

ICANN|57 HYDERABAD



WHOIS Address Cross Field Validation

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**Definition
&
Purpose**

**Strawman
Proposal**

**Vendor
Selection
Criteria**

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Definition and Proposed Purpose

A set of tools that enable the Registrar Community to perform an correctness check and ensure greater accuracy of physical address information associated with the Registered Name Holder.

2013 RAA Contract Language - Across Field Verification (WHOIS Accuracy Program Specification)

‘Validate all postal address fields are consistent across fields where such information is technically and commercially feasible for the applicable country, region or territory *i.e. street exists in city, city exists in state/province, city matches postal code*’

Proposed Benefit

By incorporating a Address Field Accuracy Validation tool(s) , Registrars and Registrants will enhance the creditability of the data contents contained within WHOIS based on **leveraging commercially viable tools that support address validation with limited margin of error, for named countries, regions, etc.** As a result, greater registrant engagement is feasible given the increased accuracy of contact information.

Re-engagement: Registrar WHOIS Validation Working Group

- Doodle Poll to members by 20 November 2016 to kick start engagement and review of Strawman Proposal

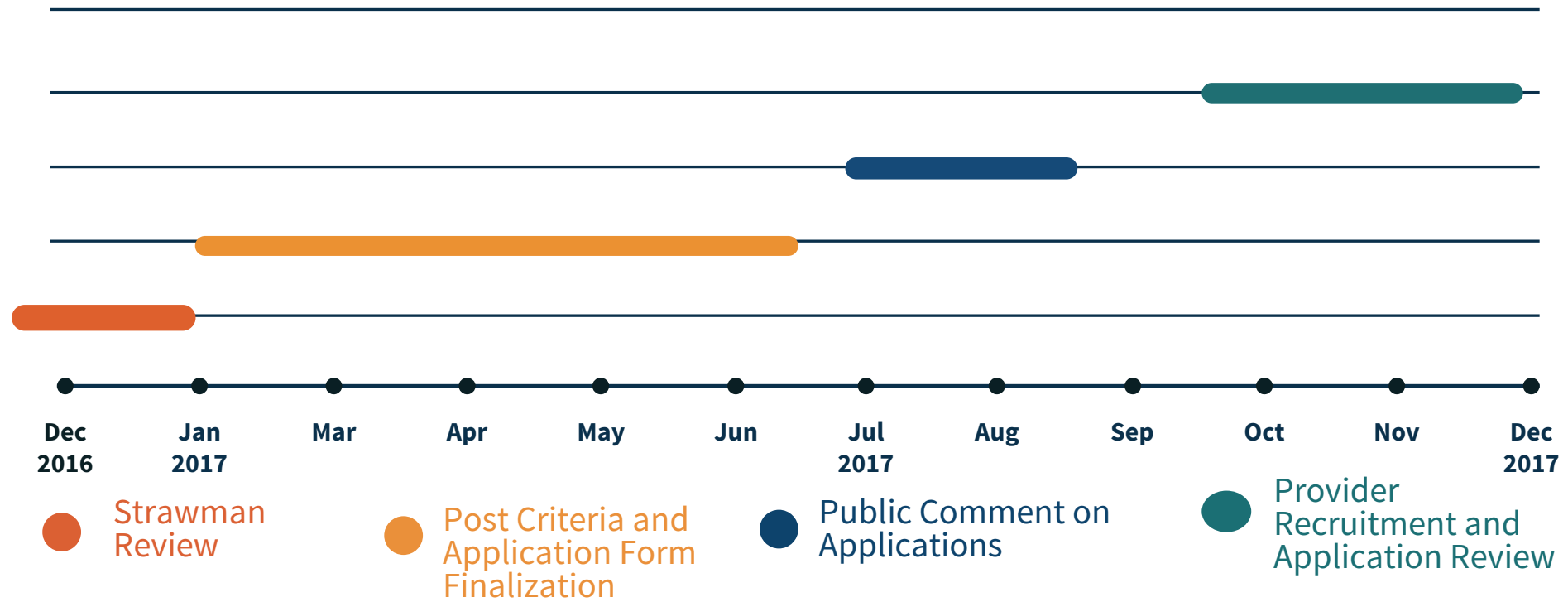
Registrar WHOIS Validation Working Group members include

- Darcy Southwell, Endurance
- Gregory DiBiase, Amazon
- Theo Geurts, RealTimeRegister
- Iliya Bazlyankov, Corenic.org
- Sara Bockey, GoDaddy
- James A. Bladel, GoDaddy
- Chris Pelling, NetEarth.net

Wiki Page:

<https://community.icann.org/display/WACFV/Whois+Address+Cross-Field+Validation>

Proposed Timeline



Strawman Proposal Summary

Recommendation: ICANN & Registrars work in conjunction to agree upon a formal group of Address Validation Service (AVS) providers in order to address Registrars' unique requirements under applicable law.

- Registrar WHOIS Validation Working Group and ICANN shall collaborate to reach a consensus on the 2013 RAA contract requirement.
- Both parties shall define and mutually agree upon the ability to determine if a solution(s) is commercially viable, based on the provider criteria between WG and ICANN
- If a commercially viable solution is identified, then:
 - ICANN shall propose a Provider application review and authorization process based on the established criteria.
 - Each Registrar shall contract directly with an authorized provider(s)
 - Registrar shall implement the authorized AVS service and ensure continued compliance with the Data Retention Policy.

Proposed Vendor Selection Criteria

Address Field Accuracy Validation	
Services availability	Address validation & correction capability
Scoring Methods	Status Code or Numeric Scoring
Support non-ASCII Characters	Preferably ≥ 5 Writing systems
Technical Implementation	API/Web Services: SOAP, XML, JSON, REST Bulk submission: CSV, XML file Manual submission
Response Time	Handles > 100 validation/sec
Global Footprint	240+ Countries/Territories
Fees	< 0.18 USD/validation

Provider Sample Data Set

	Services	Ratings	Non-ASCII Characters	Footprint	Technical	Response (seconds)
Informatica	Validation & Correction	Status Codes & Numeric Scoring	7 Scripts	248 Countries + 2000+ Resellers	API, Web & Bulk	> 800
DigiCert	Verification via 3 rd party data	High-risk data indicator	Xx Scripts	240+ Countries	API	< 1
Melissa Data	Validation & Correction	Unique Code Scoring	UTF-8 Major scripts	248 Countries	API, Web & Bulk	> 100
Experian	Validation & Correction	NA	Transliterated to ASCII characters	244 Countries	API & Web	< 1
Universal Postal Union	Validation	NA	Yes	192 Countries	On Demand	< 1
CNNIC	Verification	NA	Chinese S/T only	China	API & EPP	> 200

Potential Technical Solutions

File Submission: Batch Process

Registrar shall upload file to Informatica to perform address validation services. Data set will be parsed, analyzed, verified, corrected and/or reformatted then returned to Registrar.

Address Submission

Partial Discrete Unformatted

User Input - Multiple Fields

Address Line
208 wilmington

City / Town

State / Province

Postal Code
27601

Country
usa

Service Output

Service Output Status Codes Raw XML

Service Response - Address(es)

```
208 WILMINGTON
27601
UNITED STATES
```

Service Response - Status Codes

Status Codes

Validation Status

I3 - Informatica Address Verification could not correct the data completely because there are multiple matches in the reference data - Multiple results would be available to

Master Batch Submission

Address Master Batch **Online Address Master**

Input File Type Output File Type

CSV XML

1. Select your Input File to convert

2. Email converted file to:

Email

abc@gmail.com

Or Download File ..

File Submission: Real-time with Invalid Response

Address Submission

Partial Discrete Unformatted Config.

User Input - Multiple Fields

Address Line
208 wilmington st

City / Town

State / Province

Postal Code
27601

Country
usa

Reset Submit

Service Output

Service Output Status Codes Raw XML

Service Response - Address(es)

```
208 N WILMINGTON ST  
RALEIGH NC 27601-1057  
UNITED STATES
```

```
208 S WILMINGTON ST  
RALEIGH NC 27601-1434  
UNITED STATES
```

Service Output Status Codes Raw XML

Service Response - Status Codes

Status Codes

Validation Status

```
I3 - Informatica Address  
Verification could not  
correct the data completely
```

Q & A