



Next Steps for WHOIS Accuracy Global Domains Division ICANN 53 | 24 June 2015

Agenda: Next Steps for WHOIS Accuracy Reporting System







Background and Goals

WHOIS activities at ICANN

Policy, Implementation, Technical

Where does WHOIS ARS fit?

- Major implementation initiative
- 2012 WHOIS RT and GAC Advice
- Key objective: systematically improve accuracy

Multi-phase project

- Public reports
- Compliance component

And now for the detail.



WHOIS ARS Background and Goals

Mandate

- The Board directed the CEO to establish a project to:
 - Proactively identify inaccurate gTLD registration data, exploring the use of automated tools
 - Forward potentially inaccurate records to registrars for action
 - Publicly report on the resulting actions to encourage improvement

Objective

Identify and report in a way to improve quality of the data in the WHOIS



Phased Implementation of WHOIS ARS Project



Pilot: Proof of Concept

Tested processes for data collection and validation.

Completed March 2015

Phase 1: Syntax Validation

Is the record correctly formatted?

Target Report: August 2015



Phase 2: Operational Validation

Does the email go through, phone ring, mail deliver?

Target Report: December 2015

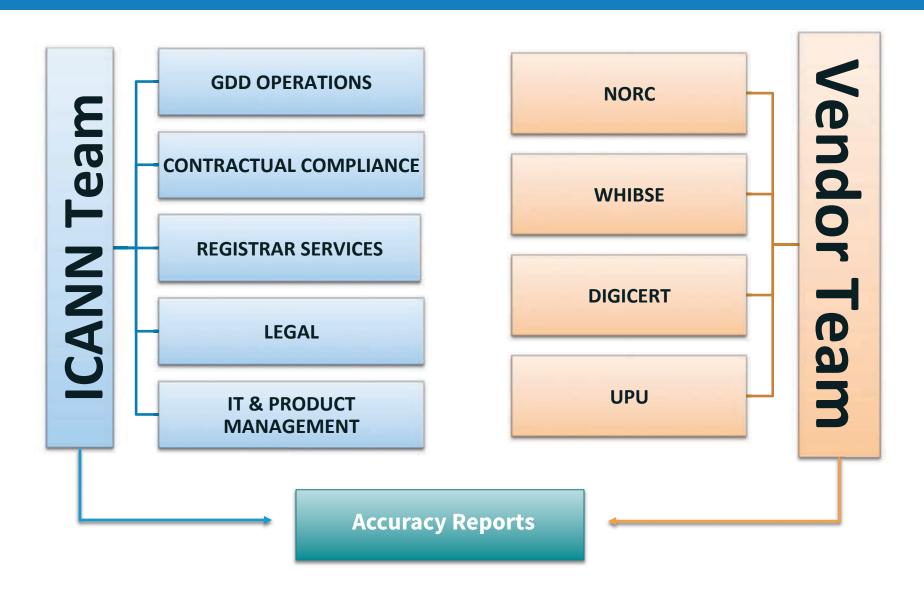


Phase 3: Identity Validation, TBD, if at all:

Is the contacted individual responsible for the domain?



WHOIS ARS Utilizing a Cross-Functional Team





ARS Project Approach

Identify sample records

Collect WHOIS records for sample

Select subsample for accuracy testing

Perform accuracy testing

Analyze results & produce report

Compliance follow up with registrars



Roadmap for Phases 1 & 2



- Pilot is complete
- Phase 1 Syntax Report on track for publication in August 2015
- Phase 2 Operational report, expected in December 2015
 - Followed by new Phase 2 reports each six months





Opportunities for Improvement from the Pilot

Pilot was successful as a proof of concept. Two major areas of learning:

Criteria

- Align to RAA
- Respect effective date
- Registrant, Tech & Admin contacts

Reporting

- Statistical significance
- Reasons for inaccuracy
- Actionable data

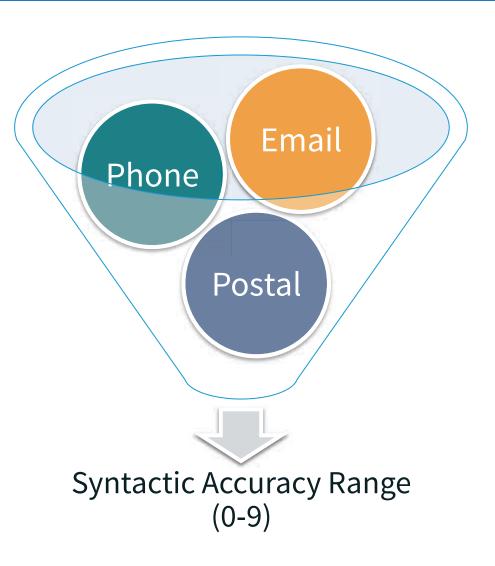




Phase 1 - Building on Lessons Learned from Pilot

Registrar Accreditation Agreement Requirements

 Criteria posted to Knowledge Center on: <u>whois.icann.org</u>



ARS Phase 1 Report Expectations

Accuracy Statistics by Segment

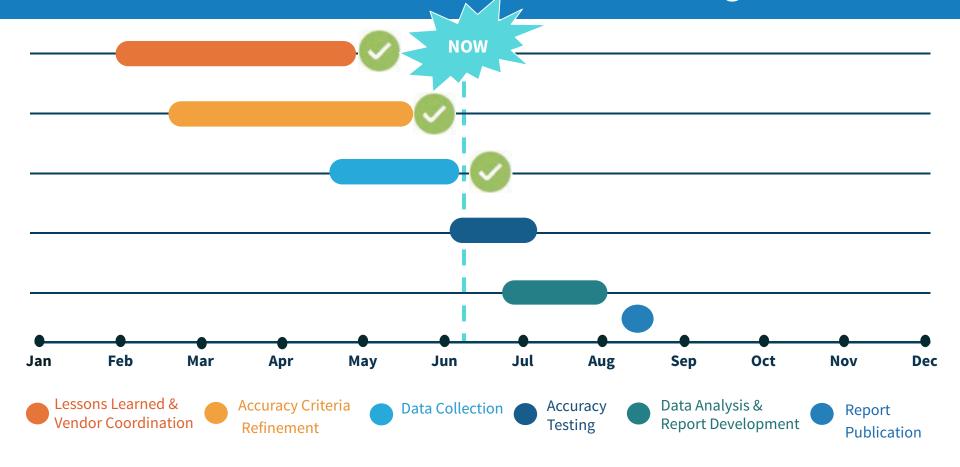
- 95% confidence intervals, ≤+/- 5% margin of error
- Reporting syntactic accuracy for the following segments:
 - The gTLD space, by region and in total
 - New gTLDs compared to prior (legacy) gTLDs
 - 2013 RAA records compared to 2009 RAA records
- Compliance will be provided report of all inaccurate records for registrar follow up

Summary Report will Focus on Why Records are Inaccurate

- Understanding the errors can enable:
 - Registrar improvements
 - Registrant updates / corrections
 - Community to consider improvement initiatives based on data



Phase 1 – On Track for Publication in Mid-August



- Phase 1 Criteria published to: <u>Knowledge Center on whois.icann.org</u>
- Accuracy Testing of 10k records underway, expected completion in early July 2015
- Planning a webinar in August 2015 after publication to explain results



WHOIS ARS Phase 1 Demographics

At Time of Sample

Records in gTLDs	Prior TLDs	New gTLDs	2013 RAA Registrar		
157M	96.85%	3.15%	+95%*		

100k Sample

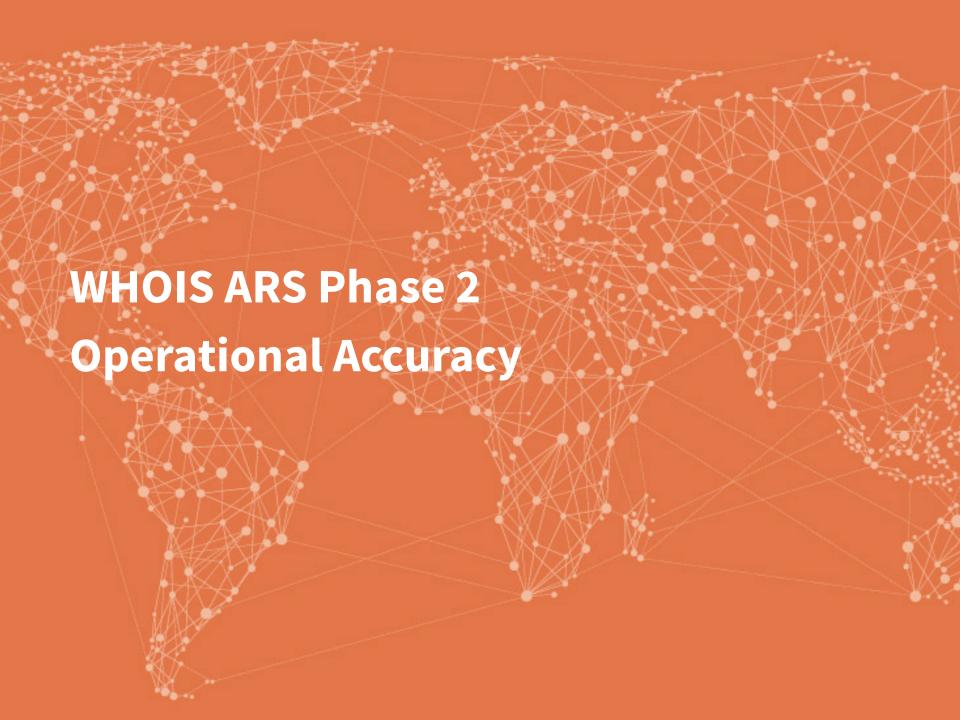
AFR	LAC	EUR	APAC			GF 2013 RAA			
.07%	3%	23%	24%	49%	3%	51%	46%	25%	75%

10k Sub-sample

AFR	LAC	E	EUR	APAC			GF 2013 RAA		New gTLDs	Prior gTLDs
7 %	6 18	%	19%	21%	35%	18%	44%	38%	20%	80%

^{*} Majority of these are "grandfathered" 2013 RAA records, record created prior to effective date of 2013 RAA





WHOIS ARS Phase 2 – Operational Accuracy

Phase 2 = Syntax + Operability

Examples of operability tests:

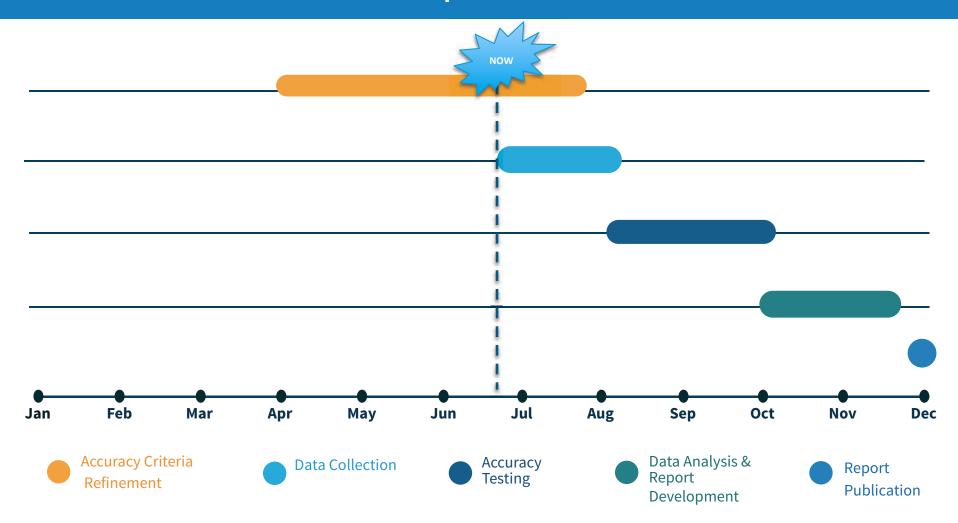
- Email: Does the email go through / not bounced back?
- Phone: Does the number ring when dialed?
- Postal: Is the address deliverable?

Phase 2 Criteria Aligned to RAA Obligations

- Contact information in the WHOIS must be accurate
- Working standard is "used for intended purpose, i.e. contactable"
- Lessons learned from Phase 1 will be incorporated & criteria updated for Phase 2



WHOIS ARS Phase 2 Implementation Plan







WHOIS ARS Compliance Pilot

Goal of Compliance Pilot:

• Test the proof of concept: Use WHOIS ARS data to generate and forward WHOIS inaccuracy and WHOIS format complaints to registrars.

Summary of Events from January – April 2015:

- Telephone and email inaccuracy reports sent to contractual compliance
- Conducted initial review and validation of the data and collaboration with the WHOIS ARS ICANN and vendors.
- Uploaded the data into the complaint processing system.
- Began processing complaints.
- Stopped processing to address data issues based on registrar feedback.
- Resumed complaint processing.
- Closed complaints in system if data was incomplete or did not meet the contractual criteria.



WHOIS ARS Compliance Pilot

Overview

Complaint volume and outcome

- 10,510 complaints tickets created
- 71 tickets sent to registrars
- 10,439 closed before sending to Registrars (see below)

Top Closure Resolve Codes:

- Incomplete (9941)
- Domain not registered (337)
- Domain suspended or canceled (208)
- Complaint inconsistent with current WHOIS (12)
- Data changed (9)
- Registrar verified correct (8)

Note: some complaints are closed with multiple closure codes; total will not equal to 10,510



WHOIS ARS Compliance Pilot (continued)

Lessons Learned

- Inaccuracy criteria used for the sampling was not aligned with RAA/ICANN process:
 - Cross-team collaborated to align on test criteria.
 - WHOIS ARS Phase 1 Validation Criteria published at: http://WHOIS.icann.org/sites/default/files/files/WHOIS-ars-phase-1-validation-criteria-01jun15-en.pdf
 - Ensure future WHOIS ARS reports are complete.
- Large complaint ticket influx burdened the complaint processing system.
- Separate data files from vendors caused inefficiency and duplication.
 - Request to consolidate the reports and where appropriate all identified inaccuracies for a domain are placed in one record.



WHOIS Accuracy Reporting System

Enforcing Contractual Obligations

- Registrars must investigate and correct inaccurate WHOIS data per:
 - Section 3.7.8 of 2009 and 2013 RAA and
 - WHOIS Accuracy Program Specification of 2013 RAA.
- Registrars under 2013 RAA must use WHOIS format and layout required by Registration Data Directory Service (WHOIS) Specification.
- WHOIS inaccuracy and WHOIS format complaints created from WHOIS ARS data will follow the Contractual Compliance Approach and Process as published at: https://www.icann.org/resources/pages/approach-processes-2012-02-25-en.
- Failure to respond or demonstrate compliance during complaint processing will result in a Notice of Breach (and publication of notice on icann.org).
- ICANN will continue to give priority to complaints submitted by community members.



Community Input Processes

Registrar Advisory Panel Topics

- Accuracy criteria (which were also published)
- Method/mechanism for delivering inaccurate WHOIS records to registrars
- Method/mechanism for registrar reporting to ICANN Compliance on actions taken

Public Comment

- Outcomes / metrics
- Compliance enforcement process and results
- General feedback
- Could lead to formation of advisory group, depending on issue complexity or contentiousness.



Summary

Phase 1 – Syntax Phased approach to on track for report in ARS implementation. August 2015. Phase 2 – Operational Kicking off in Q2 2015. Compliance to follow Report in December up with Registrars. 2015.

Questions?

