



A P O N Y

Next time you'll buy me one

**IPv6 SUMMIT 2010**

**IPv6 AT INTERNODE:  
STATUS AND FUTURES**

**OR:**

**HOW I LEARNED TO STOP WORRYING  
AND LOVE THE TRANSITION**

Simon Hackett  
Internode





# ITS (STILL) ABOUT ADDRESS SPACE

(THIS IS NOT A CONTENT PLAY)

ITS STILL  
(MOSTLY)  
INVISIBLE IF  
WE GET IT  
RIGHT



# INTERNODE STATUS AND CURRENT WORK

NATIVE DUAL-STACK OVER PPP (NOW)

# INTERNODE STATUS AND CURRENT WORK

IPv6 ENABLING OUR  
CUSTOMER FACING SERVERS

# INTERNODE STATUS AND CURRENT WORK

AUDITING VENDORS AND  
PRODUCTS DELIVERED NOW  
(IPV6 ROADMAP VS REALITY)

# INTERNODE STATUS AND CURRENT WORK

STAFF NETWORK RUNNING IPV6  
(EAT OUR OWN CAT FOOD)



# INTERNODE STATUS AND CURRENT WORK

TRAINING FRONTLINE SUPPORT STAFF  
(DUAL STACK ADDS CHALLENGES)

# INTERNODE STATUS AND CURRENT WORK

ALL NEW CPE SOLD BY INTERNODE MUST  
SUPPORT NATIVE IPV6/V4 DUAL STACK

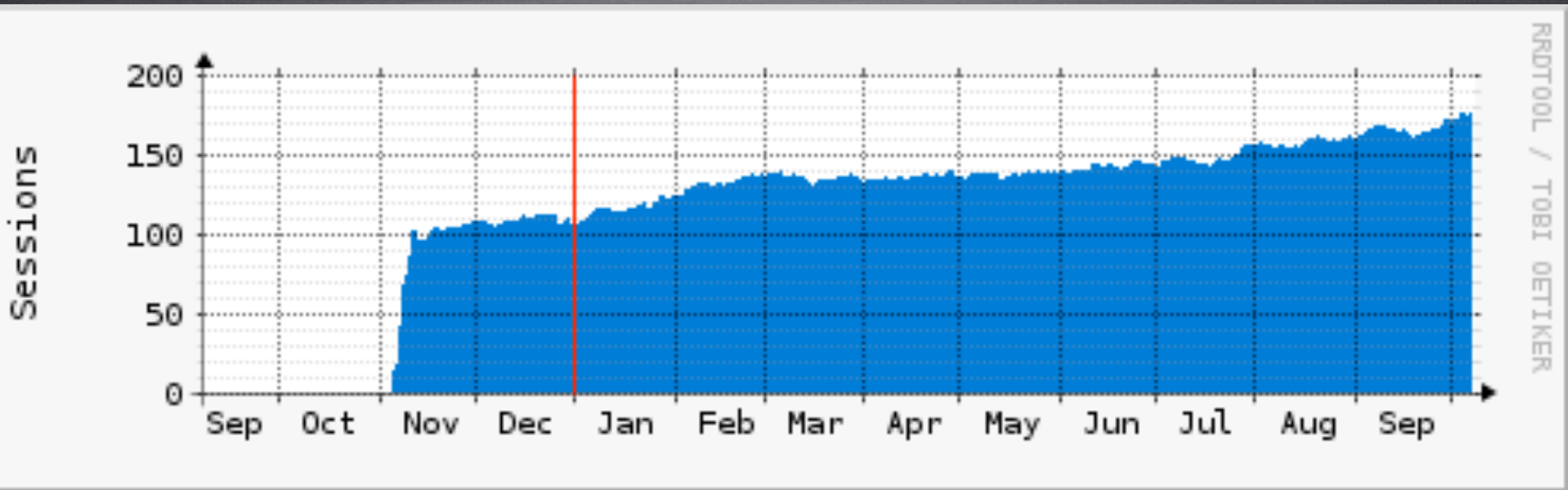
# INTERNODE STATUS AND CURRENT WORK

IPV6 NEW CUSTOMER DUAL STACK DEFAULT:

‘OFF’ AT PRESENT

‘ON’ SOMETIME IN 2011

# CURRENT TAKEUP



(A LITTLE BELOW 1% OF CUSTOMER BASE)

**BUT:  
CONSUMER  
CPE SUPPORT  
FINALLY HERE**

**(WOOT!)**





INERNODE NOW SELLING  
DUAL STACK NATIVE ROUTERS



BILLION AND NETCOMM: NOW  
OTHERS: SOON

# SECURITY IN CPE

GOOD DEFAULT SETTINGS IN  
CPE ARE IMPORTANT

# SECURITY IN CPE

MAINTAIN EXISTING  
DEFAULT EXPECTATIONS  
(INBOUND BLOCK BY DEFAULT)



# SECURITY IN CPE

IPV4 AND IPV6 SECURITY  
CONTROLS SHOULD BE  
CONSISTENT

WE WILL BE IN A DUAL STACK WORLD  
FOR A LONG TIME



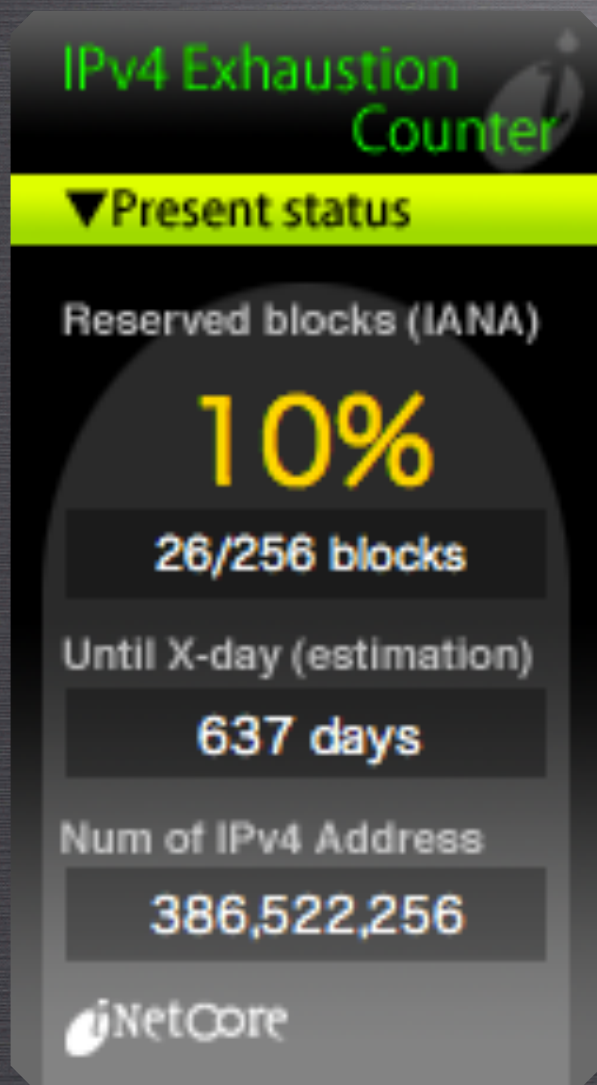
DOOMSDAY:

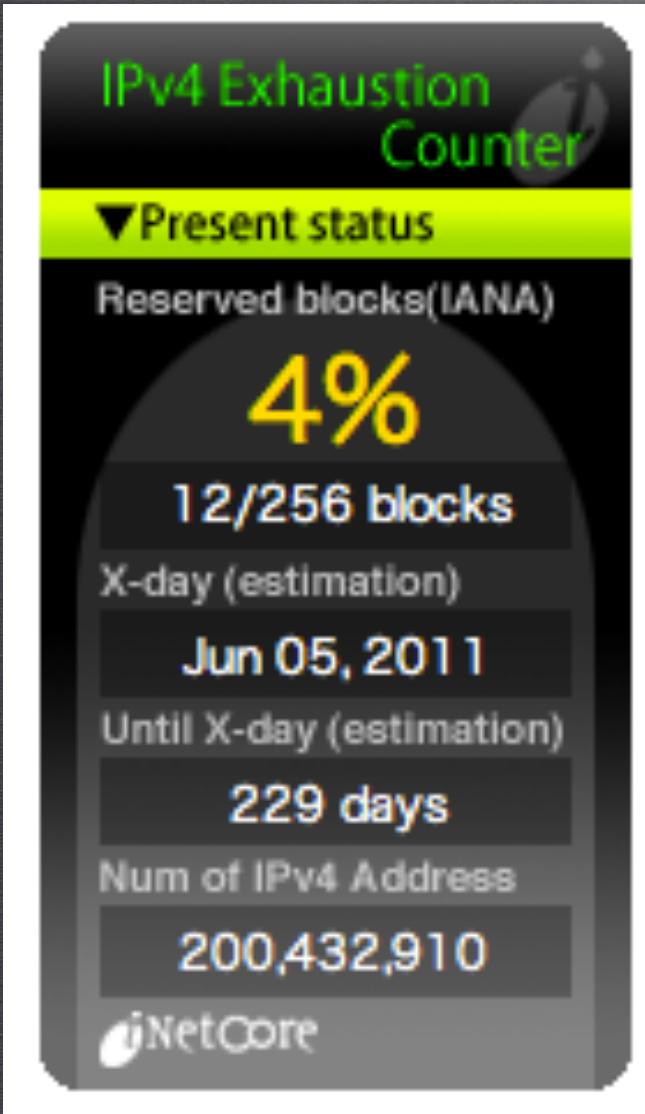
ARE WE THERE  
YET?

7TH DEC 2009

386 CALENDAR  
DAYS AFTER LAST  
CONFERENCE

“X-DAY” WAS ONLY  
169 DAYS NEARER





19TH OCT  
2010

CIRCA 300 DAYS  
LATER AGAIN

“X-DAY” IS 408  
DAYS NEARER

**MANY ISPs ARE STILL  
DOING NOTHING MUCH**

**(SOME MAY ALSO LAST A LONG TIME BEFORE CURRENT IPV4  
ALLOCATIONS AND ACCESS TO NEW STOCKS REALLY DRY UP)**

**BUT WE DID IT ANYWAY**

**(AND CONTINUE TO PROGRESS)**

**ONE DAY, OUR STAFF WILL BE RELAXING BESIDE THE POOL  
WHILE OTHER ISP'S STAFF ARE AT THE OFFICE PULLING  
ALL-NIGHTERS**



[HTTP://IPV6.INTERNODE.ON.NET](http://ipv6.internode.on.net)