

Pre-Delegation Testing

Documentation DNS Test Cases

Version PA6

DRAFT

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1. Introduction

1.1 Scope

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

1.2 References

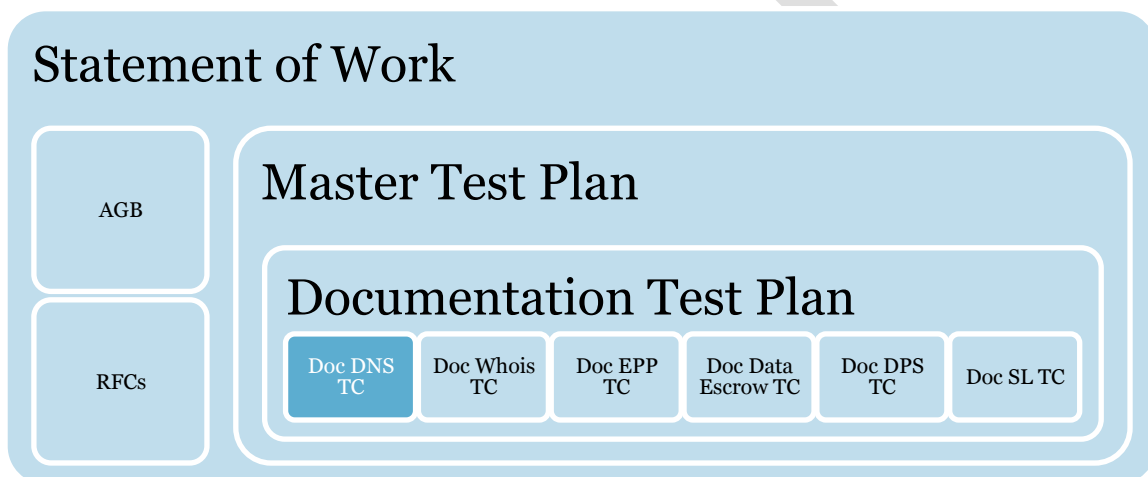
1.2.1 External

- IEEE 829-2008
- ICANN gTLD Applicant Guidebook, Version 2012-06-04

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 Documents DNS is described in their own chapter. The test procedures are described directly in the test case.

2. Document DNS 01

2.1 Test case identifier

DocDNS01

2.2 Objective

The test verifies that the self-certification documents

- include results from system performance tests indicating available network and server capacity.
- include an estimate of expected capacity during normal operation.
- include mitigation of DDoS attacks.

2.3 Inputs

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

| Id | Description | Type |
|------------------|---|-----------|
| gTLDSelfCert | The Applicants self-certification documentation | Documents |
| gTLDAApplication | The Applicants original application | Document |

2.4 Outcome(s)

The self-certification 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 parts in the self-certification documents that contain system performance test including available network and server capacity. Expected part is: document gTLDSelfCert section 1.1.5.
2. Verify that results from a system performance test indicating
 - a. available network and
 - b. server capacity is included.
3. Identify the parts in the self-certification documents that contain estimation of expected capacity during normal operation. Expected part is: document gTLDSelfCert section 1.1.2, 1.1.5.
4. Verify that an estimate of expected capacity during normal operation is included.
5. Identify the parts in the self-certification documents that cover DDoS attacks. Expected part is: document gTLDSelfCert section 1.1.4.

6. Verify that Distributed Denial of Service attacks are adequately addressed.

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3. Document DNS 02

3.1 Test case identifier

DocDNS02

3.2 Objective

The test verifies that the self-certification documents include data on load capacity, latency and network reachability, for UDP support.

3.3 Inputs

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

| Id | Description | Type |
|----------------|---|-----------|
| gTLDSelfCert | The Applicants self-certification documentation | Documents |
| gTLDApplcation | The Applicants original application | Document |

3.4 Outcome(s)

The self-certification documents MUST include the required information.

3.5 Environmental needs

N/A

3.6 Special procedural requirements

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

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 parts in the self-certification documents that cover load capacity, latency and network reachability for UDP support. Expected part is: document gTLDSelfCert section 1.1, 1.2, 1.3.
2. Verify that
 - a. load capacity,
 - b. latency and
 - c. network reachability are included.

4. Document DNS 03

4.1 Test case identifier

DocDNS03

4.2 Objective

The test verifies that the self-certification documents include a report of load capacity both using a table and a corresponding graph, for UDP support. The graph shall show the percentage of queries responded against an increasing number of queries per second, generated from local traffic generators.

4.3 Inputs

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

| Id | Description | Type |
|------------------|---|-----------|
| gTLDSelfCert | The Applicants self-certification documentation | Documents |
| gTLDAApplication | The Applicants original application | Document |

4.4 Outcome(s)

The self-certification documents MUST include the required information.

4.5 Environmental needs

N/A

4.6 Special procedural requirements

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

4.7 Intercase dependencies

This test has no intercase dependencies.

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

1. Identify the parts in the self-certification documents that contain report on load capacity for UDP support. Expected part is: document gTLDSelfCert section 1.1.5.
2. Verify that the load capacity is reported both using
 - a. a table, and
 - b. a corresponding graph,
 - c. showing percentage of queries responded against an increasing number of queries per second generated from local (to the servers) traffic generators.

5. Document DNS 04

5.1 Test case identifier

DocDNS04

5.2 Objective

The test verifies that the report on load capacity for UDP support in the self-certification documents includes at least 20 data points, and loads of UDP-based queries that will cause up to 10% query loss against a randomly selected subset of servers within the applicant's DNS infrastructure.

The test also verifies that the query response include either contains zone data or are NXDOMAIN or NODATA responses.

5.3 Inputs

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

| Id | Description | Type |
|------------------|---|-----------|
| gTLDSelfCert | The Applicants self-certification documentation | Documents |
| gTLDAApplication | The Applicants original application | Document |

5.4 Outcome(s)

The self-certification documents MUST include the required information.

5.5 Environmental needs

N/A

5.6 Special procedural requirements

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

5.7 Intercase dependencies

This test has no intercase dependencies.

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

1. Identify the parts in the self-certification documents that contain report on load capacity for UDP support. Expected part is: document gTLDSelfCert section 1.1.3, 1.1.5, .
2. Verify that the reported table includes
 - a. at least 20 data points and
 - b. loads that will cause up to 10% query loss against a randomly selected subset of servers within the applicant's DNS infrastructure.
3. Verify that the responses are shown to
 - a. either contain zone data or
 - b. be NXDOMAIN or NODATA responses.

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6. Document DNS 05

6.1 Test case identifier

DocDNS05

6.2 Objective

The test verifies that the self-certification documents for UDP support include a report on query latency in milliseconds, measured by DNS probes located just outside the border routers.

6.3 Inputs

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

| Id | Description | Type |
|------------------|---|-----------|
| gTLDSelfCert | The Applicants self-certification documentation | Documents |
| gTLDAApplication | The Applicants original application | Document |

6.4 Outcome(s)

The self-certification documents **MUST** include the required information.

6.5 Environmental needs

N/A

6.6 Special procedural requirements

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

6.7 Intercase dependencies

This test has no intercase dependencies.

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

1. Identify the parts in the self-certification documents that contain report on latency for UDP support. Expected part is: document gTLDSelfCert section 1.2.1, 1.2.2.
2. Verify that query latency is
 - a. reported in milliseconds,
 - b. measured by DNS probes located just outside the border routers of the physical network hosting the name servers, from a network topology point of view.

7. Document DNS 06

7.1 Test case identifier

DocDNS06

7.2 Objective

The test verifies that the self-certification documents for UDP support include a documentation on reachability providing information on the transit and peering arrangements for the DNS server locations, listing the AS numbers of the transit providers or peers at each point of presence and available bandwidth at those points of presence.

7.3 Inputs

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

| Id | Description | Type |
|------------------|---|-----------|
| gTLDSelfCert | The Applicants self-certification documentation | Documents |
| gTLDAApplication | The Applicants original application | Document |

7.4 Outcome(s)

The self-certification documents MUST include the required information.

7.5 Environmental needs

N/A

7.6 Special procedural requirements

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

7.7 Intercase dependencies

This test has no intercase dependencies.

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

1. Identify the parts in the self-certification documents that contain report on reachability for UDP support. Expected part is: document gTLDSelfCert section 1.3.1.
2. Verify that reachability is documented by providing information on
 - the transit and peering arrangements for the DNS server locations,
 - listing the AS numbers of the transit providers or
 - peers at each point of presence and available bandwidth

8. Document DNS 07

8.1 Test case identifier

DocDNS07

8.2 Objective

The test verifies that the self-certification documents include data on load capacity, latency and network reachability, for TCP support.

8.3 Inputs

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

| Id | Description | Type |
|----------------|---|-----------|
| gTLDSelfCert | The Applicants self-certification documentation | Documents |
| gTLDAplication | The Applicants original application | Document |

8.4 Outcome(s)

The self-certification documents MUST include the required information.

8.5 Environmental needs

N/A

8.6 Special procedural requirements

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

8.7 Intercase dependencies

This test has no intercase dependencies.

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

1. Identify the parts in the self-certification documents that cover load capacity, latency and network reachability for TCP support. Expected part is: document gTLDSelfCert section 1.1, 1.2, 1.3.
2. Verify that
 - a. load capacity,
 - b. latency and
 - c. network reachability is included.

9. Document DNS 08

9.1 Test case identifier

DocDNS08

9.2 Objective

The test verifies that the self-certification documents for TCP support include a report of load capacity both by using a table, and a corresponding graph, showing percentage of queries that generated a valid (zone data, NODATA, or NXDOMAIN) response against an increasing number of queries per second generated from local (to the name servers) traffic generators.

9.3 Inputs

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

| Id | Description | Type |
|------------------|---|-----------|
| gTLDSelfCert | The Applicants self-certification documentation | Documents |
| gTLDAApplication | The Applicants original application | Document |

9.4 Outcome(s)

The self-certification documents MUST include the required information.

9.5 Environmental needs

N/A

9.6 Special procedural requirements

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

9.7 Intercase dependencies

This test has no intercase dependencies.

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

1. Identify the parts in the self-certification documents that cover load capacity for TCP support. Expected part is: document gTLDSelfCert section 1.1.3, 1.1.5.
2. Verify that load capacity is reported both by
 - a. using a table, and
 - b. a corresponding graph,
 - c. showing percentage of queries that generated a valid (zone data, NODATA, or NXDOMAIN) response against an increasing number of queries per second generated from local (to the name servers) traffic generators.

10. Document DNS 09

10.1 Test case identifier

DocDNS09

10.2 Objective

The test verifies that the load capacity table in the self-certification documents for TCP support include at least 20 data points and loads that will cause up to 10% query loss (either due to connection timeout or connection reset) against a randomly selected subset of servers within the applicant's DNS infrastructure.

10.3 Inputs

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

| Id | Description | Type |
|------------------|---|-----------|
| gTLDSelfCert | The Applicants self-certification documentation | Documents |
| gTLDAApplication | The Applicants original application | Document |

10.4 Outcome(s)

The self-certification documents MUST include the required information.

10.5 Environmental needs

N/A

10.6 Special procedural requirements

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

10.7 Intercase dependencies

This test has no intercase dependencies.

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

1. Identify the parts in the self-certification documents that cover load capacity for TCP support. Expected part is: document gTLDSelfCert section 1.1.5.
2. Verify that the table reporting load capacity includes
 - a. at least 20 data points and
 - b. loads that will cause up to 10% query loss (either due to connection timeout or connection reset) against a randomly selected subset of servers within the applicant's DNS infrastructure.

11. Document DNS 10

11.1 Test case identifier

DocDNS10

11.2 Objective

The test verifies that the self-certification documents for TCP support include a report on query latency in milliseconds, measured by DNS probes located just outside the border routers.

11.3 Inputs

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

| Id | Description | Type |
|----------------|---|-----------|
| gTLDSelfCert | The Applicants self-certification documentation | Documents |
| gTLDApplcation | The Applicants original application | Document |

11.4 Outcome(s)

The self-certification documents MUST include the required information.

11.5 Environmental needs

N/A

11.6 Special procedural requirements

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

11.7 Intercase dependencies

This test has no intercase dependencies.

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

1. Identify the parts in the self-certification documents that contain report on latency for TCP support. Expected part is: document gTLDSelfCert section 1.2.1, 1.2.2.
2. Verify that query latency is
 - a. reported in milliseconds, and
 - b. measured by DNS probes located just outside the border routers of the physical network hosting the name servers, from a network topology point of view.

12. Document DNS 11

12.1 Test case identifier

DocDNS11

12.2 Objective

The test verifies that the self-certification documents for TCP support include documentation on reachability by providing records of TCP-based DNS queries from nodes external to the network hosting the servers.

12.3 Inputs

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

| Id | Description | Type |
|----------------|---|-----------|
| gTLDSelfCert | The Applicants self-certification documentation | Documents |
| gTLDAplication | The Applicants original application | Document |

12.4 Outcome(s)

The self-certification documents MUST include the required information.

12.5 Environmental needs

N/A

12.6 Special procedural requirements

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

12.7 Intercase dependencies

This test has no intercase dependencies.

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

1. Identify the parts in the self-certification documents that contain report on reachability for TCP support. Expected part is: document gTLDSelfCert section 1.3.2.
2. Verify that reachability is documented by providing records of TCP-based DNS queries from nodes external to the network hosting the servers. These nodes may be the same as those used for measuring latency for TCP support, TC DocDNS10.

13. Document DNS 12

13.1 Test case identifier

DocDNS12

13.2 Objective

The test verifies that the self-certification documents for DNSSEC support demonstrate support for EDNS(0) in its server infrastructure, the ability to return correct DNSSEC-related resource records such as DNSKEY, RRSIG, and NSEC/NSEC3 for the signed zone, and the ability to accept and publish DS resource records from second-level domain administrators.

The test also verifies that the documents demonstrate support for the full life cycle of cryptographic keys.

13.3 Inputs

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

| Id | Description | Type |
|-----------------|---|-----------|
| gTLDSelfCert | The Applicants self-certification documentation | Documents |
| gTLDApplication | The Applicants original application | Document |

13.4 Outcome(s)

The self-certification documents **MUST** include the required information.

13.5 Environmental needs

N/A

13.6 Special procedural requirements

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

13.7 Intercase dependencies

This test has no intercase dependencies.

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

1. Identify the parts in the self-certification documents that cover DNSSEC support.
Expected part is: document gTLDSelfCert section 1.4.
2. Verify that it demonstrates
 - a. support for EDNS(0) in its server infrastructure,
 - b. the ability to return correct DNSSEC-related resource records such as DNSKEY, RRSIG, and NSEC/NSEC3 for the signed zone, and
 - c. the ability to accept and publish DS resource records from second-level domain administrators.

3. Verify also that it demonstrates the ability to support the full life cycle of cryptographic keys.

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14. Document DNS 13

14.1 Test case identifier

DocDNS13

14.2 Objective

The test verifies that the self-certification documents for DNSSEC support include data on load capacity, latency and network reachability, for UDP support.

14.3 Inputs

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

| Id | Description | Type |
|----------------|---|-----------|
| gTLDSelfCert | The Applicants self-certification documentation | Documents |
| gTLDApplcation | The Applicants original application | Document |

14.4 Outcome(s)

The self-certification documents MUST include the required information.

14.5 Environmental needs

N/A

14.6 Special procedural requirements

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

14.7 Intercase dependencies

This test has no intercase dependencies.

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

3. Identify the parts in the self-certification documents for DNSSEC support that cover load capacity, latency and network reachability for UDP support. Expected part is: document gTLDSelfCert section 1.1.5.
4. Verify that
 - a. load capacity,
 - b. latency and
 - c. network reachability is included.

15. Document DNS 14

15.1 Test case identifier

DocDNS14

15.2 Objective

The test verifies that the self-certification documents for DNSSEC support include a report of load capacity both using a table and a corresponding graph, for UDP support. The graph shall show the percentage of queries responded against an increasing number of queries per second, generated from local traffic generators.

15.3 Inputs

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

| Id | Description | Type |
|----------------|---|-----------|
| gTLDSelfCert | The Applicants self-certification documentation | Documents |
| gTLDAplication | The Applicants original application | Document |

15.4 Outcome(s)

The self-certification documents MUST include the required information.

15.5 Environmental needs

N/A

15.6 Special procedural requirements

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

15.7 Intercase dependencies

This test has no intercase dependencies.

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

1. Identify the parts in the self-certification documents for DNSSEC support that contain report on load capacity for UDP support. Expected part is: document gTLDSelfCert section 1.1.5.
2. Verify that the load capacity is reported both
 - a. using a table, and
 - b. a corresponding graph,
 - c. showing percentage of queries responded against an increasing number of queries per second generated from local (to the servers) traffic generators.

16. Document DNS 15

16.1 Test case identifier

DocDNS15

16.2 Objective

The test verifies that the report on load capacity for UDP support in the self-certification documents for DNSSEC support includes at least 20 data points, and loads of UDP-based queries that will cause up to 10% query loss against a randomly selected subset of servers within the applicant's DNS infrastructure.

The test also verifies that the query response include either contains zone data or are NXDOMAIN or NODATA responses.

16.3 Inputs

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

| Id | Description | Type |
|----------------|---|-----------|
| gTLDSelfCert | The Applicants self-certification documentation | Documents |
| gTLDApplcation | The Applicants original application | Document |

16.4 Outcome(s)

The self-certification documents MUST include the required information.

16.5 Environmental needs

N/A

16.6 Special procedural requirements

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

16.7 Intercase dependencies

This test has no intercase dependencies.

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

4. Identify the parts in the self-certification documents for DNSSEC support that contain report on load capacity for UDP support. Expected part is: document gTLDSelfCert section 1.1.3, 1.1.5.
5. Verify that the reported table includes
 - a. at least 20 data points and
 - b. loads that will cause up to 10% query loss against a randomly selected subset of servers within the applicant's DNS infrastructure.
6. Verify that the responses are shown to either contain zone data or are NXDOMAIN or NODATA responses.

17. Document DNS 16

17.1 Test case identifier

DocDNS16

17.2 Objective

The test verifies that the self-certification documents for DNSSEC support for UDP support include a report on query latency in milliseconds, measured by DNS probes located just outside the border routers.

17.3 Inputs

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

| Id | Description | Type |
|----------------|---|-----------|
| gTLDSelfCert | The Applicants self-certification documentation | Documents |
| gTLDAplication | The Applicants original application | Document |

17.4 Outcome(s)

The self-certification documents MUST include the required information.

17.5 Environmental needs

N/A

17.6 Special procedural requirements

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

17.7 Intercase dependencies

This test has no intercase dependencies.

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

3. Identify the parts in the self-certification documents for DNSSEC support that contain report on latency for UDP support. Expected part is: document gTLDSelfCert section 1.2.1, 1.2.2.
4. Verify that query latency is
 - a. reported in milliseconds,
 - b. and measured by DNS probes located just outside the border routers of the physical network hosting the name servers, from a network topology point of view.

18. Document DNS 17

18.1 Test case identifier

DocDNS17

18.2 Objective

The test verifies that the self-certification documents for DNSSEC support include data on load capacity, latency and network reachability, for TCP support.

18.3 Inputs

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

| Id | Description | Type |
|----------------|---|-----------|
| gTLDSelfCert | The Applicants self-certification documentation | Documents |
| gTLDApplcation | The Applicants original application | Document |

18.4 Outcome(s)

The self-certification documents MUST include the required information.

18.5 Environmental needs

N/A

18.6 Special procedural requirements

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

18.7 Intercase dependencies

This test has no intercase dependencies.

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

1. Identify the parts in the self-certification documents for DNSSEC support that covers load capacity, latency and network reachability for TCP support. Expected part is: document gTLDSelfCert section 1.1, 1.2, 1.3.
2. Verify that
 - a. load capacity,
 - b. latency and
 - c. network reachability is included.

19. Document DNS 18

19.1 Test case identifier

DocDNS18

19.2 Objective

The test verifies that the self-certification documents for DNSSEC support for TCP support include a report of load capacity both by using a table, and a corresponding graph, showing percentage of queries that generated a valid (zone data, NODATA, or NXDOMAIN) response against an increasing number of queries per second generated from local (to the name servers) traffic generators.

19.3 Inputs

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

| Id | Description | Type |
|-----------------|---|-----------|
| gTLDSelfCert | The Applicants self-certification documentation | Documents |
| gTLDApplication | The Applicants original application | Document |

19.4 Outcome(s)

The self-certification documents MUST include the required information.

19.5 Environmental needs

N/A

19.6 Special procedural requirements

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

19.7 Intercase dependencies

This test has no intercase dependencies.

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

1. Identify the parts in the self-certification documents for DNSSEC support that cover load capacity for TCP support. Expected part is: document gTLDSelfCert section 1.1.3, 1.1.5.
2. Verify that load capacity is reported both
 - a. by using a table, and
 - b. a corresponding graph,
 - c. showing percentage of queries that generated a valid (zone data, NODATA, or NXDOMAIN) response against an increasing number of queries per second generated from local (to the name servers) traffic generators.

20. Document DNS 19

20.1 Test case identifier

DocDNS19

20.2 Objective

The test verifies that the load capacity table in the self-certification documents for DNSSEC support for TCP support include at least 20 data points and loads that will cause up to 10% query loss (either due to connection timeout or connection reset) against a randomly selected subset of servers within the applicant's DNS infrastructure.

20.3 Inputs

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

| Id | Description | Type |
|------------------|---|-----------|
| gTLDSelfCert | The Applicants self-certification documentation | Documents |
| gTLDAApplication | The Applicants original application | Document |

20.4 Outcome(s)

The self-certification documents MUST include the required information.

20.5 Environmental needs

N/A

20.6 Special procedural requirements

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

20.7 Intercase dependencies

This test has no intercase dependencies.

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

1. Identify the parts in the self-certification documents for DNSSEC support that cover load capacity for TCP support. Expected part is: document gTLDSelfCert section 1.1.5.
2. Verify that the table reporting load capacity includes
 - a. at least 20 data points and
 - b. loads that will cause up to 10% query loss (either due to connection timeout or connection reset) against a randomly selected subset of servers within the applicant's DNS infrastructure.

21. Document DNS 20

21.1 Test case identifier

DocDNS20

21.2 Objective

The test verifies that the self-certification documents for DNSSEC support for TCP support include a report on query latency in milliseconds, measured by DNS probes located just outside the border routers.

21.3 Inputs

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

| Id | Description | Type |
|----------------|---|-----------|
| gTLDSelfCert | The Applicants self-certification documentation | Documents |
| gTLDAplication | The Applicants original application | Document |

21.4 Outcome(s)

The self-certification documents MUST include the required information.

21.5 Environmental needs

N/A

21.6 Special procedural requirements

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

21.7 Intercase dependencies

This test has no intercase dependencies.

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

1. Identify the parts in the self-certification documents for DNSSEC support that contain report on latency for TCP support. Expected part is: document gTLDSelfCert section 1.2.1, 1.2.2.
2. Verify that query latency is reported
 - a. in milliseconds, and
 - b. is measured by DNS probes located just outside the border routers of the physical network hosting the name servers, from a network topology point of view.

22. Document DNS 21

22.1 Test case identifier

DocDNS21

22.2 Objective

The test verifies that the authoritative nameservers (anycast nodes, unicast nodes and DNS operators) declared in the AS are those that were stated in the Applicants gTLD application.

22.3 Inputs

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

| Id | Description | Type |
|-----------------|---|-----------|
| gTLDSelfCert | The Applicants self-certification documentation | Documents |
| gTLDApplication | The Applicants original application | Document |

22.4 Outcome(s)

The self-certification documents MUST include the required information.

22.5 Environmental needs

N/A

22.6 Special procedural requirements

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

22.7 Intercase dependencies

This test has no intercase dependencies.

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

1. Identify the authoritative nameservers declared in the AS.
2. Verify that these authoritative nameservers (anycast nodes, unicast nodes and DNS operators) complies with what was stated in the Applicants gTLD application.

23. Global

23.1 Glossary

The glossary is available in the Master Test Plan.

23.2 Document change procedures

Document change procedures are documented in the Master Test Plan.

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