

# Registry System Testing

## DNS RSP Change Test Plan

Version [AB](#)

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# Document control

## Document information and security

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## 1. Introduction

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This Test Plan defines the DNS RSP Change Testing of the new gTLDs.

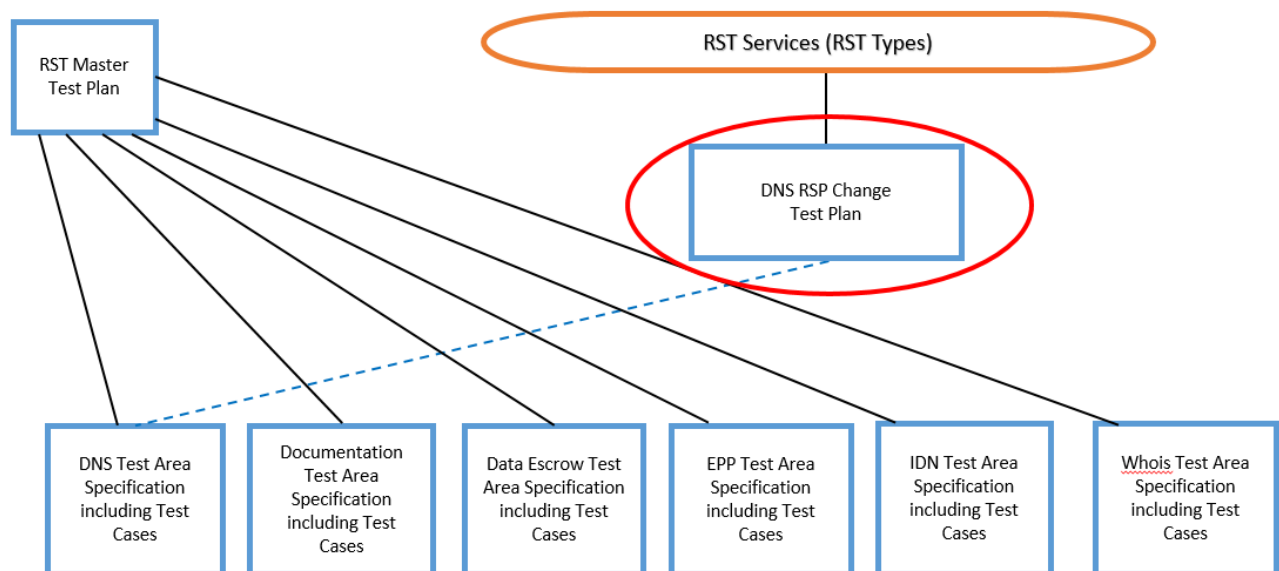
### 1.1 Scope

The RST Service Provider will test the DNS technical infrastructure.

### 1.2 References

- ~~Pre-Delegation Testing, Statement of Work~~
- ~~RSP Change Testing, Statement of Work~~
- Registry System Testing, DNS Test Area Specification

### 1.3 Document Hierarchy



This document is one of many that specifies the Test Plan for a specific RST Type (circled in red in the above graphic).

## 2. Details for DNS RSP Change test plan

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The following test levels are included in DNS RSP Change Testing (RSPDNS):

- DNS

Only the test cases listed in this document will be included in a DNS RSP Change Test.

### 2.1 Test Cases included in a DNS RSP Change Test

#### 2.1.1 DNS

For details about a test case, refer to the DNS Test Area Specification document.

- DNS02 Name server reachability
- DNS03 Answer authoritatively
- DNS04 Network diversity
- DNS07 SOA record consistency between authoritative name servers
- DNS08 NS record consistency between authoritative name servers
- DNS10 Prohibited networks
- DNS11 No open recursive name service
- DNS12 Same source address
- DNS14 Legal values for the DS hash digest algorithm
- DNS15 DS must match a DNSKEY in the designated zone
- DNS16 Signatures in the designated zone must validate
- DNS17 Zone contains NSEC or NSEC3 records
- DNS19 SOA record consistency between authoritative name servers
- DNS20 NS record consistency between authoritative name servers
- DNS21 No open recursive name service
- DNS23 Syntax for SOA RNAME
- DNS24 SOA Minimum
- DNS25 NSEC3 Iterations
- DNS26 RRSIG Lifetimes
- DNS27 DNSKEY Algorithms
- DNS31 nic.<TLD> or whois.nic.<TLD> must be delegated
- DNS32 Name server reachability
- DNS33 Answer authoritatively
- DNS36 RRSIG(SOA) must validate with supplied DS record

### **3. General**

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#### **3.1 Glossary**

The glossary is available in the RST Master Test Plan.

#### **3.2 Document change procedures**

Document change procedures are documented in the RST Master Test Plan.