New gTLD Pre-Delegation Testing
Agenda

• PDT Overview
• PDT Process
• PDT Status Update
• Preparing for PDT
• Communications
• Q & A
What is Pre-Delegation Testing (PDT)?

• Verification step to ensure registry ready for production
  – Verifies documentation
  – Tests the production registry systems

PDT Elements

• DNS
• WHOIS
• EPP
• Data Escrow
• IDN
Where PDT fits in the program

- Pre-Requisites for PDT
  - Executed Registry Agreement
  - Production Ready System
The PDT Process
PDT Process Overview

• Preparation Activities
  – Establish a test appointment & PDT Contact with ICANN
  – Submit PDT Input Data to PDT System
    • Due Friday 11.59 UTC before appointment

• Testing
  – Expect 2 week duration
  – May require 1 week extension to remedy any issues preventing a pass

• Results Report
  – 2 weeks after test completion
Result

- Application has PASSED Pre-Delegation Testing

More details are found in each test level.

Level: DNS

Result: PASS

<table>
<thead>
<tr>
<th>ID</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>DNS01</td>
<td>PASS</td>
</tr>
<tr>
<td>DNS02</td>
<td>PASS</td>
</tr>
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</tr>
<tr>
<td>DNS07</td>
<td>PASS</td>
</tr>
<tr>
<td>DNS08</td>
<td>PASS</td>
</tr>
</tbody>
</table>
PDT Status Update
PDT Operationally Ready

- PDT Module in Portal Deployed

- Eligibility Notifications will be sent shortly after contract execution

- Production Version of PDT materials released
Changes to PDT Test Specs

• Distributed DNS Tests
• Validation to the registry agreement
  – Whois fields required per Specification 4
  – Searchable Whois, if applicable
  – Required DNSSEC EPP extension
  – IDN tables listed in Exhibit A

• Pass / Fail Criteria
PDT Development

• Pilot Program in March
  – 9 Participants

• Beta Program April – July
  – 45 Appointments
  – 24 Registry Service Providers
  – Final Beta Appointments begin today (15 July)
  – Beta Appointments will be completed by 2 August
Preparing for PDT

Patrik Hildingsson
DNS Testing

• Overall Success rate: 56%
• Most Issues: DNS04 Network Diversity
  – Autonomous System Numbers (ASNs)
• Requirement:
  – Announced from ≥2 ASNs for IPv4
  – Announced from ≥2 ASNs for IPv6
• Self check:
  – RIPE Routing Information Service
Whois Testing

- Overall Success Rate: 83%
- Primary Issues found:
  - Formatting not per Specification 4 of Registry Agreement
  - Access over TCP port 43 & web based Whois
  - Searchable Whois functionality per Specification 4 of the Registry Agreement
EPP Testing

• Overall Success Rate 70%
• Adjusted the EPP Extensions Check
• Connectivity
  – PDT Test Node IP Addresses
• Client Certificates
  – If required provide via pdtepp.xml
  – Pkcs12 certificate with both public & private, base64 encoded
• EPP implementation non-compliant
Data Escrow Testing

• Overall Success Rate: 100%
• File Names & Formats
  – Stored in TAR then encrypted into RYDE
• Valid Signature
  – Valid Detached Signature
• Valid XML
  – Use the Self Test Tool for XML
Documentation Testing

- Overall Success Rate: 91%
- DNS Self Certification MUST Specify
  - Provide both server & network capacity & expected load
  - Location of DNS Probe
    - In relation to test targets
  - Load Test Response Requirements
    - Zone Data
    - NXDOMAIN
    - NODATA
Documentation Testing continued

• Self certification guidelines
  – Ensure that each test case is addressed
  – Responses should stand alone
  – Extrapolating load test data is ok
  – Do not provide excessive data
IDN Testing

• Overall Success Rate: 96%
• Include only the required IDN tables listed in Exhibit A of the Registry Agreement. Other tables must not be included.
  – Machine parseable IDN tables as TXT (UTF-8)
  – Statement of all policies regarding the implementation of those tables
• Verify IDN tables before submission
  – http://github.com/dotse/idn-properties
IDN EPP Testing

• IDNValid07 - 08

• Overall Success Rate: 53%
  – Policies not implemented in the EPP server
  – EPP backend system does not support IDN
  • This condition is now PASS with warning
PDT Checklist

- Select a PDT Contact
- Review the PDT Resources on Microsite
- Self Test Tools in the FAQ
- Check RIPE Routing Information Service
- Format your WHOIS response per Spec 4
- Allow PDT access to your EPP server
- Finalize your DPS per RFC 6841
- Execute your Data Escrow Agreement
PDT Communications

Russ Weinstein
Customer Service & Communications
ICANN – Customer Portal

• Use Cases for:
  – Appointment Scheduling & Changes
  – Process Questions
  – Requirements Clarification
  – Escalating Issues
  – Test Report Questions
Customer Service & Communications
PDT System Messaging Tool

• While engaged in PDT
  – Requirements clarifications
  – Follow up questions

• Response Time
  – 1 Business Day or better
  – 1-2 Business Days if escalated to ICANN

• Business Hours 05.00 – 19.00 UTC
• Messaging tool update coming 30 July
PDT System Messaging Tool

You are here: Applications > Application 1-968-27848 > Messages

Application Messages

<table>
<thead>
<tr>
<th>From</th>
<th>Subject</th>
<th>Date</th>
<th>Status</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>You</td>
<td>EPP: Questions about extensions</td>
<td>2013-07-11 11:36:47 UTC</td>
<td>SENT</td>
<td>View</td>
</tr>
</tbody>
</table>

Hosted by .SE (Stiftelsen for Internetinfrastruktur) - the ICANN new gTLD PDT Service Provider
Thank you