Trade Mark DataBase (TMDB) for Sunrise and Claims

Webinar 4: TMDB Claims services (Registries)

Presenter(s)	: IBM
Version	: 0.6

TMDB TRADEMARK-DATABASE

Sign In to enter data

Username
Password

SIGN IN

Start registration as registry
Start registration as registrar
I forgot my password

The Trademark-Database

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Revising Sunrise services
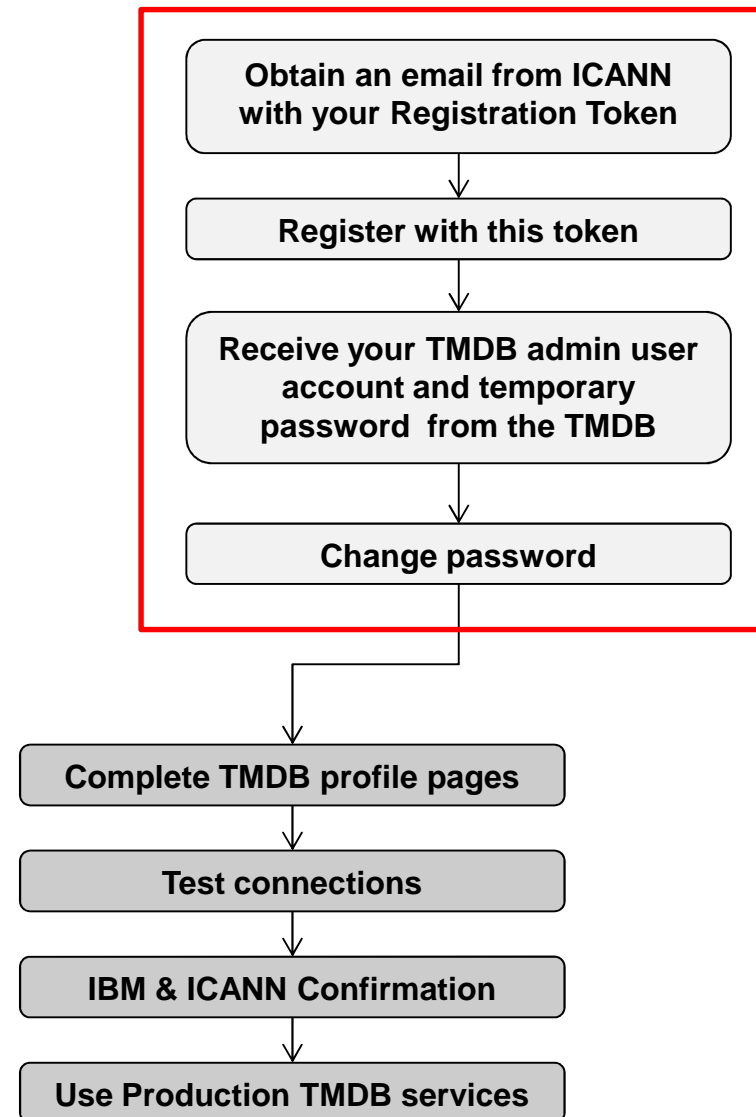
Configuring Claims services

Testing Claims services

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Introduction: The scope of this webinar

This session is intended for **Registry Operators** and will cover:

- TMDB configuration for access to **Claims** services
- TMDB testing functions and process

	Registries	Registrars
	Webinar 1	
	• Introduction to the TMDB	
Sunrise	**Webinar 2**	**Webinar 3**
	• Register with TMDB & managing your profile • Sunrise test functions	• Register with TMDB & managing your profile • Sunrise test functions
Claims	**Webinar 4**	**Webinar 5**
	• Claims test functions	• Claims test functions

Introduction: The goal of this webinar

The goal of this and the related webinars is to provide:

- An online explanation of the TMDB system to it´s users

- Users the possibility to ask questions

- A repository of recorded presentations, questions and answers which serve as useful help resources for TMDB´s users

Introduction: TMDB implementation status update

From august 9th 2013 the TMDB system offers support for the Sunrise processes:

- Retrieve the SMD Revocation List
- Submit the Sunrise LORDN Files and retrieve the related LORDN Log Files

Currently, since september 9th 2013 the TMDB system also supports the Claims processes:

- Retrieve the DNL List
- Submit the Claims LORDN Files and retrieve the related LORDN Log Files
- Retrieve CNIS files
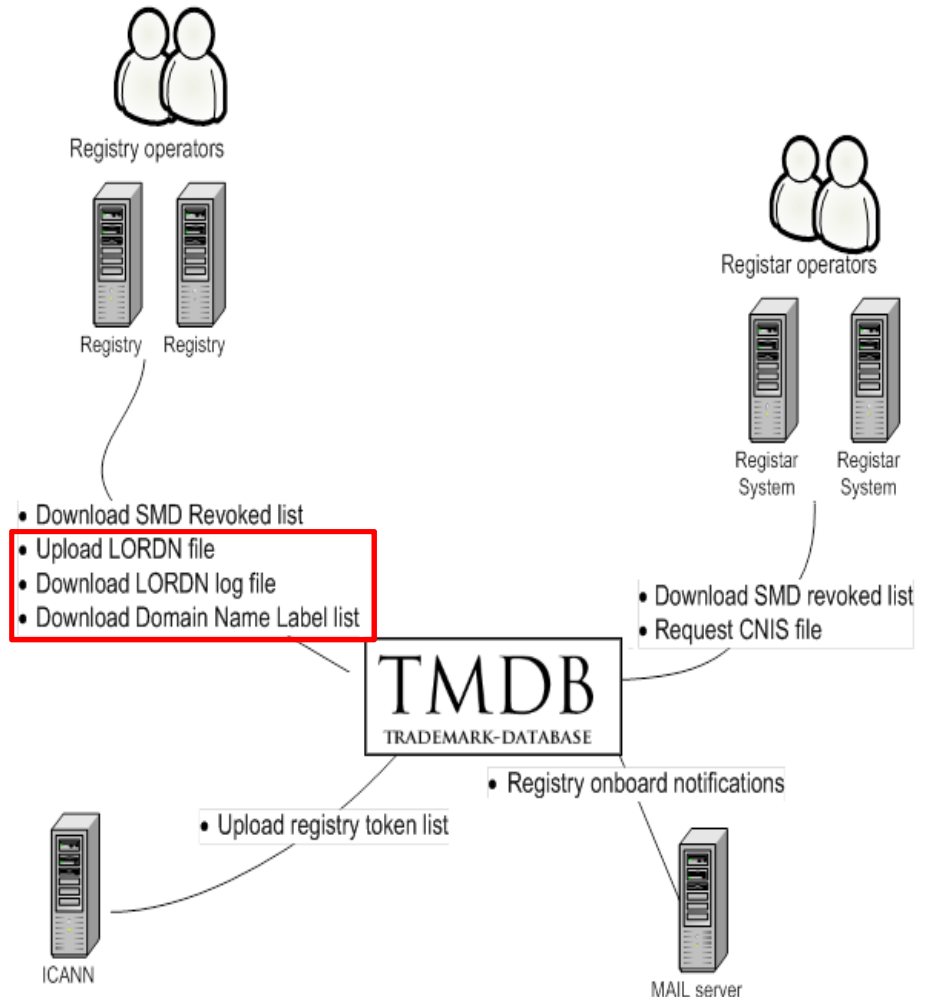
Registry operators

Registry   Registry

Registar operators

Registar System   Registar System

- Download SMD Revoked list
- Upload LORDN file
- Download LORDN log file
- Download Domain Name Label list

- Download SMD revoked list
- Request CNIS file

TMDB
TRADEMARK-DATABASE

- Registry onboard notifications

- Upload registry token list

ICANN

MAIL server

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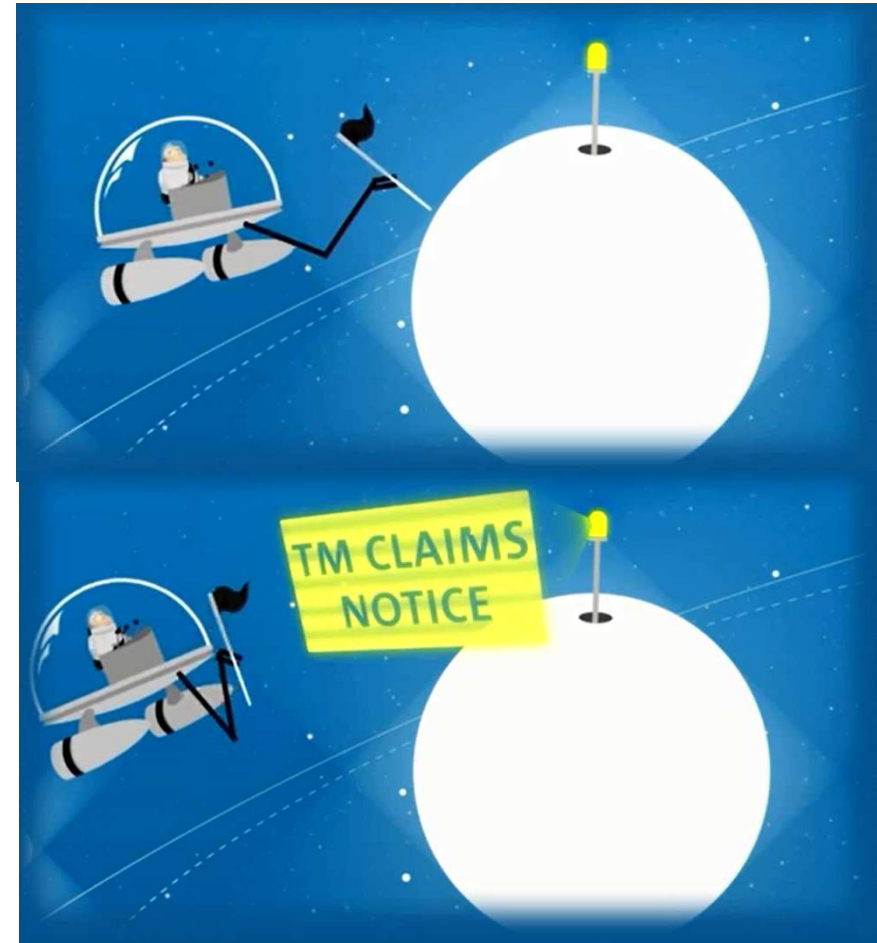
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Revising Sunrise services: TMDB registration steps

In order to set up your TMDB administrator account, several steps are required:

- You will have to obtain an email with an ICANN provided token

- You will have to register with this token to obtain a TMDB user account and temporary password

- After you have received a user account, you have to set your new password

```
┌─────────────────────────────┐
│ Obtain an email from ICANN  │
│ with your Registration Token│
└─────────────────────────────┘
              │
              ▼
┌─────────────────────────────┐
│    Register with this token │
└─────────────────────────────┘
              │
              ▼
┌─────────────────────────────┐
│  Receive your TMDB admin user│
│   account and temporary     │
│  password  from the TMDB    │
└─────────────────────────────┘
              │
              ▼
┌─────────────────────────────┐
│      Change password        │
└─────────────────────────────┘
```

Complete TMDB profile pages

Test connections

IBM & ICANN Confirmation

Use Production TMDB services

Revising Sunrise services: Testing the SMD revocation list service

Once the SMD revocation list test connections have been configured, they can be tested:

- A test SMD revocation list can be downloaded, as well as the corresponding signature file

- The validity of the SMD revocation list can be verified by using the signature file and the related public key that is published in the TMDB system

A test SMD revocation list can be downloaded from:

https://test.ry.marksdb.org/smdrl/smdrl-latest.csv

A test SMD revocation list signature can be downloaded from:

https://test.ry.marksdb.org/smdrl/smdrl-latest.sig

Revising Sunrise services: Testing the Sunrise LORDN service

Once the LORDN connections have been configured, they can be tested by uploading test LORDN files.

As a Registry, you may post a Sunrise LORDN file at the following URL:

https://test.ry.marksdb.org/LORDN/<TLD>/sunrise

LORDN Log Files can be retrieved using the URI provided in the HTTP location header field in the HTTP/202 return code which is issued if the interface was able to receive the LORDN file and the syntax of the LORDN file is correct.

The LORDN log files will be available within 30 minutes of the LORDN file upload. You should not attempt to retrieve more than once a minute.

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Configuring Claims services: What is claims? Overview.

- Claims is a rights protection mechanism which is part of the TMCH program.

- It involves a potential registrant being shown, and accepting, a notice about trademarks that they may be infringing if they proceed with domain name registration.

- Therefore the Registrar must check with the Registry whether the domain name is subject to a claim.

- The Registry uses the DNL list from the TMDB to verify this. If a claim exists on a label, the Registrar is provided a Lookup key which the Registrar can use to retrieve the actual claims info from the TMDB.

- Once a domain name with such a claim has been registered, the Trademark Holders as registered in the TMDB system, are notified by the Trademark Validator (TMV).

Configuring Claims services: CNIS & lookup key

A Trademark claim notification is provided in a **CNIS file** (Claim Notice Information Service file). Only registrars have access to CNIS files.

A '**lookup key**' is a reference to a CNIS file. A lookup key can be retrieved from the DNL list and sent to a Registrar. (e.g. 2013041500/2/6/9/rJ1NrDO92vDsAzf7EQzgjX4R0000000001)

In order to supply a Registrar with a Trademark claim notification Lookup key, the DNL list service needs to be configured in the TMDB by the Registry. This service allows the Registry to download the DNL list from the TMDB. It is not accessible by Registrars.
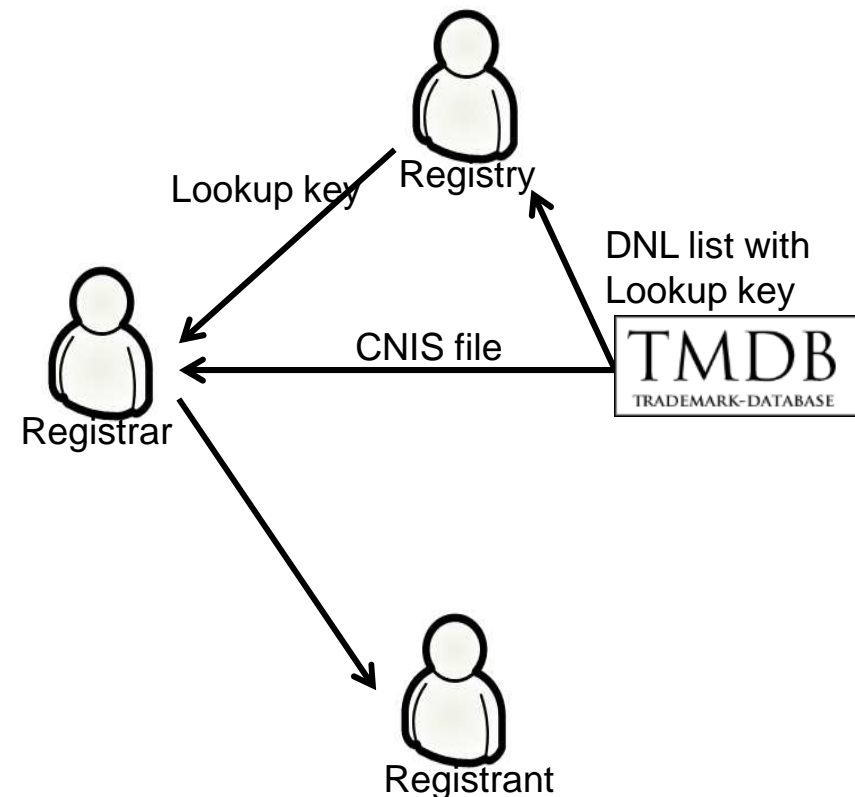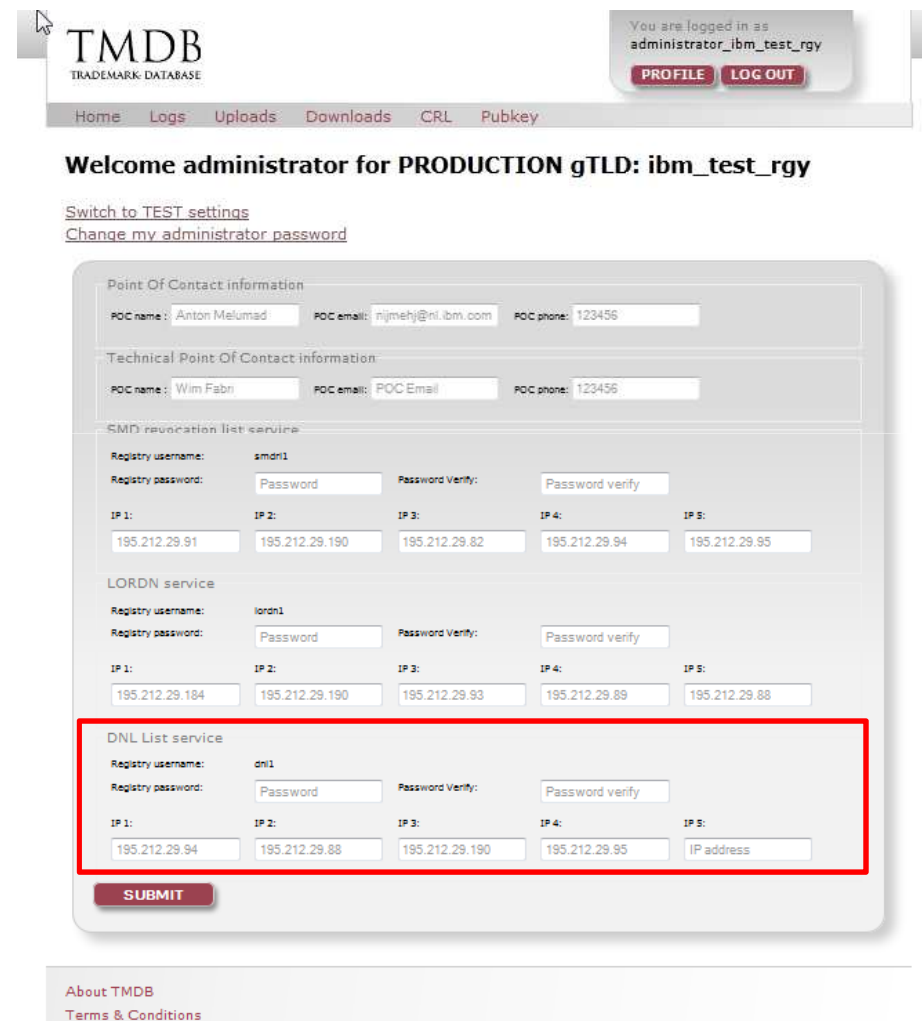
Configuring Claims services: DNL list service

Configuring the DNL list service

In order to connect to a DNL list service, the following values are required:

- a password (can be the same as for the other services)

- at least one and maximum 5 IP address for each service (can be the same as for the other service)

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Testing Claims services: ICANN Certification: Overview

ICANN requires Registries to go through a TMDB testing and certification process before using production functionality.

This testing and certification process is described in the "welcome package" you will from ICANN.

Before certification, you should only use the TMDB test functions.

Testing: ICANN Certification: Tests to be performed

For the Registry, the following tests must be performed:

Sunrise:

- Download a SMD Revocation List.

- Upload a Sunrise LORDN file with at least three (3) domain names that have been validated using the "testing SMDs" generated by the Trademark Clearinghouse and retrieve the related LORDN Log files.

Claims:

- Download a DNL list (to be explained in future webinar).

- Upload a Claims LORDN file with at least three domain names; and retrieve the related LORDN log files.

Testing: ICANN certification: Test validation process

After all the tests have been successfully performed by a Registry, a Service Request must be raised in the IBM Service Portal and successful test evidence attached

IBM will verify the request and will send an email notifying ICANN of successful test completion and update and close the Service Request notifying the requester of the status.

In case of a failure, only the requester will be informed.

More details are available at http://newgtlds.icann.org/en/about/trademark-clearinghouse

IBM
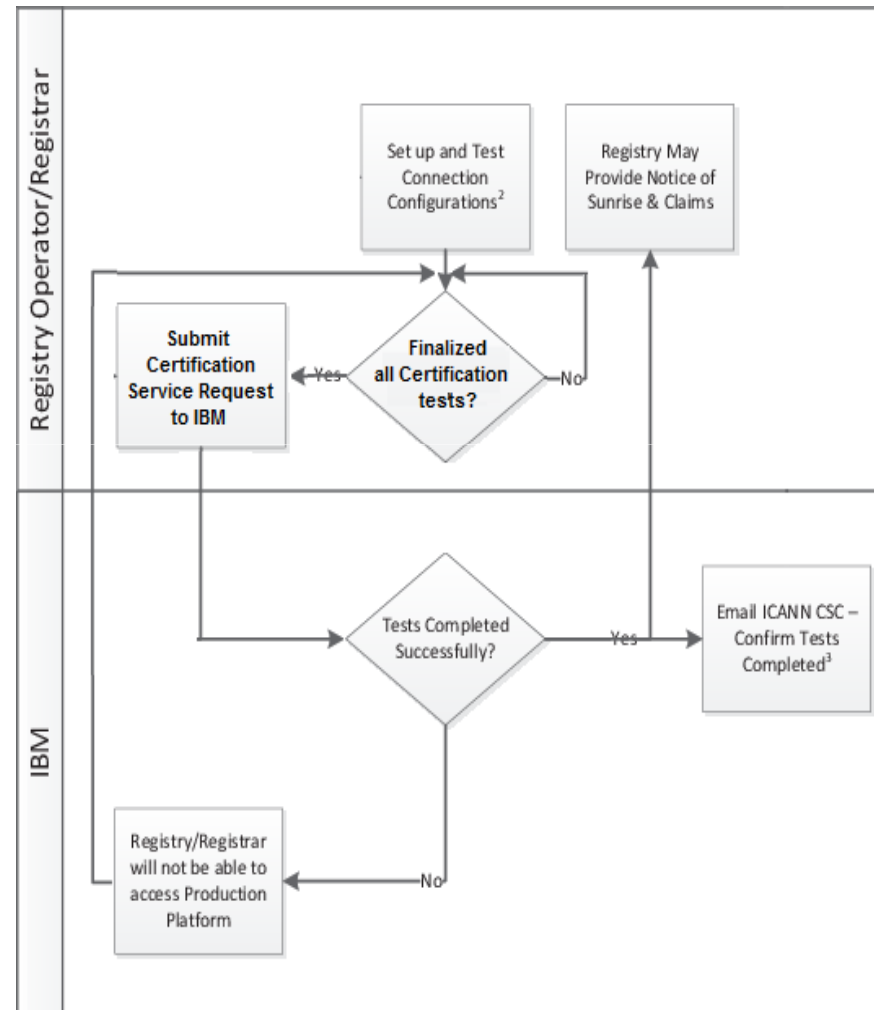
Testing Claims services: DNL list service

Once the DNL list connections have been configured. A test DNL list can be downloaded.

The validity of the DNL list can be verified by a DNL list signature and a public key available from the TMDB system.

A test DNL list can be downloaded from:

https:// test.ry.marksdb.org/dnl/dnl-latest.csv

A test DNL list signature can be downloaded from:

https://test.ry.marksdb.org/dnl/dnl-latest.sig

Configuring Claims services: DNL list service

The DNL List is contained in a CSV-like formatted file that has the following structure:

- first line: <version>,<DNL List creation datetime> Where: + <version>, version of the file, this field MUST be 1. + <DNL List creation datetime>, date and time in UTC that the DNL List was created.

- second line: a header line as specified in [RFC4180] With the header names as follows: DNL,lookup-key,insertion-datetime

- one or more lines with: <DNL>,<lookup key>,<DNL insertion datetime>
  Where:
  - <DNL>, a Domain Name Label covered by a PRM.
  - <lookup key>, lookup key that the Registry MUST provide to the Registrar.
  - <DNL insertion datetime>, datetime in UTC that the DNL was first inserted into the DNL List. The possible two values of time for inserting a DNL to the DNL List are 00:00:00 and 12:00:00 UTC.

Configuring Claims services: DNL list service

The lookup key has the following format:

<YYYY><MM><DD><vv>/<X>/<X>/<X>/<Random bits><Sequential number>

where:

- YYYY: year that the TCN was generated.
- MM: zero-padded month that the TCN was generated.
- DD: zero-padded day that the TCN was generated.
- vv: version of the TCN, possible values are 00 and 01.
- X: one hexadecimal digit [0-9A-F]. This is the first, second and third hexadecimal digit of encoding the <Random bits> in base16 as specified in [RFC4648].
- Random bits: 144 random bits encoded in base64url as specified in [RFC4648].
- Sequential number: zero-padded natural number in the range 0000000001 to 2147483647

Configuring Claims services: DNL list service

Example for DNL List:

1,2012-08-16T00:00:00.0Z

DNL,lookup-key,insertion-datetime

example,2013041500/2/6/9/rJ1NrDO92vDsAzf7EQzgjX4R0000000001,2010-07-14T00:00:00.0Z

another-example,2013041500/6/A/5/alJAqG2vI2BmCv5PfUvuDkf40000000002,2012-08-16T00:00:00.0

anotherexample,2013041500/A/C/7/rHdC4wnrWRvPY6nneCVtQhFj0000000003,2011-08-16T12:00:00.0Z

Configuring Claims services: DNL list service

- Each Registry must download at least each day, and maximum two times a day (each 12 hours), an update list of labels submitted to claims.

- The URLs of the interface to retrieve the latest file does not require knowledge of the file name

- Depending on UTC time the interface should return either dnl_DDMMYYYY000000.csv or dnl_DDMMYYYY120000.csv and the corresponding .sig signature files

- Registry must access these https URL with basic authentication (login – password).

Testing Claims services: public key for DNL list service

- The public key can be downloaded from:

  https://marksdb.org/tmdb/public/pubkey

- Or can be accessed via the TMDB web interface as shown on the right

- This public key can be used for validation of all downloaded TMDB files

Testing Claims services: CNIS service for Registrars

Registrars can use the Lookup Keys contained in the DNL List to download the CNIS files.

A Registrar can download a CNIS file directly via the URL on the right using the 'lookup key'.

Registrar can download a **CNIS file** using the 'lookup key':

https://test.tmcnis.org/cnis/<lookupkey>

Testing Claims services: LORDN service

Testing Claims LORDN file connections

Once the LORDN connections have been configured, they can be tested by uploading test Sunrise LORDN files.

Note that a test Claims LORDN file needs to be uploaded to a different URL as a test Sunrise LORDN file

A test **Claims** LORDN file can be uploaded to:

> **https://test.ry.marksdb.org/LORDN/<tld>/claims**

Testing Claims services: LORDN service

LORDN file format

The LORDN file is a CSV-like formatted file that has the following structure:

- Header (1st line)

- Column name list (2nd line)

- One or more data lines (from line 3 onwards)

Sample file:

```
1,2013-09-13T07:20:00.0Z,3
roid,domain-name,notice-id,registrar-id,registration-datetime,ack-datetime,application-datetime
CL0031-VL1,mynews.rgy3,8625fe660000000000000006065,999,2013-09-13T06:20:00.0Z,2013-09-13T02:10:00.0Z
CL0032-VL1,localnews.rgy3,e70bb9550000000000000006099,999,2013-09-13T06:20:00.0Z,2013-09-13T02:10:00.0Z
CL0033-VL1,news.rgy3,b07f4d5f0000000000000006125,999,2013-09-13T06:20:00.0Z,2013-09-13T02:10:00.0Z
```

Testing Claims services: LORDN service

LORDN file format

Header

- File version (must always be 1)

- File creation date (UTC)

- Number of domain names allocated on <registration-datetime>

Sample file:

```
1,2013-09-13T07:20:00.0Z,3

roid,domain-name,notice-id,registrar-id,registration-datetime,ack-datetime,application-datetime

CL0031-VL1,mynews.rgy3,8625fe66000000000000006065,999,2013-09-13T06:20:00.0Z,2013-09-13T02:10:00.0Z

CL0032-VL1,localnews.rgy3,e70bb9550000000000000006099,999,2013-09-13T06:20:00.0Z,2013-09-13T02:10:00.0Z

CL0033-VL1,news.rgy3,b07f4d5f000000000000006125,999,2013-09-13T06:20:00.0Z,2013-09-13T02:10:00.0Z
```

Testing Claims services: LORDN service

LORDN file format

Column name list: comma separated list of 7 column names for below data lines

roid: Repository Object Identifier
domain-name: <label>.<tld>
notice-id: Trademark Claim Notice ID = Checksum (8 chars) + TMDB Identifier
registrar-id: IANA ID of the Registrar
registration-datetime: domain allocation timestamp (UTC)
ack--datetime: TM Notice acknowledgment timestamp (UTC)
application-datetime: (optional) Application submission timestamp (UTC)

Sample file:

```
1,2013-09-13T07:20:00.0Z,3

roid,domain-name,notice-id,registrar-id,registration-datetime,ack-datetime,application-datetime

CL0031-VL1,mynews.rgy3,8625fe660000000000000006065,999,2013-09-13T06:20:00.0Z,2013-09-13T02:10:00.0Z

CL0032-VL1,localnews.rgy3,e70bb9550000000000000006099,999,2013-09-13T06:20:00.0Z,2013-09-13T02:10:00.0Z

CL0033-VL1,news.rgy3,b07f4d5f0000000000000006125,999,2013-09-13T06:20:00.0Z,2013-09-13T02:10:00.0Z
```

Testing Claims services: LORDN service

LORDN Syntax Check

Before a LORDN file can be processed it is checked for valid syntax:

- Header is present and complete
- Column headers are correct
- Label data matches expected data types
- Mandatory data is present
- Etc.

If the check fails, the 400 HTTP response is returned containing details about offending lines in the response body, e.g.

```
Invalid format, line 3
```

Testing Claims services: LORDN service

The results of LORDN processing are available in LORDN Log files.

These are simple text files that contain processing status for the entire LORDN file as well as for individual label data.

Sample LOG file content:

1,2013-09-10T08:55:02.0Z,2013-09-10T08:50:17.7Z,000000000000013423,**accepted**,**warnings**,3

roid,result-code

CL0001-VL1,2000

CL0002-VL1,2000

CL0003-VL1,3603

Status codes:

2xxx: OK

3xxx: warnings   (line ignored)

4xxx: errors   (file is rejected)

Testing Claims services: LORDN service

LORDN Log Files can be retrieved using the URL provided in the "Location" header of HTTP/202 response issued if the interface was able to receive the LORDN file and the syntax of the LORDN file is correct, e.g.:

```
https://test.ry.marksdb.org/LORDN/<tld>/claims/000000000000127/result
```

The LORDN log files will be available within 30 minutes of the LORDN file upload. You should not attempt to retrieve the log more than once a minute.

Configuring the LORDN service (sunrise): LORDN rules

Several rules for uploading a LORDN file:

- Based on the timers used by TMVs and the TMDB, the RECOMMENDED maximum frequency to upload LORDN files from the Registries to the TMDB is every 3 hours.

- It is RECOMMENDED that Registries try to upload at least two LORDN files per day to the TMDB with enough time in between, in order to have time to fix problems reported in the LORDN Log file.

- The Registry SHOULD upload a LORDN file only when the previous LORDN file has been processed by the TMDB and the related LORDN Log file has been downloaded and processed by the Registry.
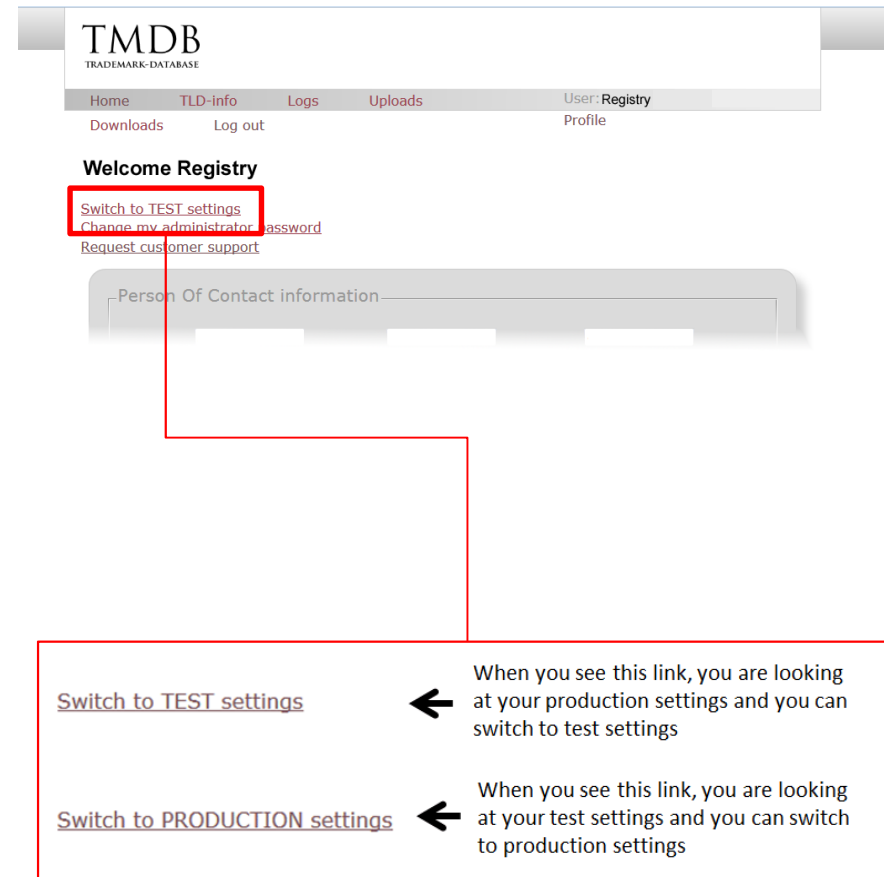
ICANN certification for production : Configure production settings

Once you have obtained ICANN certification, you can use the production environment.

You can now:

- Configure your production settings to upload LORDN files to the production environment

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Upcoming webinars: Overview

Conducted webinars: 1, 2, 3

Upcoming webinars: 4 (next week), and 5

Refer to the ICANN site for schedule details.

	Registrars	Registrars
	Webinar 1	
	• Introduction to the TMDB	
Sunrise	**Webinar 2**	**Webinar 3**
	• Register with the TMDB & managing your profile • Sunrise test functions	• Register with the TMDB & managing your profile • Sunrise test functions
Claims	**Webinar 4**	**Webinar 5**
	• Claims test functions	• Claims test functions

Upcoming webinars: Timing

Given the time zones to cover, each webinar is scheduled twice:

- Wednesdays even weeks at 15:00 – 17:00 UTC

- Wednesday odd weeks at 08:00 – 10:00 UTC
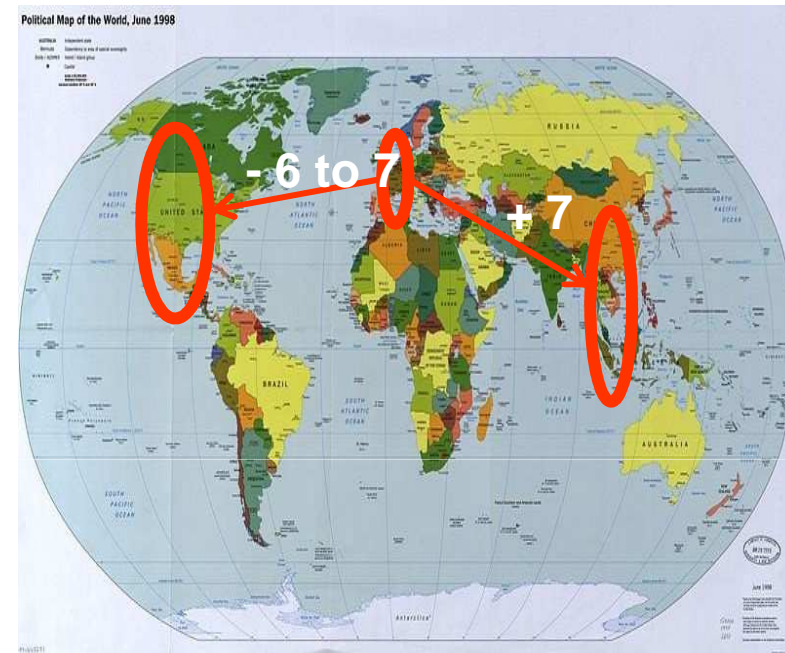
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Supporting Material

The draft TMCH functional specification

http://tools.ietf.org/html/draft-lozano-tmch-func-spec-06

ICANN TMDB webpages with amongst others TMDB manuals, FAQs, explanation of SMD files, details about the TMDB registration process

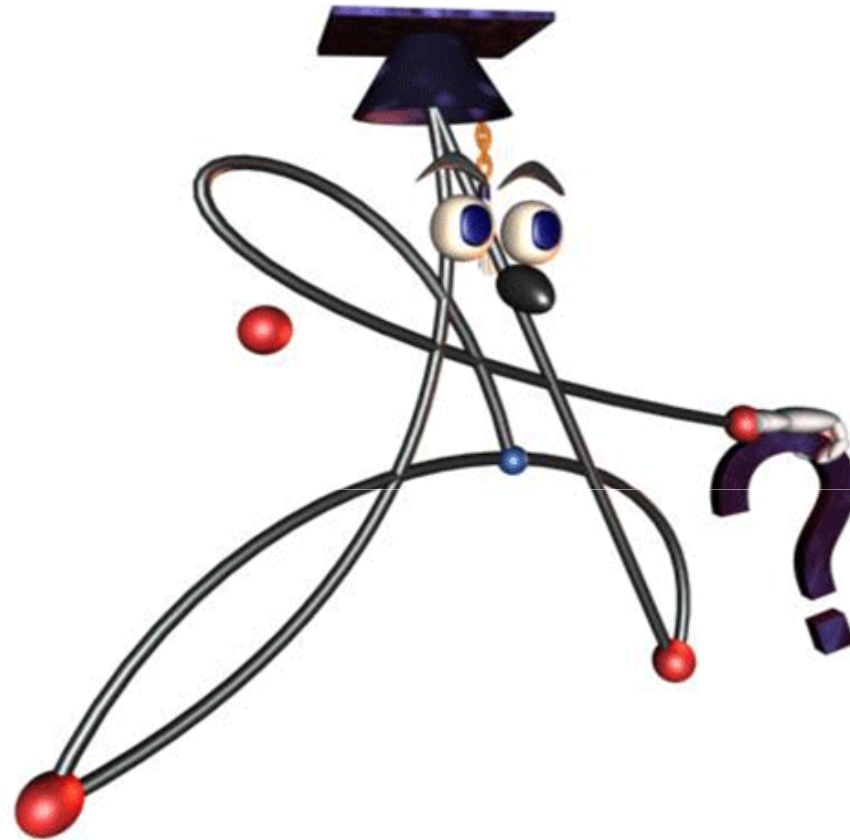http://newgtlds.icann.org/en/about/trademark-clearinghouse/scsvcs

The TMDB webinar recordings:

http://newgtlds.icann.org/en/announcements-and-media/webinars

The TMDB webinar announcements can be found at:

http://newgtlds.icann.org/en/announcements-and-media/webinars

Questions?

Version management

Version	Date	Changes
0.1	12-8-2013	Initial version
0.2	12-9-2013	Changed corresponding changes in earlier webinars
0.3	16-9-2013	Update
0.4	17-9-2013	Added Sunrise revision
0.5	18-9-2013	Corrected LORDN URL

*Hidden slide: This slide will not appear during the presentation