



IANA Activities Update  
LACNIC 22, Santiago, CL  
October 2014  
Elise Gerich, VP of IANA

# Agenda

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- 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

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- 3<sup>rd</sup> 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

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- **2 AS Number allocations since LACNIC 21**
  - 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 allocation made on schedule in September
  - /12 (1,048,576 addresses)

Start address	End address	Designation	Date	Whois	Status	Note
45.224.0.0	45.239.255.255	LACNIC	2014-09	whois.lacnic.net	ALLOCATED	
45.112.0.0	45.127.255.255	APNIC	2014-09	whois.apnic.net	ALLOCATED	
45.96.0.0	45.111.255.255	AFRINIC	2014-09	whois.afrinic.net	ALLOCATED	
45.80.0.0	45.95.255.255	RIPE NCC	2014-09	whois.ripe.net	ALLOCATED	
45.16.0.0	45.31.255.255	ARIN	2014-09	whois.arin.net	ALLOCATED	

# Scheduled IPv4 Allocations

- Allocate IPv4 addresses twice per year
  - Allocation happens on a pre-defined schedule
- Use formula posted online
  - ICANN publishes the formula used to make selection as open source available for anyone to inspect
    - <https://github.com/icann/ipv4-recovery-algorithm>
- 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
    - <http://www.iana.org/assignments/ipv4-recovered-address-space/>



```
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(), key=operator
    size = block[0].end - block[0].start + 1
    if size > amount:
        return (block[0].start, IPv4Address(block[0].start + a
    else:
        return (block[0].start, block[0].end)
```

# Allocation of Numbering Resources KPI's

## Key Performance Indicators

Metric	Target
<b>Accuracy (1)</b> — Policy is correctly implemented.	100%
<b>Accuracy (2)</b> — Registry is updated before notifying requestor of allocation.	100%
<b>Timeliness and Process Quality (1)</b> — 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%
<b>Timeliness and Process Quality (2)</b> — Requests are to be completed within 7 days.	100%
<b>Transparency (1)</b> — Public announcement of an allocation is made on the same day as the allocation being recorded in the IANA registry.	100%
<b>Transparency (2)</b> — 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%

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





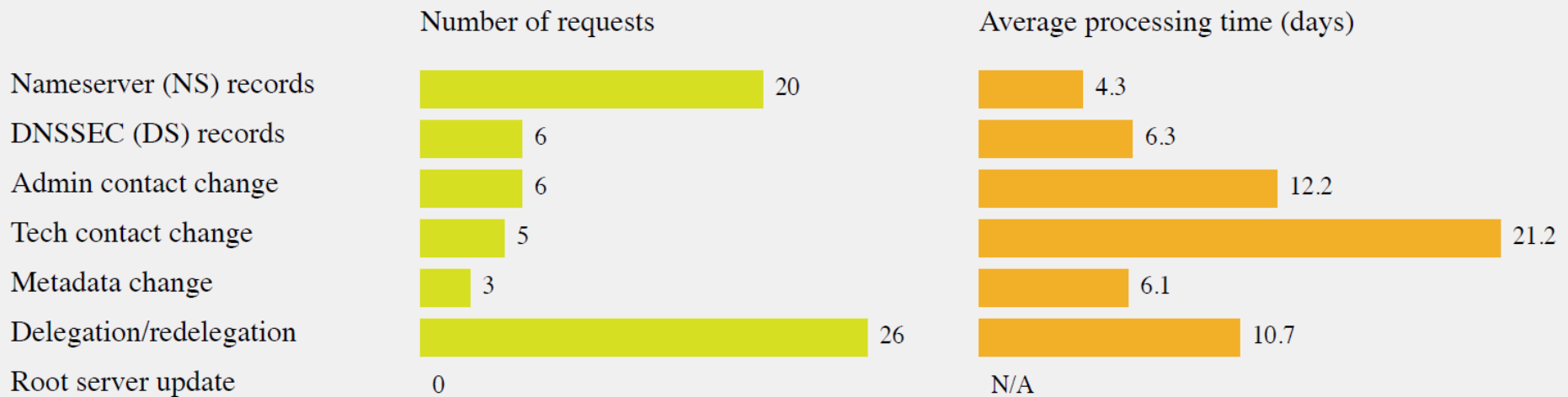
# Root management (1)

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- 1 year since we started delegating new gTLDs
- 428 gTLDs were delegated as of 28 October 2014
  - 35 gTLDs are IDNs
- Performance data at [iana.org/performance](http://iana.org/performance)

# Root management (2)

- This is how long things take



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

# Key Signing Key (KSK) Events

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- KSK Ceremonies:
  - Last Ceremony: KSK Ceremony 18, performed on 14 August 2014 at El Segundo CA, USA <https://www.iana.org/dnssec/ceremonies/18>
  - Next Ceremony: KSK Ceremony 19, planned on 20 November 2014 at Culpeper VA, USA <https://www.iana.org/dnssec/ceremonies/19>
- DNSSEC Key Rollover Workshop held at ICANN51 <http://la51.icann.org/en/schedule/thu-dnssec-key-rollover>

# Questions

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# Social Media



<https://twitter.com/ICANN>



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