

Inter-Agency IPv6 Test

VA, IRS, SSA, NIST,
and GSA



Overview

- Team members
- How team started
- What was tested
- Test Results
- What's Next



Team Members

- VA- Craig Wasson and Tony Zanfordino
- IRS- Irv Lawson, Mark Leighty and Dennis Baldwin
- SSA- Dave Ordonio and Rich Crist
- NIST- Joe Boone and Bill Haag
- GSA- An Giap



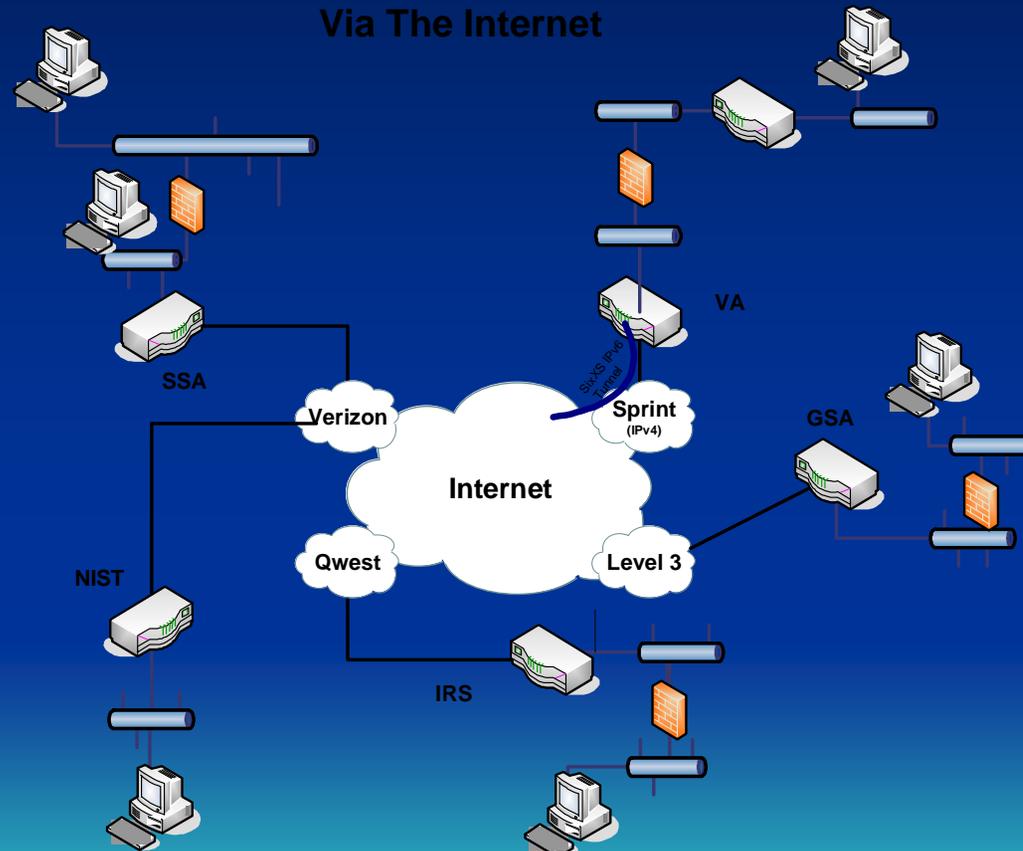
How we came together

- Informally, IRS and SSA had been collaborating for the past 6-8 months on IPv6 related activities.
- VA, NIST and GSA joined IRS and SSA to expand breadth and scope of IPv6 testing knowledge base.
- Goal of inter-agency testing is to advance IPv6 transition.



Network

IPv6 External Agency Connectivity Test Via The Internet



What We Tested

- Ping
- TraceRoute
- FTP
- HTTP



Test Results

```
c:\ Command Prompt
Reply from 2620:0:150:ffad::5: time=169ms
Reply from 2620:0:150:ffad::5: time=182ms

Ping statistics for 2620:0:150:ffad::5:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 169ms, Maximum = 182ms, Average = 172ms

C:\Documents and Settings\vacowassoc>
C:\Documents and Settings\vacowassoc>tracert 2610:20:6000:1::100

Tracing route to 2610:20:6000:1::100 over a maximum of 30 hops
  0  <1 ms    <1 ms    <1 ms    2001:4830:1646:3::1
  1  2 ms     1 ms     1 ms     2001:4830:1646:1::1
  2  20 ms    13 ms    13 ms    gw-147.gas-01.us.sixxs.net [2001:4830:1600:92::1]
  3  14 ms    14 ms    13 ms    sixxs-gw.hotnic.us.occaid.net [2001:4830:e6:7::1]
  4  14 ms    15 ms    69 ms    iad0-b0-ge2.hotnic.net [2001:4810:0:100::1]
  5  Destination net unreachable.

Trace complete.

C:\Documents and Settings\vacowassoc>tracert 2001:1930:3ff:1::fff

Tracing route to 2001:1930:3ff:1::fff over a maximum of 30 hops
  0  <1 ms    <1 ms    <1 ms    2001:4830:1646:3::1
  1  2 ms     1 ms     1 ms     2001:4830:1646:1::1
  2  359 ms   318 ms   237 ms   gw-147.gas-01.us.sixxs.net [2001:4830:1600:92::1]
  3  277 ms   363 ms   265 ms   sixxs-gw.hotnic.us.occaid.net [2001:4830:e6:7::1]
  4  296 ms   424 ms   501 ms   core1.ash1.he.net [2001:504:0:2::6939:1]
  5  554 ms   411 ms   254 ms   10gigabitethernet1-4.core1.paol.he.net [2001:470:0:35::1]
  6  594 ms   639 ms   501 ms   uunet-3.needs.real.name [2001:504:d::7]
  7  543 ms   465 ms   502 ms   0.lo0.GW6.DCA6.ALTER.NET [2600:803::1]
  8  Destination protocol unreachable.

Trace complete.

C:\Documents and Settings\vacowassoc>
```



Welcome to GSA IPv6 Test Page

Good morning!

Today is Thursday May 15, 2008

[Click here to discover the new IPv6 Format](#)

[Click here to see your IP address in v4 or v6](#)

FTP root at [2620:0:150:ffad::5]

To view this FTP site in Windows Explorer, click Page, and then click Open FTP Site in Windows Explorer.

01/18/2008 07:56PM	Directory bin
01/18/2008 06:35PM	Directory boot
01/28/2008 07:50PM	Directory dev
04/30/2008 01:23PM	Directory etc
04/30/2008 01:22PM	Directory home
01/18/2008 07:55PM	Directory lib
01/18/2008 01:30PM	Directory lost+found
01/18/2008 06:38PM	Directory media
10/10/2006 12:00AM	Directory mnt
10/10/2006 12:00AM	Directory opt
01/28/2008 02:48PM	Directory proc
01/18/2008 06:46PM	Directory root
01/18/2008 07:56PM	Directory sbin
01/18/2008 06:31PM	Directory selinux
10/10/2006 12:00AM	Directory srv
01/28/2008 02:48PM	Directory sys
04/30/2008 08:02AM	Directory tmp
01/18/2008 06:34PM	Directory usr
04/29/2008 01:14PM	Directory var

What's Next

- Cooperating to develop strategic approach to IPv6 transition
- Additional testing, as needed
 - OPM (joint test with other agencies)

