

# Pre-Delegation Testing Documentation EPP Test Cases

Version PA4

DRAFT

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# Document control

## Document information and security

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## 1. Introduction

### 1.1 Scope

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

### 1.2 References

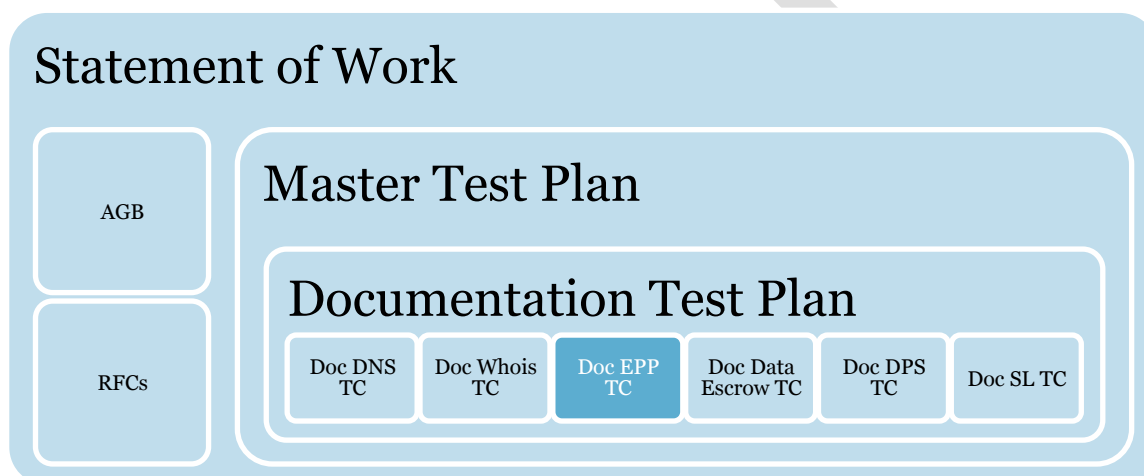
#### 1.2.1 External

- 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 EPP is described in its own chapter. The test procedures are described directly in the test case.

## 2. Document EPP 01

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### 2.1 Test case identifier

DocEPP01

### 2.2 Objective

The test verifies that the self-certification documents demonstrate that the EPP service meets the anticipated load.

### 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 concerning EPP service capacity.  
Expected part is: document gTLDSelfCert section 3.1.
2. Verify that the self-certification documents demonstrate that the EPP service meets the anticipated load.

### 3. Document EPP 02

#### 3.1 Test case identifier

DocEPP02

#### 3.2 Objective

The test verifies that the self-certification documents

- provide a maximum transactions per second rate for the EPP interface.
- provide this rate with 10 data points ranging from empty registry database to the expected size after one year of operations.

#### 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
gTLDAApplication	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 concerning EPP transaction rate.  
Expected part is: document gTLDSelfCert section 3.1.
2. Verify that the self-certification documents provides maximum transactions rate for the EPP interface.
3. Verify that the documentation states the expected size of the registry database after one year of operations, as determined by the applicant.
4. Verify that the maximum transaction rate is given in 10 data points ranging from an empty registry database to the expected size after one year of operations.

## 4. Document EPP 03

### 4.1 Test case identifier

DocEPP03

### 4.2 Objective

The test verifies that the self-certification documents describe measures taken to handle EPP services during initial registry operations, e.g. a land-rush period.

### 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 concerning EPP service capacity.  
Expected part is: document gTLDSelfCert section 3.2.
2. Verify that the self-certification documents describe measure taken to handle EPP services during initial registry operations, e.g. a land-rush period.



## 5. Document EPP 04

### 5.1 Test case identifier

DocEPP04

### 5.2 Objective

The test verifies that the self-certification documents demonstrate that the EPP extensions comply with RFC 3735.

### 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
gTLDApplcation	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 concerning EPP extensions. Expected part is: document gTLDSelfCert section 3.3.
2. Verify that the self-certification documents demonstrate that the EPP extension service complies with RFC 3735, by as a minimum verifying the following:
  - a. Verify that the extensions do not alter any existing protocol schemas.
  - b. Verify that the extensions are uniquely identified
  - c. Verify that the extensions are specified in XML
  - d. Verify that the extensions are available for a client as part of a greeting element.
3. Verify the syntax of the specified extensions by using a tool, i.e. xmllint.

## 6. Document EPP 05

### 6.1 Test case identifier

DocEPP05

### 6.2 Objective

The test verifies that the self-certification documents demonstrate that the EPP extensions are consistent with Module 5 of the AGB.

### 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 concerning EPP extensions. Expected part is: document gTLDSelfCert section 3.3.
2. Verify that the self-certification documents demonstrate that the EPP extensions are consistent with Module 5 of the AGB.

## 7. Document EPP 06

### 7.1 Test case identifier

DocEPP06

### 7.2 Objective

The test verifies consistency between the self-certification documents concerning the EPP service and the EPP technical tests performed.

### 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
gTLDApplcation	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 concerning EPP services. Expected part is: document gTLDSelfCert section 3.3.
2. Verify that the description in the self-certification documents concerning the EPP services is consistent with the technical tests performed:
  - a. Verify that the documented extensions are the same that were found in the technical tests. Analyze the technical test logs to find the extensions that should be announced to the client as part of a greeting element.
  - b. Verify that no other extensions were found in the technical test. Analyze the technical test logs to find any other extensions announced to the client as part of a greeting element.

## 8. Document EPP 07

### 8.1 Test case identifier

DocEPP07

### 8.2 Objective

The test verifies that the self-certification documents concerning EPP services over IPv6 complies with all assertions given in the gTLD application.

### 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
gTLDApplication	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 concerning EPP services over IPv6. Expected part is: document gTLDSelfCert section 3.4.
2. Identify all assertions made in the Applicants application concerning EPP services over IPv6.
3. Verify that the description in the self-certification documents concerning the EPP services over IPv6 complies with these assertions.

## 9. Global

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### 9.1 Glossary

The glossary is available in the Master Test Plan.

### 9.2 Document change procedures

Document change procedures are documented in the Master Test Plan.

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