

Pre-Delegation Testing

Documentation DPS Test Cases

Version D

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Document control

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2013-02-08	PA2	Rickard Bellgrim	Review text
2013-02-11	PA3	Lennart Bonnevier	Review text
2013-03-01	PA4	Rickard Bellgrim	“key handling” to “key management” “key changes” to “key rollovers” “DNSSEC Policy Statement” to “DNSSEC Practice Statement” “KSK/ZSK keys” to “cryptographic keys”
2013-03-26	PA5	Björn Sjöholm	DocDPS05 Details added.
2013-04-08	B	Staffan Hagnell	Delivery D2 for production
2013-05-03	C	Mats Dufberg	Released
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2013-05-23	D	Lennart Beckman	Released

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1. Introduction

1.1 Scope

The Pre-Delegation Testing Provider will test documents regarding DPS and verify that the requirements are fulfilled.

1.2 References

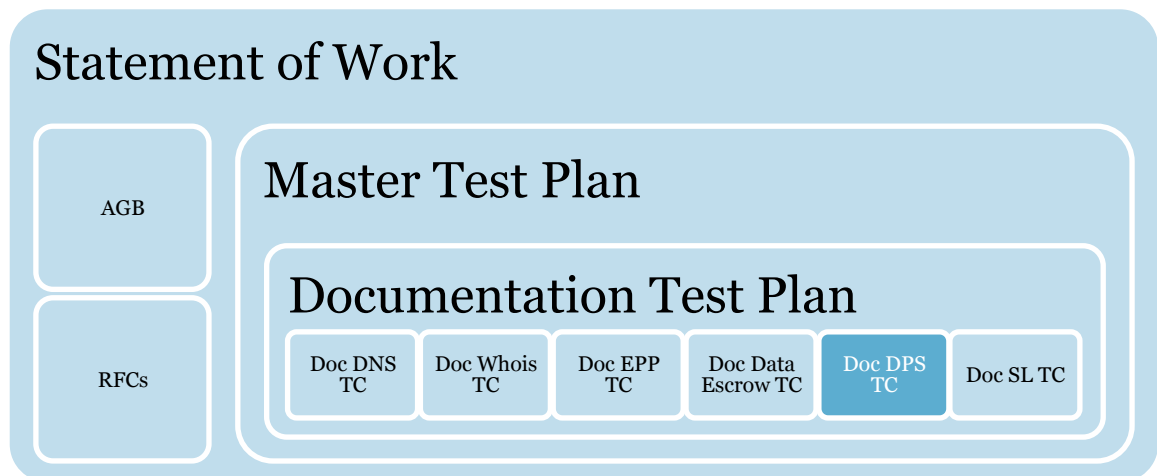
1.2.1 External

- IEEE 829-2008
- ICANN gTLD Applicant Guidebook, Version 2012-06-04
- IETF A Framework for DNSSEC Policies and DNSSEC Practice Statements, RFC 6841

1.2.2 Internal

- Pre-Delegation Testing, Statement of Work
- Pre-Delegation Testing, Master Test Plan
- Pre-Delegation Testing, Document Test Plan

1.2.3 Document Hierarchy



1.3 Context

N/A

1.4 Notation for description

Each test case for the Documentation DPS is described in its own chapter. The test procedures are described directly in the test case.

2. Document DPS 01

2.1 Test case identifier

DocDPS01

2.2 Objective

The test verifies that the structure of the DNSSEC Practice Statement (DPS) is compliant with RFC 6841.

2.3 Inputs

The following information will be needed as input for this test case:

Id	Description	Type
gTLDAApplication	The Applicants original application	Document
gTLDDPS	The Applicant DNSSEC Practice Statement	Document

2.4 Outcome(s)

The documents MUST include the required information.

2.5 Environmental needs

N/A

2.6 Special procedural requirements

Suspend test if applicant documentation is missing or incomplete for most parts.

2.7 Intercase dependencies

This test has no intercase dependencies.

2.8 Ordered description of steps to be taken to execute the test case

1. Identify the DNSSEC Practice Statement, DPS. Expected document is: document gTLDDPS.
2. Verify that the DPS essentially follows the structure described in the IETF A Framework for DNSSEC Policies and DNSSEC Practice Statements, RFC 6841.
3. Verify that the DPS essentially includes the 8 main sections and all applicable second level subsections of these, stated in RFC 6841, section 5 "Contents of a Set of Provisions".

3. Document DPS 02

3.1 Test case identifier

DocDPS02

3.2 Objective

The test verifies that the contents of the DNSSEC Practice Statement (DPS) is compliant with RFC 6841.

3.3 Inputs

The following information will be needed as input for this test case:

Id	Description	Type
gTLDAApplication	The Applicants original application	Document
gTLDDPS	The Applicant DNSSEC Practice Statement	Document

3.4 Outcome(s)

The documents MUST include the required information.

3.5 Environmental needs

N/A

3.6 Special procedural requirements

Suspend test if applicant documentation is incomplete for most parts or missing completely.

3.7 Intercase dependencies

This test has no intercase dependencies.

3.8 Ordered description of steps to be taken to execute the test case

1. Identify the DNSSEC Practice Statement, DPS. Expected document is: document gTLDDPS.
2. Verify that the DPS essentially follows the contents described in the IETF A Framework for DNSSEC Policies and DNSSEC Practice Statements, RFC 6841.
3. Verify that the DPS essentially follows the guidelines given in RFC 6841, section 4 “Contents of a Set of Provisions”.
4. Verify specifically that the DPS includes the following content:
 - a. “Section 1 Introduction”, including Document identification and Version.
 - b. “Section 2 Publication and Repositories”.
 - c. “Section 5 Technical Security Controls” including:
 - i. What keys are going to be used
 - ii. Key pair generation and installation
 - iii. Private key protection
 - iv. Life cycle technical controls
 - d. “Section 6 Zone Signing” including:
 - i. Key lengths and algorithms
 - ii. Authenticated denial of existence (NSEC/NSEC3)
 - iii. Signature format
 - iv. Key rollover (for each present key type)
 - v. Signature lifetime and re-signing frequency

4. Global

4.1 Glossary

The glossary is available in the Master Test Plan.

4.2 Document change procedures

Document change procedures are documented in the Master Test Plan.