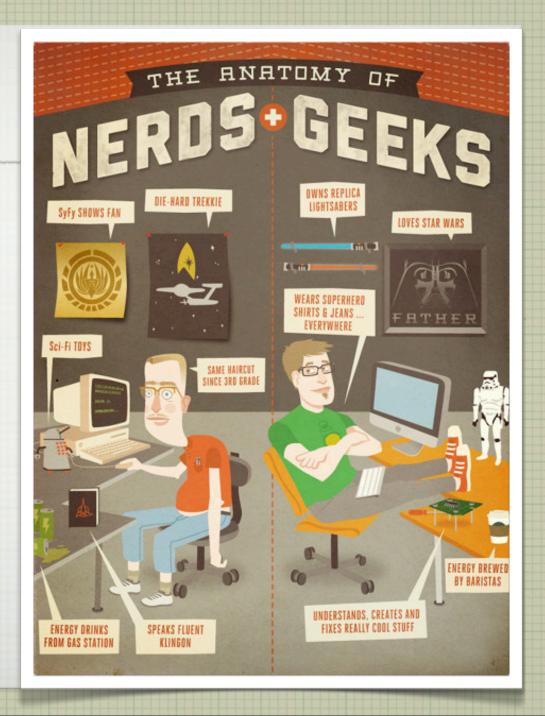
INTERNODE LAUNCHES NATIONAL IPV6 ACCESS TRIAL OFFERING OPT-IN IPV6 DUAL STACK TO ALL CUSTOMERS



MOST CUSTOMERS RESPONDED ROUGHLY LIKE THIS

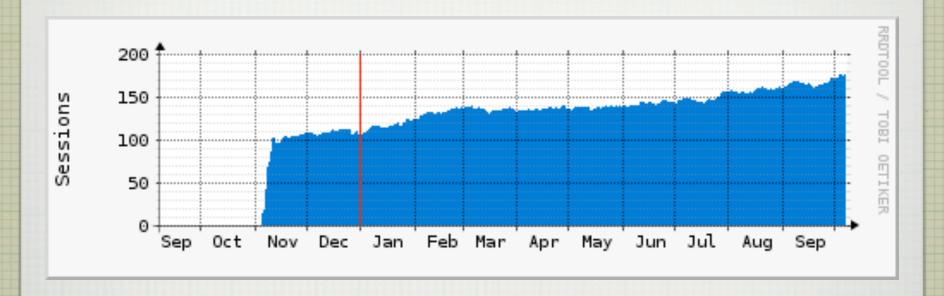
HOWEVER

SOME OF OUR
CUSTOMERS
DID ENABLE
IPV6 AND
STARTED
THEIR OWN
LEARNING
PROCESS



LATE 2010

#### HUNDREDS OF CUSTOMERS ARE USING IPV6



THIS WAS ENOUGH TO LET INTERNODE PROVE OUT OUR SERVICE (AND START BEATING UP ROUTER VENDORS ABOUT IPV6 BUGS)

# MEANTIME, BACK IN THE REAL WORLD (AND WITHOUT FANFARE)



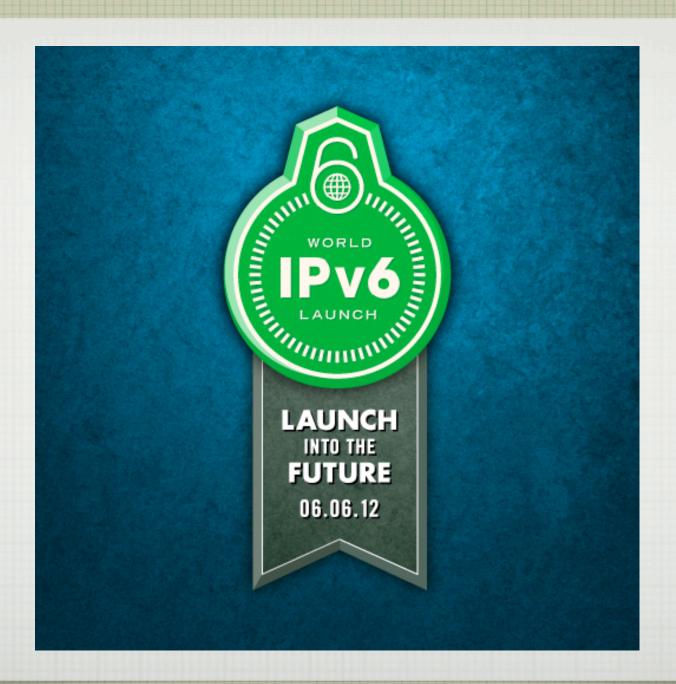
PRACTICALLY ALL NEW PC OPERATING SYSTEMS GOT UPDATED TO BE IPV6 READY (AND ENABLED BY DEFAULT)



SMARTPHONE OPERATING SYSTEMS GOT UPDATED FOR IPV6 TOO (ALSO ENABLED BY DEFAULT)



THERE WAS STILL A MISSING LINK: MOST CUSTOMER ROUTERS DIDN'T SUPPORT IPV6 (NOT REALLY)





INJANUARY 2012 INTERNODE ENABLED IPV6 (BY DEFAULT) THROUGH ALL BROADBAND ACCESS PATHS, FOR ALL NEW CUSTOMERS



IN THE SAME TIMEFRAME, ALL
ROUTERS SOLD BY
INTERNODE (FINALLY) HAD
WORKING IPV6 STACKS



BYJUNE 2012 ALL NEW ROUTERS SHIPPED BY INTERNODE HAD IPV6 ON BY DEFAULT



Model	Ethernet Switch	802.11 WiFi	VoiP Phone Ports	USB Ports	Internet VPN	FetchTV Certified	Price
NetComm NB6Plus4	4 x 100Mbps	no	no	no	no	no	\$99
NetComm NB604N-02	4 x 100Mbps	high speed (b+g+n)	no	(file)	no	1	<u>\$119</u>
Billion 7401VGP-R3	4 x 100Mbps	yes (b+g)	<b>√</b> x1	no	no	no	<u>\$139</u>
Billion 7800NL	4 x 100Mbps	high speed (b+g+n)	no	no	по	1	<u>\$159</u>
Billion 7800N	4 x Gigabit	high speed (b+g+n)	no	no	no	1	<u>\$199</u>
FRITZIBox 7270	4 x 100Mbps	high speed (b+g+n)	x2 + DECT	(file/print/3G)	1	*	\$249 or \$9.95 monthly
FRITZIBox 7390	4 x Gigabit	high speed dual- band (b+g+n)	x2 + DECT	(2 x file/ print/3G)	1	*	\$349 or \$14.95 monthly

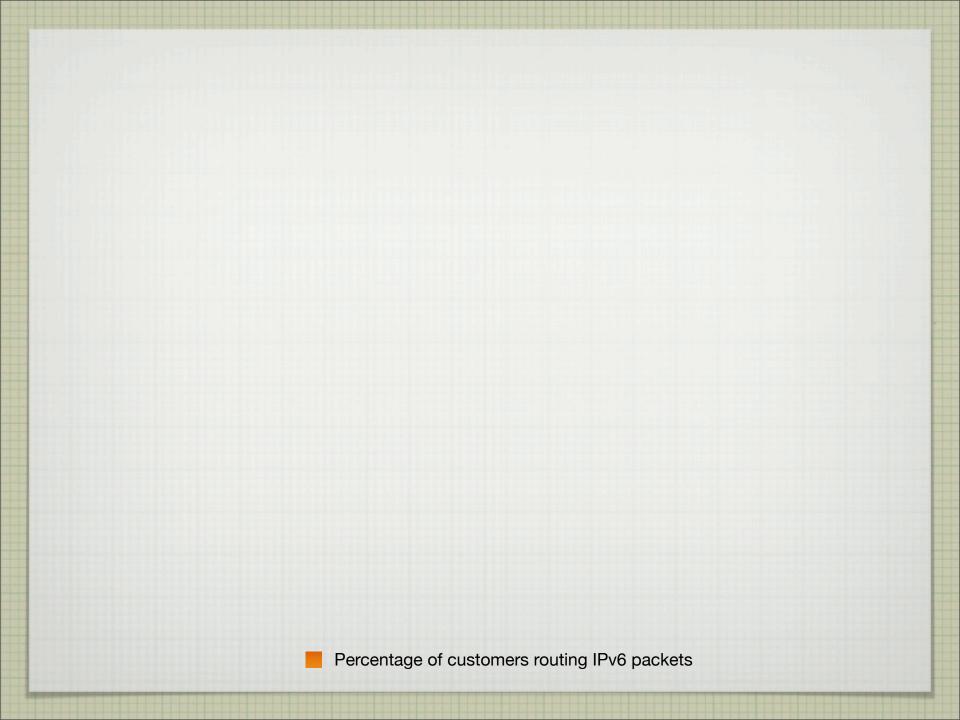
THESE ARE OUR STANDARD ROUTER OFFERINGS TODAY (ALL WITH IPV6 INCLUDED AND SWITCHED ON)

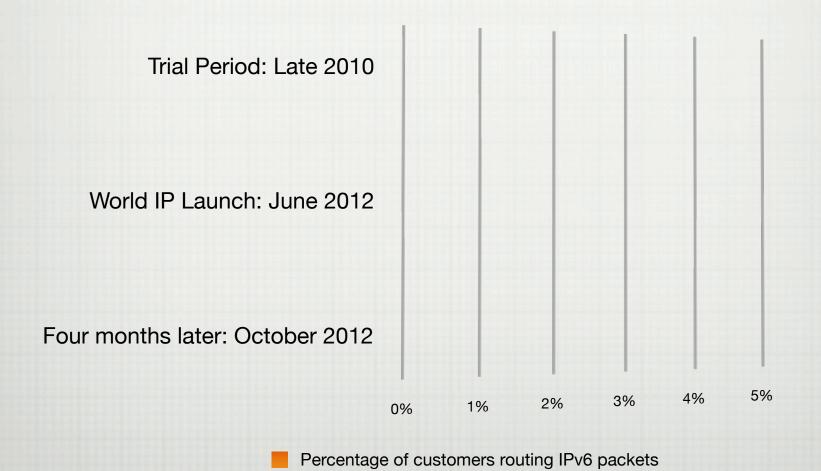


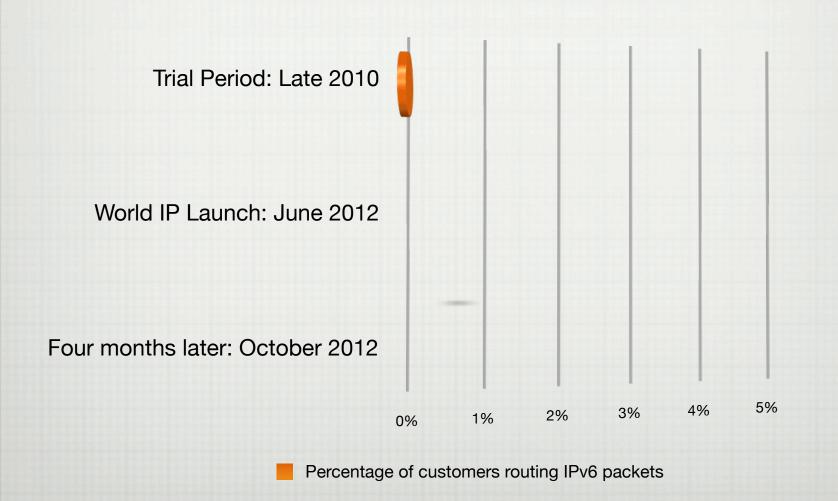
ALL NEW INTERNODE ADSL2+ CONNECTIONS ARE IPV6 ENABLED ALL NEW INTERNODE NBN CONNECTIONS ARE IPV6 ENABLED

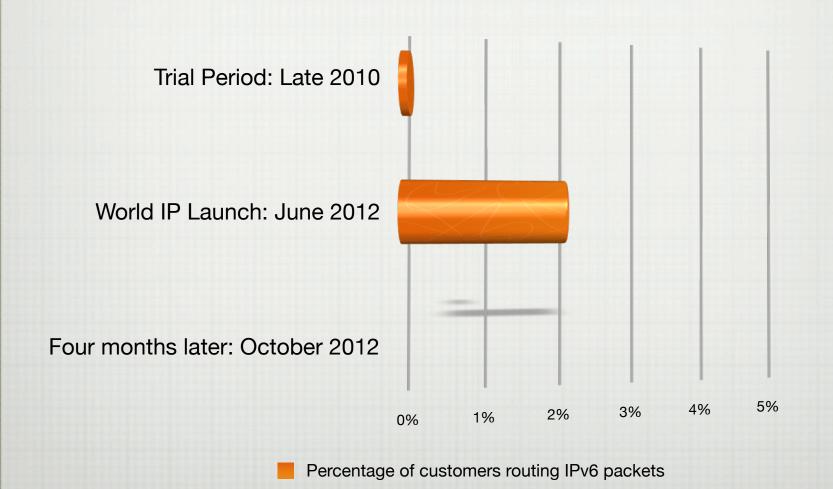


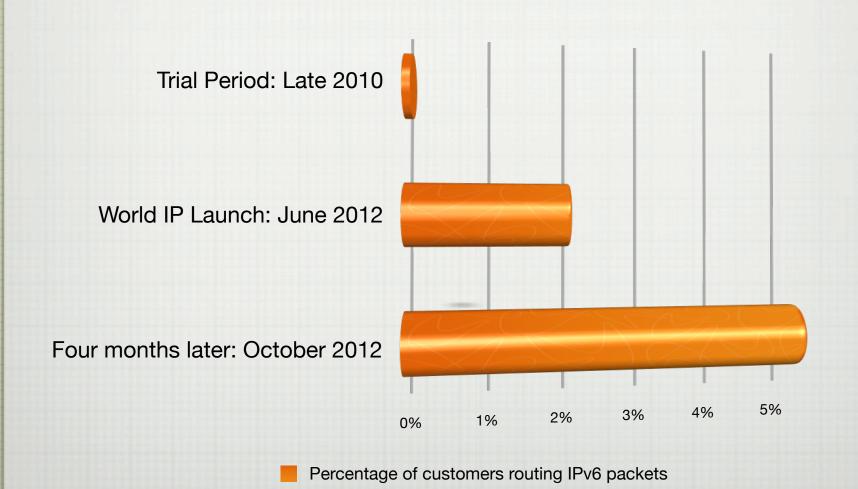
HOW HAVE THESE STEPS IMPACTED INTERNODE IPV6 ADOPTION RATE?

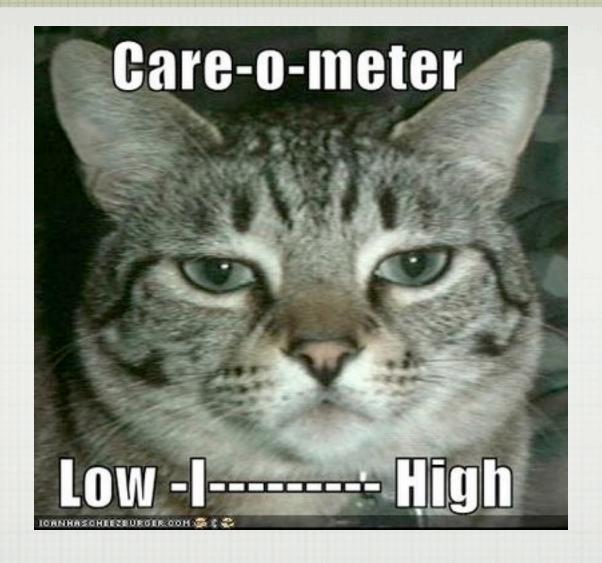












WHY, OH WHY, AREN'T OTHER ISPS FOLLOWING OUR LEAD??

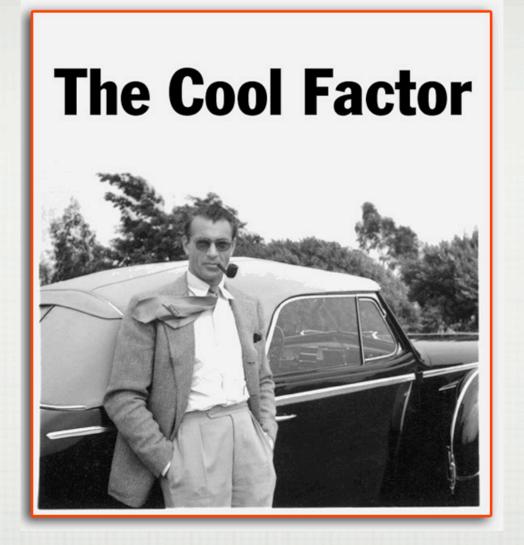
### 'SOMEONE ELSE'S PROBLEM'

- HAVEN'TRUN OUT OF IPV4 ADDRESSES YET
- ARE IN A SATURATED MARKET (FIXED LINE, 1ST WORLD)

# WHAT WILL DRIVE SELF-SUSTAINING TAKE-UP OF IPV6?

- 1) MOBILE INTERNET ACCESS IN MARKETS WITH RAPIDLY RISING CUSTOMER COUNTS
- 2) OPERATORS REALISING THAT IPV6-ONLY IS A LOWER COST PATH THAN USING CG-NAT
  - CATALYST FOR A HIGH SCALE IPVG-ONLY MOBILE PLAY
  - GOOGLE, FACEBOOK, TWITTER, YOUTUBE RUN IPV6, MAKING SUCH AN OFFERING 'HIPSTER-FRIENDLY' WITHOUT V4 NOW
    - OTHER CONTENT SITES WILL SCRAMBLE TO ENABLE V6
      TO OBTAIN ACCESS TO THESE CUSTOMERS

MEANWHILE



INTERNODE HAS THE COOL FACTOR!
AND YOU KNOW WHO TO TELL YOUR FRIENDS TO SIGN UP WITH:)



#### WWW.INTERNODE.ON.NET/IPV6