

MY HOME PORTAL IPv6 Pilot Program

hexago.com

go6.net

November 2007

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Company History

Canadian company - started IPv6 consulting in 1997 and became a product company in 2003

Experience

- Active participants in IETF IPv6 Working Groups - Softwires, IPv6 WG, Mobile IPv6 WG, V6Ops WG
- Co-founders of the IPv6 Forum
- Long term involvement in the 6bone network, 6NET, Moonv6
- Designed 6TAP exchange
- Hands-on deployment experience in 4 continents
- Founder wrote *the IPv6 book: Migrating to IPv6*, Wiley, 2006

Accomplishments

- Launched Freenet6 (www.freenet6.net) in 1999 which has provided IPv6 access to over 150K people
- Released the Hexago Gateway6 in 2004
- Launched go6.net, in partnership, in 2007



Reference Customers

Network Operators



Defense & Government



Research & Education



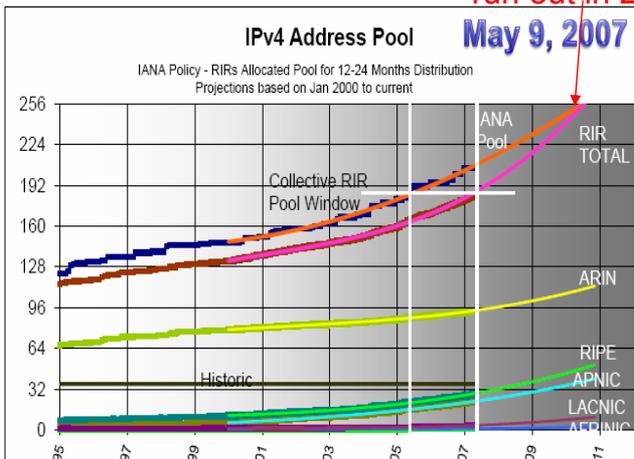
Manufacturer



IPv6 Drivers - Address Depletion

- Internet is based on IPv4 but IPv4 addresses will run out in 3 years

IPv4 addresses
run out in 2010



"The rate of consumption of available remaining IPv4 numbers appears to be on track to run out in 2010/11.",
Vint Cerf, Oct 2007

"CIOs must plan IPv6 move now", "Government agencies should make migration to IPv6 a priority",
Paul Twomey, CEO, **ICANN**, Sept 2007

"... **ARIN** is compelled to advise the Internet community that migration to IPv6 is necessary...",
May 2007

"We've got around two years left of IPv4 address distribution as we know it ...",
Geoff Huston, Chief Scientist, **APNIC**, July 2007

JPNIC release: "The IPv4 address pool is expected to run out around 2010",
June 2007

"The remaining pool of unallocated IPv4 address space is likely to be fully allocated within two to four years."
RIPE, Oct 2007

IPv6 Pilot Program

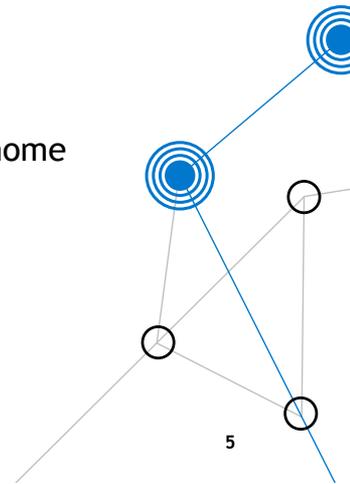
IPv6 Pilot Program is used by the operator to deploy IPv6 in small scale in advance of deploying full scale IPv6 service

The name of the IPv6 Pilot Program is “MY HOME PORTAL”. It is a home networking service that uses IPv6 to enable plug ‘n’ play deployment

Consists of equipment to demonstrate/market and deploy home networking services

- My Home Portal demo environment - to market the home networking services to their subscribers

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IPv6 Pilot Program Benefits

Good reason to start using IPv6 in your organization

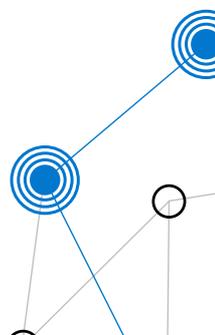
Start small and add new services over time

Low investment required

Generate incremental revenue with a new class of services

Gain valuable operational experience in for future IPv6 deployment

Starts your deployment of IPv6 for the future



My Home Portal

Home networking service. The home network is accessed with a web portal

Services are plug 'n' play, work over IPv4 Internet and do not require software on the handset or computer accessing network

IPv6 is transparent to the user, using IPv6 as a tool for NAT traversal. Can be converted to pure IPv6 service once IPv6 has been deployed

Deployed with Dongle6



In the future can be deployed in home server or home CPE (router, modem)



IP Camera



File sharing

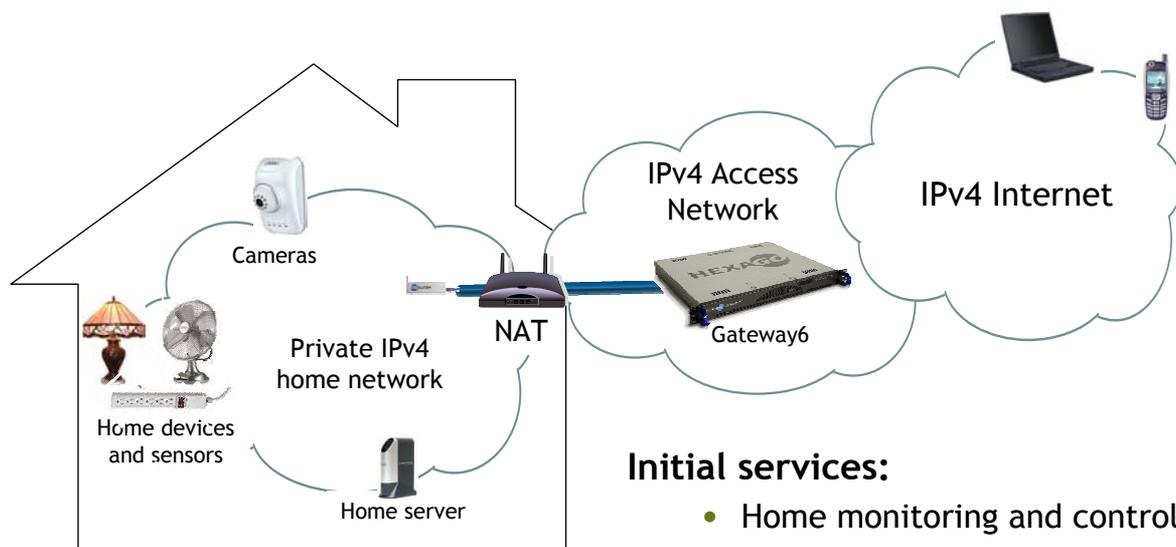


IP Power bar



Streaming

MY HOME PORTAL Services



Initial services:

- Home monitoring and control
- Home website
- File sharing

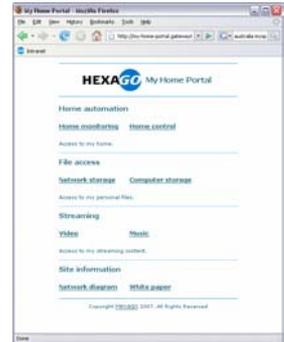
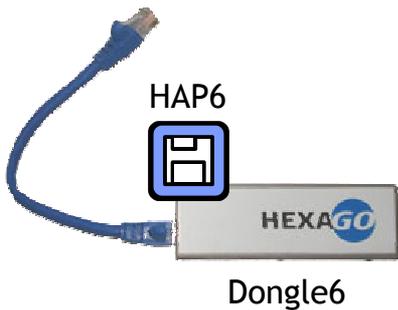
Deployment of

Dongle6 contains the TSP client, the HAP6 client and a web server

Dongle6 has a globally routable URL

Plugs into back of wireless router or inline version plugs into broadband modem

Web server provides interface to services



MY HOME PORTAL web interface

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Gateway6 Solution

Description

- An IPv6 service delivery platform
- Extends IPv6 from the core to the edge of the network (last mile or last hop)
- Provides interoperability between IPv6 & IPv4 hosts, networks and services

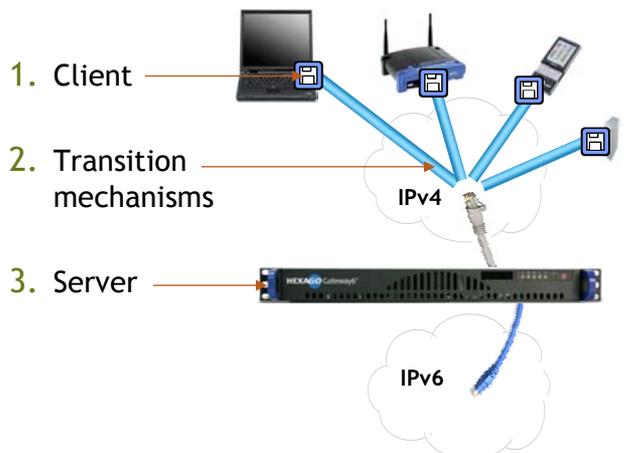
Value Proposition

- Enables IPv6 services to work over IPv4 networks

USP

- The only IPv6 service delivery platform sold today

Consists of 3 parts:

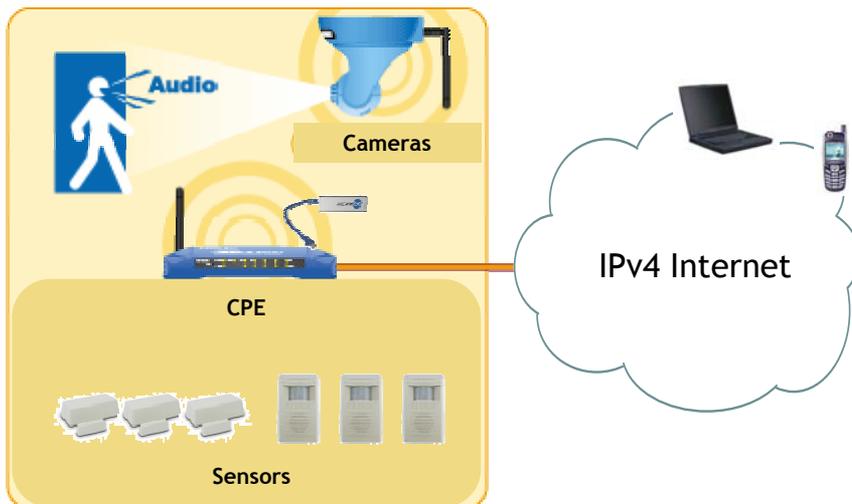


Gateway6

- 1U Internet appliance
- 2 x 1GbE interfaces
- Supports up to 50,000 tunnels
- IPv6 in IPv4 tunneling
- IPv4 in IPv6 tunneling (DSTM)
- NAT traversal
- RADIUS support
- IPv6 permanent (or temporary) addresses
- Node and network mobility
- IPv6 prefix delegation
- Authentication, Authorization & Accounting (AAA)
- Automatically update DNS information
- Monitoring



Home Monitoring Service



Cameras

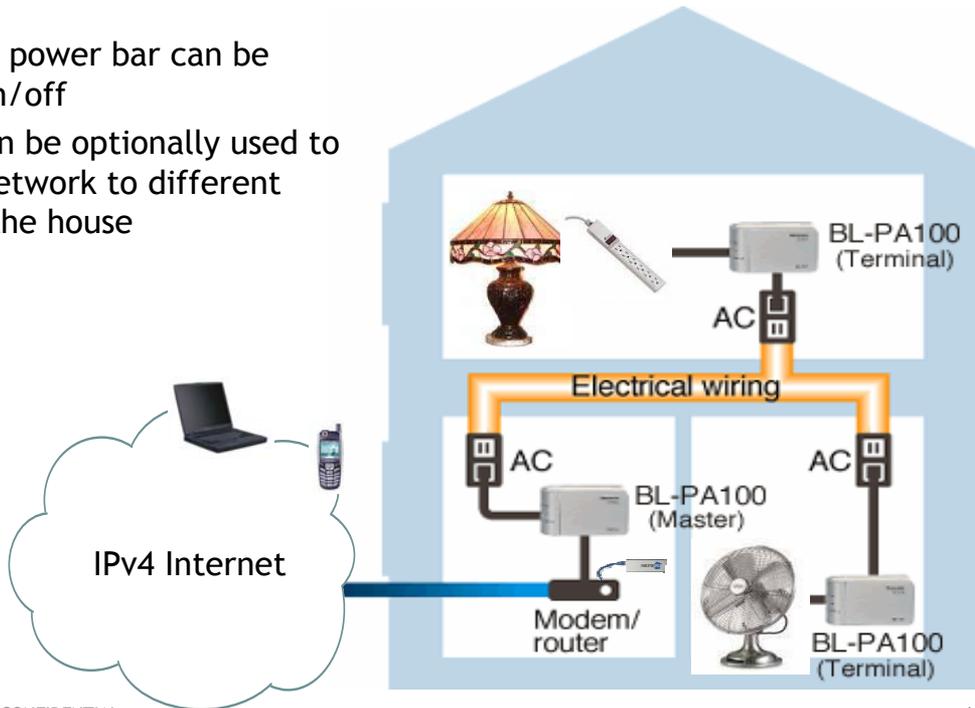
- Surveillance
- Nanny cam

Sensors

- Temp
- Motion
- Door
- Window
- Smoke
- Electricity

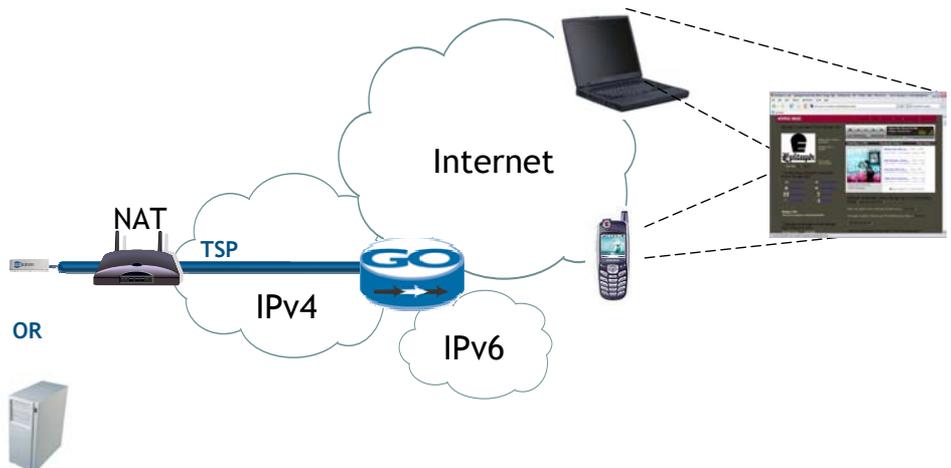
Sockets in IP power bar can be turned on/off

AC wiring can be optionally used to extend network to different parts of the house



Home Website

- Dongle6 or webservice to host consumer website from their home network



Package contains everything operator needs to offer the live IP Camera service and to market and demo future home networking services to their customers

- Service
 - Two Gateway6 systems
 - 500 Dongle6 CPEs
- Demo network
 - Equipment/devices (2 IP cameras, 2 IP power bars, Dongle6, home server, powerline networking adaptors, home router)
 - Network diagram and documentation to install demo network and tutorials for internal training

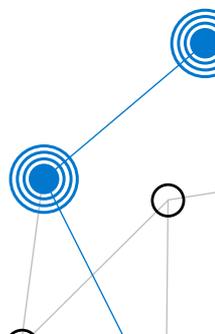


IPv6 Pilot Program Conclusion

IPv6 Pilot Program is designed to deploy IPv6 in small scale in advance of full scale deployment

Benefits

- Good reason to start using IPv6 in your organization
- Start small and add new services over time
- Low investment required
- Generate incremental revenue with a new class of services
- Gain valuable operational experience in for future IPv6 deployment
- Starts your deployment of IPv6 for the future



BENEFITS OF NAT66 VS. IPv4

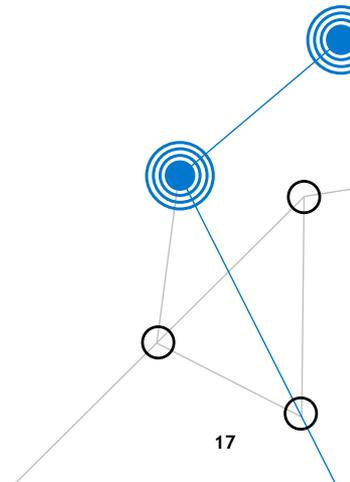
Plug and play without any specific network requirements

Allows multiple devices and services without conflicts

Easy to use - can be preconfigured

All in one solution

Provides IPv6 based services today - future proof



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Thank you.

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