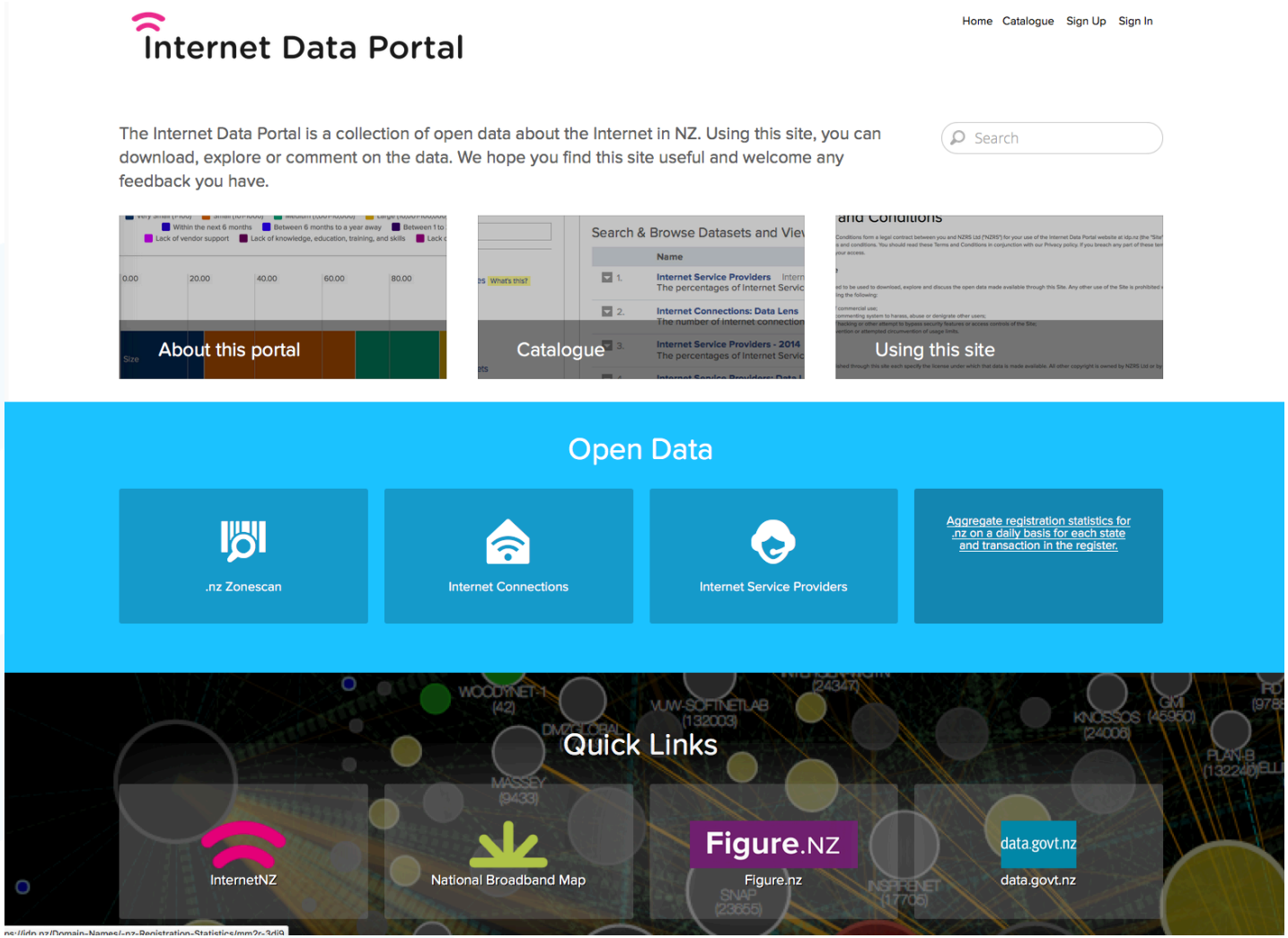
NZRS
an InternetNZ company

Internet Data Portal

Jay Daley, .nz

https://idp.nz


Internet Data Portal
Home Catalogue Sign Up Sign In
The Internet Data Portal is a collection of open data about the Internet in NZ. Using this site, you can download, explore or comment on the data. We hope you find this site useful and welcome any feedback you have.
Search
About this portal
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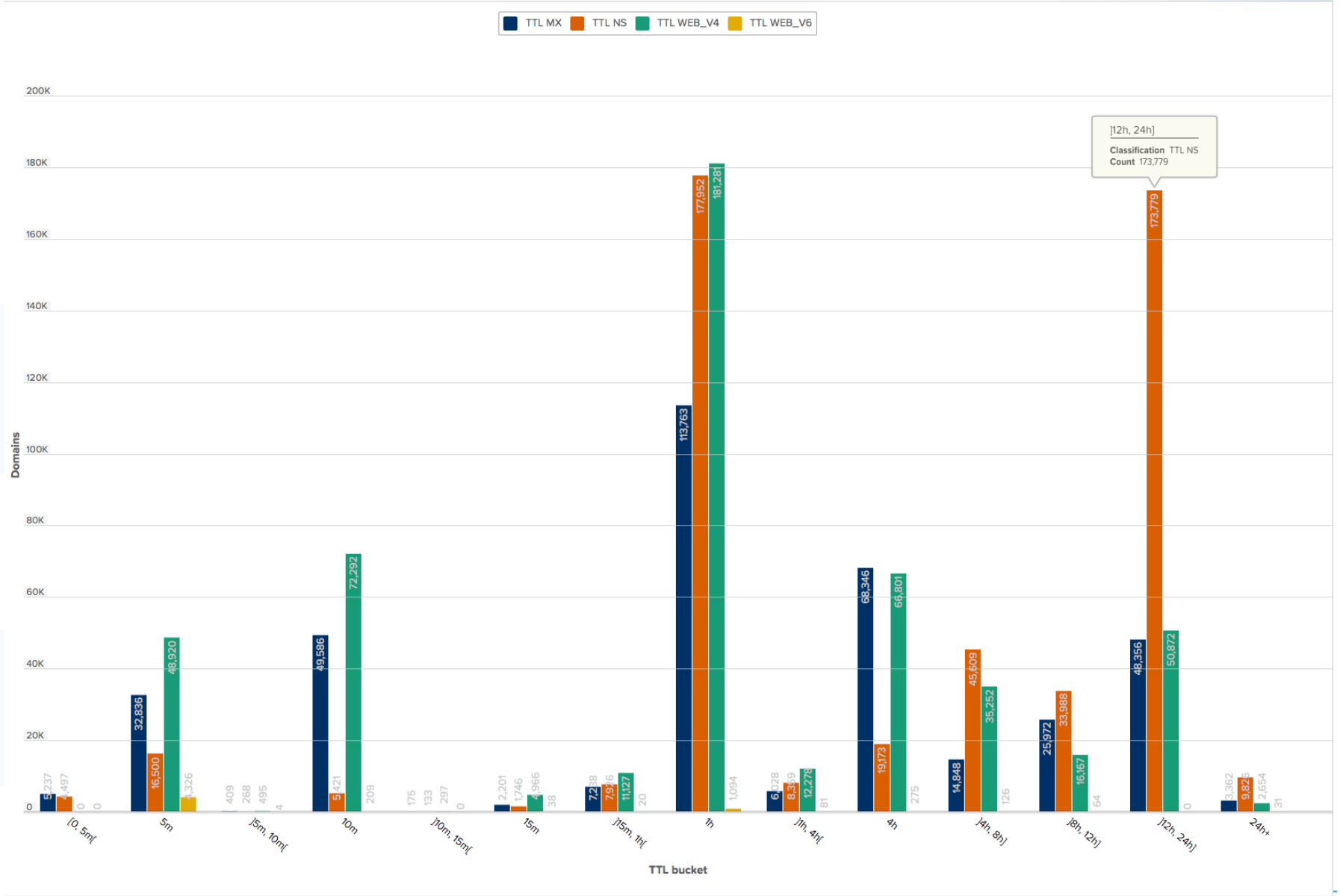
Using this site
Open Data
.nz Zonescan
Internet Connections
Internet Service Providers
Aggregate registration statistics for .nz on a daily basis for each state and transaction in the register.
Quick Links
InternetNZ
National Broadband Map
Figure.NZ
Figure.nz
data.govt.nz
data.govt.nz

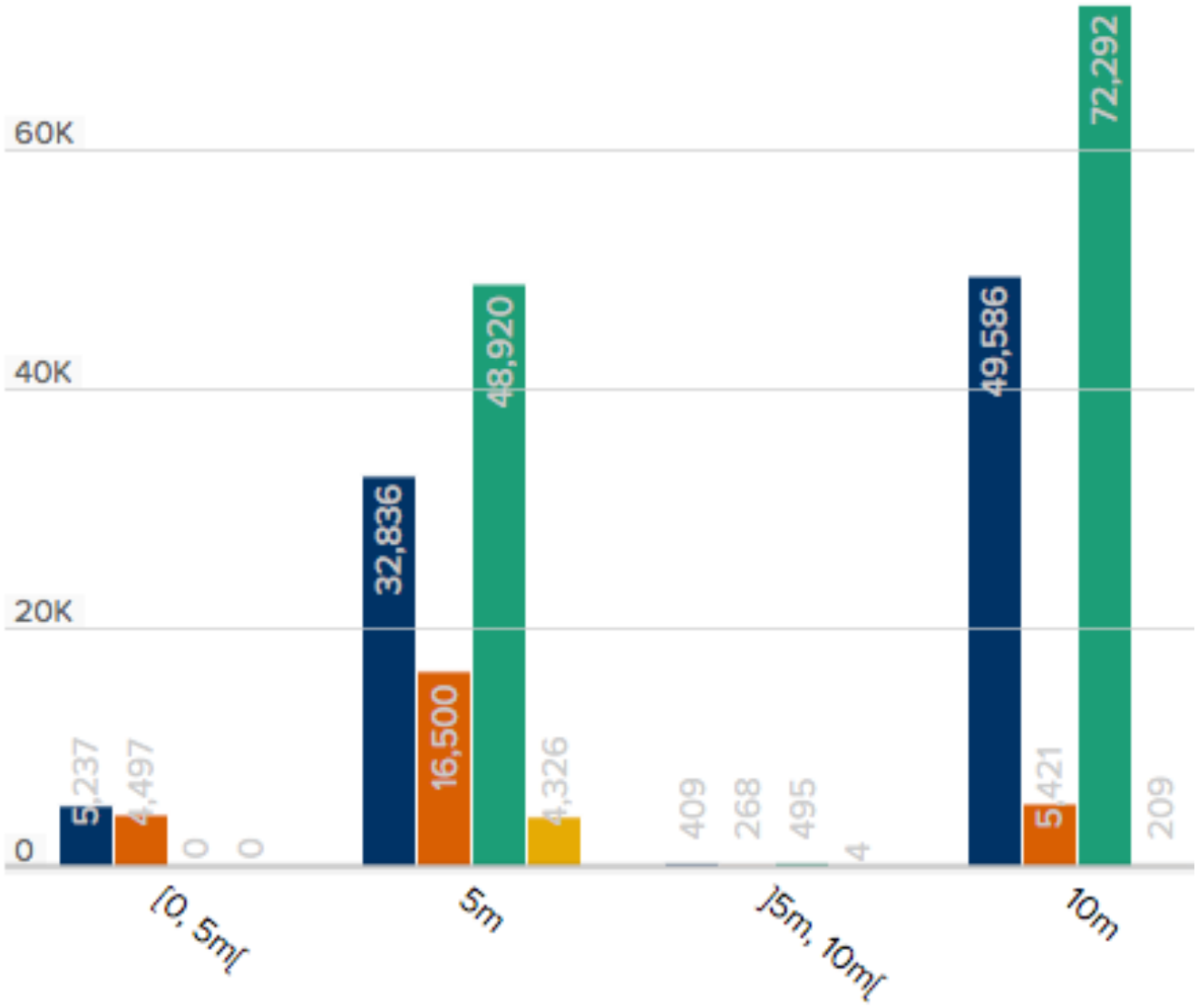
What is it

- Repository for Internet data relating to NZ
- All open data
- Place to explore
- Forum to discuss
- … and more

.nz Zone Scan – TTL August



Zoomed in


60K
40K
20K
0
5,237
4,497
0
0
32,836
16,500
48,920
4,326
409
268
495
4
49,586
5,421
72,292
209
[0, 5m[
5m
]5m, 10m[
10m

Underlying data

Classification	Metric	Count Type	Count
TTL MX	[0, 5m[	Domains	5,276
TTL MX	5m	Domains	35,362
TTL MX	]5m, 10m[	Domains	447
TTL MX	10m	Domains	56,298
TTL MX	]10m, 15m[	Domains	171
TTL MX	15m	Domains	3,449
TTL MX	]15m, 1h[	Domains	5,497
TTL MX	1h	Domains	131,345
TTL MX	]1h, 4h[	Domains	6,028
TTL MX	4h	Domains	68,775

The product

- Chose Socrata
  - US based
  - SaaS running on AWS
- Requirements
  - Decent catalogue
  - Chart designer
  - API access (OData in particular)
- Alternatives rejected
  - CKAN
  - DKAN

Current datasets

- .nz Zone Scan
  - Run monthly
  - Looks for 50+ indicators
  - Aggregate stats uploaded after each scan
- .nz Registration data
  - Transaction per day by type of transaction
  - Domains in each state
  - Aggregate stats uploaded each day
- Other
  - Web Index from Web Foundation - republished
  - NZ ISP Survey from StatisticsNZ

Long vs Wide

- Wide has one column per measure
  Year, Fibre, ADSL, VDSL, Cable
- Long has fewer columns that encode more
  Year, Access Type, Connections
- We use Long, which means
  Many more rows
  Need tools that handle clustering
  More flexibility in analysis

.nz Zone Scan data structure

- Fields (excluding admin fields)

  Classification, Metric, Count Type, Count

- Classification/Metric examples

TTL_MX	[0, 5m[
TTL_MX	5m
Domain Errors	Domains with broken delegation
Domain Errors	Domains with inconsistent glue
DNSSEC	Domains with DS records
DNSSEC	Key Algorithm RSA/SHA-1

- Count Type is one of

  Domains, Servers, Hosts, Nameservers, DNSKEY

.nz Reg stats data structure

- Fields

  Day, Parent Level Domain, Measure, Measure Type, Count

- Measure/Measure Type examples

Due for renewal	State
Pending release	State
Created	Transactions
Cancelled	Transactions

- Parent Level Domain examples

  nz, co.nz, org.nz, ac.nz, kiwi.nz, geek.nz

Thanks

Find it at https://idp.nz

Contact: Jay Daley, jay@nzrs.net.nz
www.nzrs.net.nz

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