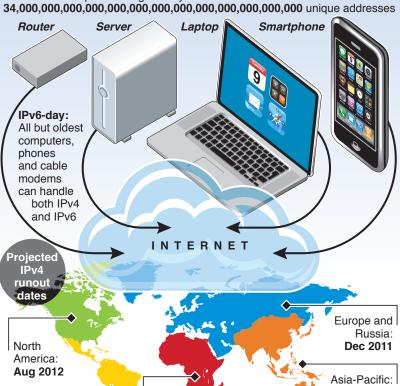# Internet faces worldwide stress test

Every computer, server, router and smart phone uses one of 4.3 billion unique Internet Protocol (IPv4) addresses to connect to the web – now they're running out. On Wednesday, June 8, Facebook, Google, Yahoo, YouTube and others will turn on new IPv6 addresses for a 24-hour test

■ **IPv4:** Standardized in 1977 as unique 32-digit binary numbers

11000000.10101000.00000000.00000001

192 . 168 . 0 . 1

■ **IPv6:** Made up of 128-digit binary numbers – sufficient for
34,000,000,000,000,000,000,000,000,000,000,000,000 unique addresses

Router *Server* *Laptop* *Smartphone*

IPv6-day: All but oldest computers, phones and cable modems can handle both IPv4 and IPv6

I N T E R N E T

Projected IPv4 runout dates

North America: **Aug 2012**

Latin America: **May 2014**

Africa: **Jan 2016**

Europe and Russia: **Dec 2011**

Asia-Pacific: **Mid-2011**