

New Zealand IPv6 Task Force State of the Nation

August 2011

The IPv6 Taskforce is an industry group working to promote the adoption of IPv6 in New Zealand

Trustees: Members

Murray Milner, Dean Pemberton,

Vikram Kumar

Allied Telesis

Development

ikram Kumar Allied Telesis NZi3
Auldhouse NZICT

Convenors: Brainstrust NZDF (New Zealand

Canterbury Development Defence Force)

Murray Milner

Corporation

Dean Pemberton (technical)

Corporation

Catalyst

Registry Services)

Catalyst Registry Services)

Cisco Systems Orcon

Secretariat: Department of Internal Prophecy Networks

Affairs REANNZ

InternetNZ FX Networks Tech Mahindra

Funding Partners:

Gen-i

Huawei

Telecom New Zealand

Telecommunications

Carriers Forum

InternetNZInternetNZTelstraClearFX NetworksInspireNetTUANZ

Microsoft Juniper Networks Voco

InspireNet Kordia Vodafone New Zealand Microsoft WorldxChange

Prophecy Networks Ministry of Economic



The current situation

based on surveys, engagement with Government,
 enterprise, industry groups and participation in local and
 international events



Summary

- IPv6 Awareness sufficient now a diminishing return on investment
- Govt. sector adoption response seems slow? Not a great engagement to date but we anticipate that there is work going on behind the scenes.
- ISP/Carrier sector mobilising.. but are key players moving fast enough?
- Consumer/WAN CPE seems to be a constraint?
- Increasing industry support for IPv6 Task Force initiatives
- IPv6 Task Force online and social media presence maturing
- Commercial training capability maturing and ad-hoc low cost courses available.

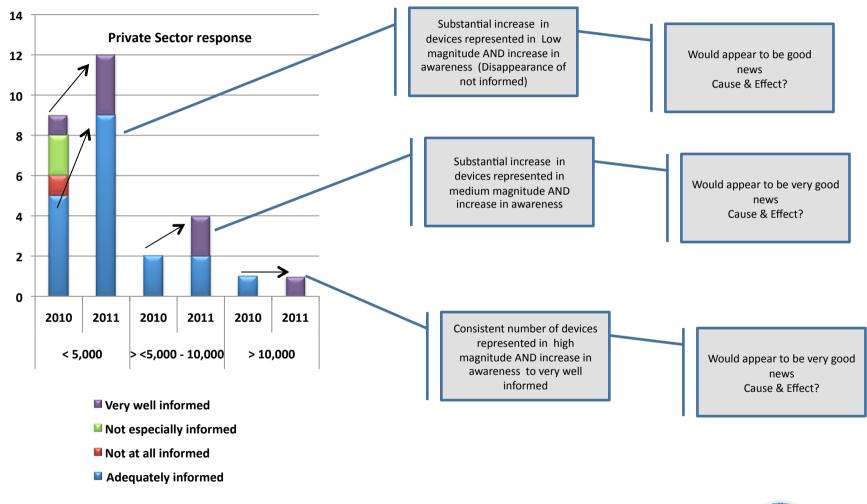


Awareness

Category	Assessment	Evidence/comments
Central Govt	Adequate	Statistics from Task Force CIO survey.
Local Govt	Adequate	Statistics from Task Force CIO survey. Engagement with ALGIM & pathfinder.
Corporate	Adequate	Statistics from Task Force CIO survey
SME's	Med-Low	ISP/Carrier survey indicate indicates low level of awareness
Consumers	Low – but low impact	Main stream TV featured IPv6 related news on 4 occasions (World IPv6 Day, APNIC address expiry, Follow on from news story in Australia) – Consumers reliant on ISP/Service providers for information.
Vendors - Networking	Adequate	
Vendors - CPE	Adequate	
System Integrators	Adequate	
ISP's / Carriers	Adequate	On-going survey & benchmarking proposed

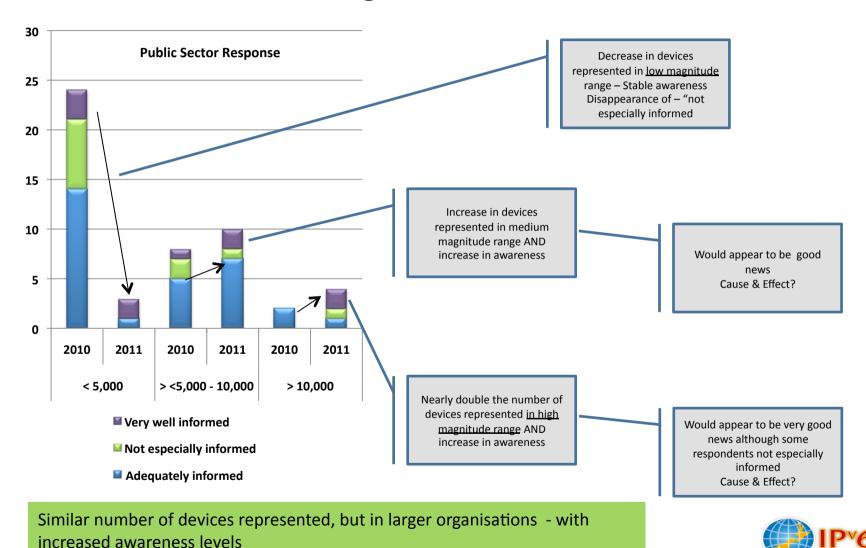


Supplementary analysis of Private response **Positive move in awareness**





Supplementary analysis of Public sector response **Positive movement and growth in sector**



Adoption / Capability (Supply side) – Strategy, Planning & Procurement

Category	Assessment	Evidence/comments
ISP's / Carriers	Adequate	OSS systems may be lagging
Vendors - Networking	Adequate	OSS systems may be lagging
Vendors - CPE	Lagging	ISP/Carrier survey indicate this group may be lagging – Task Force to engage consumer advocacy groups to progress issue.
System Integrators	Adequate	Internal training and skills development may be lagging. Proposal being considered as to how the Task Force can gain more insight into progress.



Adoption (Demand side) – Strategy, Planning & Procurement

Category	Assessment	Evidence/comments
Central Govt	Limited visibility	Anecdotally, progress being made however a diminished number of respondents in 2011 CIO survey . Task Force proactively engaging Q4 2011
Local Govt	Good progress	Tauranga City council making progress and ALGIM* involvement - scaling up.
Corporate	Adequate	Significant evidence in Top 100 CIO survey that organisations are planning for and ramping up web site transitions
SME's	Med-Low	Low visibility of this group.
Consumers	None	Early adopters are experimenting

^{*}ALGIM - Association of Local Government Information Management



Adoption examples – Activity / web sites







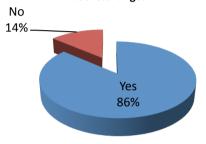
ISP/Carrier Survey – (No 1, June 2011)

- Anecdotally work is going on behind the scenes, but there is a reluctance to go public
- 41% of organisations say they currently provide IPv6-enabled products and services, with a further 25% indicating they will provide IPv6-enabled products and services within the next 12 months. (In total 66% by mid 2012.)
- 73% have a test environment now, with remainder likely to follow in within 6 months
- 73% have or are evaluating CPE.
- Consumer CPE providers appear to be behind Enterprise providers, but some respondents claim WAN CPE is not readily available as yet.
- 91% of respondents said they do not currently provide FAQ's or support for residential customers – which is consistent with respondents not yet providing residential services and many claim that CPE is not reliable and at economic price point yet.

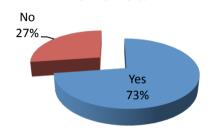


ISP / Carrier – Survey results

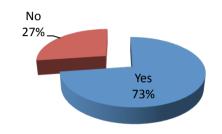
Has your organisation been allocated an IPv6 address range?



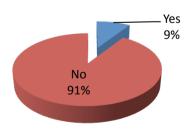
Does your organisation have an IPv6 test environment?



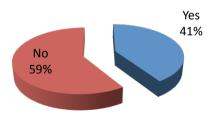
Has your organisation evaluated IPv6 support and features in CPE?



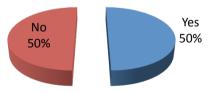
Does your organisation provide resources such as FAQs, knowledge base articles and similar for residential customers needing advice on IPv6?



Does your organisation currently provide IPv6-enabled products and services?



Does your organisation have the capability to provide business customers with IPv6 planning information?





World IPv6 Day in NZ

– what happened?



World IPv6 Day

New Zealand Summary

Task Force Media release.

Interview on NZ Tech Podcast

Significant announcements by Gen I and Telstra Clear.

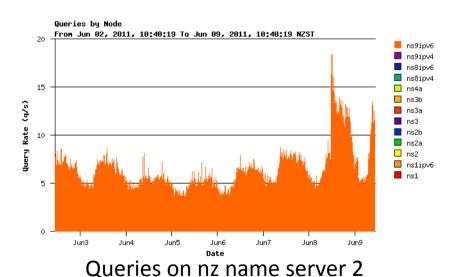
Considerable Twitter activity on the days leading up to – and on World IPv6 Day



World IPv6 Day – Stats / Comments



www.ipv6.org

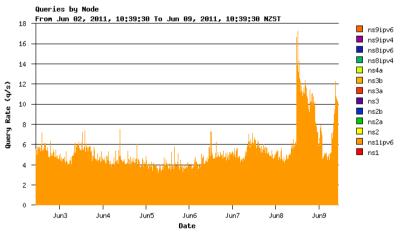


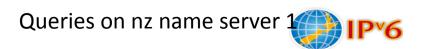
Social Media

Considerable Twitter activity on the days leading up to – and on World IPv6 Day

Mainstream Media

Task Force Media release by Dean. Interview on NZ Tech Podcast Significant announcements by Gen I and Telstra Clear.





The future

- scenario 1 and our action plan

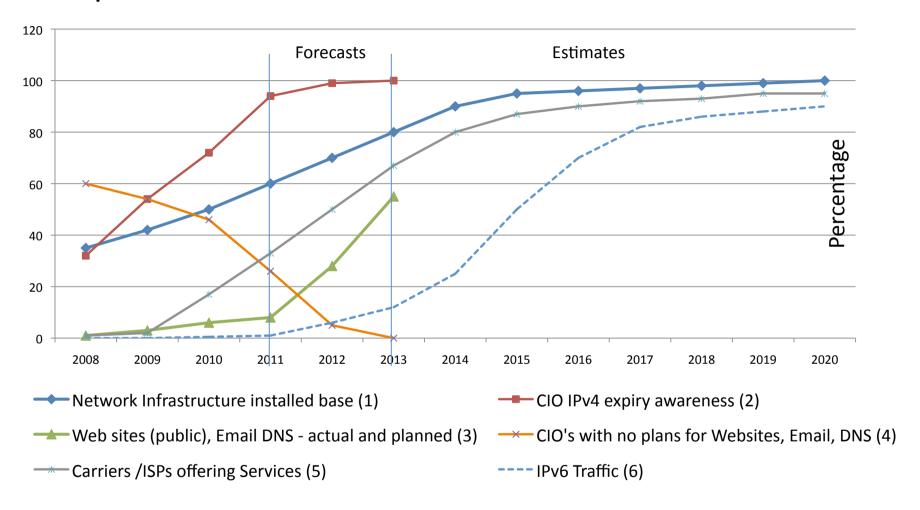


Future IPv6 Phases

- Awareness
- Capability
- Deployment
- Adoption



Adoption Scenario 1 - Our starter for discussion



- 1. Estimate (approx. 10% refresh per annum,)
- 2. Top 100 CIO survey
- 3. Top 100 CIO Survey

- 4. Top 100 CIO Survey
- 5. New Zealand statistics dept.(2011 & 12 to be confirmed)
- 6. International traffic growth forecast

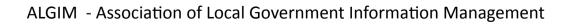
Task Force activity (Plans & Programmes)

Category	Comment
Surveys / Benchmarking	2011 Top 100 CIO completed (third year) 2011 ISP/Carrier Survey completed June (Next survey date?) Industry benchmarking – Proposal being developed.
Online and Social Media	Web site, Service Provider Directory, Training, News, Events
Govt. sector liaison	Task Fork ramping up engagement and support program
Training	Commercial IPv6 Courses available
Event attendance & Planned events	Aust. & NZ Internet awards (ANZIA), Australian IPv6 summit, ALGIM conference and NZ IPv6 Hui (s)
Pathfinder support	Tauranga City Council – Case study in progress
Collaborations	After 5's – other support required for TCL, TUANZ, ALGIM
Consumer CPE	Engaging consumer advocacy groups
System Integrators	Investigating options for case studies and stimulating progress.



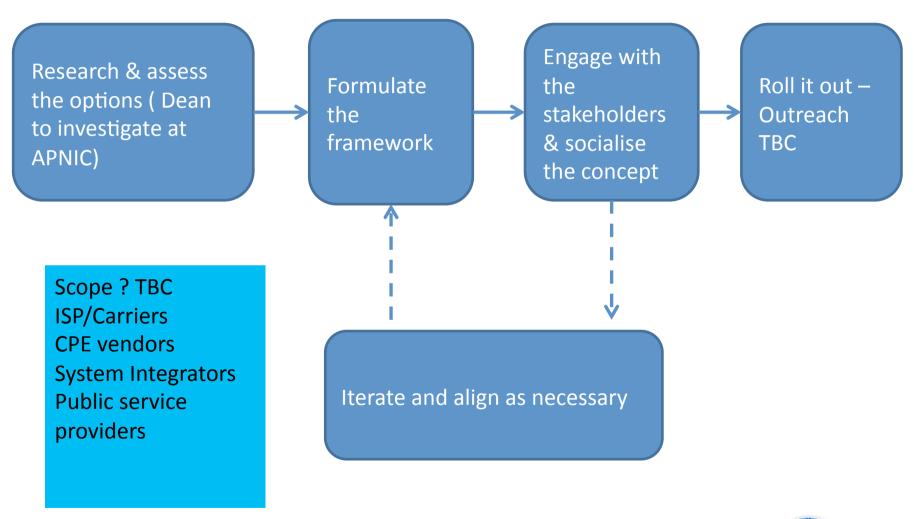
Industry group support & activity (Plans & Programmes)

Category	Comment
NZ IPv6 Task Force	Programme funded by Internet NZ and enterprise sponsors. Funded program to 31 March 2012
InternetNZ	Sponsorship of Task Force, NetHui event, Funding of Govt
TUANZ	Potential partner for after 5 events
ALGIM*	White paper collaboration in progress Conference presentation
NZICT	Confirmed support – further scope TBC
TCF	IPv6 will impact a number of work programmes
APNIC / APIPv6 TF	Provides valuable access and exposure to international progress, information and developments.



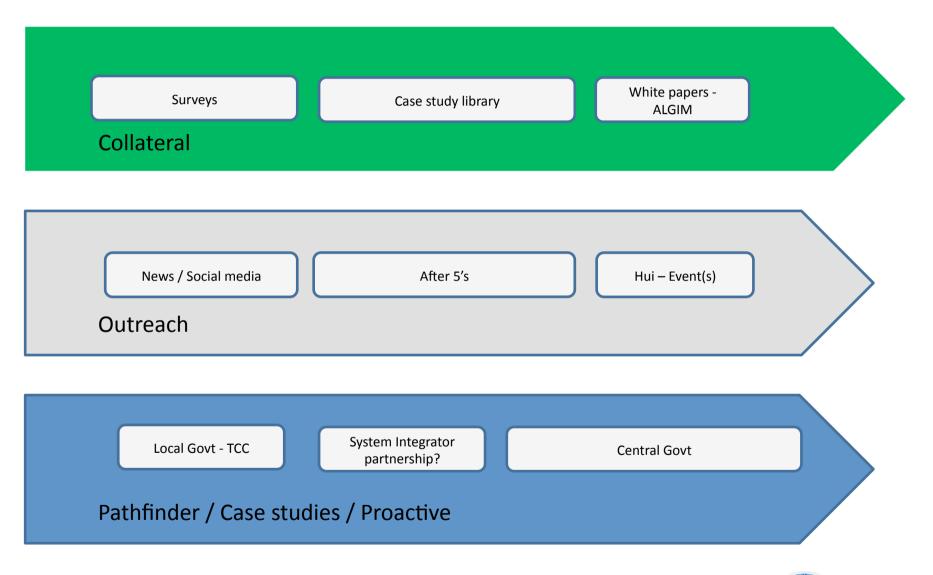


Proposal to Benchmark adoption progress in NZ





Actions per work stream – interdependencies?





Further questions?

- 1. To what extent should we be encouraging Govt ? (Eg Procurement guidelines, Citizen overseas access ?)
- 2. Can we get buy-in to an industry backed timeline?
- 3. Can we get buy-in to a Govt backed timeline?
- 4. Can we rely on market forces alone?
- 5. Impact of Govt spectrum clearance & timing of LTE, 4G on IPv6 adoption in NZ?
- 6. Carrier OSS may not be capable inside a year impact on Service availability?
- 7. Timing and impact of M2M & mobile device growth

