

# Pre-Delegation Testing

## Documentation Whois Test Cases

Version E

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## Document control

### Document information and security

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### Revisions

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2013-02-07	PA2	Rickard Bellgrim	Add Document Hierarchy and final chapter
2013-02-11	PA3	Lennart Bonnevier	Review text
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2013-06-12	PD1	Lennart Beckman	PASS/FAIL criteria added
2013-06-17	PD2	Lennart Beckman	Test case titles added. References to gTLD application removed. Doc Whois03 revised.
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## 1. Introduction

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### 1.1 Scope

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

### 1.2 References

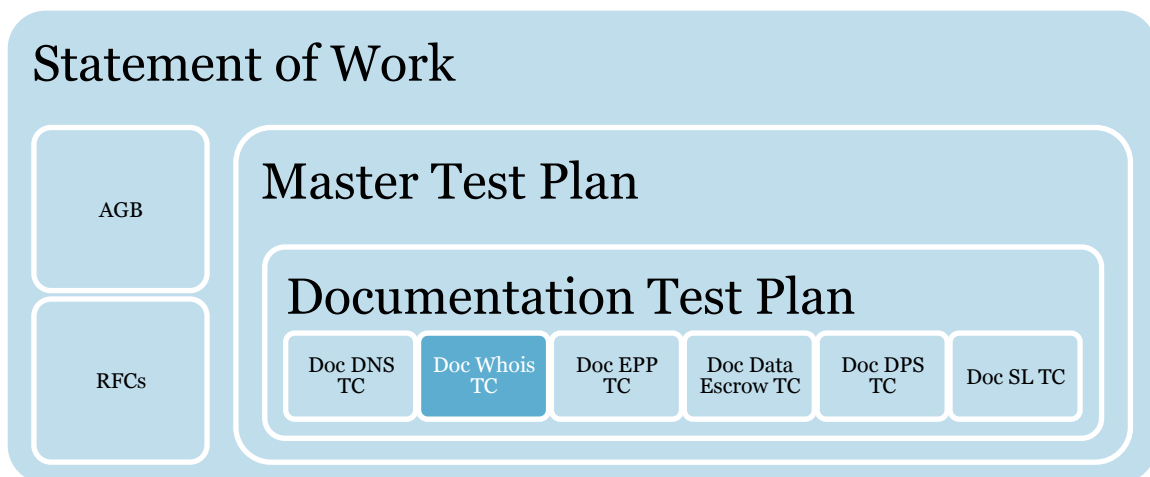
#### 1.2.1 External

- 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, Documentation Test Plan

#### 1.2.3 Document Hierarchy



### 1.3 Context

N/A

### 1.4 Notation for description

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

## 2. Document Whois 01, Maximum QPS

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### 2.1 Test case identifier

DocWhois01 Maximum QPS

### 2.2 Objective

The test verifies that the self-certification documents

- describe the maximum number of queries per second successfully handled, both on port 43 and web interface
- include an applicant-provided load expectation

### 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

### 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 concerning Whois transaction capacity, including both TCP port 43 and via a web interface. Expected part is: document gTLDSelfCert section 2.1.
2. Verify that the self-certification documents include a description of the maximum number of queries successfully handled on TCP port 43.
3. Verify that the self-certification documents include a description of the maximum number of queries successfully handled on a web interface.
4. Verify that capacity is equal or greater than 5 times the expected load.
5. Verify that the self-certification documents include an applicant-provided load expectation.

The outcome of the testcase is PASS if all criteria for PASS and no criteria for FAIL are fulfilled.

Criteria for PASS:

- The maximum number of queries per second successfully handled on TCP port 43 is included (step 2).
- The maximum number of queries per second successfully handled on a web interface is included (step 3).
- The capacity is equal or greater than 5 times the expected load (step 4)
- A load expectation is stated (step 5).

Criteria for FAIL:

- Part of the requested information is unclear or missing.

### 3. Document Whois 02, Data Mining

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#### 3.1 Test case identifier

DocWhois02 Data Mining

#### 3.2 Objective

The test verifies that the self-certification documents

- Include a description of deployed control functions to detect data mining of the Whois database
- Include a description of deployed control functions to mitigate data mining of the Whois database

#### 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

#### 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 describing detection and mitigation of data mining of the Whois database. Expected part is: document gTLDSelfCert section 2.2.
2. Verify that the self-certification documents include a description of deployed control functions for detecting data mining of the Whois service.
3. Verify that the self-certification documents include a description of deployed control functions for mitigating data mining of the Whois service.

The outcome of the testcase is PASS if all criteria for PASS and no criteria for FAIL are fulfilled.

Criteria for PASS:

- A description of a deployed control function for the detection of data-mining attempts of the Whois service is included (step 2).
- A description of a deployed control function for the mitigation of data-mining attempts of the Whois service is included (step 3).

Criteria for FAIL:

- Part of the requested information is unclear or missing.



## 4. Global

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### 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.