IANA Activities Update
RIPE 69, London, UK

Kim Davies
Director, Technical Services

Topics

- New and familiar faces

- Satisfaction survey

- Number allocations

- KSK events
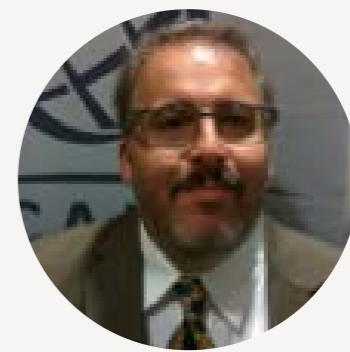
- Root management

New and familiar faces

Elise

Kim
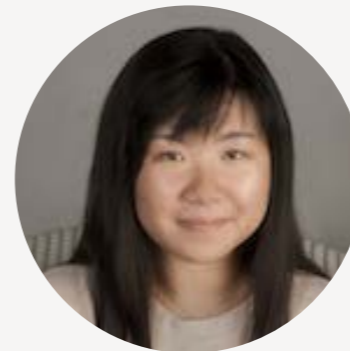

Naela
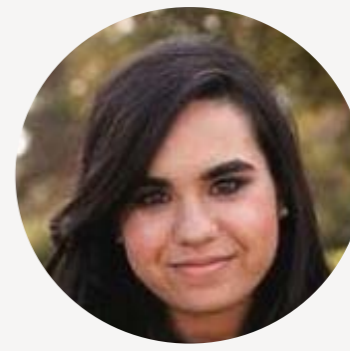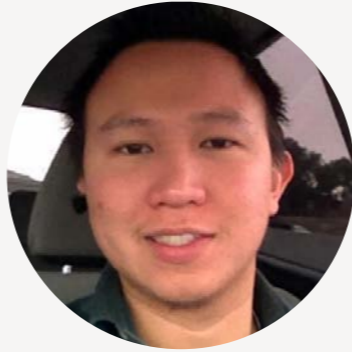

Michelle

Leo

Pearl

Amanda

Selina

Paula

Dalini

Andres

Punky

Marilia

Satisfaction survey

- 3rd annual survey

- 4,400 customers invited

- 489 respondents

- Satisfaction trending up in most key service aspects

- Plan to publish a full report in January

Number allocations

- 2 AS number allocations since RIPE 68

  - LACNIC qualified for 2 blocks

  - 1 block composed of 99 16-bit numbers and remainder in 32-bit numbers

  - 297 16-bit AS numbers remain unallocated

Number allocations (2)

- IPv4 allocations made on schedule in September

- /12 allocations (1,048,576 addresses)

45.224.0.0 — 45.239.255.255	LACNIC
45.112.0.0 — 45.127.255.255	APNIC
45.96.0.0 — 45.111.255.255	AFRINIC
45.80.0.0 — 45.95.255.255	RIPE NCC
45.16.0.0 — 45.31.255.255	ARIN

Scheduled IPv4 allocations

Allocate twice per year

Allocations happen on a pre-defined schedule

MAR
1

SEP
1

Use formula posted online

ICANN publishes the formula used to make selection as
open source available for anyone to inspect.
github.com/icann/ipv4-recovery-algorithm

```python
def find_best_match(self, amount, allocatee):

    candidates = {}
    for block in self.recovered.entries:
        score = float(math.log(len(block), 2))/32
        if block.preference == allocatee:
            score += 0.8
        if len(block) == amount:
            score += 0.2
        candidates[block] = score
    for block in reversed(sorted(candidates.iteritems()
        size = block[0].end - block[0].start + 1
        if size > amount:
            return (block[0].start, IPv4Address(block[0
        else:
            return (block[0].start, block[0].end)
```

Communicate results

After the formula is applied per the schedule, the results are
communicated to the RIRs and operations community, and
the IANA registry is updated.
iana.org/assignments/ipv4-recovered-address-space

Allocation of Number Resource KPIs

Metric	Target	Actual	Target Met
Accuracy (1) — Policy is correctly implemented.	100%	100%	✅
Accuracy (2) — Registry is updated before notifying requestor of allocation.	100%	100%	✅
Timeliness and Process Quality (1) — For a specific request, ICANN does not need to seek more than two iterations of clarification from the requesting Regional Internet Registry in order to correctly apply the registration policy.	100%	100%	✅
Timeliness and Process Quality (2) — Requests are to be completed within 7 days.	100%	100%	✅
Transparency (1) — Public announcement of an allocation is made on the same day as the allocation being recorded in the IANA registry.	100%	100%	✅
Transparency (2) — An implementation schedule for a new global policies under C.2.9.3 will be posted following ratifications within 14 days for simple policies, and 30 days for complex policies.	100%	100%	✅

Performance standards consultation completed in April 2013:
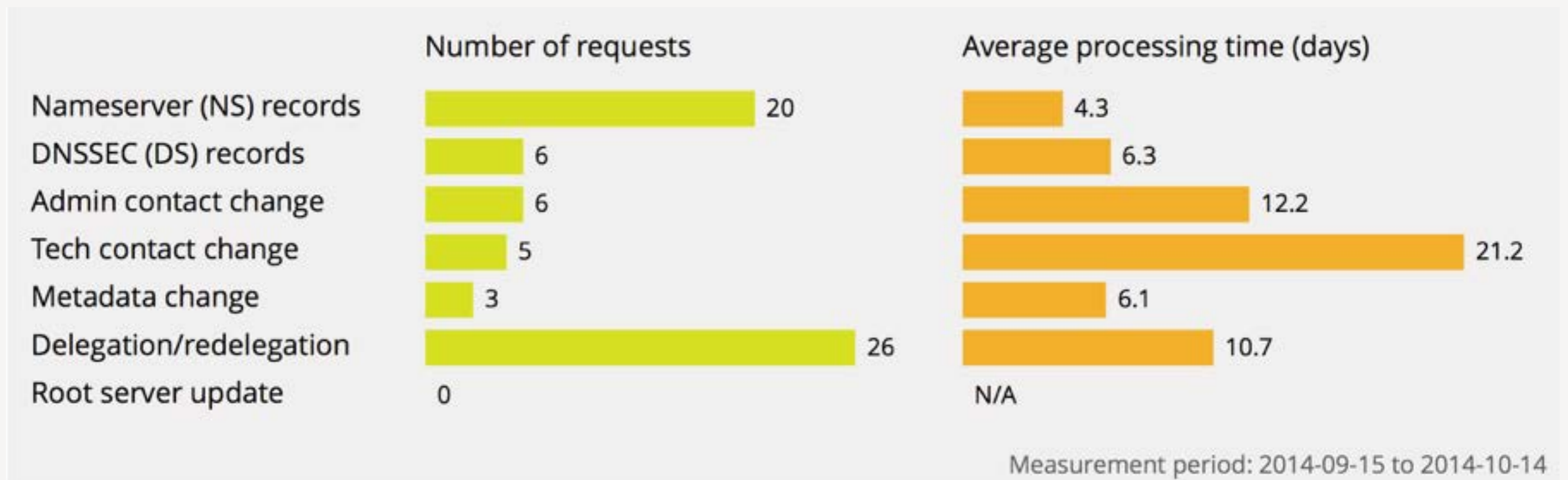http://icann.org/resources/pages/iana-kpis-2012-11-20-en

Root Management (1)

- 1 year since we started delegating new gTLDs

- 428 gTLDs were delegated as of 28 October 2014

  - 35 new gTLDs are IDNs

- Performance data at
  http://iana.org/performance

Root Management (2)

Number of requests

Nameserver (NS) records	20
DNSSEC (DS) records	6
Admin contact change	6
Tech contact change	5
Metadata change	3
Delegation/redelegation	26
Root server update	0

Average processing time (days)

	4.3
	6.3
	12.2
	21.2
	6.1
	10.7
	N/A

Measurement period: 2014-09-15 to 2014-10-14

Root Key Signing Key Events

- KSK Ceremonies

  - Last: 14 August 2014 in El Segundo, CA, USA
    http://iana.org/dnssec/ceremonies/18

  - Next: 20 November 2014, Culpeper, VA, USA
    http://iana.org/dnssec/ceremonies/19

- DNSSEC Key Rollover Workshop held at ICANN 51
  http://la51.icann.org/en/schedule/thu-dnssec-key-rollover

Thank you!