

# ICANN|57 HYDERABAD



## WHOIS Address Cross Field Validation

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&  
Purpose**

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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.

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

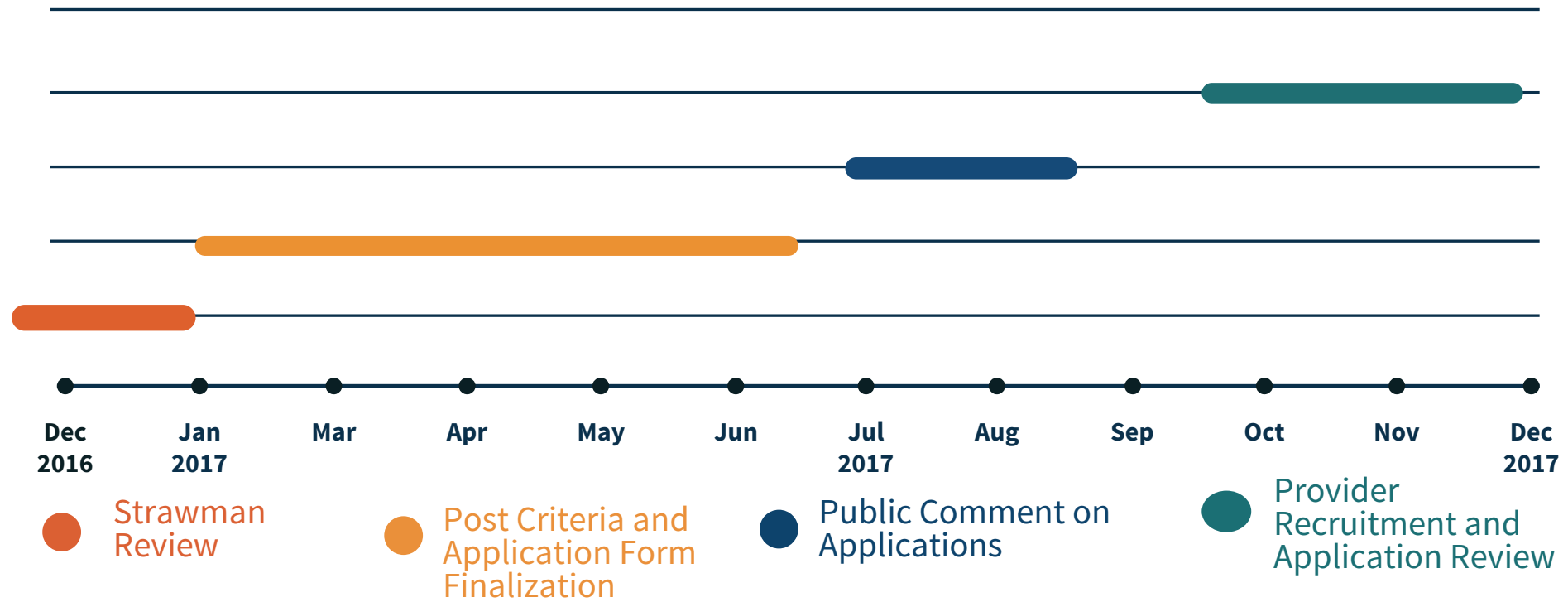
Registrar WHOIS Validation Working Group members include

- 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 $\geq 5$ 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)
<b>Informatica</b>	Validation & Correction	Status Codes & Numeric Scoring	7 Scripts	248 Countries + 2000+ Resellers	API, Web & Bulk	> 800
<b>DigiCert</b>	Verification via 3 <sup>rd</sup> party data	High-risk data indicator	Xx Scripts	240+ Countries	API	< 1
<b>Melissa Data</b>	Validation & Correction	Unique Code Scoring	UTF-8 Major scripts	248 Countries	API, Web & Bulk	> 100
<b>Experian</b>	Validation & Correction	NA	Transliterated to ASCII characters	244 Countries	API & Web	< 1
<b>Universal Postal Union</b>	Validation	NA	Yes	192 Countries	On Demand	< 1
<b>CNNIC</b>	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