



WHOIS Accuracy Reporting System (ARS): Phase 1 Results Webinar | 26 August 2015

ICANN GDD Operations
NORC at the University of Chicago

Webinar Agenda

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WHOIS ARS Background



WHOIS Policy Review Team recommends improvements ICANN Board approves creation of ARS

effective date of the 2013 RAA WHOIS Accuracy Specification Draft
Implementation
Plan of the ARS
published for
public comment

RFP for ARS Development and Pilot Study released Pilot Study Conducted



WHOIS ARS Implementation



Pilot (Public Comment Report Completed March 2015)

"Proof of Concept": Tested processes for data collection and validation



Phase 1: Syntax Validation

Is the record correctly formatted?

Report: 24 August 2015



Phase 2: Operational Validation

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

1st Report: December 2015; 2nd Report: June 2016



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

Is the contacted individual responsible for the domain?



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

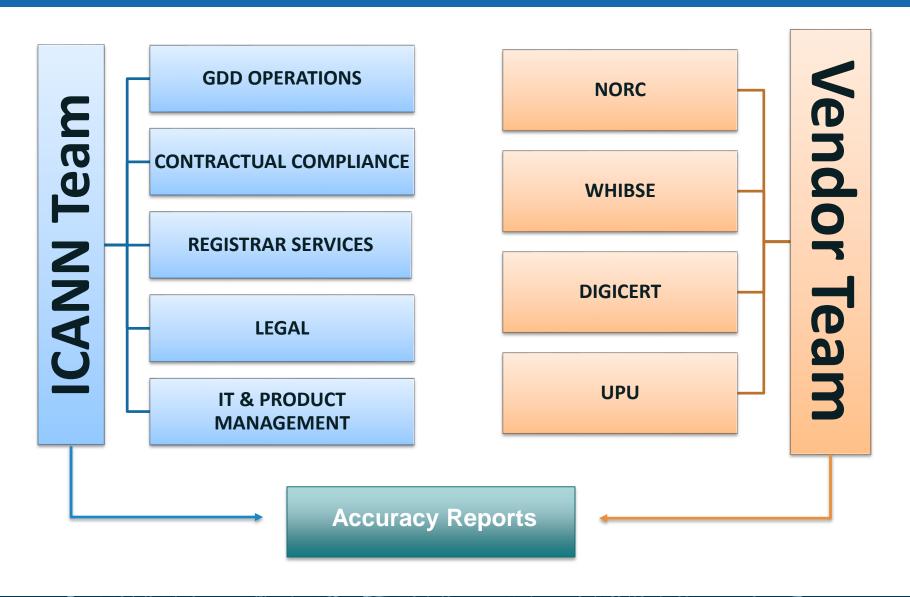
Reporting

- Statistical significance
- Reasons for inaccuracy
- Actionable data



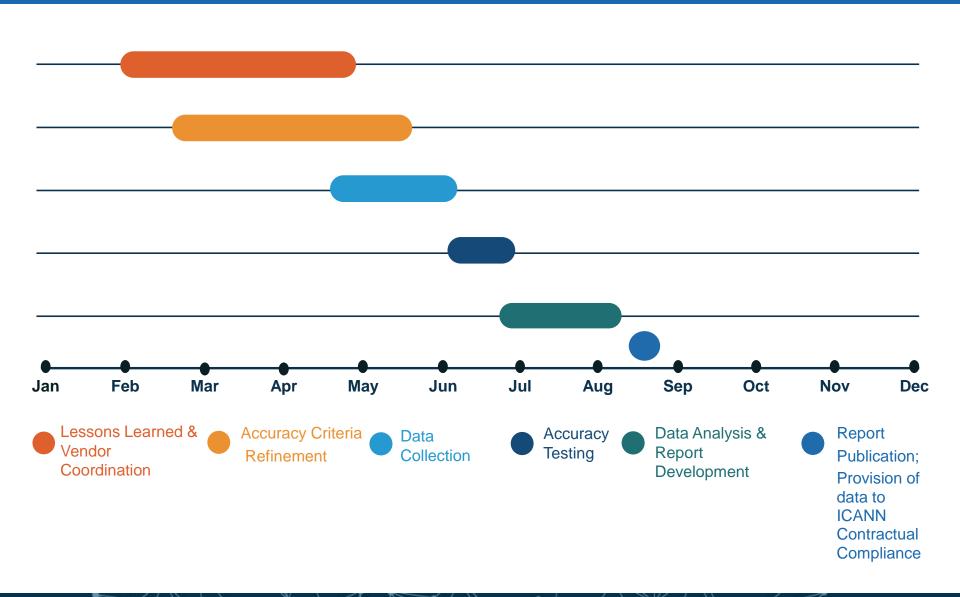


Phase 1 Cross-Functional Team





Phase 1 Timeline







WHOIS ARS Phase 1 Demographics

<u>gTLD Population At Time of Sample (April 2015)</u>

Records in gTLDs	Total gTLDs	2009 RAA*	2013GF RAA*	2013 NGF RAA*	New gTLDs	Prior gTLDs
157m	610	3.5%	65.7%	30.8%	3.15%	96.85%

100k Sample

AFI	R	LAC	EUR	APAC	N.A.	2009 RAA	2013GF RAA	2013 NGF RAA	New gTLDs	Prior gTLDs
.07	' %	3%	23%	24%	49%	3%	51%	46%	25%	75%

10k Sub-sample

AFR	LAC	EUR	APAC	N.A.	2009 RAA	2013GF RAA	2013 NGF RAA	New gTLDs	Prior gTLDs
7%	18%	19%	21%	35%	18%	44%	38%	20%	80%

^{*} Weighted estimates from 100k sample



Phase 1 – Contact types, modes, and testing criteria

Registrant

- Email Address
- Telephone Number
- Postal Address

RAA Type (2009, 2013GF, 2013NGF)

Technical

- Email Address
- Telephone Number
- Postal Address

Criteria listed in Appendix A

Does the email address contain an "@"?

Criteria Examples

Does the telephone number have a country code?

Does the postal address include an identifiable country?

Administrative

- Email Address
- Telephone Number
- Postal Address

Phase 1 – Report Highlights

Accuracy Statistics by Subgroup

- Phase 1 Report provides accuracy rates for:
 - The gTLD space, by region and in total
 - New gTLDs compared to Prior (legacy) gTLDs
 - RAA Type (2009, 2013GF, 2013NGF)
- ⊙ Data within 95% confidence intervals, ≤+/- 5% margin of error

Report describes why records are inaccurate

- All domains evaluated against 2009 RAA requirements
- Appendix C provides results on 2013NGF domains
- Detailed tests enable us to know why a record is inaccurate





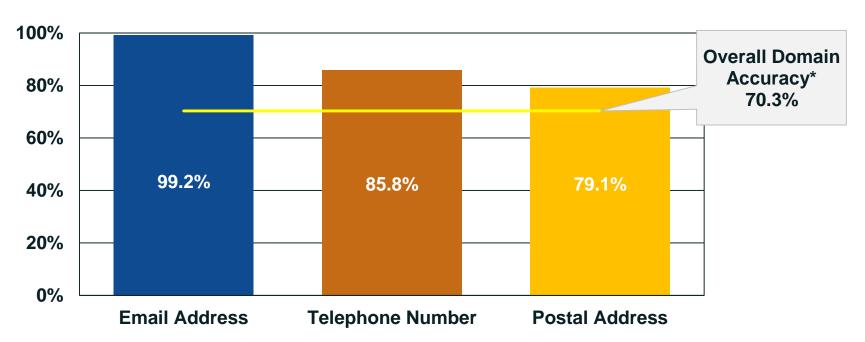
Phase 1 – Summary of Findings

- Accuracy very similar for Registrant, Administrative, and Technical
- Email accuracy very high; postal address lowest (most complex)
 - If an email address is provided, it passed all the tests
 - Two-thirds of telephone number errors due to wrong # of digits
 - Postal address errors: typically missing 1+ required field
- 70.3% of all domains meet all 2009 RAA syntax requirements
 - For all three contact types (Registrant, Administrative, Technical)
 - For all three contact modes (email, telephone, postal address)
- Following findings are estimates applicable to the entire gTLD space or respective subgroup



Phase 1 - Conformance to 2009 RAA*, by Contact Mode





- Contact mode accuracy requires accuracy on all 3 contact types
 - Registrant, Administrative, Technical Contacts
- Overall accuracy requires accuracy on all 3 contact modes and all 3 contact types



Phase 1 - Conformance to 2009 RAA*, by RAA Type

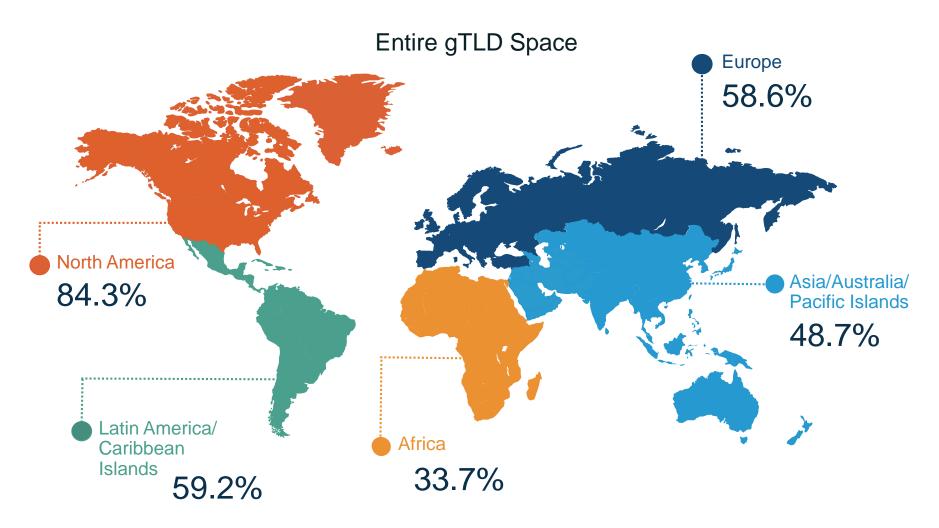




 Accuracy here also requires accuracy on all 3 contact modes and all 3 contact types



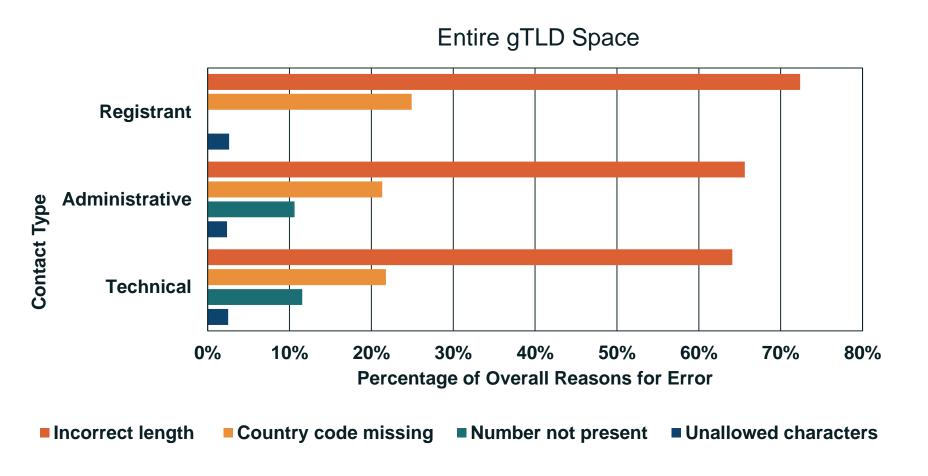
Phase 1 – Conformance to 2009 RAA by Region



 Accuracy here also requires accuracy on all 3 contact modes and all 3 contact types



Phase 1 - Reasons for Telephone Error (2009)

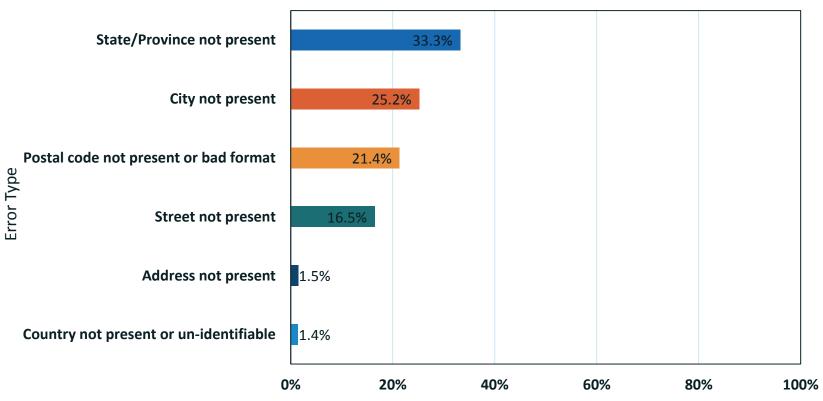


Note: "Number not present" error is omitted from the Registrant contact type because it is not a requirement for the Registrant contact type. The "Extension Character" error type has been omitted from this graph because it represents less than 0.1% of errors in each contact type. As a result, the sum of errors shown is slightly less than 100% for each contact type.



Phase 1 - Reasons for Postal Address Error (2009)

Entire gTLD Space



Percent of Overall errors for contact type

Among 9,789 Registrant postal address errors found in the 10,000 record subsample





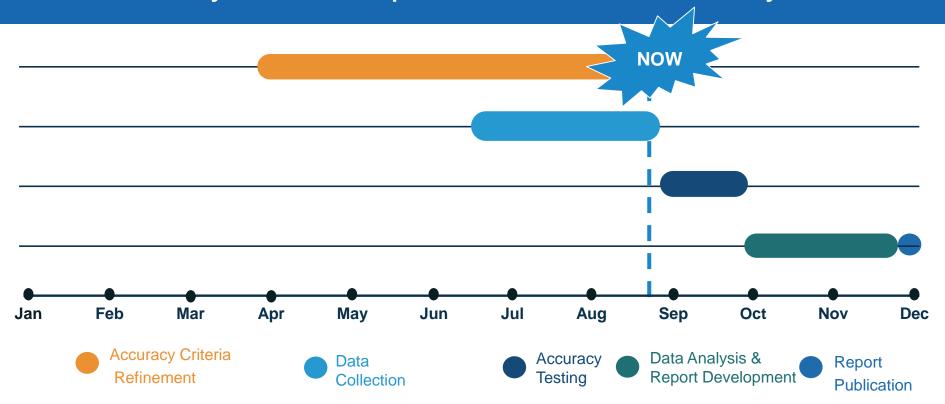
Next Steps – ICANN Contractual Compliance

- Potentially inaccurate records have been provided to ICANN Contractual Compliance
 - Due to sample weighting and 2013 requirements, total number of records identified as nonconforming exceeds 30% of 10k subsample
- Registrars must investigate and correct inaccurate WHOIS data:
 - Section 3.7.8 of 2009 and 2013 RAA (and WHOIS Accuracy Program Specification)
 - Failure to respond or demonstrate compliance during complaint processing will result in a Notice of Breach
- Registrars under 2013 RAA must use WHOIS format and layout required by Registration Data Directory Service Specification
- WHOIS inaccuracy and format complaints will follow the Contractual Compliance Approach and Process
- ICANN will continue to give priority to complaints submitted by community members





Phase 2, Cycle 1 – Implementation Underway



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 1 Summary

Phase 1
Syntax Accuracy
Report published
24 August 2015

Subsample of 10k records; Accounted for regions and RAA type 70% accuracy rate on all 2009 RAA requirements

Compliance will conduct follow up on potentially inaccurate records

Community
Feedback in 4th
Quarter 2015

Phase 2 underway; 1st Report in December 2015



Questions & Answers

