Next Generation Internet Protocols (IPv6)

IETF

IPv6 test and measurement tools, Interoperability testbeds & testing

Wide area testbed, cooperative testing

Emerging implementations, testing partners

On line test and measurement tools

6 BONE

National Institute of Standards and Technology
INFORMATION TECHNOLOGY LABORATORY
Internetworking Technologies Group
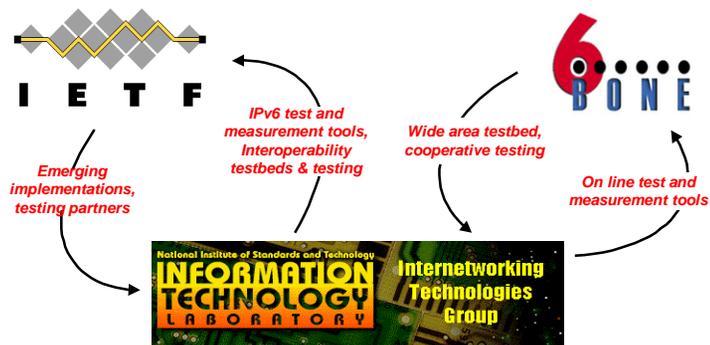
Goal

To research and develop test and measurement tools for IPv6 and to facilitate early vendor interoperability testing and pilot deployment activities on the 6Bone.

Technical Objectives

- Establish IPv6 interoperability testbed & facilitate vendor testing.
- Facilitate the establishment of the 6Bone.
- Devise test and measurement tools for IPv6 and 6Bone network.

Expected Impact

- Deliver testing technology that makes a demonstrable impact on the IPv6 research and development community.

Potential Customers and Collaborators

Customers
- IETF IPv6 working groups
- 6Bone community.
- Dec, Sun MS, Bay Network, Telebit, Cisco.

Collaborators
- NRL
- Korea Telecom
- Dec, Sun MS, Bay Network, Telebit, Cisco

Recent Products

- *NIST 6Bone Monitor* - 1st on line monitoring and measurement system for the 6bone   (FY97)
- *LibcapV6* - IPv6 extensions to Berkeley packet filter and extension to BPF based test tools (e.g. tcpdump)   (FY98)

Planned Accomplishments (FY99-00)

- Release *V6View* - IPv6 monitoring and analysis tool   (FY99)
- **Conclude IPv6 project**   (FY99**)**