

Extensible Provisioning Protocol (EPP) v1.0  
Registrar Acceptance Criteria  
**Sunrise OT&E Test**



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Version 1.3

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**v.1.3**

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# 1. Introduction

## 1.1 Purpose

This document describes the basic operations that a Registrar's client application must perform to be accepted by the Registry. Each of the following sections describes the actions that the client must perform to demonstrate correct implementation of the Extensible Provisioning Protocol (EPP) v1.0 and interactions with the Registry. Registrars should have a detailed knowledge of the following internet RFCs before attempting the test:

*Extensible Provisioning Protocol (EPP) RFC: 3730*

*Extensible Provisioning Protocol Domain Name Mapping RFC: 3731*

*Extensible Provisioning Protocol Host Mapping RFC: 3732*

*Extensible Provisioning Protocol Contact Mapping RFC: 3733*

*Extensible Provisioning Protocol Transport Over TCP RFC: 3734*

The tests presented herein verify the correct interface with the Registry for performing trademark operations. They do not cover all possible error and unusual conditions. The Registrar client application is responsible for correctly handling all unusual error conditions.

## 1.2 Formatting Conventions

Proper completion of the test requires that all commands and data must be entered exactly as given in this document. Any deviations will be considered a failure. The following items show the formatting conventions included in this document for required input and output values and for variable input and output responses.

Regular text in this format represents expected system input and output values that the client system will send to the server and that the server system will display in response to an action or actions provided by the Registrar. The following example illustrates an expected system output.

```
<result code='1000'><msg lang='en-US'>Command completed successfully</msg>
```

When **bold** text is located in Regular text, this represents a required input value that the Registrar must provide - the Registrar must enter the text exactly as shown. The following example illustrates the format for the required input values.

Domain Name: **epptest1.mobi**

Italicized text in output represents data returned from the server, which may or may not be the exact values represented in this document. It is the responsibility of the client to interpret these values properly and possibly reuse these for subsequent commands.

```
<domain:exDate>2006-02-11T22:07:28.OZ</domain:exDate>
```

## 1.3 Accounts

For the duration of the test, the Registrar will use a seeded test account, called ClientB. The Registrar will provide the Registry Technical Support Group with a valid email address. Standard registry transfer notifications, processed by the registry during the initial test seeding (\*\*see appendix for details\*\*), will be sent to this e-mail address for Registrar reference. Upon the scheduling of a test, the Registry Technical Support Group will provide hostnames and port numbers for the Registrar's client connection.

#### 1.4 Additional Requirements

Registry Operator will prime the Test Registry with data required to complete this test. Please refer to Appendix A if you wish to review this data. Do not attempt to enter this data into the Test Registry.

#### 1.5 Successful Command & Test Completion

While performing this test, if the response to a command is not exactly as shown, then stop your test and contact dotMobi Technical Support.

#### 1.6 Passing the Test

The Registrar must complete the test perfectly (with no typos or breaking the sequence of operations) from start to finish.

#### 1.7 Contact and Name Server Policy Requirements

There are certain policies that are enforced in the .mobi implementation of EPP:

A minimum of 4 contacts (including 1 Registrant and at least 1 of each Admin, Billing and Technical contacts) must be provided during the create domain transaction.

For the purpose of this test, all domains must be created with at least 2 name servers. Registrars may, however, when working with the "live" registry, create domains with fewer than 2 name servers, though DNS resolution depends upon a minimum of 2 assigned name servers.

## 2. EPP Communications

Registrar to Registry communications utilize the Extensible Provisioning Protocol (EPP) mapped over TCP (Transport Control Protocol). EPP commands are formulated using the Extensible Markup Language (XML). The Registrars' application client must utilize XML to send commands to the Registry and utilize an XML parser to interpret the server's responses. EPP itself relies exclusively upon user authentication for security. Additional security is provided by the use of Transport Layer Security (TLS), for session cryptography. Clients must communicate with the EPP server using a commercial or open source implementation of TLS, such as OpenSSL. Additional information concerning mapping EPP over TCP is available in 'Extensible Provisioning Protocol Transport Over TCP RFC 3734. Additional information concerning the TLS may be found in RFC 2246.

## 2.1 Session Management

### 2.1.1 Start Session

After making an initial connection to the Registry, the server shall reply with a greeting. A Registrar must receive the greeting message before attempting authentication and/or other supplementary commands.

### 2.1.2 Authentication

After the initial greeting the registrar client shall send the Login command to authenticate itself to the test registry with the following information:

Client ID: **ClientB**  
Password: **foo-BAR2**

Verify that the following response is received:

```
<result code='1000'><msg lang='en-US'>Command completed successfully</msg>
```

### 2.1.3 Change Password

To change a Registrar's password, an additional field is required in the Login command. At this point, the client must logout (keep the connection open), then log back in, and pass the following information to the Login command.

Client ID: **ClientB**  
Password: **foo-BAR2**  
New Password: **bar-FOO2**

Verify that the following response is received:

```
<result code='1000'><msg lang='en-US'>Command completed successfully</msg>
```

## 2.2 Domain Name Operations

The following tests exercises EPP commands that revolve around Domain Name creation and manipulation.

### 2.2.1 Create Trademark Domain name

Using the Create command, enter the following data.

Domain Name: **eppdomaintrademark.mobi**  
Domain Server: **ns1.otetest.mobi**  
Domain Server: **ns2.otetest.mobi**

Trademark Name: **Jack Smith**  
Trademark Number: **12345**  
Trademark Country: **CA**  
Trademark Date Applied for: **2004-07-10**  
Trademark Date Registered: **2005-10-02**  
Domain Registrant contact ID: **EPPOTE-C2**  
Domain Admin contact ID: **EPPOTE-C3**  
Domain Billing contact ID: **EPPOTE-C4**  
Domain Technical contact ID: **EPPOTE-C5**  
Auth Info: **my secret**

Verify that the following response is received:

```
<result code='1000'><msg lang='en-US'>Command completed  
successfully</msg>
```

### 2.2.2 Query Trademark Domain

Enter the following information to the info command.

Domain Name: **eppdomaintrademark.mobi**

Verify that the following response is received:

Domain Name: **eppdomaintrademark.mobi**  
Client ID: **ClientB**  
Trademark Name: **Jack Smith**  
Trademark Number: **12345**  
Trademark Country: **CA**  
Trademark Date applied for: **2004-07-10**  
Trademark Date Registered: **2005-10-02**

As well as status, name server and contact information.

At this point, contact dotMobi Technical Support at [techsupport@registry.mobi](mailto:techsupport@registry.mobi) or +1 416.619.3039 and inform them you have completed this test.

## Appendix A - Seeded Registry information

The OT&E test requires the creation and manipulation of several EPP objects prior to the client's initial connection. dotMobi Technical Support will perform the nec-

essary operations before the client's initial connection. The data within this appendix is included for informational purposes only.

\*\*\* Registrar: Do not attempt to enter this data into the Test Registry. \*\*\*

Registrar: ClientB  
Password: foo-BAR2

Contacts: The seven seeded contacts use the following common values:

Contact ID: XXXX-XX  
Contact Name: Test Contact  
Contact Organization: Example Corp. Inc  
Contact Address Street: 123 Example St.  
Contact Address Street: Suite 100  
Contact Address City: Anytown  
Contact Address State/Province: Any Prov  
Contact Address Postal Code: A1A1A1  
Contact Address Country: CA  
Contact Voice: +1.4165555555  
Contact Voice Extension: 1111  
Contact Fax: +1.4165555556  
Contact Email: jdoe@epptest.mobi  
Auth info: my secret

The unique contact ID values for each of the seven seeded contacts are as follows:

ID: EPPOTE-C2  
Owned by ClientB

ID: EPPOTE-C3  
Owned by ClientB

ID: EPPOTE-C4  
Owned by ClientB

ID: EPPOTE-C5  
Owned by ClientB

Domain: otetest.mobi  
Owned by ClientB

Host: ns1.otetest.mobi  
Owned by ClientB

Host: ns2.otetest.mobi  
Owned by ClientB