

# Registry System Testing

## DNS RSP Change Test Plan

Version C

**File name:** DNS RSP Change Test Plan.docx

**Last saved:** 2025-10-29

Copyright (c) 2025 Internet Corporation for Assigned Names and Numbers. All rights reserved.

# Document control

## Document information and security

Made by	Responsible for fact	Responsible for document
Mats Dufberg	Mats Dufberg	Mats Dufberg

Security class	File name
External	DNS RSP Change Test Plan.docx

## Revisions

Date	Version	Name	Description
2017-07-27	A	Mats Dufberg	First release version.
2021-06-10	B	Mauro Lozano	Update references.
2025-10-29	C	Mustafa Alrifae	Remove WHOIS test area.

## LIST OF CONTENTS

<b>1.</b>	<b>INTRODUCTION</b>	<b>4</b>
1.1	SCOPE	4
1.2	REFERENCES	4
1.3	DOCUMENT HIERARCHY	4
<b>2.</b>	<b>DETAILS FOR DNS RSP CHANGE TEST PLAN</b>	<b>5</b>
2.1	TEST CASES INCLUDED IN A DNS RSP CHANGE TEST	5
2.1.1	<i>DNS</i>	5
<b>3.</b>	<b>GENERAL</b>	<b>6</b>
3.1	GLOSSARY	6
3.2	DOCUMENT CHANGE PROCEDURES	6

## 1. Introduction

---

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

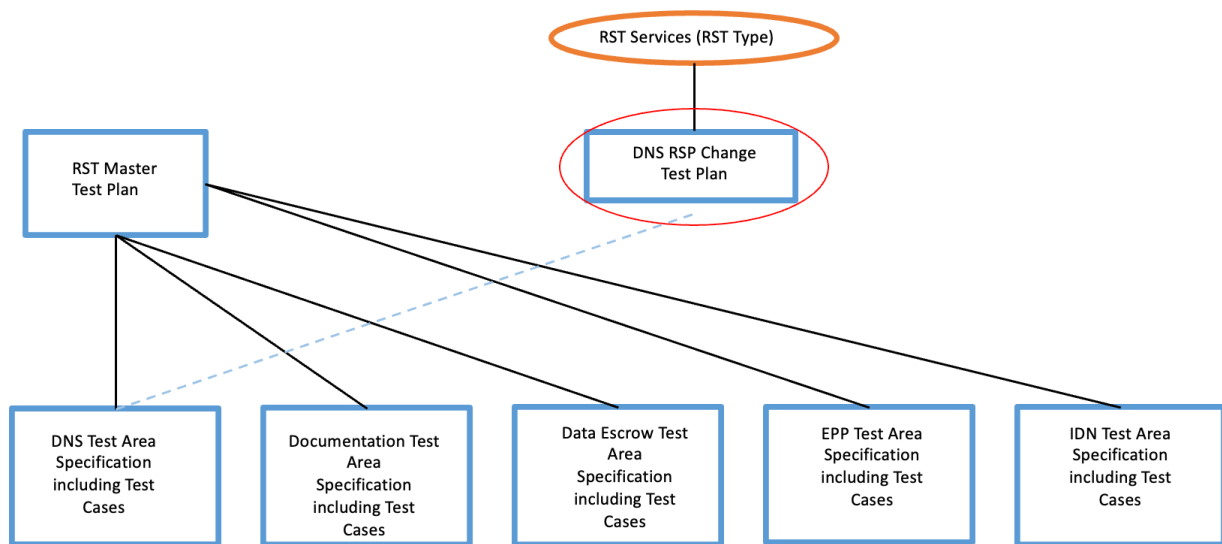
### 1.1 Scope

The RST Service Provider will test the DNS technical infrastructure.

### 1.2 References

- 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

---

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**

---

#### **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.