Statement of Work
Trademark Clearinghouse
TMCH Database Platform Service
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1 Introduction

This Statement of Work (the “Database SOW”) describes the duties and responsibilities of IBM and ICANN relating to IBM’s provision of the Services for the Trademark Clearinghouse (“TMCH”) Database Function pursuant to the Trademark Clearinghouse Database Framework Agreement, dated December 21, 2012 (the “Agreement”).

Capitalized terms not defined in this Database SOW shall have the meaning set forth in the Agreement.
2 Service Description

IBM will provide the TMCH database platform Service as described herein (the "Database Services").

Included in the Database Services are the development, hosting, installation, technical operation and support of the database to store trademarks and related information for the TMCH (the "TMCH Database Platform"). This includes (i) the TMCH Database Platform, and (ii) the hosting of the content registered with and submitted to the TMCH (including Trademarks and their related domain labels (including their validation and Sunrise and Claims service status (as those concepts are contemplated by the gTLD Applicant Guidebook)), as generated out of the TMCH registration and validation process by Deloitte or any additional Trademark Clearinghouse Validators (i.e., the Trademark Clearinghouse Validation Function) and (iii) the underlying and related hardware and software infrastructure components of the TMCH Database Platform.

The content required for the execution of the Sunrise and Claims services, which will be specified in a separate Statement of Work, will be included in the TMCH Database Platform. It is anticipated that the TMCH Database Platform will include the following fields (the "Data Fields"):

1. Trademark Data
   a. Last renewal
   b. TMCH expiration date
   c. Trademark text (UTF-8)
   d. Class/goods & services (two fields: one containing class number and one containing free text)
   e. Jurisdiction of registration
   f. Jurisdiction of protection
   g. Registration number, statute or treaty reference
   h. Registration, expiration Date
   i. Trademark Owner:
      i. Name
      ii. Organization
      iii. Postal Address

2. Domain Name Data
   a. U-label
   b. A-label

3. Trademark Clearinghouse contracting party (Trademark Holder or Trademark Agent)
   a. Name
   b. Phone
   c. Email
   d. Organization
   e. Postal Address
IBM takes no responsibility for the contents of the Data Fields that will be provided by the Trademark Clearinghouse Validators (the "Data Field Content").

The final requirements for the Data Fields and the format for such Data Fields will be determined by ICANN by January 31, 2013. Following such date, ICANN may not amend the Data Fields prior to the Target Date (as defined below) without IBM’s written consent, such consent not to be unreasonably withheld.

Information collected by Trademark Clearinghouse Validators that is not part of the Data Fields will not be included in the TMCH Database Platform. The Data Fields must be a subset of the data fields collected by Trademark Clearinghouse Validators.

The Database Services will be performed in accordance with the requirements as set forth in the requirements documents attached hereto as Attachment 1 (the "Requirements") to the extent such Requirements relate to the Database Services. ICANN may revise and supplement the Requirements, in which case such revised or supplemented Requirements shall be the Requirements for purposes of this Database SOW and shall be set forth in a revised Attachment 1. For the avoidance of doubt, IBM is not responsible for delivering the full project scope of the TMCH, but is responsible only for the services specified in the Agreement and this Database SOW, unless otherwise agreed in a PCR or other Statement of Work. The Parties acknowledge that the target date for completion and implementation of the TMCH Database Platform is April 22, 2013 (the "Target Date").

All fees relating to this Database SOW are contained in the Fee Specification attached hereto as Attachment 2 (the "Fee Specification").

In case of ambiguity IBM may contact ICANN for clarification of the Requirements. If any clarifications, amendments or supplements to the Requirements by ICANN result in a material timeline constraint, a material increase in the complexity or costs for IBM to perform the Database Services, IBM will inform ICANN thereof and the Parties will negotiate in good faith an amendment to the Agreement (including the Fee Schedule) or this Database SOW to account for such modification’s material impact as appropriate. If after good faith discussions, the Parties cannot agree on whether the impact is material or not, the impact will be considered material. Requests for new services or material modifications to existing services will be handled via the Project Change Control Procedure as specified in Attachment 2 hereto.

The contents of the Database Services can be extended or modified as an amendment to the Agreement or this Database SOW.
3 Service Components

3.1 TMCH Database Platform

At an overview level, the TMCH Database Platform will support the following functions:

(A) Be a central repository of Trademarks and the related domain labels, including their validation and sunrise/claims service status, as generated out of theTrademark registration and validation process.

(B) Provide ICANN operational reporting related to the Trademarks and related content contained in the Database platform pursuant to the reporting requirements set forth in this Database SOW.

(C) Regularly export the Data Field Content to an IBM appointed and commissioned escrow agent (subject to ICANN’s consent, not to be unreasonably withheld) in accordance with the Data Escrow Specification, which will be developed by IBM and ICANN after the date hereof, and incorporated as Attachment 3 to this Database SOW provided that the Parties agree that such procedures shall be based on and, to the extent applicable, be substantially similar to those procedures applicable to ICANN’s New gTLD Program (the “Data Escrow Specification”).

(D) Provide ICANN monthly reports related to the TMCH Database Platform (the “Database Content Reports”). The Database Content Reports will be retrievable by ICANN personnel via secure file transfer by the close of the second (2nd) Belgian business day of each month and may thereafter be published by ICANN on its website at ICANN’s sole discretion.

The Database Content Reports will be formatted in a standard text-only, comma-delimited format (CSV as described in RFC 4180) for import and analysis in widely available software tools. All Database Content Reports will reflect the counters and calculated values for the period beginning at 00:00:00 UTC on the first day of the reporting period and concluding at 23:59:59 UTC of the last day of the reporting period.

The Database Content Reports will include the following for each reporting period:

<table>
<thead>
<tr>
<th>Field #</th>
<th>Description</th>
<th>Contents</th>
</tr>
</thead>
<tbody>
<tr>
<td>01</td>
<td>trademark-records</td>
<td>Total number of Trademark records contained in the TMCH Database Platform per jurisdiction, using each ISO code in a column</td>
</tr>
<tr>
<td></td>
<td>Description</td>
<td>Description</td>
</tr>
<tr>
<td>---</td>
<td>-----------------------------------------------------------------------------</td>
<td>-----------------------------------------------------------------------------</td>
</tr>
<tr>
<td>02</td>
<td>registered-marks</td>
<td>Total number of Trademark records for registered marks per jurisdiction, using each ISO code in a column</td>
</tr>
<tr>
<td>03</td>
<td>court-validated-marks</td>
<td>Total number of Trademark records for court-validated marks per jurisdiction, using each ISO code in a column</td>
</tr>
<tr>
<td>04</td>
<td>statute-treaty marks</td>
<td>Total number of Trademark records for marks protected by statue or treaty per jurisdiction, using each ISO code in a column</td>
</tr>
<tr>
<td>05</td>
<td>other-marks</td>
<td>Total number of Trademark records for other marks per jurisdiction, using each ISO code in a column</td>
</tr>
<tr>
<td>06</td>
<td>use-verified</td>
<td>Number of Trademark records verified for proof of use (per jurisdiction, using each ISO code in a column)</td>
</tr>
<tr>
<td>07</td>
<td>domain-names</td>
<td>Total number of domain names derived from Trademark records in the TMCH Database Platform (per jurisdiction, using each ISO code in a column)</td>
</tr>
<tr>
<td></td>
<td><strong>Aggregate Reporting Items</strong></td>
<td></td>
</tr>
<tr>
<td>08</td>
<td>trademark-holders</td>
<td>Number of unique Trademark Holders in the TMCH Database Platform</td>
</tr>
<tr>
<td>09</td>
<td>trademark-agents</td>
<td>Number of unique Trademark Agents in the TMCH Database Platform</td>
</tr>
<tr>
<td>10</td>
<td>records-submitted</td>
<td>Aggregate number of Trademark records submitted by the Trademark Clearinghouse Validator during the reporting period</td>
</tr>
<tr>
<td>10</td>
<td>records-updated</td>
<td>Aggregate number of Trademark records updated by the Trademark Clearinghouse Validator during the reporting period</td>
</tr>
<tr>
<td>11</td>
<td>records-removed</td>
<td>Aggregate Number of Trademark records removed by Trademark Clearinghouse Validator during the reporting period</td>
</tr>
</tbody>
</table>
IBM will cooperate with ICANN to provide additional reporting data on a per-request basis, up to a maximum of 10 ad hoc additional reporting items per calendar year.

Should ICANN approve additional Trademark Clearinghouse Validators, IBM will provide the Database Content Reports on a per-Trademark Clearinghouse Validator basis and in the aggregate, and such additional reporting shall not be deemed a new report hereunder. So long as there is only one Trademark Clearinghouse Validator, the per-Trademark Clearinghouse Validator report will be identical to the aggregate report.

Should ICANN appoint an additional Trademark Clearinghouse Validator and desire for IBM to provide different or additional Database Content Reports than those provided under this Section 3.1, the Parties will discuss in good faith any such different or additional Database Content Reports.

### 3.1.1 Integration

As part of this Database SOW, IBM will provide for the integration between the Trademark Clearinghouse Validation Function and the TMCH Database Platform. This integration will be in a first phase realized with Deloitte as the initial Trademark Clearinghouse Validator.

The integration mechanism will be a batch reception function whereby IBM will receive the Data Field Content provided by the Trademark Clearinghouse Validators. Every three hours, provided a Trademark Clearinghouse Validator has made the Data Field Content available to IBM over stftp, IBM will receive the Data Field Content over stftp from each Trademark Clearinghouse Validator. Notwithstanding anything in this Database SOW to the contrary, IBM will ensure that Data Field Content files can be accepted and stored by IBM on and after February 1, 2013.

Within three hours of receiving the Data Field Content from a Trademark Clearinghouse Validator, IBM will upload the data into the TMCH Database Platform. Only simple – non-binary – data formats (text/date/number) will be involved in the upload. When uploading the Data Field Content, IBM will record an additional field for the name of the Trademark Clearinghouse Validator so as to be able to differentiate which Data Field Content came from which Trademark Clearinghouse Validator. IBM will also keep a log of which Data Field Content were added, deleted or modified by a Trademark Clearinghouse Validator in the TMCH Database Platform.

Additional integration services, including integration with additional Trademark Clearinghouse Validators, is not included in the current scope. Parties may agree to include such services at a later stage upon joined decision and agreement between IBM and ICANN. This will be handled via the Project Change Control Procedure.

No other interface other than the receiving of Data Field Content from Trademark Clearinghouse Validators and the Reports to ICANN related thereto is included in this Database SOW. In particular, all interfaces with Registries and registrars for Sunrise and Claims processes are excluded from this Database SOW.
3.1.2 Infrastructure

IBM will provide, install and configure the infrastructure underlying the TMCH Database Platform. This includes the following (the “Infrastructure Services”):

- Data Centre Facilities
- Servers
- Storage
- Backup & Restore
- NW services
- Middleware Components, including DB2
- OS
- Security Devices
- Infrastructure Architecture Definition
- Infrastructure Capacity Planning

The Parties may agree to include additional Infrastructure Services upon joined decision and agreement between IBM and ICANN.

3.2 Platform Operations, Administration, and Maintenance

IBM will perform customary operations, administration, and maintenance services, including 24/7 support and troubleshooting (the “OAM Services”).

The OAM Services include activation and usage of the processes for managing and delivering the OAM Services. IBM will utilize the following service management processes for managing the provision of the OAM Services:

(A) Change Management is the process for planning, testing, coordinating, implementing and monitoring changes affecting service delivery and the operating environments without adversely impacting service delivery.

(B) Escalation Management is the process for escalating and resolving issues associated with requests (for example, change requests, incident resolution requests).

(C) Incident Management is the process for minimizing the impact of Incidents affecting the availability of the Database Services, which is accomplished through analysis, tracking, and prevention of Incidents.

(D) Service Level Management is the process for monitoring and tracking performance against the Service Levels as specified in Section 4 of this Database SOW.

3.3 Additional Support
IBM will provide a total of 192 hours per calendar year of support relating to modification to the Database Services specified herein or implementation of New Services. This support shall be in addition to the other support obligations of IBM under this Database SOW (such as the OAM Services, incident handling services, implementation services, etc.). The IBM Service Manager will keep track of the usage of such hours and will keep ICANN informed thereof. Any requested support in excess of 192 hours will be handled by the Project Change Control Procedure.
4 Service Support Flow, Severity and Service Levels

4.1 Incident Handling

During the performance of the Database Services, it is possible that certain incidents may arise through the fault of either, both or neither of the Parties that cause disruptions in the Database Services (“Incidents”). Incidents will be attributed a “Severity Level” (as defined below) and will be handled in line with their severity.

IBM and ICANN agree to agree to a detailed list of incidents and categorize them under the different severity levels during the first 6 months following the date of this Database SOW.

4.2 Incident Severity Definition

<table>
<thead>
<tr>
<th>Severity Level</th>
<th>Description</th>
</tr>
</thead>
</table>
| 1              | - Critical operability impact and Database Services unavailable for Trademark Clearinghouse Validators  
- Security and integrity of the TMCH Database is compromised or attacked |
| 2              | - Major operability impact  
- Database Services available but materially degraded  
- Failure to act may lead to Severity Level 1 |
| 3              | - Minor operability impact  
- Database Services available but immaterially degraded  
- Failure to act may lead to Severity Level 2 |
4.3 Service Level Objectives

IBM will provide the following service levels for investigation and resolution of all Incidents related to the TMCH Database.

<table>
<thead>
<tr>
<th>Severity Level</th>
<th>Update Frequency*</th>
<th>Reaction Time**</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>&lt; 1 hour</td>
<td>30 minutes</td>
</tr>
<tr>
<td>2</td>
<td>&lt; 8 hours</td>
<td>1 hour</td>
</tr>
<tr>
<td>3</td>
<td>&lt; 3 calendar days</td>
<td>Within 1 business day***</td>
</tr>
</tbody>
</table>

* - Update frequency refers to updates from IBM to the Trademark Clearinghouse Validator having filed the ticket relating to the Incident (i.e. the reference number for support services in respect of an Incident) by IBM and to ICANN.

** - Reaction Time refers to the timeframe by which IBM must begin diligent and comprehensive review of the applicable Incident.

*** - All times are stated in CET and services will be performed on local IBM Belgium business days from Monday to Friday.

4.4 Service Levels

These service levels provide metrics to measure performance of the Database Services (the “Service Levels”). IBM shall perform the Trademark Clearinghouse Database Function in accordance with the specification and requirements of the Service Levels.

<table>
<thead>
<tr>
<th>Service Area</th>
<th>Availability (per month)</th>
<th>Performance during normal operations</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Integration of Data Field Content</td>
<td></td>
<td></td>
</tr>
<tr>
<td>A. Availability to receive submissions of Data Field Content from each Trademark Clearinghouse Validators</td>
<td>99.9% (outside of planned maintenance)</td>
<td>N/A</td>
</tr>
</tbody>
</table>
In the event that IBM schedules a planned maintenance period, it will provide related notice to the Trademark Clearinghouse Validators, including ICANN, at least 48 hours in advance of that maintenance window, which notice will specify the nature of such maintenance and the anticipated impact of such maintenance upon availability and performance of the system. IBM must receive prior written consent of the ICANN Service Manager prior to implementing any maintenance period. IBM shall provide for redundant database capabilities to ensure compliance with the required Service Levels.

Maintenance periods are the timeslots during which IBM will schedule maintenance tasks for the TMCH Database Platform that may impact the availability of the TMCH Database Platform. In addition to the foregoing, IBM will comply with the following requirements relating to maintenance periods:

(A) Maintenance periods will be determined each quarter and shall consist of at least two maintenance periods (which represent at the most) per site: (i) one lasting 4 hours, on a business day (i.e. IBM Belgium business day), after service hours; and (ii) one lasting 12 hours, during a weekend.

(B) The Parties agree to negotiate on an exceptional basis one maintenance period of a maximum of 24 hours per database site if required, provided that ICANN shall not be required to agree to any such maintenance periods unless (i) IBM confirms that any such exceptional maintenance will not be performed on more than one data site at a time, and (ii) ICANN determines in its reasonable discretion that IBM will maintain operation of the TMCH Database Platform during such maintenance period.

(C) ICANN and IBM may mutually agree to establish additional maintenance periods per database site.

In emergency situations, IBM may ask ICANN to approve maintenance periods outside the above maintenance periods.

IBM reserves the right to perform extended facility maintenance at its data centers, which maintenance IBM estimates will be done no more frequently than every two and one-half (2½) years. Such extended maintenance will be performed during a window which may begin at any time starting on a Saturday after 12:01 a.m. CET and which will end no later than the following Sunday at 11:59 p.m. CET and will be considered a Scheduled Outage. All computer processing equipment (for example, mainframe and midrange servers, data and voice communications equipment, desktop computers) used to provide the Services from such location will be non-operational during such period. IBM will provide written notification to ICANN of the date and times of such extended maintenance.
period no later than 180 days prior to the planned extended maintenance date, or upon execution of this Agreement, if such execution occurs within 180 days of the next planned extended maintenance period. IBM will manage this extended facility maintenance in such a matter that the impact to the Services will be minimal. During any period of maintenance pursuant to this paragraph, IBM will maintain operation of the TMCH Database Platform.

As much as possible maintenance will be performed at one database site at a time, while service is provided through the other database site, thus minimizing the possibility of unavailability of the TMCH Database Platform during maintenance as much as possible.
5 Organization and governance

5.1 Service Implementation Project

IBM will provide project management for the Database Services and will allocate a project manager for the duration of the implementation project (the "Project Manager"). ICANN must approve each Project Manager, which approval shall not be unreasonably withheld.

IBM will deliver the TMCH Database Platform in line with the Database Services plan developed jointly by the Parties following the date of this Database SOW.

IBM will provide the following realization project reporting during the implementation phase (i.e. prior to the date the TMCH Database Platform is made available to Trademark Clearinghouse Validators) (the "Implementation Phase"):

(A) Weekly status reports, in substantially the form of the Client Status Report attached hereto as Attachment 4 (the "Form of CSR").

(B) Weekly risk and issue logs, in the Form of CSR (the foregoing (A) and (B), the “Implementation Reports”).

5.2 Organization and Governance Structure

Following the Implementation Phase (the “Operational Phase”), IBM shall maintain a “Service Management Organization” comprised of experienced IBM professional employees to manage IBM personnel and its Subcontractors for the ongoing delivery of the Database Services. IBM will appoint a Project Executive (“Project Executive”) and a Service Manager (“Service Manager”) to manage IBM's provision of the Database Services.

IBM expects ICANN to appoint corresponding counterparts.

The IBM Project Executive is responsible for the success of the engagement with ICANN. The Project Executive will be the business interface with ICANN. Primary responsibilities of the Project Executive include:

(A) Managing the overall relationship between IBM and ICANN; and

(B) Ensuring that IBM fulfils all of its obligations under the Agreement and this Database SOW.

The IBM Service Manager will be ICANN’s main contact for the Database Services and has overall responsibility to ensure that the Database Service are delivered in accordance with the Agreement and this Database SOW.

Primary responsibilities of the Service Manager include:
(C) Checking that all Service Levels are met in accordance with Section 4 and initiating corrective action for any failure to achieve Service Levels;

(D) Managing and resolving delivery issues;

(E) Risk management;

(F) Overseeing day-to-day delivery of the Database Services;

(G) Maintaining quality management of the Database Services;

(H) Management of Subcontractors assisting in the providing of the Database Services;

(I) Remaining responsible for projects executed within IBM regarding the Database Service; and

(J) Being responsible for the OAM Services.

Service Management Service Hours

In addition to any requirements specified in Section 4, the Service Management Organization will be available to ICANN and Trademark Clearinghouse Validators during the service hours specified in the following table for the applicable services.

All times are stated in CET and services will be performed on local IBM Belgium business days from Monday to Friday.

<table>
<thead>
<tr>
<th>Service Management Services</th>
<th>Service Hours</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Coordination of Severity Level 1 and Severity Level 2 Incidents</td>
<td>24 hours a day, every day</td>
<td></td>
</tr>
<tr>
<td>Coordination of emergency changes required to solve Severity Level 1 Incidents</td>
<td>24 hours a day, every day</td>
<td></td>
</tr>
<tr>
<td>Coordination/planning of Changes</td>
<td>Business Days CET 9:00 – 18:00</td>
<td></td>
</tr>
<tr>
<td>Coordination of Incidents of Severity Level 3</td>
<td>Business days CET 9:00 – 18:00</td>
<td></td>
</tr>
<tr>
<td>Delivery of Reports</td>
<td>Business days CET 9:00 – 18:00</td>
<td></td>
</tr>
<tr>
<td>Process and Database Services management, updates and interaction</td>
<td>Business days CET 9:00 – 18:00</td>
<td></td>
</tr>
<tr>
<td>Service Management Services</td>
<td>Service Hours</td>
<td>Notes</td>
</tr>
<tr>
<td>------------------------------</td>
<td>---------------------------</td>
<td>----------------------------------------------------------------------</td>
</tr>
<tr>
<td>Service meetings</td>
<td>Business days CET 9:00 – 18:00</td>
<td>In mutual agreement, conference calls can be scheduled outside this range.</td>
</tr>
<tr>
<td>Operational escalation management</td>
<td>24 hours a day, every day</td>
<td></td>
</tr>
</tbody>
</table>

**Service Reporting**

IBM will provide monthly reports detailing its performance of this Database SOW on the Form of CSR at least monthly (the “Service Reports”, and together with the Implementation Reports and the Database Content Reports, the “Reports”). ICANN may disclose or publish all or portions of the Service Reports (a “Service Report Publication”), provided that (i) the content of any such Service Report Publication must consist of the information set forth in one or more Service Reports, (ii) prior to any such disclosure or publication, IBM has consented to the form of such Service Report Publication (which consent shall not be unreasonably withheld or delayed) and (iii) ICANN has provided IBM three Belgian business days to provide explanatory comments to the Service Report Publication, which comments ICANN shall include with the published version of the Service Report Publication (unless otherwise agreed to by IBM). If IBM has not objected to or provided any comments to any Service Report Publication during the three Belgian business days following ICANN’s delivery of such Service Report Publication to IBM, IBM will have been deemed to have consented to the disclosure and publication of such Service Report Publication in substantially the form provided by ICANN without commentary.

**Service Meetings**

The Parties will endeavor to have monthly service delivery review meetings to discuss the Reports.

**Escalation Procedure**

Escalation is involving the next higher level of both ICANN and IBM management when an issue cannot be solved on a lower level. Escalation will take place within both the ICANN and IBM organizations. When an issue is escalated to a higher management level, this level is the owner of the issue and is responsible for solving the issue.

Initially, operational issues of the TMCH Database Platform or Incidents regarding the Database Service, including issues with services provided by IBM subcontractors, will be handled at the Service Manager level.
If the Service Manager’s are unable to resolve an issue, the issue shall be escalated to the Project Executive level. The Project Executive level will be involved when an issue affects the delivery of Database Services globally and higher management attention of both ICANN and IBM is required to set priorities and take required decisions.

In case further escalation is required, the Executive Officers (as defined in the Agreement) shall be involved.

**Strategy Committee and Governance**

The Parties will jointly create a board consisting of one or more management level employees from each of ICANN and IBM, and shall include ICANN’s and IBM’s respective Project Executives (the “Strategy Committee”), who will review and may revise ICANN’s and IBM’s long-term strategic plans as they relate to the Services so that such plans remain consistent with the goals, objectives, strategies and plans of ICANN and IBM.

The purpose of the Strategy Committee is to:

1. promote effective relationship management and validate progress towards joint strategic initiatives;

2. conduct reviews of the operating and strategic plans prepared by the Project Executives;

3. share global strategies, as appropriate, and jointly develop new or adjust the existing ICANN and IBM joint strategy;

4. consider and recommend amendments to the Agreement and this Database SOW necessary to maintain alignment of ICANN’s and IBM’s expectations and shared goals;

5. upon ICANN’s and IBM’s request, assist in resolving any disputes or significant issues arising from the interpretation or implementation of the Agreement; and

6. review the overall operational performance described in the Agreement as well as issues effecting joint mutual action.

Annually to the Strategy Committee, in relation to new technology, management and operational improvements and trends that may support ICANN’s strategy, competitive position or customer services, IBM shall present any current and future opportunity to improve the Database Services reflecting the principle that IBM is a first class provider of outsourcing services and shall include, at a minimum, proposals, whether or not at ICANN’s request, to:

1. apply to the Database Services proven tools and methodologies that may be of financial or operational benefit to ICANN;
2. incorporate the capacity to deal with increased volumes;

3. ensure that the systems and technology used in the provision and receipt of the Database Services keep pace with technology advancements or improvements;

4. improve the efficiency and effectiveness of the Database Services (including cost savings);

5. enhance ICANN’s ability to conduct its business and serve its community; and

6. keep providing the Database Services in accordance with good industry practice.
6 IBM Responsibilities

In addition to the obligations, covenants and representations contained in the Agreement, IBM warrants that it shall provide the TMCH Database Platform in accordance with the specifications of this Database SOW.

IBM will be solely responsible for providing the run time infrastructure for the database and the correct development of the TMCH Database Platform in line with the Requirements.

IBM’s responsibilities include:

- Provision, installation and configuration of the infrastructure underlying the TMCH Database Platform, which includes the Infrastructure Services;
- Make staff available for any meetings as reasonably required and on condition that such meetings are duly communicated within a reasonable timeframe.
- Ongoing infrastructure operations, support and maintenance, as specified in this Database SOW
- Infrastructure architecture
- Infrastructure capacity planning
- Security management, including:
  - Security compliance
  - Thread protection
- Infrastructure monitoring
- Technical support (subject to a maximum of 10 people being allowed to file tickets for each of ICANN and each Trademark Clearinghouse Validator, provided an issue is only logged once and IBM shall be required only to report to the individual originally issued a ticket for such issue on behalf of ICANN and each Trademark Clearinghouse Validator)
- Disaster recovery services
- Project management related to IBM realization activities and deliverables
- Ongoing service management
- Appoint a Project Executive and Service Manager
- Providing the Reports
- Complying with the Data Escrow Specification
- Complying with the Fee Specification.
In addition to the above, IBM shall provide non-discriminatory access to the TMCH Database Platform to all Trademark Clearinghouse Validators appointed by ICANN on substantially similar terms and conditions.

The Parties may agree to include additional items.
7 ICANN Responsibilities

In addition to the obligations, covenants and representations contained in the Agreement, ICANN shall perform the following responsibilities:

- Project management related to ICANN’s obligations hereunder.
- Handling the planning with and communication to end-users related to Disaster Recovery testing that IBM will perform once a year.
- Appointing a Project Executive and Service Manager, as well as designate a maximum of 5 persons who will be authorized to request Reports.
- Providing to IBM the list of names allowed to request reports and issue tickets for ICANN.
- Making staff available for any meetings as reasonably required and on condition that such meetings are duly communicated within a reasonable timeframe.

In addition to the above, ICANN agrees to use commercially reasonable efforts to include a provision(s) in ICANN’s written agreements with Trademark Clearinghouse Validators appointed by ICANN after the date hereof requiring such Trademark Clearinghouse Validators to comply with the paragraphs ‘Fees’ and ‘Taxes’ set forth in the Fee Specification.
8 Deliverables

The following is the list of deliverables which will be provided by IBM:

(A) TMCH Database Platform
(B) The Reports
(C) The data escrowed with the escrow agent as contemplated by the Data Escrow Specifications

All documentation deliverables will be provided in English.
9 Publication

Notwithstanding any provision to the contrary in the Agreement, from the date hereof, the Parties shall be allowed to use the name of the other Party in connection with any communication (whether in writing or oral) containing a general description or discussion of the Trademark Clearinghouse or the Database Services, including IBM’s services as the provider of the TMCH Database Platform and general status updates regarding the development of the TMCH Database Platform.

Except as set forth in Schedule A to the Agreement, neither Party shall use the other Party’s name in external communications without the other Party’s prior written consent (not to be unreasonably withheld or delayed) for any other purpose other than the general description or discussion of the Trademark Clearinghouse or the Database Services, including IBM’s services as the provider of the TMCH Database Platform and general status updates regarding the development of the TMCH Database Platform.

Except as set forth in Schedule A to the Agreement, neither Party is authorized to use the logo of the other without the prior written consent of the other Party.
10 Acceptance Criteria

The following acceptance criteria are defined:

(A) The TMCH Database Platform must be compliant with the Requirements.

(B) Provided that the Database Platform meets each of the Requirements, the TMCH Database Platform will be considered accepted by ICANN two weeks after it is used in production.
11 Project Change Control Procedure

The following provides a detailed process to follow if a change to this Database SOW is required:

- A Project Change Request ("PCR") will be the vehicle for communicating change. The PCR must describe the change, the rationale for the change and the effect the change will have on the Database Services.

- The Parties shall bear their own costs in connection with the PCR process, except if such PCR is an extraordinary deviation from the existing Database Services (in which case the Parties will discuss such costs).

- PCRs must be delivered by the Project Executive of the applicable Party.

- Should the implementation of the changes specified in a PCR have a material impact on the costs of providing the Database Services, the Parties will negotiate in good faith an amendment to the Agreement (including the Fee Schedule) or this Database SOW to account for such modification’s material impact as appropriate. If, after good faith discussions, the Parties cannot agree on whether the impact is material or not, the impact will be considered material.

- The proposed changes to the Database SOW must be signed by both Parties to authorize implementation of the changes specified in the PCR.
12 Materials

For the purposes of this Database SOW, the term “Materials” shall mean all inventions, literary works or other works of authorship (such as programs, program listings, programming tools, documentation, reports, drawings and similar works) that (i) are developed or created by IBM, its Affiliates or their Subcontractors in the course of or in order to provide the Database Services and (ii) would be reasonably necessary for a competent information technology services company to provide the Database Services; provided, however, that “Materials” shall not include any commercially available software made available by IBM to its clients generally (such as DB2 database software).
13 Miscellaneous

Investment Protection

If the aggregate number of Trademark records submitted for inclusion in the TMCH Database Platform (whether or not such records are subsequently removed from the TMCH Database Platform by the applicable Trademark Clearinghouse Validator or otherwise) on or prior to the second anniversary of the date ICANN enters into the first registry agreement for a gTLD under the New GTLD Program (the “Two Year Actual Number of Registrations”) is less than fifty thousand (50,000), ICANN will pay IBM a fee equal to the percentage shortfall, multiplied by USD $500,000 (e.g., if the Two Year Actual Number of Registrations is 40,000, the shortfall percentage equals 20% and the fee payable to IBM would equal USD $100,000). For purposes of this Section, the Two Year Actual Number of Registrations shall be calculated as follows: (i) for each Trademark for which a one year registration with the Trademark Clearinghouse is purchased, each such registrations shall count as one Trademark record submitted for inclusion in the Trademark Clearinghouse, and (ii) for each registration for which a multiple year registration with the Trademark Clearinghouse is purchased, each such year of purchased registrations shall count as a Trademark record submitted for inclusion in the Trademark Clearinghouse (for example, if a Trademark Holder or Trademark Agent registers a Trademark and purchases a five year registration, such registrations shall count as five registrations for purposes of calculating the Two Year Actual Number of Registrations).

Baseline

Following the completion of ten (10) Qualified Sunrise Periods by Registries pursuant to the New gTLD Program, ICANN may select third parties to provide the Trademark Clearinghouse Database Function in addition to IBM's providing of the Trademark Clearinghouse Database Function. “Qualified Sunrise Period” means a “Sunrise Period” (as such term is used in the gTLD Applicant Guidebook) offered by a non-IDN Registry pursuant to the New gTLD Program that results in the registration of at least ten thousand (10,000) domain names in such Registry related to such Sunrise Period.
IN WITNESS whereof the parties have caused this Agreement to be signed by their authorized representatives on this December 21, 2012.

Agreed to:  

Internet Corporation for Assigned Names and Numbers  
By:  

Authorized Signature  

Name and Title (Type or Print)  

Bourgetlaan 42  
B- 1130 Brussel

Agreed to:  

IBM Belgium BVBA  
By:  

Authorized Signature  

Name and Title (Type or Print)
Attachment 1 - Requirements

Trademark Clearinghouse
Requirements
September 2012
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Introduction

One way ICANN is working to protect intellectual property rights and the interests of registrants in the new gTLD program is the establishment of a Trademark Clearinghouse. The Clearinghouse is being designed to increase protections and reduce costs for rights holders and start-up registries alike. The Clearinghouse is expected to play an important role in the launch of the new gTLD Program and in ensuring ongoing protection of trademark rights.

Trademark rights, broadly defined, identify the source of a good or service. The (Trademark) Clearinghouse's remit is limited to verifying data concerning trademark rights recognized in a particular jurisdiction.

The Clearinghouse is a central repository of verified trademark information for text marks. ICANN will enter into an agreement with a service provider or providers, awarding the right to serve as a Clearinghouse service provider, i.e., to accept, verify and facilitate the transmission of information related to certain marks, as illustrated in Figure 1.

![Figure 1. Clearinghouse, Service Provider(s), and Customers](image-url)
The selection of Clearinghouse service provider(s) will be subject to predetermined criteria, but the foremost considerations will be the ability to store, verify and disseminate the data at the highest level of technical stability and security without interference with the integrity or timeliness of the registration process or registry operations.

Public commentary has suggested that the best way to protect the integrity of the data would be to separate the functions of database administration and data verification.

One entity will verify trademark data submissions and ensure that the mark qualifies as:

- A nationally or regionally registered word marks from any jurisdictions, or
- A word mark that has been validated through a court of law or other judicial proceeding, or
- A word mark protected by a statute or treaty in effect at the time the mark is submitted to the Clearinghouse for inclusion, or
- Are other marks that constitute intellectual property (this feature will be added on a case by case basis as this is based on the registry’s policy in accordance to the Application Guidebook).

This entity will also verify proof of use as required for sunrise eligibility.

The second entity will maintain the database and provide sunrise and trademark claims services.

**Figure 2. Separation of Service Provider Functions**

The Clearinghouse service provider(s) will be selected through an open and transparent process to ensure low costs and reliable, consistent service for all those utilizing the Clearinghouse services.
The Clearinghouse service provider(s) shall have the relevant experience in database administration, data verification, as well as accessibility to and knowledge of the various relevant trademark laws.

1. **Purpose of This Document**

This document expands upon the Clearinghouse Request for Information (RFI) to define the specific requirements of the Clearinghouse at a detailed level. It is informed by:

- gTLD Applicant Guidebook and Implementation Recommendation Team (IRT) and Special Trademark Issues (STI) review team recommendations
- Public comment
- Recommendations from the community through the Implementation Assistance Group (see Community Involvement)

2. **Document Structure**

This document is structured hierarchically in a manner parallel to how the Clearinghouse will operate.

1.2.1 Services

At the highest level, the Clearinghouse provider(s) will be responsible for delivering a core set of services to customers (see 2. Trademark Clearinghouse Services for a detailed description). In some cases, specific mandatory requirements are associated with a service; in other cases, the requirements specify a minimum level of service and the service provider(s) may choose to offer additional services with the approval of ICANN. Such additional services may be requested by others or may initially be considered by the providers.

1.2.2 Business Processes

Each service is supported by one or more business processes. Some are traditional processes that can be defined as precise steps, decision points, and process flows; other processes are described in more general terms and require further definition in cooperation with the selected service provider(s).

1.2.3 Technical Requirements

Underlying the business processes are technical requirements for systems implementation and communication to enable the processes to function effectively and efficiently.

Figure 3 illustrates the relationship between services, processes, and technical requirements.
3. Responsibilities and Governance

The Clearinghouse database will be a repository of verified trademark information and a disseminator of the information to a limited number of recipients (as defined hereinafter “Target Customers”) as described in service and process descriptions and in technical requirements throughout this document. The Clearinghouse functions will be performed in accordance with a limited charter, contracts for Validation (verification) and Database Operation contractor services, and this requirements document. The Clearinghouse contractors cannot create policy; ICANN oversees the Clearinghouse contractors as the primary contracting authority and policy-making organization. Before material changes are made to the Clearinghouse functions, they will be reviewed as appropriate through the ICANN public participation model.

Inclusion in the Clearinghouse is not proof of any right, nor does it create any legal rights. Failure to submit trademarks into the Clearinghouse should not be perceived to be lack of vigilance by rights holders or a waiver of any rights, nor can any negative influence be drawn from such failure.

The Clearinghouse shall be a separate, operationally independent entity. It will operate based on market needs and collect fees from those who use its services. While the Clearinghouse is operationally independent, it will function under the oversight and policy...
guidance of ICANN in compliance with ICANN policy. ICANN may coordinate or specify interfaces to be used by registries and registrars, and provide oversight or quality assurance to ensure rights protection goals are appropriately met.

Costs should be completely borne by the parties utilizing the services. Rights holders will pay to record text marks in the Clearinghouse, and registries will pay for trademark claims and sunrise services. Registrars and others who avail themselves of Clearinghouse services will pay the Clearinghouse service provider(s) directly.

4. Community Involvement

1. Implementation Recommendation Team (IRT)

In the course of implementation work toward expansion of the gTLD namespace, the ICANN’s Board passed a resolution on 6 March 2009 to form an Implementation Recommendation Team (IRT) to seek enhanced solutions supporting trademark protection in connection with the introduction of new gTLDs. The IRT, consisting of 18 geographically diverse subject matter experts from the intellectual property arena, made recommendations to enhance trademark protection. One such recommendation was the establishment of a Trademark Clearinghouse to provide certain services. See http://archive.icann.org/en/topics/new-gtlds/irt-final-report-trademark-protection-29may09-en.pdf.

2. Special Trademark Issues Review Team (STI)

Following the report of the IRT and during the development of the gTLD Applicant Guidebook, the ICANN Board of Directors requested a review from the Generic Names Supporting Organization (GNSO) of the policy implications of certain trademark protection mechanisms proposed for the new gTLD program. The GNSO adopted a resolution creating the Special Trademarks Issues review team to analyze rights protection mechanisms and provide additional recommendations. The STI report made additional recommendations concerning the establishment of a Trademark Clearinghouse. See http://www.icann.org/en/news/public-comment/sti-17dec09-en.htm.

3. Implementation Assistance Group (IAG)

At ICANN’s Dakar meeting in October 2011, ICANN invited interested stakeholder participants to take part in an Implementation Assistance Group (IAG). The IAG worked with ICANN to refine the processes to be supported by the Clearinghouse. That input contributed to the development of this set of requirements. See https://community.icann.org/download/attachments/31176258/Clearinghouse+IAG+Report30-3-12.pdf.

5. Clearinghouse Customer Profiles
1. **Rights holders**

Rights holders are the individuals, organizations and their designees (such as licensees or assignees) that have or desire to have their eligible trademark rights listed in the Clearinghouse.

**Rights holders’ agents**

Rights holders’ agents are entities or individuals that interface with the rights holders in order to maintain Clearinghouse records on behalf of the right holders and who may receive notifications in relation to the sunrise process or trademark claims service on behalf of the trademark holder.

2. **Registrars**

Registrars are entities that interface with a domain name registrant to register or maintain the registration of domain names in a top-level domain (TLD). In existing TLDs, domain registrants use any of the approximately 1,000 accredited registrars to register and maintain their registrations of domain names.

3. **Registries**

Registries are the contracted parties that manage TLDs through authority delegated to them by ICANN. Registries selected in the new gTLD program are mandated to use Clearinghouse services to ensure a minimum level of protection for trademark rights.

4. **Domain Name Registrants**

Domain name registrants are individuals or organizations that want to apply for one or more domain names with a registry. Some domain name registrants are may be rights holders.

6. **Schedule**

The Clearinghouse must be fully functional so that full-scale operations do not disrupt or interfere with the launch of new gTLDs. The Clearinghouse must be fully integrated and tested so that it can accept new trademark record submissions no less than 90 days prior to the first new gTLD launch.

A project plan must be prepared and executed by the Clearinghouse operator to meet these scheduling requirements, in the context of the larger new gTLD program schedule as updated from time to time by ICANN. ICANN may extend deadlines without the consent of the Clearinghouse operator, but may not shorten them without the Clearinghouse’s consent.
Barring other information from ICANN, the Clearinghouse should expect new gTLD launches to begin in the first half of 2013 and will be positioned to accept new trademark record submissions in Q4 2012.
Trademark Clearinghouse Services

1. Overview

All new gTLD registries will be required to use the Clearinghouse to support their pre-launch or initial launch period rights protection mechanisms (RPMs). These RPMs must include a sunrise process and trademark claims service.

The minimum set of services that will be offered by the Clearinghouse service provider(s) is listed below:

- Trademark Listing Request
- Sunrise Support
- Trademark Claims
- Rights Holder Customer Service
- Registry Support Services
- Dispute Resolution

Figure 4. Trademark Clearinghouse Services

2. Trademark Record Submission

1. Description
The Trademark Listing Request service will collect trademark record submissions from rights holders or their agents and store that data in the Clearinghouse.

The new gTLD program’s mandatory rights protection mechanisms are predicated upon building a repository of verified trademark data. Information sufficient to confirm the assertions of rights holders and to guarantee communication with those rights holders must also be collected for confirmation prior to being included as a Clearinghouse record.

![Figure 5. Trademark Registration Service](image)

2. **Target Customers**

Rights holders and/or their agents will be the primary customers of this service.

3. **Sunrise Support**

1. **Description**

Sunrise Support is a set of services that enable eligible rights holders to secure domain names matching their Clearinghouse-listed marks prior to general registration within a top level domain. Clearinghouse criteria for an “exact match” are described in section 4.6.

A sunrise period begins when a registry opens and ends with general registration of a TLD. Sunrise registration must be offered for a minimum of 30 days to any eligible rights holder that records trademark data in the Clearinghouse. A registry may offer multiple sunrise periods or sunrise periods for longer periods of time.

Sunrise Support services make available four essential elements:
- **Generation of sunrise codes**

  Any domain name being registered during the mandatory sunrise period must, beyond any registry-specific requirements, meet at minimum ICANN’s sunrise eligibility requirements, which is determined from Clearinghouse-verified data. Each possible domain name derived from sunrise-eligible trademarks will be assigned a sunrise code to facilitate the speed and efficiency of the registration process. Sunrise codes must be able to confirm without ambiguity whether or not a requested domain name is sunrise-eligible per ICANN policy. Note that possession of a sunrise code is necessary, but may not be sufficient, for sunrise eligibility within a given TLD.

- **Provision of Sunrise codes to Rights Holders or Agents**

  In order to register a domain name during a mandatory sunrise period, the domain name registrant must provide a valid sunrise code. To do so, these codes must be made available by the Clearinghouse to rights holders or their agents.

- **Provision of Sunrise Data to Registries**

  Sunrise Data refers to the corresponding cryptographic data that must be matched to a rights holder’s Sunrise Code and requested domain name to confirm a Sunrise code is authentic and reflects rights verified by the Clearinghouse, as described in the June 28 Clearinghouse model document. Any domain name being registered during the mandatory sunrise period of 30 days must meet ICANN’s sunrise eligibility requirements, verified with Clearinghouse-verified data. To prevent fraud and abuse, that verification will be demonstrated by the rights holder providing the appropriate valid sunrise code to the registry during the domain registration process. Thus, the Sunrise Support must provide the processes necessary to provide that Sunrise data to the registry from the Clearinghouse in asynchronous batches.

- **Receipt of Sunrise Domain Name Registration Information from Registries**

  Every successful domain name registration during the mandatory sunrise period must be linked to a valid sunrise code. In turn, each successful domain name registration with a registry must be communicated to the Clearinghouse in asynchronous batches so that notifications to Rights Holders (see below) can be sent. Thus, the Clearinghouse must provide the processes necessary to receive that data from the registry in asynchronous batches.
• **Notifications to Rights Holders and Agents**

In addition, any and all rights holders having records listed in the Clearinghouse that match any domain name registered during the mandatory sunrise period must be promptly notified. Notifications are expected to be provided in an automated, electronic form. Note that there may be a compelling case to expand beyond e-mail, to include other automated communication methods (such as SMS) in the future, though that is not currently required. During the sunrise period, each successful domain name registration must promptly generate notifications to the applicable rights holders that a domain name has been registered matching a verified Clearinghouse record.

2. **Target Customers**

Registries will retrieve information for integration into their registration systems and will transmit results back to the Clearinghouse. Rights holders or their agents receive notifications from the Clearinghouse but are not required to take any actions.

4. **Trademark Claims**

1. **Description**

Trademark Claims is a set of services that creates awareness of possible trademark encumbrances for proposed or actual domain name registrations, as well as providing notification to rights holders that their Clearinghouse record matches a recently registered domain name. Occurring during a period of at least the first sixty (60) days of general registration in a participating TLD, the Trademark Claims service requires that every requested domain name is checked by the registry/registrar for trademark claims. Every matching claim selected by the rights holder from the possible matches defined by the matching rules must be displayed to the prospective domain name registrant prior to domain name registration, and every domain name registration must include acknowledgement of all displayed claims. Every domain name registered which matches one or more Clearinghouse records must generate appropriate notices to rights holders or their agents.

A registry may offer trademark claims services for longer periods of time.

Trademark claims services include the following:

• **Provision of Trademark Claims Data to Registries**

During the mandatory trademark claims period, every domain name registration attempt must be checked by the registry prior to the domain name registration against Clearinghouse-provided trademark data for trademark claims. The Clearinghouse will provide encrypted, automation-friendly data to regis-
tries, so that registries can perform this task. In addition, registries will be required to provide an auditable trail of access to encrypted data, which must be accepted by the Clearinghouse in the format and form described later in this document.

- **Receipt of Claims Acknowledgement Information from Registries**

Any registration that has associated trademark claims must include an acknowledgement of those claims by the domain name registrant. The intent is to ensure that the domain name registrant has seen and acknowledged any and all trademark claims listed with the Clearinghouse that are associated with the requested domain name. The acknowledgement should only be transmitted by the registry to the Clearinghouse when the domain name is actually registered. That acknowledgement must be recorded with the Clearinghouse, meaning that it must be properly formatted by the registrar, transmitted to the registry, and then finally transmitted to the Clearinghouse. Thus, the service must provide the processes necessary to receive acknowledgement data from the registry in asynchronous batches.

Potential domain name registrants who decide not to proceed when presented with the appropriate trademark claims from the Clearinghouse are not expected to acknowledge the claims, and thus no acknowledgement is generated or transmitted.

- **Notifications to Rights Holders/Agents**

The Clearinghouse must generate and transmit notifications to rights holders or their agents when domain names are registered during the claims period matching their Clearinghouse records. Rights holders or agents will be notified by the Clearinghouse of the date, time and domain name and extension associated with the domain name registration.

2. **Target Customers**

Registries will retrieve trademark claims data from the Clearinghouse to facilitate lookups on requested domain names. Domain name registrants (also referred to as potential domain name registrants) are the target customers for receiving trademark claims notices. Rights holders and their agents are passive recipients of notification about domain name registrations affecting their rights recorded in the clearinghouse. Registrars are target customers for administrating the receipt of trademark claims acknowledgments.

5. **Rights Holder Assistance**

1. **Description**

The Rights Holder Assistance service provides assistance, clarification, and other services to users of the Clearinghouse and its portfolio of records, as well as associ-
ated dispute resolution services. These assistance services must be available in multiple languages.

2. **Target Customers**

Any user (such as rights holders and agents) of the Clearinghouse may seek assistance.

**Registry Support**

**Description**

The Registry Support service provides assistance, clarification, and other services to registries seeking to integrate or currently using the Clearinghouse and its portfolio of services. This expressly includes the capability to perform integration testing and the provision of reasonable training and/or consulting services to new gTLD registry operators as part of the base fee structure. This support must also include a registry-initiated process to check individual, specific records to ensure the accuracy and availability of its repository. All registry support services must be available in English or another language agreed upon by a Registry and the Clearinghouse.

**Target Customers**

Registries seeking to use the Clearinghouse or its portfolio of services to support their launches or operations must be able to seek technical assistance.

6. **Dispute Resolution**

1. **Description**

The Dispute Resolution service provides mechanisms to address disputes encountered in the operation of the Clearinghouse. The scope of Clearinghouse challenges is limited by the narrow role of the Clearinghouse.

Most issues about matters of fact should be resolvable through the provision of documentation and Clearinghouse-provided review mechanisms. The service provider(s) must address disputes and their possible outcomes (e.g., by in-house processes, use of third-party reviews, or other mechanisms).

Pricing for dispute resolution services must be determined and set by the Clearinghouse operator; however, there must not be fees assessed against any claimant in the event that the challenge is the result of an error by the Clearinghouse: that is, Clearinghouse may not charge fees to correct its own mistakes.
1. **External Challenges**

The Clearinghouse is expected to find itself in the position of being asked to provide documentation and/or information associated with other dispute resolution processes to which the Clearinghouse itself is not a party but involves information provided to the Clearinghouse. The Clearinghouse is expected to be able to provide mechanisms for retrieval and certification of Clearinghouse records as requested by rights holders and their agents. In no event may the Clearinghouse provide any legal opinion or advice. Such informational reports are expected to relate to the outcomes of Clearinghouse data verification processes for specific marks, and to reflect the mark, date, time, and external references most recently used to verify the claim in question.

2. **Acceptance of Data into the Clearinghouse Challenges**

Re-examination of a Clearinghouse decision could occur when requested by:

1. **Any third party**

A third party may seek to dispute the acceptance of a Clearinghouse record through a Clearinghouse dispute process. Such cases could arise due to faulty data verification or other procedural error. This dispute process should not involve data re-verification, in keeping with the Clearinghouse’s role as a verification service: instead, it must include a records check of how the data was verified, the appropriateness of the sources used, and whether the recorded data properly justifies the verification that the data is truthful and accurate. The response to such a dispute is expected to show an internal procedural audit trail showing the jurisdiction, what external sources were referred to (e.g.: jurisdiction’s primary register, court decision), whether appropriate documentation was received, an assessment of whether or not internal procedures were properly followed, and what the verification result was in reference to a specific mark. The actual specimen and specific mark data is not required to be provided under this dispute.

2. **Right Holders**

In cases where a record may have been rejected in error, the rights holder or its agent can seek reconsideration through a Clearinghouse appeal process.

3. **Dispute Resolution and Adjudication**
There may be cases where a party will allege that information used in the establishment of a record has changed or was fraudulently provided, potentially requiring data re-verification based on new evidence. The Clearinghouse must take appropriate action when presented with a (verified) adjudication result from a dispute resolution provider or judicial decision should that decision affect the status of any recorded listing in the Clearinghouse.

3. Data Distribution Based Challenges

A registry may, through the course of handling its own sunrise and trademark claims period challenges, allege that the information provided to it by the Clearinghouse is erroneous. A registry is dependent upon its confidence that the data being provided accurately reflects the policies that the Clearinghouse implements. Incorrect sunrise codes or incorrect trademark claims data could occur due to technical errors within the Clearinghouse or failures in the registry's implementation of retrieval and lookup functions. It is expected that registry support services will resolve this class of issues prior to the start of a sunrise or claims period. However, in the event something goes wrong and harm is inflicted or liability is assumed, contractual arrangements between the registry and Clearinghouse must address the possibility of data distribution-based issues.

4. Sunrise-Related Clearinghouse Challenges

If a rights holder or its agent fails to receive a mandatory sunrise registration notice, the Clearinghouse will be required to demonstrate that the notice was sent, and to provide the text and record of transmission to the rights holder or its agent through a Clearinghouse review process.

5. Trademark Claims-Related Clearinghouse Challenges

If a rights holder or its agents fail to receive a trademark claims period registration notice, the Clearinghouse will be required to demonstrate that the notice was sent, and to provide the text and record of transmission to the rights holder through a Clearinghouse review process.

2. Target Customers

Rights holders, rights holders’ agents and domain name registrants are the primary customers, with the dispute resolution outcome being communicated to all parties to a dispute. Under a limited set of circumstances, the registry may be a party to a dispute with the Clearinghouse.

7. Ancillary Services

1. Description

Ancillary Services are additional, optional services that may be provided by a Clearinghouse service provider; those services and any data used for those services must...
be kept separate from the Clearinghouse database. Any ancillary services are to be provided on a non-exclusive basis and may be offered by competitors under a license of Clearinghouse data on an equal and non-discriminatory basis.

Ancillary services based on Clearinghouse data must as a contractual matter be reviewed by ICANN, and Clearinghouse data used in the development of those ancillary services must be able to be made available to third party licensees. The standard terms and conditions of any such license must be reviewed by ICANN.

In all cases, rights holders must be offered the right to “opt out” of any of these services. Any services not described or anticipated in the requirements must be reviewed by ICANN using the process described in the contract. Note that any licensing terms for Clearinghouse data must include mandatory data security controls providing comparable assurance of confidentiality to the mandatory access control model described in section 4.
1. **Overview of Business Processes**

The list of business processes needed to support services is shown below:

- Contact Registration
- Trademark Submission
- Verification of Trademark Data
- Verification of Proof of Use
- Data Maintenance
- Sunrise Process
- Trademark Claims Process
- Rights Holder Customer Service Process
- Registry Support
- Dispute Resolution Process
2. **Relationship of Business Processes to Trademark Services**

The relationship of business processes to trademark services is shown below:

![Dispute Resolution, Rights Holder Assistance](image)

**Figure 7. Relationship of Business Processes to Trademark Services**

3. **Contact Registration and Verification Process**

1. **Overview**
An application user is an individual (or, potentially, a role performed by one or more individuals within an organization or entity) that can interact with trademark records within the Clearinghouse. An application contact has a proven reliable method to receive critical communications from the Clearinghouse. The Clearinghouse will confirm that the application user has been authorized by the rights holder to act on behalf of the rights holder. In some cases, this may require the Clearinghouse to collect and confirm multiple contacts to ensure that application user acting as the agent of a rights holder indeed has appropriate authorization. Appropriately authorized agents may receive trademark claims and sunrise registration notices on behalf of a rights holder.

2. **Process Flow**

![Process Flow Diagram](image)

**Figure 8. Contact Registration and Verification Process**

1. Individual seeks to register as an application user with the Clearinghouse, providing appropriate information (such as name) and contact methods (primarily e-mail, but exceptional circumstances may prompt the Clearinghouse to use other contact mechanisms). Submissions must be structured to support fully automated confirmation.

2. The Clearinghouse generates a new, contact-specific confirmation code and a deadline by which to receive that code. That information must in turn be transmitted via the provided, non-postal contact mechanism. In the event that the application user is acting as the agent of the rights holder, a contact-specific confirmation code and deadline by which to receive that code will also be sent to the rights holder.

3. If the confirmation is received before the code expires, the contact is authenticated. If the confirmation is not received before the code expires, then the contact is not authenticated.

3. **Business Requirements to Support Process**
The business requirements to support the Contact Registration and Verification process are enumerated in the chart below.

<table>
<thead>
<tr>
<th>ID</th>
<th>Requirement</th>
<th>Additional Clarification</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.3A</td>
<td>An application user’s contact information must be specifiable and modifiable by the application user. The application user must be able to modify its own contact information and must not be able to modify contact information for any other party. All edited contact information will be authenticated.</td>
<td></td>
</tr>
<tr>
<td>3.3B</td>
<td>All contact information must be re-verified periodically so as to ensure its usefulness. A specific schedule of verification must be published by the Clearinghouse.</td>
<td>That schedule is currently expected to require confirmation at least once a year after the date of submission.</td>
</tr>
<tr>
<td>3.3C</td>
<td>Updated application user contact information must be verified prior to committing updates to an existing, authenticated contact record.</td>
<td></td>
</tr>
<tr>
<td>3.3D</td>
<td>New application user contact information must be verified prior to considering the contact record as authenticated.</td>
<td></td>
</tr>
<tr>
<td>3.3E</td>
<td>The amount of time available to receive and return a confirmation code must be appropriate to the communication mechanism.</td>
<td>Not all mechanisms should necessarily use the same timeframe. Communication by postal service takes days or weeks; online methods may take only minutes or hours and can be subject to speed disruptions due to widely deployed filtering.</td>
</tr>
<tr>
<td>ID</td>
<td>Requirement</td>
<td>Additional Clarification</td>
</tr>
<tr>
<td>------</td>
<td>----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------</td>
<td>--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>3.3.F</td>
<td>The Clearinghouse may suspend or revoke access for any application user (and potentially discontinue providing trademark claims, sunrise and ancillary services for any marks associated with that contact) in response to violations of terms of use (including non-payment).</td>
<td>Records may be deactivated as a penalty to deliberately fraudulent users of Clearinghouse services. In addition, the capability to submit new records to the Clearinghouse may be suspended for some period of time at the discretion of the Clearinghouse.</td>
</tr>
</tbody>
</table>

4. **Trademark Submission Process**

1. **Overview**

An application user can request that one or more trademarks be recorded with the Clearinghouse. Each mark must be submitted to the Clearinghouse, providing sufficient information to identify the trademark and confirm that the submission meets the criteria for Clearinghouse inclusion. That information might, for example, include the words making up the trademark, its international class or equivalent, the jurisdiction in which it is protected, information about the owner, and/or the authority under which the mark is protected (for example, by judicial ruling, treaty, statute or registration in a trademark office). All trademarks submitted to the Clearinghouse will undergo verification of the provided trademark data. In addition, when requested by the rights holder or agent, a submitted sample intended to demonstrate proof of use will also be verified to establish sunrise eligibility.

2. **Process Flow**
Figure 9. Trademark Submission Process

1. An application user submits appropriate trademark information to the Clearinghouse. Such submissions must include the necessary information to correctly identify the mark and rights in question. Functionally, the Clearinghouse must provide the technical capability for a rights holder or its agent to specify, for each record, what set of services (trademark claims, sunrise, and ancillary services) they wish to participate in. This functionality is required so that a rights holder can choose whether to participate in sunrise, claims, or ancillary services independently of the other services of the Clearinghouse.

2. The Clearinghouse verifies the provided rights data, as described in section 3.5. If the Clearinghouse is unable to verify the rights using the process in section 3.5, it must notify the rights holder or its agent of what part(s) of the verification failed or if additional documents are needed, so that the rights holder or agent can attempt to resubmit the mark data without prejudice. Successfully verified rights must be included in trademark claims data sets if so directed by the rights holder or agent.
3. For rights holders or agents seeking to enjoy sunrise period priority registrations, the Clearinghouse must verify both the provided rights data and the provided proof of use to ensure they meet sunrise eligibility requirements as described in section 3.6. If the Clearinghouse is unable to verify this information using the process in section 3.6, it must notify the rights holder or its agent of what part(s) of the verification failed, so that the rights holder can attempt to resubmit the mark data without prejudice. Successfully verified rights must be included in sunrise data sets as directed by the rights holder and as permitted by ICANN policy.

4. The process concludes by notifying the rights holder/agent of the current status of the requested data verification, including any deficiencies in the submission that prevented successful completion.

3. Business Requirements to Support Process

The business requirements to support the Trademark Submission process are enumerated in the chart below.

<table>
<thead>
<tr>
<th>ID</th>
<th>Requirement</th>
<th>Additional Clarification</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.4A</td>
<td>The trademark record submission process is expected to be operated online; however, submission of documentation and specimen of use must be able to be submitted using alternative mechanisms. Exceptional circumstances may (potentially at additional cost to the rights holder or agent) prompt acceptance of offline rights submissions.</td>
<td>Not all rights holders can be expected to provide rights data via a web or other electronic form due to restrictions in connectivity. As such, a courier (postal service/delivery service) method is still desirable (though this may follow a different pricing structure and processing SLA than electronic submissions).</td>
</tr>
<tr>
<td>3.4B</td>
<td>Processes should establish interfaces to support submissions via API of trademark data from a registered contact.</td>
<td>-</td>
</tr>
</tbody>
</table>
5. Verification of Trademark Rights Data Process

1. Overview

The Clearinghouse exists to facilitate mandatory rights protection mechanisms by providing accurate and verified trademark information. Trademark record submissions may
be included in the Clearinghouse based upon meeting specific requirements described in the Applicant Guidebook Module 5, Section 3, Trademark Clearinghouse.

The guiding principle of the trademark verification process is equitable treatment: steps required of similarly situated rights holders should be essentially the same.

Figure 10. Eligibility Conferred through Rights Verification

2. Process Flow

The process for verification of trademark data is a business process that must be provided by the Clearinghouse operator.

3. Business Requirements to Support Process

The business requirements to support the Verification of Trademark Data process are enumerated in the chart below.

<table>
<thead>
<tr>
<th>ID</th>
<th>Requirement</th>
<th>Additional Clarification</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.5A</td>
<td>The Clearinghouse must list all and only those rights which are submitted to the Clearinghouse for listing.</td>
<td></td>
</tr>
<tr>
<td>ID</td>
<td>Requirement</td>
<td>Additional Clarification</td>
</tr>
<tr>
<td>------</td>
<td>-----------------------------------------------------------------------------</td>
<td>----------------------------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>3.5B</td>
<td>The word mark must be at least one of the following: a nationally or regionally (e.g. multi-nationally) registered word mark on the principal or primary register in the mark’s jurisdiction; a word mark that has been validated by a court of law or other judicial proceeding; a word mark protected by statute or treaty in effect at the time the mark was submitted to the Clearinghouse for inclusion; or some other mark that constitutes intellectual property which can be represented within and verified the Clearinghouse.</td>
<td></td>
</tr>
<tr>
<td>3.5C</td>
<td>All of the following must be marked as invalid: pending applications for registration; marks within any opposition period; registered marks that were subject to successful invalidation, cancellation or rectification proceedings.</td>
<td>Upon verification, such trademark record submissions will be marked as invalid.</td>
</tr>
<tr>
<td>3.5D</td>
<td>The trademark record submission should be submitted by an application user that either is the rights holder or its agent.</td>
<td></td>
</tr>
<tr>
<td>3.5E</td>
<td>The application user and/or the contracting contact submitting information to the Clearinghouse must be authenticated, and the access to the Clearinghouse must not currently be revoked or suspended. The application user and/or the contracting contact must be able to verifiably be shown to be authorized to act with the mark.</td>
<td></td>
</tr>
<tr>
<td>3.5F</td>
<td>An application user acting on behalf of the contracting party must provide a sworn statement that the information submitted is true, accurate and complete to the best knowledge and belief of the application user, that due care has been exercised, and that the information has not been provided for any improper purpose. This will be included in the terms of use.</td>
<td></td>
</tr>
<tr>
<td>ID</td>
<td>Requirement</td>
<td>Additional Clarification</td>
</tr>
<tr>
<td>----</td>
<td>---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------</td>
<td>--------------------------</td>
</tr>
</tbody>
</table>
| 3.5G | Suitable documentation must be verified for any trademark records in the Clearinghouse.  
   a. In the case of a registered trademark, relevant registration numbers and owners of record must match the documentation available from the issuing jurisdiction.  
   b. In the case of a mark protected by treaty or statute, the specified rights must be conferred on the face of the authority (without requiring legal interpretation).  
   c. In the case of a mark protected by judicial proceedings, the judicial authority must have existed as a competent jurisdiction as of the date of the order or judgment. Any referenced authority must have the indicia of authenticity and must on its face confer the specified rights.  
   d. In the case of some other mark constituting intellectual property, in cases where a registry wishes to offer protection to other indicia which are capable of being verified by the Clearinghouse and the Clearinghouse accepts to undertake this extended service, it should be readily apparent from the provided documentation that the rights claimed are conferred on the basis of the information submitted. |                                                                 |
6. Verification of Proof of Use Process

1. Overview

The Verification of Proof of Use process establishes that Clearinghouse-recorded rights meet the minimum eligibility requirements to obtain sunrise domain name registrations. Rights with verified proof of use are necessary, but may not be sufficient, to participate in sunrise registration for a particular TLD (some registries may have additional requirements). Verification of proof of use is only required to enable a rights holder or agent to seek sunrise domain name registrations. It occurs “above and beyond” the standard verification of rights data described in section 3.5.

Minimum eligibility is met for verified rights validated by court decision or specifically protected by statute or treaty currently in effect and that was in effect on or before 26 June 2008, without an additional verification of proof of use.

For verified marks based on registered trademark rights, verification of “proof of use” is required.

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<table>
<thead>
<tr>
<th>ID</th>
<th>Requirement</th>
<th>Additional Clarification</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.5J</td>
<td>Registrations that include top level extensions such as “icann.org” or “.icann” as the word mark will not be permitted in the Clearinghouse regardless of whether that mark has been registered or it has been otherwise validated or protected (e.g., if a mark existed for icann.org or .icann, neither will be permitted in the Clearinghouse).</td>
<td>This will be implemented with a “no dots” rule. Trademarks containing one or more dots (reserved DNS character) as the first character in the trademark string or including one or more dots within the trademark string will not be permitted in the Clearinghouse.</td>
</tr>
</tbody>
</table>
2. **Process Flow**

The process for verification of proof of use is a business process that must be provided by the Clearinghouse operator.

3. **Business Requirements to Support Process**

The business requirements to support the verification of proof of use process are enumerated in the chart below.

<table>
<thead>
<tr>
<th>ID</th>
<th>Requirement</th>
<th>Additional Clarification</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.6A</td>
<td>Verification of proof of use must follow a single, uniform and global standard.</td>
<td>This provides for the consistent treatment of rights holders regardless of jurisdiction of rights.</td>
</tr>
<tr>
<td>3.6B</td>
<td>Each mark to be verified for proof of use must first meet all requirements for trademark rights verification (see section 3.5).</td>
<td></td>
</tr>
<tr>
<td>ID</td>
<td>Requirement</td>
<td>Additional Clarification</td>
</tr>
<tr>
<td>------</td>
<td>-----------------------------------------------------------------------------</td>
<td>------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>3.6C</td>
<td>The mark must be owned by the rights holder, or held by an assignee or licensee.</td>
<td></td>
</tr>
<tr>
<td>3.6D</td>
<td>All verified proof of use for rights must be accompanied with an ICANN-approved declaration from the contact concerning the proof of use declaration.</td>
<td></td>
</tr>
<tr>
<td>3.6E</td>
<td>The Clearinghouse must recognize and honor text marks that have been or are (i) nationally or regionally registered and for which proof of use – in the form of a declaration and single sample of current use— was submitted and verified by the Clearinghouse; (ii) court-validated; or (iii) specifically protected by statute or treaty currently in effect and that was in effect on or before 26 June 2008.</td>
<td>Proof of use is only required for registered trademarks; court-validated and statute/treaty protected marks are not required to demonstrate use to meet minimum sunrise eligibility.</td>
</tr>
<tr>
<td>3.6F</td>
<td>A sample should evidence an effort on the part of the rights holder to communicate to a consumer so that the consumer can distinguish the products or services of the rights holder from any others.</td>
<td>The baseline standard is intended to accommodate practices in multiple jurisdictions.</td>
</tr>
<tr>
<td>3.6G</td>
<td>Examples of use must plainly and clearly show the trademark being used.</td>
<td>The Clearinghouse should not assume the role of making determinations as to the scope of rights associated with a recorded trademark or the labels it can generate.</td>
</tr>
<tr>
<td>3.6H</td>
<td>Appropriate examples of use should include: labels, tags, containers for a product, and advertising and marketing materials, advertising.</td>
<td>Inclusion of a trademark in a domain name, e-mail message, or blog posting should not be sufficient to constitute use.</td>
</tr>
<tr>
<td>ID</td>
<td>Requirement</td>
<td>Additional Clarification</td>
</tr>
<tr>
<td>----</td>
<td>-------------</td>
<td>-------------------------</td>
</tr>
<tr>
<td>3.6I</td>
<td>Determinations of sunrise eligibility must be supported by documentation, and copies of documentation relied upon in that determination must be recorded in the Clearinghouse for future review and audit.</td>
<td></td>
</tr>
<tr>
<td>3.6J</td>
<td>The determination of minimum sunrise eligibility must be replicable, such that the same mark and documentation inputs must result in the same determination. If the proof of use for a mark is verified on a given date and time, then for as long as the Clearinghouse maintains records, another reviewer must be able to review copies of the same information (which thus must be included in the verification record) and conclude that the verification was correct and should have occurred at that date and time.</td>
<td></td>
</tr>
</tbody>
</table>

7. **Data Maintenance Process**

1. **Overview**

Trademark information is dynamic. Rights are time-delimited and should be expected to change, sometimes without (required) notification to the Clearinghouse. Furthermore, records in the Clearinghouse are intended to be established for a period of one calendar year, after which information should be successfully re-verified or should no longer be distributed and relied upon. As a result, the Data Maintenance process must ensure that data receives necessary maintenance (updates or deactivation) based on the requisite activity on the data. Data maintenance must be based on a schedule that defines how long records may remain active without updates or some form of re-verification to ensure that data remains accurate and correct.

2. **Business Requirements to Support Process**
The business requirements to support the Data Maintenance process are enumerated in the chart below.

<table>
<thead>
<tr>
<th>ID</th>
<th>Requirement</th>
<th>Additional Clarification</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.7A</td>
<td>All Contacts must be confirmed through successful use at least once per year.</td>
<td>If an agent has been listed as the contact, both the agent and the rights holder contact information must be confirmed at least once per year. In the event that the rights holder does not confirm, the record will be deactivated.</td>
</tr>
<tr>
<td>3.7B</td>
<td>Trademark data verification must be performed at least once per year, to ensure that rights have not undergone a change in status or ownership.</td>
<td>Re-verification should not require additional information from the rights holder or agent except in cases where an assignment has occurred.</td>
</tr>
<tr>
<td>3.7C</td>
<td>Verification of proof of use must be performed in the event that trademark data has changed at least once per year, to ensure that rights have not undergone a change in status or ownership.</td>
<td>An updated sample of use will be required once every five (5) years.</td>
</tr>
<tr>
<td>3.7D</td>
<td>A record may be deactivated for any of the following reasons:</td>
<td>A mechanism must be defined by the Clearinghouse to re-activate a deactivated record.</td>
</tr>
<tr>
<td></td>
<td>▪ The rights holder or agent requests deactivation;</td>
<td></td>
</tr>
<tr>
<td></td>
<td>▪ As the result of a successful dispute resolution process concerning the record;</td>
<td></td>
</tr>
<tr>
<td></td>
<td>▪ The Clearinghouse record has expired without renewal of contact or trademark verification;</td>
<td></td>
</tr>
<tr>
<td></td>
<td>▪ Upon confirmation that a trademark has been abandoned or expired.</td>
<td></td>
</tr>
</tbody>
</table>
### 8. Sunrise Process

1. **Overview**

   The sunrise process is implemented by many interacting parties, as described in the technical model. Rights holders may obtain domain name registrations matching their eligible trademarks before such domain names are available for general registration. New gTLDs are required to offer a minimum sunrise period of 30 days. New gTLDs may elect to offer multiple sunrise rounds or may extend the sunrise period in cooperation with the Clearinghouse.

2. **Process Flow**
Figure 12. Sunrise Process Flow

This process is divided into two sub-processes: sunrise initiation and sunrise domain registration. Each step in the process is explained below; see also Appendix: Cross-Functional Responsibility Charts for further clarification.

Sunrise Initiation

a. Registry schedules sunrise period(s) with Clearinghouse.

b. Clearinghouse generates sunrise codes and corresponding sunrise code confirmation data for all verified records with verified proof of use.
c. Clearinghouse distributes sunrise code confirmation data to registry.

d. Clearinghouse notifies rights holders/agents of new sunrise codes applicable to their verified records with verified proof of use.

**Sunrise Domain Registration**

a. Rights holder or its agent obtains an appropriate sunrise code for the intended domain name.

b. Rights holder or its agent applies for a domain name, providing sunrise code to registrar.

c. Registrar attempts to create domain, offering sunrise code as proof of verified trademark rights in requested domain.

d. Registry confirms eligibility of domain registration request, including confirming that the provided sunrise code is valid. On failure, the Registry will notify the Registrar and the Registrar will notify the domain name applicant as to why.

e. Registry creates domain.

f. Registry notifies Clearinghouse that sunrise code was used.

g. Clearinghouse notifies all applicable rights holders or agents of the sunrise domain registration (including the successful rights holder applicant and any other rights holders/agents with records in the Clearinghouse that match the domain string registered during the sunrise period).

3. **Business Requirements to Support Process**

The business requirements to support the Sunrise process are enumerated in the chart below.

<table>
<thead>
<tr>
<th>ID</th>
<th>Requirement</th>
<th>Additional Clarification</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.8A</td>
<td>Sunrise must be offered for a minimum of 30 days during the pre-launch phase.</td>
<td></td>
</tr>
<tr>
<td>ID</td>
<td>Requirement</td>
<td>Additional Clarification</td>
</tr>
<tr>
<td>------</td>
<td>-----------------------------------------------------------------------------------------------</td>
<td>------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>3.8B</td>
<td>During the mandatory sunrise period, any domain registered must be based on a record that has been verified by the Clearinghouse as meeting the sunrise eligibility requirements (as described in 3.7).</td>
<td>A registry may elect to have additional requirements, but all domain names registered during the mandatory sunrise period must be based on Clearinghouse-verified rights.</td>
</tr>
<tr>
<td>3.8C</td>
<td>For any domain name registered during the mandatory sunrise period, a notice must be sent to all eligible rights holders or agents, to ensure that they are notified of the sunrise registration.</td>
<td></td>
</tr>
<tr>
<td>3.8D</td>
<td>Sunrise codes must not confer any authorization for events occurring outside of the given top-level domain’s sunrise period.</td>
<td></td>
</tr>
</tbody>
</table>

9. Trademark Claims Process

1. Overview

Rights holders and their agents have the option to participate in the Trademark Claims process. The Trademark Claims process provides two kinds of notifications about trademark-related domain name activities within any new gTLD registry:

1. Notification to a prospective domain name registrant that a domain name has one or more trademark claims associated with it, provide the information necessary to research the claim, and allow the prospective registrant to make an informed decision about the registration, prior to the completion of the registration; and

2. Notify the trademark claimant(s) that a domain name has been registered.

The Trademark claims process must be offered for a period of at least 60 days.
2. Process Flow

The diagram below illustrates the Trademark Claims process flow.
Figure 13. Trademark Claims Process Flow
This process is divided into two sub-processes: Trademark Claims initiation and domain name registration. Each step is the process is explained below; see also Appendix: Cross-Functional Responsibility Charts for further clarification.

**Trademark Claims Initiation**

a. Registry notifies Clearinghouse of the start and expected end-dates for its trademark claims period.

b. Clearinghouse creates and maintains a claims data repository. Note that this recurs periodically (and automatically) for as long as the claims period is active.

c. Registry requests updates/refresh of claims data from the Clearinghouse. Note that this recurs periodically for as long as the claims period is active.

**Trademark Claims Domain registration**

a. Domain Name Applicant requests domain name from a participating registrar.

b. Registrar checks for trademark claims to the requested domain as part of the check for domain availability. Note that only identical matches are subject to trademark claims notifications.

c. If presented with a trademark claims notice, the domain name applicant must acknowledge the claims through some active step (checking a checkbox or other affirmative step) to continue. That acknowledgement must be captured by the registrar, along with identifying information about the acknowledgement so that an auditable trail can exist for the event.

d. Registrar requests that the domain be created by the registry, providing a copy of the acknowledgement to the registry.

e. The registry confirms that either (1) no trademark claims exist for the domain name, or (2) the acknowledgement provided by the registrar matches the claims. If claims exist and either no acknowledgement was provided or the acknowledgement does
not match the claims, then the registry must not create the domain. The registry must create only domains with no trademark claims or where acknowledgement is received for all claims associated with the name at the time of registration.

f. The registry creates the domain.

g. If any claims applied to the domain, the registry notifies the Clearinghouse with a copy of the acknowledgement.

h. The Clearinghouse provides the domain registration notice to any rights holder participating in the trademark claims period that has rights which match the newly created domain.

The trademark claims process is dependent upon the submission and verification of rights data. The Clearinghouse will generate a list of all fully qualified domain names that are protected within a registry, based on a set of matching rules and using IDNA encoding of Unicode marks. That list, in a properly protected format, will be made available to each registry, along with the necessary claims notice data, in a known format.

Registries will be responsible for the retrieval, import and use of that information, relying on prescribed data transmission protocols. Furthermore, should a registry use variant character set mappings, it will need to perform multiple checks against the provided data to ensure that the rights protection mechanism is properly applied.

3. Business Requirements to Support Process

The business requirements to support the Trademark Claims process are enumerated in the chart below.

<table>
<thead>
<tr>
<th>ID</th>
<th>Requirement</th>
<th>Additional Clarification</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.9A</td>
<td>New gTLD registry operators must provide trademark claims services during an initial launch period for marks in the Clearinghouse. This launch period must occur for at least the first 60 days that registration is open for general registration.</td>
<td></td>
</tr>
<tr>
<td>ID</td>
<td>Requirement</td>
<td>Additional Clarification</td>
</tr>
<tr>
<td>------</td>
<td>-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------</td>
<td>---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>3.9B</td>
<td>A trademark claims service is intended to provide clear notice to the prospective registrant of the scope of recorded rights associated with trademarks potentially affecting the requested domain name, in order to minimize the chilling effect on registrants (trademark claims notice). The trademark claims notice must include an ICANN-approved introductory statement about the notice and then, for each set of rights that applies to the requested domain name:</td>
<td>It is expected that the notice will include introductory text in English and the language of the registration agreement, and that the actual trademark claims data will be presented in the language and character set in which it was provided to the Clearinghouse.</td>
</tr>
<tr>
<td></td>
<td>- The mark being protected;</td>
<td></td>
</tr>
<tr>
<td></td>
<td>- The jurisdiction of the mark;</td>
<td></td>
</tr>
<tr>
<td></td>
<td>- The international class of goods and services (or equivalent if applicable);</td>
<td></td>
</tr>
<tr>
<td></td>
<td>- The owner of the mark;</td>
<td></td>
</tr>
<tr>
<td></td>
<td>- The contact for the mark.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>The specific, ICANN-approved statement that is to be acknowledged by prospective registrant warrants that:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>- The prospective registrant has received notification that the mark(s) is/are included in the Clearinghouse;</td>
<td></td>
</tr>
<tr>
<td></td>
<td>- The prospective registrant has received and understood the notice; and</td>
<td></td>
</tr>
<tr>
<td></td>
<td>- To the best of the prospective registrant’s knowledge, the registration and use of the requested domain name will not infringe on the rights that are listed in the notice.</td>
<td></td>
</tr>
</tbody>
</table>

### 10. Rights Holder Customer Service Process

#### 1. Overview
The processes by which the Clearinghouse provides customer service to rights holders may be specified by the Clearinghouse service provider.

2. Business Requirements to Support Process

The business requirements to support the Rights Holder Customer Service process are enumerated in the chart below.

<table>
<thead>
<tr>
<th>ID</th>
<th>Requirement</th>
<th>Additional Clarification</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.10A</td>
<td>The contract shall include service level requirements, customer service availability (with the goal of seven days per week, 24 hours per day, 365 days per year) and equivalent access requirements for all persons and entities required to access Clearinghouse data and services.</td>
<td>Response times reflecting the global nature of the Clearinghouse service are expected. During the start-up period, this may warrant a substantial support infrastructure that can be scaled back as volumes become more predictable and manageable.</td>
</tr>
<tr>
<td>3.10B</td>
<td>Customer service must be offered by e-mail, web, and telephone. Other service capabilities may be offered at the discretion of the Clearinghouse.</td>
<td></td>
</tr>
</tbody>
</table>

11. Registry Support

1. Overview

The processes by which the Clearinghouse provides registry support services may be specified by the Clearinghouse service provider.

2. Business Requirements to Support Process

The business requirements to provide Registry Support processes are enumerated in the chart below.

<table>
<thead>
<tr>
<th>ID</th>
<th>Requirement</th>
<th>Additional Clarification</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.11A</td>
<td>During an active sunrise or trademark claims period, the Clearinghouse must respond to technical inquiries from a registry within 30</td>
<td></td>
</tr>
</tbody>
</table>
12. Dispute Resolution Process

1. Overview

The Clearinghouse must develop processes and procedures to handle disputes of the types described in section 2.7. Appropriate remedies for issues raised by individuals raising issues to or with the Clearinghouse must be within parameters established by that process. Appropriate standards must be published by the Clearinghouse to maintain its role as a fact checking repository, rather than an arbitrator of legal rights.

2. Business Requirements to Support Process

The business requirements to support the Dispute Resolution process are enumerated in the chart below.

<table>
<thead>
<tr>
<th>ID</th>
<th>Requirement</th>
<th>Additional Clarification</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.12A</td>
<td>Dispute resolution processes must be approved in advance by ICANN, and should be designed to be replicable, open, transparent and fair.</td>
<td></td>
</tr>
</tbody>
</table>

13. Reporting

1. Overview

The Clearinghouse will provide a regular accounting of its activity to ICANN. The intent of reporting is to show how well the Clearinghouse is performing in its obligation to facilitate the protection of trademark rights in new gTLD domain name registrations. Reporting requirements will be included as a specification in the Clearinghouse provider’s contract with ICANN.

2. Business Requirements to Support Process

The business requirements to support the Reporting process are enumerated in the chart below.

<table>
<thead>
<tr>
<th>ID</th>
<th>Requirement</th>
<th>Additional Clarification</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.13A</td>
<td>The Clearinghouse must delay the publication of any report on Clearinghouse activity</td>
<td>The Clearinghouse must not become a “back door”</td>
</tr>
<tr>
<td></td>
<td>which would expose registry statistics for a minimum of 90 days, to be consistent with ICANN protections of registry business intelligence data. However, nothing in this requirement should delay distribution of reports to ICANN in a prompt manner.</td>
<td>to access time-sensitive information about registry operation that is otherwise protected.</td>
</tr>
<tr>
<td>---</td>
<td>---</td>
<td>---</td>
</tr>
<tr>
<td><strong>3.13B</strong></td>
<td>Best practices and statutes for audit and compliance may require trademark data to be retained or other audit and reporting mechanisms to be implemented by the Clearing-house.</td>
<td></td>
</tr>
</tbody>
</table>
Technical Requirements

1. Overview of Technical Requirements

The technical requirements of the Clearinghouse are intended to provide additional information, considering the operationalization of business requirements. In some cases, detailed and extensive descriptions are included to provide guidance as to the design and implementation phases of system integration.

2. Technical Requirements

The technical requirements are enumerated in the chart below.

<table>
<thead>
<tr>
<th>ID</th>
<th>Requirement</th>
<th>Additional Clarification</th>
</tr>
</thead>
<tbody>
<tr>
<td>4.2A</td>
<td>All rights holders or agents seeking to have their marks included in the Clearinghouse must consent to the use of their information by the Clearinghouse. However, such consent will extend only for use in connection with the stated purpose of the Clearinghouse database for sunrise or trademark claims services. The reason for such a provision is to prevent the Clearinghouse from using the data in other ways without permission. There is no prohibition on the Clearinghouse service provider(s) or other third party service providers providing ancillary services on a non-exclusive basis, subject to the terms of the provider’s contract with ICANN.</td>
<td>A second, express consent must be obtained from the rights holder or agent prior to participation in the ancillary services.</td>
</tr>
</tbody>
</table>
3. Data Classification, Access and Mandatory Protections

The Clearinghouse has been designed with the specific goal of limiting the introduction of external, network-based dependencies that could disrupt technical operations within registries and registrars. To make that possible while achieving the structural goals of the trademark claims and sunrise services, certain information will be distributed directly to registries for use in the registration process, to facilitate the registry’s enforcement of mandatory rights protection mechanisms.

All information which is to be distributed from the Clearinghouse must meet mandatory access control requirements to protect the privacy of rights holders. Any distributed data must be classified in accordance with the descriptions and security policy described below. No part of these requirements should be construed to prevent the disclosure of Clearinghouse data as required by law or as reasonably needed to resolve disputes associated with the mandatory rights protection mechanisms of the new gTLD program. However, absent such an exceptional circumstance, the Clearinghouse is expected to comply with the mandatory controls described below. Information provided to third-parties should be as limited as reasonably possible.

1. Data Classification

<table>
<thead>
<tr>
<th>ID</th>
<th>Requirement</th>
<th>Additional Clarification</th>
</tr>
</thead>
<tbody>
<tr>
<td>4.2B</td>
<td>In order not to create a competitive advantage, the data in the Clearinghouse should be licensed to competitors interested in providing ancillary services on equal and non-discriminatory terms and on commercially reasonable terms if the rights holders or agents agree. Accordingly, two licensing options will be offered to the rights holder:</td>
<td>The specific implementation details will be determined, and all terms and conditions related to the provision of such services shall be included in the Clearinghouse service providers’ contract with ICANN and subject to ICANN review.</td>
</tr>
<tr>
<td></td>
<td>▪ License to use its data for all required features of the Clearinghouse, with no permitted use of such data for ancillary services either by the Clearinghouse Service Provider(s) or any other entity; or</td>
<td></td>
</tr>
<tr>
<td></td>
<td>▪ License to use its data for the mandatory features of the Clearinghouse and for any ancillary uses reasonably related to the protection of marks in new gTLDs, which would include a license to allow the Clearinghouse to license the use and data in the Clearinghouse to competitors that also provide those ancillary services</td>
<td></td>
</tr>
</tbody>
</table>
Internal data represents data required for the Clearinghouse to perform its functions which is not intended to be shared with any outside party.

Unprotected data can be shared by the Clearinghouse without mandatory access controls. This does not prohibit normal resource usage control as decided by the Clearinghouse, such as reasonable rate limiting so as to control the cost of providing the data, but does create a “public” grade of information suitable for sharing on public websites. Policies governing Clearinghouse activity, boilerplate language for notices, and public reports of clearinghouse activity are examples of unprotected data.

Billing data represents information used for financial purposes. To the extent that billing data is collected, such data may only be shared with financial institutions, the customer or law enforcement as required to facilitate payment and refunds for services from the Clearinghouse, to investigate fraud and as needed for customer service inquiries. Protections for billing data should follow best industry practices, and must be suitable for the sensitivity and value of the data (for example, credit card data would be subject to Payment Card Industry (PCI) data security).

Customer communication represents correspondence or notifications provided to customers (rights holders, registries, etc.). No special security measures are required for correspondence outside of standard practices (e.g. communication intended for a particular recipient should be sent to only that recipient and should not be made generally available to others).

Trademark activity data represents the records used to verify trademark data and proof of use, the history of verification, and the record of Clearinghouse acknowledgements and sunrise code usage. Such data is expected to be needed in a variety of dispute resolution processes and may also be required during legal adjudication of conflicts.

Restricted data can be shared between the Clearinghouse and appropriate partner entities. Restricted secret data includes codes such as encryption keys and authentication credentials. Sunrise codes provided to rights holders or agents are also considered shared secret data.

Service support data can be distributed from the Clearinghouse to registries, in support of the operation of trademark claims and sunrise periods. Service support data includes sunrise code matching data, trademark claims matching data, and trademark claims notice data. Service support data has special handling requirements as described below.

2. Cryptographic Considerations

All lookups and encryption are intended to ensure that a lookup can only reasonably be performed when the individual accessing the data knows the shared secret, the label and possibly the top-level domain it applies to. The intent is to provide ten years or more of cryptographic protection on any label against brute force attacks against technology as it currently exists and is expected to change based on computational power doubling every 18 months, assuming that holders of shared secrets are contractually obligated not to
perform brute force attacks against the data and to manage the data in keeping with mandatory handling requirements and limitations on decrypted caching. Specific algorithms are specified as recommended (i.e. “should”) rather than mandatory (i.e. “must”), recognizing that technological developments may require changes to the cryptographic and compression approach to assure the desired levels of protection and performance. Weaknesses that significantly reduce the protection afforded by the encryption must warrant re-evaluation of which algorithms are to be used.

All matching data (for sunrise codes and for trademark claims) must be distributed as a cryptographic hash-based message authentication code or other one-way encryption algorithm. Clearinghouse matching data should use the HMAC-SHA1 algorithm. It should rely on a shared secret, and the string to be hashed should always be encoded to be only in lower case DNS-permissible characters (e.g. Unicode labels must use IDNA-2008 a labels). Cryptographic hashes, when used as filenames on a Clearinghouse file system, must be encoded to be compatible with the registry storage system. Registries must support RFC 4648 compatible encoding using BASE16, BASE32 and BASE64. Generally speaking, file and directory names must fall within the printable 7-bit ASCII character range, assuming no case sensitivity.

The encrypted trademark claims notice data must be constructed using a cryptographically sound methodology. Claims notice data is represented as an XML object, which may be compressed using the compression algorithm agreed upon by the registry and Clearinghouse (such as LZW (compress), Deflate (zip), LZMA (7zip) or Burrows-Wheeler (bzip2)). That compressed object must then be AES128 encrypted using a key derived from the shared secret and the label the trademark claims apply to. Some possible encryption key construction methods are to use the HMAC-SHA1 hash of a cryptographically salted shared secret and the label that the trademark claims apply to or the fully qualified domain name (label.tld) that the claims apply to. Note that the encryption key must not be the same (or an encoded version of the same) as the matching data used to identify it to avoid disclosing the decryption key within the repository.

Data that is received in an encrypted form (after decryption of a protocol-based encrypted transport) should, in general, not be stored in decrypted form by the registry. For performance reasons, the registry may decrypt objects for maintaining in cache for a reasonable period for the purpose of facilitating an existing request to register a domain name, because encrypted objects are accessed twice in the registration process. A reasonable period is expected to be less than two hours. Decrypted data that is received as part of an acknowledgement is not subject to this restriction. This specific protection must be included registry-Clearinghouse service agreements and terms of use.

Registrars may not cache claims data beyond the registration transaction, which is generally expected to apply to periods of no more than six hours, but for non-interactive registration processes may be longer. Claims data which is transmitted to the registry as part of the mandatory acknowledgement of claims may be retained as part of the transactional record at the registrar.

Trademark claims notice data must not be transmitted to registrars outside of an active trademark claims period. The existence of trademark claims may be confirmed to regis-
trans outside of an active trademark claims period in the discretion of the registry. However, following the conclusion of the trademark claims period, all Clearinghouse data repositories must be appropriately disposed of and may not be used.

3. **Key Management and Rotation Considerations**

The cryptographic controls and the assurances against potential abuse are largely controlled by a shared secret between the registry operator and the Clearinghouse. The risk profile for using a shared secret for a short period, like 6 months, is different from the risk profile for using a shared secret for a long period, like 3 years. It would limit the security of the clearinghouse data to allow a long-lived shared secret. Thus, the shared secret needs to be periodically changed in any long-lived Sunrise or Trademark Claims service period.

To address this concern, the Clearinghouse will issue some number of shared secrets (2 is proposed, each being valid for a period of 6 months) to each Registry that will be transmitted to the registry out-of-band in a reasonably secure manner. Keys will be automatically rotated at the Clearinghouse on 00:00:00 UTC on the first day of each semester and will be valid through 23:59:59 UTC on the last day of that period, so that any new sunrise data or claims data will be created using a new key. Any existing data will be encrypted using the new key in the full dump, and added in batches to subsequent incremental updates to minimize the processing required.

Emergency procedures to respond to a key compromise will be established reflecting a compressed timeline of the process above. Issuing new keys will occur with sufficient lead time to ensure that even an emergency key rotation can occur smoothly and cleanly.

<table>
<thead>
<tr>
<th>ID</th>
<th>Requirement</th>
<th>Mandatory Control</th>
</tr>
</thead>
<tbody>
<tr>
<td>4.3A</td>
<td>All data in the Clearinghouse must be classified into a category of data, to identify mandatory protections for that data class.</td>
<td>Any information which has not been classified in the Clearinghouse must be treated as &quot;internal data.&quot;</td>
</tr>
<tr>
<td>4.3B</td>
<td>Internal data</td>
<td>Internal data is not shared outside the Clearinghouse except when compelled by law enforcement or judicial action.</td>
</tr>
<tr>
<td>4.3C</td>
<td>Unprotected data</td>
<td>This information may be disclosed at the discretion of the Clearinghouse.</td>
</tr>
<tr>
<td>ID</td>
<td>Requirement</td>
<td>Mandatory Control</td>
</tr>
<tr>
<td>------</td>
<td>-------------------------------------------</td>
<td>-----------------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>4.3D</td>
<td>Billing data</td>
<td>Must follow industry practices suitable to the sensitivity and value of the data (e.g. PCI DSS for credit card data). Must be used only for billing (payable and receivable) purposes, customer service inquiries and as necessary to investigate fraud and abuse.</td>
</tr>
<tr>
<td>4.3E</td>
<td>Customer communication</td>
<td>No special security measures are mandatory. However, automated communications should be structured to make any unauthorized or fraudulent use of the Clearinghouse name more evident.</td>
</tr>
<tr>
<td>4.3F</td>
<td>Trademark activity data</td>
<td>May be shared as required by law or as reasonably needed to inform the resolution of disputes associated with the mandatory rights protection mechanisms of the new gTLD program.</td>
</tr>
<tr>
<td>4.3G</td>
<td>Restricted data</td>
<td>May be shared only with specific parties who have a need-to-know the data for legitimate purposes. Restricted data should be transmitted to recipients over encrypted transport when online, and may appropriately be transmitted via out-of-band means such as couriers.</td>
</tr>
<tr>
<td>ID</td>
<td>Requirement</td>
<td>Mandatory Control</td>
</tr>
<tr>
<td>----</td>
<td>-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------</td>
<td>-------------------------------------------------------------------------------------------------------------</td>
</tr>
</tbody>
</table>
| 4.3H | **Service support data: Sunrise code matching data, or data used to match a sunrise code to a rights holder's specific rights in a given domain name.**  
  - Sunrise codes must be unique for any given fully qualified domain name and rights holder. (Any two contacts having verified rights in the same label “example” must have different sunrise codes for example.tld).  
  - The rights holder components of sunrise codes may be generated from a data source that is at least pseudo-random; the code may be generated from a random source.  
  - The Clearinghouse must not re-use sunrise codes for any purpose outside of sunrise registration authorizations for the intended top level domain. | Sunrise code matching data must be distributed to only that registry it applies to.  
Sunrise code matching data must be distributed as a cryptographic hash-based message authentication code or other one-way encryption algorithm.  
Matching data should use HMAC-SHA1 based on a shared secret key and a unique name constructed as “sunrisecode.label.tld” encoded into DNS-permissible characters.  
Matching data must be encoded in RFC4648 compatible BASE64. |
<table>
<thead>
<tr>
<th>ID</th>
<th>Requirement</th>
<th>Mandatory Control</th>
</tr>
</thead>
<tbody>
<tr>
<td>4.3I</td>
<td>Service support data: Trademark claims matching data, or data used to determine whether a second-level label has one or more trademark claims listed with the Clearinghouse.</td>
<td>Trademark claims matching data must be distributed to only that registry it applies to.</td>
</tr>
<tr>
<td></td>
<td>• Will only match one encoding; for variant IDN encodings, the registry must perform multiple checks. The strings “café” (ending in U+00E9) and “cafe” (ending in U+0065) do not match by default: a registry would need to establish character mappings and try each of those mappings against Clearinghouse data. Registries may offer lookup for whether trademark claims exist in the “lightweight” lookup to registrars outside of a trademark claims period if the claims data is undergoing updates.</td>
<td>Trademark claims matching data must be distributed as a cryptographic hash-based message authentication code or other one-way encryption algorithm. Matching data should use HMAC-SHA1 based on a shared secret key and the fully qualified domain name requested. Matching data must be encoded in RFC4648 BASE64.</td>
</tr>
<tr>
<td>4.3J</td>
<td>Service support data: Date of most recent sunrise eligibility verification for a given sunrise code.</td>
<td>May be distributed in plain text. This information is only required to support Sunrise models that have a “cutoff date” for sunrise eligibility.</td>
</tr>
</tbody>
</table>
### 4. Trademark Clearinghouse Data Structures

#### 1. Overview

This section describes the specific required data and applies some structural elements to that data for illustration purposes. The Clearinghouse, in cooperation with ICANN, must provide formal data structure specifications to registries and registrars so that such entities can begin to implement the required enhancements to systems to perform Clearinghouse functions.

<table>
<thead>
<tr>
<th>ID</th>
<th>Requirement</th>
<th>Mandatory Control</th>
</tr>
</thead>
<tbody>
<tr>
<td>4.3K</td>
<td>Service support data: Trademark claims notice data</td>
<td>Must only be distributed as an encrypted object. Notice data must be constructed</td>
</tr>
<tr>
<td></td>
<td>- Because each encrypted object can be used at least twice in an attempted domain name registration, decrypted trademark claims notice data may be cached by the registry for a period of up to six hours to improve performance.</td>
<td>using a cryptographically sound methodology.</td>
</tr>
<tr>
<td></td>
<td>- Each decryption of a trademark claims notice must be logged, identifying the requested claims notice, the party making the request (registry personnel or registrar name), and the date and time of request.</td>
<td>Claims notice data may (with agreement between the registry and Clearinghouse) be compressed prior to encryption.</td>
</tr>
<tr>
<td></td>
<td>- The log of trademark claims access must be provided to the Clearinghouse on the same schedule as transmission of trademark claims notice acknowledgements.</td>
<td>Claims notice should be encrypted using AES128 and an appropriately sized encryption key derived from the shared secret and label that the trademark claims apply to. Encryption keys must not be the same as trademark claims matching data.</td>
</tr>
<tr>
<td></td>
<td>- Trademark claims notice data must only be provided to a registrar during an active period of trademark claims.</td>
<td>Registries must not decrypt trademark claims notice records except in legitimate support of the trademark claims service, in response to a specific, registrar-initiated request.</td>
</tr>
</tbody>
</table>
2. Trademark Claims Notice Data

Trademark claims notice data must be transferred from the Clearinghouse to the registry, from registry to registrar, and presented by the registrar to the domain applicant. In addition, the data presented to the domain applicant must be transmitted back to the registry and Clearinghouse as part of the acknowledgement, which provides some assurance that the registrant knows of the trademark claims.

Because of this high degree of transfer, the claims must be able to be structured in XML for inclusion within EPP transactions. The XML payload elements will be provided (in encrypted form) by the Clearinghouse to registries through its data synchronization service, to ensure that registries have access to the necessary data to facilitate trademark claims services.

The pseudo-code description for trademark claims notices is as follows:

```
<notice id="label"> // as in label.tld
  <claim>           // zero or more claims per notice
    <mark>          // encoded Unicode word mark
    <owner>         // who owns the trademark rights
    <contact>       // who to contact re: trademark rights
    <class>         // international goods/services class
    <jurisdiction>  // jurisdiction ID (country code)
  </claim>
</notice>
```

3. Acknowledgements

Sunrise registrations and trademark claims period registrations where the requested domain name has associated trademark claims require some additional information from the domain name applicant/registrant to proceed to successful registration. That additional information is collectively known as an acknowledgement. Acknowledgements must fit into an XML structure for inclusion in an EPP transaction.

The pseudo-code description for an acknowledgement (or “ack”) is as follows:

```
<ack>
  <registrar>       // RFC5733 registrant object - contact
  <registrant>     // RFC5733 registrant object - contact
  <timestamp>      // captures IP, phone# or address used
    <where>        // captures IP, phone# or address used
      <fqdn>       // fully qualified domain name, applies
        <authcode> // optional: sunrise code
          <notice> // optional: notice as describe above
            // an ack must contain only one authcode
            // or notice
```
4. Auditing trail events

Access to trademark claims notice data requires decryption, which is always under the control of the registry. Because the registry is the only point of access to this data in decrypted form, the registry must maintain records of each time that Clearinghouse data is decrypted, to identify attempted data mining.

A minimal amount of information is required, described as follows:

```xml
<audit>
  <who>        // registrar identification
  <what>       // repository path to encrypted object
  <size>       // encrypted object size in bytes
  <mtime>      // the date/time of last modification as
                // determined by the file’s timestamp
                // if supported by the operating system.
  <timestamp>
</audit>
```

5. Repository Directories

The repository will have a directory structure such as:

```bash
/<TLD>/sunrise/full/
/<TLD>/sunrise/incremental/
/<TLD>/ipclaims/full/
/<TLD>/ipclaims/incremental/
```

Sunrise code data will be located in the .../sunrise/ directory tree, and trademark claims data will be located in the .../ipclaims/ directory tree.

Furthermore, there is no assurance that file systems used by registries will be feature-rich; as such, filenames and directory names in the synchronized repository should be limited to 7-bit ASCII and should not rely on case sensitivity.

The structure of directories synchronized to the Clearinghouse may be specified by the registry, but must not permit any directory from containing 65535 or more files or directories. Unnecessary subdirectories (directories without at least one file entry) must not be created and should be removed. Upon successful synchronization to the Clearinghouse, files should be removed from the registry’s synchronized directory structure to improve performance. Copies of any data transmitted to the Clearinghouse may be kept by the registry.

6. Sunrise and Trademark Claims Repositories
Data stored in the claims and sunrise repositories must be structured within the repository to take advantage of existing synchronization tools. Sunrise code data and trademark claims data will be re-generated periodically. Filenames will be standardized to identify the contents, whether the contents are full or incremental, and the date/time of creation. For example, a full dump of sunrise codes from June 25 would be “sunrise-full-1340582400” – where 1340582400 is the UNIX time representation of 00:00:00 UTC on 25 June 2012. Full dumps for both the Sunrise code matching data (“Sunrise data”) and Trademark Claims data (as the case may be) will be generated each day starting at 00:00 UTC. Incremental dumps of both data sets will be generated periodically (the current expected window is once every 15 minutes).

The incremental and full dumps generated at 00:00 UTC consider the same date and time for TMCH data selection allowing a registry to update its local cache using only incremental files and the full dump when a key rollover (or an extended outage) occurs.

Upon completion of generating a new full dump, all previous full and any incremental dumps more than 48 hours old will be removed. This will guarantee moderately small synchronization runs being required and a robust recovery approach should synchronization fail multiple times in a row.

Dump files for Sunrise data will be formatted for easy automated processing, and will be designed to promote and facilitate the automation of importing the data into registry database systems and are described in the file format section.

The lookup hashes for both Sunrise and Trademark Claims records should not be ordered based on the labels used to generate the lookup hashes.

7. Synchronized Data File Structures

Periodically generated full dump and incremental update files will follow a simple file format that permits the integration of multiple records into the same file to minimize the volume of data being synchronized. Files have a minimal header (three lines) to communicate the periods covered by the data and provide a consistency check to ensure that the file is usable by the registry.

- **Sunrise code data file format**:

  previous=<previousdbtimestamp>
  current=<currentdbtimestamp>
  test=<ErrorIdentificationCode>
  +<SunriseVerificationCode>
  -<SunriseVerificationCode>
  [more codes]

- **Trademark Claims data file format**

  previous=<previousdbtimestamp>
current=<currentdbtimestamp>
test=<IdentificationCode>
+<ClaimsLookupCode1>,<salt1>,<ClaimsObject1>
-<ClaimsLookupCode2>
[more codes]

A leading “+” signifies a new or updated code; a leading “-” signifies a code that is to be removed. Note that full dumps should not have any leading “-” lines. When processing these files, instruction to remove a non-existent entry must be handled gracefully, so that a data synchronization error condition does not prevent other updates from occurring.

<table>
<thead>
<tr>
<th>previousdbtimestamp</th>
<th>This is the date/time stamp (measured in the number of seconds since 1970-01-01 00:00:00 UTC, representing when the previous database dump was initiated. When this value is 0, then the file is a full database dump; when the value is nonzero, then the file is an incremental database dump.</th>
</tr>
</thead>
<tbody>
<tr>
<td>currentdbtimestamp</td>
<td>This is the date/time stamp (measured in the number of seconds since 1970-01-01 00:00:00 UTC, representing when the current database dump was initiated.</td>
</tr>
<tr>
<td>IdentificationCode</td>
<td>This code represents the base64 encoded HMAC-SHA1 of the shared secret used to encrypt new entries in the file and the currentdbtimestamp. Because this model anticipates multiple shared secret keys (especially in light of the likelihood of key rollover for large back-end registry operators), it is necessary to ensure that the shared secret used can be identified so that error conditions in the synchronization of data can be identified and data integrity can be protected.</td>
</tr>
<tr>
<td>SunriseVerificationCode</td>
<td>The unique HMAC-SHA1 code that can be constructed from domain name registrant-provided data and Registry-known data: registry’s shared secret, registrant sunrise code, label and top-level domain (registry). SunriseVerificationCodes should be encoded in Base64.</td>
</tr>
<tr>
<td>ClaimsLookupCode</td>
<td>The unique HMAC-SHA1 code that can be constructed from the registry’s shared secret and the domain name label. ClaimsLookupCodes should be encoded in Base64.</td>
</tr>
</tbody>
</table>

International Business Machines of Belgium S.P.R.L./B.V.B.A.  
Siège social / Maatschappelijke zetel: Avenue du Bourget 42 Bourgelaan, B-1130 Bruxelles/Brussel  
N° d'entreprise / Ondernemingsnr: TVA / BTW BE 0405 912 336  
RPM Bruxelles / RPR Brussel – Tel 02-3392111
Salt | This 160-bit value (base64 encoded) acts as a cryptographic salt when generating a ClaimsObject.
---|---
ClaimsObject | The claims object is a base64 encoded encrypted XML object. The XML must meet the requirements described in section 4.4.2; then that object will be encrypted using AES128. The key used for that encryption will be constructed using an HMAC-SHA1 of the label and a salted hash using the unique salt provided with the ClaimsObject and ClaimsLookupCode and the registry's shared secret, such that base64 (aes(hmac(salt|secret,label),xml)). Note that salt|secret is a concatenation.

5. Protocol Enhancements

1. **Overview**

The current design of the Clearinghouse requires updates to the Extensible Provisioning Protocol (EPP). To limit communication dependencies with the Clearinghouse (thereby decreasing the chances of a Clearinghouse technical failure impairing the ongoing business efforts of registries and registrars), Clearinghouse data will be transferred in a protected form to registries. The data will be queried by registries using extensions to EPP transactions occurring in certain circumstances.

2. **Expansion of EPP domain <create> to support the sunrise codes <ack>**

During the mandatory sunrise period, domain name applicants must include a sunrise code to show that they’ve met the minimum sunrise eligibility requirements from the Clearinghouse. Registries are obligated to ensure that rights protection mechanisms are observed and are empowered to do so by having a means to verify that a code was issued specifically for the requested domain, showing that appropriate rights have been verified by the Clearinghouse.

EPP’s domain <create> command does not currently contain a mechanism to include such information. The inclusion of an <ack> containing an <authcode> (as described in 4.4.3) should be adequate to communicate the necessary information required for rights protection.

3. **Expansion of EPP domain <check> to support retrieval of <notice> data**
During the trademark claims period, registrars are required to check for and display trademark claims notices. This seems to logically fall within the functionality described in the <check> command, but the structure of EPP requires an extension to include the full detail of a trademark claim.

There are two classes of checks which might occur. One might simply check to see whether or not trademark claims exist at all. This check would be faster (no decryption of claims data required); such a check would be suitable for bulk domain name checking. The second, more detailed check would return the full trademark claims <notice> object.

EPP’s domain <check> does not currently contain a mechanism to support receiving trademark claims notice data, nor does it contain a response code that would suggest that claims exist on an otherwise available domain name. The ability to include a <notice> as described in 4.4.2 would address the payload issues, and additional enhancements to the protocol are required to ensure that the required extensions to the behavior of the system are backward compatible for EPP clients that do not recognize the extension.

4. **Expansion of EPP domain <create> to support trademark claims <ack>**

During the trademark claims period, registrars are required to capture an acknowledgement of trademark claims and transmit it to the registry, as part of the trademark claims rights protection mechanism. Registries are, in turn, obligated to ensure that appropriate rights protection actions occur.

EPP’s domain <create> command does not currently contain a mechanism to include such information. The inclusion of an <ack> containing a <notice> (as described in 4.4.3 and 4.4.2 respectively) should be adequate to communicate the necessary information required for rights protection.

6. **Matching Rules**

The Clearinghouse must automatically generate the identical domain name that is linked with a record trademark. However, some trademarks include spaces or other special characters that cannot be represented in a domain name. Consequently, ICANN based on the input from its stakeholders has defined a set of rules that defines what constitutes as an identical match.

4.6.1. **Identical Matches of Domain Name labels**

The label (the second level element of a fully qualified domain name) is the complete and identical textual elements of the mark. There are four specific transformation rules which can be applied to labels and still maintain an identical match.

Spaces can be replaced by hyphens (or vice versa) or omitted;
Certain special characters in a trademark will be spelled out with appropriate words (@ and &);

Characters in a mark that are unable to be used in a domain name may (i) be omitted or (ii) replaced by hyphens and still be considered identical matches.

Where a registry may wish to institute additional matching rules, i.e., to add more characters, including IDN variant characters, this implementation will be the responsibility of the registry operator. Registries currently adopt IDN tables for a TLD which may include the identification of characters considered to be variants of one another; however, there is no authoritative IDN table per script that is broadly accepted.

4.6.2. “Rule B” Translations

All “Rule B” translations are language specific. A canonical listing of translations must be established, using the following chart format, which must be extended and completed prior to operational deployment. The following table is an example to demonstrate the Rule B translation requirement, based on a cursory review of the six UN sponsored language.

<table>
<thead>
<tr>
<th>Special Character</th>
<th>Arabic</th>
<th>Chinese</th>
<th>English</th>
<th>French</th>
<th>Russian</th>
<th>Spanish</th>
</tr>
</thead>
<tbody>
<tr>
<td>&amp; (Ampersand)</td>
<td>ﻭ</td>
<td>和</td>
<td>And</td>
<td>et</td>
<td>И</td>
<td>Y</td>
</tr>
<tr>
<td>@ (Ampersat)</td>
<td>ﻓﻲ</td>
<td>在</td>
<td>At</td>
<td>à</td>
<td>B</td>
<td>en</td>
</tr>
</tbody>
</table>

Every mark containing a recognized special character (& or @) is entitled to use the canonical mappings into each of the national language(s) of the jurisdiction in which the trademark rights were recognized. Consistent with Rule “C”, dropping the special character or replacing it with a hyphen (like any other DNS-impermissible character) is also acceptable. This approach is expandable to support the integration of new “Rule B” translations should ICANN policy developments require such a functional expansion.

For example, in Canada (national languages French and English with the translations listed above), the mark A&B would have four valid permutations which would still be considered an exact match: ab, a-b, aandb, and aetb.

4.6.3. Implementation Constraints
The above rules can be implemented in straightforward cases such as the following examples:

**Rule A:** A trademark holder would like to record his trademark “A B” in the trademark clearinghouse. The trademark is protected in the United States where English is the national language. The following domain names would be automatically generated:

<table>
<thead>
<tr>
<th>Trademark</th>
<th>Domain Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>A B</td>
<td>AB</td>
</tr>
<tr>
<td></td>
<td>A-B</td>
</tr>
</tbody>
</table>

1. **Rule B:** A trademark holder records the trademark “A&B” in the trademark clearinghouse. The trademark is protected in the United States where English is the national language. The following domain names will be automatically generated:

<table>
<thead>
<tr>
<th>Trademark</th>
<th>Domain Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>A&amp;B</td>
<td>AB</td>
</tr>
<tr>
<td></td>
<td>A-B</td>
</tr>
<tr>
<td></td>
<td>AandB</td>
</tr>
</tbody>
</table>

2. **Rule C:** A trademark holder records his trademark “A!B” in the trademark clearinghouse. The trademark is protected in the United States where English is the national language. The following domain names will be automatically generated:

<table>
<thead>
<tr>
<th>Trademark</th>
<th>Domain Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>A!B</td>
<td>AB</td>
</tr>
<tr>
<td></td>
<td>A-B</td>
</tr>
</tbody>
</table>
Trademarks are most likely to be constituted of a mixture of spaces, letters, and special characters. In the event that a trademark holder records the trademark “AB & CD Y!” in the Trademark Clearinghouse and the trademark is protected in the United States where English is the national language, the following domain names will be automatically generated:

<table>
<thead>
<tr>
<th>Trademark</th>
<th>Domain Names</th>
<th>Domain Names</th>
<th>Domain Names</th>
<th>Domain Names</th>
</tr>
</thead>
<tbody>
<tr>
<td>“AB &amp; CD Y!”</td>
<td>ABCDY</td>
<td>ABandCD-Y</td>
<td>ABandCDY</td>
<td>AB-CDY</td>
</tr>
<tr>
<td>AB---CD-Y</td>
<td>AB---CDY</td>
<td>ABCD-Y</td>
<td>AB---CDY</td>
<td></td>
</tr>
<tr>
<td>AB—CD-Y</td>
<td>AB—CDY</td>
<td>AB---CDY</td>
<td>AB—CD-Y</td>
<td></td>
</tr>
<tr>
<td>AB-CD-Y</td>
<td>AB-CDY</td>
<td>AB—CDY</td>
<td>ABandCDY</td>
<td></td>
</tr>
</tbody>
</table>

In addition, this set of rules will generate more matching domain names when a trademark holder records regionally protected trademark. For example, a trademark registered within the European Community where more than 33 official languages are applicable, could lead to more than 100 matching domain names.

The latter has an impact on the clearinghouse itself thus the costs and on the user experience. Furthermore, trademark holders may not want all these variations.

2. **Implementation Approach**

The purpose of the Trademark Clearinghouse is to provide rights holders with a mechanism to protect their trademarks in the DNS in a cost-efficient manner. The Clearinghouse is only required to use those exact matches which are affirmatively selected by the rights holder for the mandatory rights protection mechanisms.

Pricing for multiple matches is within the discretion of the Clearinghouse.

3. **Rule “B” translations**

In accordance to ICANN’s “Rule B”, translations are language specific. Consequently, a canonical listing of translations needs to be established. The provider will provide a list of the official languages and the translations
of the “&” and “@” and that list will be published prior to operational deployment.

### 7. Database Requirements Area

The technical requirements to support the database are enumerated in the chart below.

<table>
<thead>
<tr>
<th>ID</th>
<th>Sub-Topic</th>
<th>Requirement</th>
<th>Additional Clarification</th>
</tr>
</thead>
<tbody>
<tr>
<td>4.7A</td>
<td>Availability</td>
<td>The Clearinghouse database administrator shall provide 24-hour accessibility seven days a week.</td>
<td></td>
</tr>
<tr>
<td>4.7B</td>
<td>Reliability</td>
<td>The Clearinghouse database administrator shall employ systems that are technically reliable and secure.</td>
<td>While communication protocols are reasonably fault-tolerant and with only a limited amount of time-sensitivity, the systems must implement a high degree of resilience and survivability against technical faults and failures.</td>
</tr>
<tr>
<td>4.7C</td>
<td>Scalability</td>
<td>The Clearinghouse database administrator and validator shall use globally accessible and scalable systems so that multiple marks from multiple sources in multiple languages can be accommodated and sufficiently cataloged.</td>
<td></td>
</tr>
</tbody>
</table>
### 8. User Interfaces Requirements Area

The technical requirements to support user interfaces are enumerated in the chart below.

<table>
<thead>
<tr>
<th>ID</th>
<th>Sub-Topic</th>
<th>Requirement</th>
<th>Additional Clarification</th>
</tr>
</thead>
<tbody>
<tr>
<td>4.8.A</td>
<td>Contact Registration</td>
<td>Interface must accept Unicode inputs.</td>
<td></td>
</tr>
<tr>
<td>4.8.B</td>
<td>Trademark Registration</td>
<td>Trademarks must be received in Unicode and must be available for Clearinghouse operations in an IDNA2008-compliant manner.</td>
<td></td>
</tr>
</tbody>
</table>

### 9. System Interfaces Requirements Area

The technical requirements to support system interfaces are enumerated in the chart below.

<table>
<thead>
<tr>
<th>ID</th>
<th>Sub-Topic</th>
<th>Requirement</th>
<th>Additional Clarification</th>
</tr>
</thead>
<tbody>
<tr>
<td>4.9A</td>
<td>Data Synchronization</td>
<td>Implement using rsync over ssh to synchronize sunrise and claims data between the Clearinghouse and registry, and to transmit &lt;ack&gt; and &lt;audit&gt; records to the Clearinghouse in timed batches.</td>
<td></td>
</tr>
</tbody>
</table>

### 10. Operational Requirements Area

The technical requirements to support operational requirements are enumerated in the chart below.

<table>
<thead>
<tr>
<th>ID</th>
<th>Sub-Topic</th>
<th>Requirement</th>
<th>Additional Clarification</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### 4.10A Status Monitoring and Reporting
Staffing must be modeled around 24x7x365 on-call support.

### 4.10B Multi-currency
Allow for multiple currencies, with exact implementation details to be determined.

### 4.10C Multi-language
Allow for multiple languages, with exact implementation details to be determined.

### 11. **Technical Standards Requirements Area**

The technical requirements to support operational requirements are enumerated in the chart below.

<table>
<thead>
<tr>
<th>ID</th>
<th>Sub-Topic</th>
<th>Requirement</th>
<th>Additional Clarification</th>
</tr>
</thead>
<tbody>
<tr>
<td>4.11A</td>
<td>Communication Protocols</td>
<td>Communications that transfer data from the Clearinghouse to a registry will be initiated by the registry, using Rsync over an SSH transport. The Clearinghouse and registry will agree on an appropriate method to obtain SSH keys for purposes of authentication.</td>
<td></td>
</tr>
<tr>
<td>4.11B</td>
<td>Communication Protocols</td>
<td>Communication that transfers data from a registry to the Clearinghouse will also be initiated by the registry, using Rsync over an SSH transport. The Clearinghouse and registry will agree on an appropriate method to obtain SSH keys for purposes of authentication.</td>
<td></td>
</tr>
</tbody>
</table>
### 12. Billing Requirements Area

The technical requirements to support billing are enumerated in the chart below.

<table>
<thead>
<tr>
<th>ID</th>
<th>Requirement</th>
<th>Additional Clarification</th>
</tr>
</thead>
<tbody>
<tr>
<td>4.12A</td>
<td>The system must accept transactions sourced in a wide variety of currencies. It should accept transactions in any currency accepted by any accredited ICANN registrar.</td>
<td>There are ICANN-accredited registrars in approximately 60 countries.</td>
</tr>
<tr>
<td>4.12B</td>
<td>Billing disputes must be able to be handled by a customer service function.</td>
<td></td>
</tr>
</tbody>
</table>

### 13. Data Escrow Requirements Area
The purpose of data escrow is to permit quick resumption of Clearinghouse services by another technical operator following a catastrophic failure that prevents the Clearinghouse from meeting its service level commitments. Due to the unique characteristics of the Clearinghouse, escrow requirements may mature as implementation progresses. The form of the escrow agreements and the escrow provider must be approved by ICANN.

<table>
<thead>
<tr>
<th>ID</th>
<th>Requirement</th>
<th>Additional Clarification</th>
</tr>
</thead>
<tbody>
<tr>
<td>4.13A</td>
<td>All software used in the Clearinghouse, regardless of its classification, must be deposited into escrow before being put into production use.</td>
<td></td>
</tr>
<tr>
<td>4.13B</td>
<td>All custom modifications to any software, including configurations, must be deposited into escrow before being cut into production use.</td>
<td></td>
</tr>
<tr>
<td>4.13C</td>
<td>Any data that received or generated by the Clearinghouse and is used for Clearinghouse services must be escrowed. This data escrow must occur within 24 hours of receipt or generation of the data.</td>
<td>Customer service records may be excluded from escrow requirements.</td>
</tr>
</tbody>
</table>
Appendix: Cross-Functional Responsibility Charts
Sunrise Process Flow

<table>
<thead>
<tr>
<th>Domain Applicant</th>
<th>Registrar</th>
<th>Registry</th>
<th>TMCH</th>
<th>Mark Holder</th>
</tr>
</thead>
<tbody>
<tr>
<td>Request domain w/ sunrise code</td>
<td>Check domain availability</td>
<td>Issue domain &lt;create&gt; command with sunrise code</td>
<td>Initiate sunrise period</td>
<td>Generate sunrise codes</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Retrieve Sunrise code data</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Notify mark holders of new sunrise codes (and sunrises)</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Confirm Sunrise code</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Check eligibility requirements</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Create domain</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Notify Clearinghouse of create and sunrise code</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Record data, send sunrise registration notice</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Receive sunrise registration notice</td>
<td></td>
</tr>
</tbody>
</table>
ICANN-approved Declaration of Use (English)

The [Trademark Holder/Licensee/Agent] hereby certifies that the information submitted to the Clearinghouse, is, to the best of [Trademark Holder/Licensee/Agent’s] knowledge complete and accurate, that the trademarks set forth in this submission are currently in use in the manner set forth in the accompanying specimen, in connection with the class of goods or services specified when this submission was made to the Trademark Clearinghouse; that this information is not being presented for any improper purpose; and that if, at any time, the information contained in this submission is no longer accurate, the [Trademark Holder/Licensee/Agent] will notify the Clearinghouse within a reasonable time of that information which is no longer accurate, and to the extent necessary, provide that additional information necessary for the submission to be accurate. Furthermore, if any Clearinghouse-verified mark subsequently becomes abandoned by the holder, the holder will notify the Clearinghouse within a reasonable time that the mark has been abandoned.

Note that this language will be provided in English and (as translated by the Clearinghouse provider) the language of the registration agreements.
ICANN-Approved Trademark Claims Notice (English)

TRADEMARK NOTICE

You have received this Trademark Notice because you have applied for a domain name which matches at least one trademark record submitted to the Trademark Clearinghouse. You may or may not be entitled to register the domain name depending on your intended use and whether it is the same or significantly overlaps with the trademarks listed below.

Your rights to register this domain name may or may not be protected as noncommercial use or “fair use” by the laws of your country.

Please read the trademark information below carefully, including the trademarks, jurisdictions, and goods and service for which the trademarks are registered. Please be aware that not all jurisdictions review trademark applications closely, so some of the trademark information below may exist in a national or regional registry which does not conduct a thorough or substantive review of trademark rights prior to registration.

If you have questions, you may want to consult an attorney or legal expert on trademarks and intellectual property for guidance.

If you continue with this registration, you represent that, you have received and you understand this notice and to the best of your
knowledge, your registration and use of the requested domain name will not infringe on the trademark rights listed below.

The following [number] Trademarks are listed in the Trademark Clearinghouse:

Note that this language will be provided in English and (as translated by the Clearinghouse provider) the language of the registration agreements.
Appendix: References


Trademark Clearinghouse Implementation Assistance Group Meetings. (15 Nov 2012-9 Mar 2012. Available at https://community.icann.org/display/cctrdmrkclrmgshsiag/Home


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Attachment 2 – Fee Specification

During the term of the Agreement, ICANN will use commercially reasonable efforts to assign at least one Trademark Clearinghouse Validator at all times, starting no later than one week after signing of this Database SOW, who will make use of the TMCH Database Platform as a repository for the outcome of the Trademark Clearinghouse Validation Function of the Trademarks the Trademark Clearinghouse Validator receives from Trademark Holders and Trademark Agents.

Fees

IBM will charge each Trademark Clearinghouse Validator appointed by ICANN a fee of $11.00 USD (United States dollars) per year per Trademark record (including all Data Field Content related thereto) (the “Fee”) submitted for inclusion in the TMCH Database Platform by such Trademark Clearinghouse Validator (whether or not such records are subsequently removed from the TMCH Database Platform by such Trademark Clearinghouse Validator or otherwise). The Fee excludes applicable taxes, duties, fees and other governmental charges (including sales, turnover, services, use and value-added taxes, but excluding taxes based on the net income of IBM) (collectively referred to herein, as “Taxes”). Payment of the applicable Fees and Taxes related thereto will be due from Trademark Clearinghouse Validators in pre-payment in USD by wire transfer of immediately available funds or other electronic means acceptable to IBM, in each case, to an account specified by IBM. Registration of Trademarks from a Trademark Clearinghouse Validator will not be accepted by IBM into the TMCH Database Platform unless payment of the applicable Fees and Taxes have been received in full from such Trademark Clearinghouse Validator. IBM will charge each Trademark Clearinghouse Validator for the total sum of any multi-year registration as pre-payment at the time of the initial submission for inclusion in the TMCH Database Platform (i.e., if a Trademark Holder has chosen to register a Trademark for five years with a Trademark Clearinghouse Validator, IBM will charge the Trademark Clearinghouse Validator $55.00 USD as pre-payment for inclusion in the TMCH Database Platform). Trademarks which are registered by a Trademark Clearinghouse Validator who is no longer authorized by ICANN will be kept in the TMCH Database Platform for the period for which they have been paid for. IBM may not charge Trademark Clearinghouse Validators or any other third party any fee or other charge not specified in this Fee Specification related to the Database Services.

Fund

Once the aggregate number of Trademark records included in the TMCH Database Platform by all Trademark Clearinghouse Validators (whether or not such records are subsequently removed from the TMCH Database Platform by any Trademark Clearinghouse Validator or otherwise) (the “Number of Database Registrations”) equals 500,000 Trademarks, IBM will allocate $4.00 USD to a cash fund to be maintained by IBM (the “Fund”) for each Trademark record subsequently submitted for inclusion in the TMCH Database by any Trademark Clearinghouse Validator, until such time as the Number of Database Registrations equals 750,000 (inclusive). Thereafter, once the Number of Database Registrations equals 750,000
Trademarks, IBM will allocate an amount equal to $7.00 USD to the Fund for each Trademark record subsequently included in the TMCH Database Platform by any Trademark Clearinghouse Validator, until such time as the Number of Database Registrations equals 2,500,000 (inclusive). Thereafter, once the Number of Database Registrations equals 2,500,000 Trademarks (whether or not such records are subsequently removed from the TMCH Database Platform by any Trademark Clearinghouse Validator or otherwise), IBM will allocate an amount equal to $8.00 USD to the Fund for each Trademark record subsequently included in the TMCH Database Platform by any Trademark Clearinghouse Validator. The Fund shall be maintained by IBM (interest accrued thereon shall be added to the Fund and shall accrue pursuant to IBM’s internal policies and practices). IBM agrees to allocate and/or disburse part or all of the then available amounts in the Fund in accordance with the written instructions of ICANN (such allocations and disbursements may include: technology investments; hardware or software acquisitions and system upgrades, services, in each case, by or on behalf of ICANN, acquired from or through IBM; discounting the Fees paid by Trademark Clearinghouse Validators for the Database Services; and discounting the fees or costs associated with sunrise and trademark claims Services); provided, however, that in no event will ICANN allocate amounts from the Fund towards refunds or rebates to Trademark Clearinghouse Validators for Fees or Taxes that have previously been collected by IBM. The Fund and usage of the Fund will survive the expiration or termination of the Agreement for a period of twelve months following the effective date of any such expiration or termination.

For purposes of calculating each of the thresholds set forth above, the Number of Database Registrations at any point in time shall be calculated as follows: (i) for each Trademark for which a one year registration with the Trademark Clearinghouse is purchased or renewed, each such registration (i.e. purchase or renewal) shall count as one Trademark record included in the Trademark Clearinghouse, and (ii) for each registration for which a multiple year registration with the Trademark Clearinghouse is purchased or renewed, each such year of purchased or renewed registrations shall count immediately as a Trademark record included in the Trademark Clearinghouse (for example, if a Trademark Holder or Trademark Agent registers a Trademark and purchases a five year registration, such registration shall count immediately as five registrations for purposes of calculating the Number of Database Registrations).

Taxes

All Taxes which are imposed by or under the authority of any government or any political subdivision thereof on the Fees for any services, software and/or hardware shall be borne by the Trademark Clearinghouse Validator and shall not be considered a part of, a deduction from or an offset against, such Fees. All payments due to IBM shall be made without any deduction or withholding on account of any Taxes except as required by law, in which case, the sum payable by the Trademark Clearinghouse Validator from which such deduction or withholding is to be made shall be increased to the extent necessary to ensure that, after making such deduction or withholding, IBM receives and retains (free from any liability with respect thereof) a net sum equal to the sum of the Fees it would have received but for such deduction or withholding being required.
Trademark Clearinghouse Validators are to warrant to IBM that they will provide their tax status and an overview of all required Taxes which apply to transactions between the Trademark Clearinghouse Validator and IBM for the Services described in this Database SOW.

IBM will pay all:

1. personal property, sales, value-added, and use taxes on IBM's personal property; and
2. taxes, assessments, and other levies on IBM's owned, leased, rented, or purchased real property.
Attachment 3 – Data Escrow Specifications

To be negotiated in good faith following the signing of this Database SOW pursuant to Section 3.1(c).
Attachment 4 – Form of Client Status Report

Using this template
The text in blue italics is for guidance in completing the report and should be deleted on completion of the report.

Project schedules

The following project schedules (levels 1 and 2) are attached or are forwarded with this report.

<table>
<thead>
<tr>
<th>or work description</th>
<th>he</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Significant changes to the schedules since the last report are:
• Briefly list any changes to level 1 or 2 scheduled or expected dates since the last report, and the reasons for the changes

Project status

This section is used to summarize the status of the project. This may contain a single paragraph that provides a snap-shot of the project’s status and performance over the reporting period. The content should reflect the requirements of the recipient.

Other suggested topics may include:
• Progress since last report: include tasks completed, tasks in progress, tasks finishing late and tasks starting late. You may wish to use a table that includes the following fields: Schedule, Task Name, Status, Comments and Impact
• Critical path construction tasks: include tasks, baseline date, outlook date last week, outlook date this week, ahead, on or behind target, functional team.
• Project assumptions: include user requirements specifications, project implementation pilot commencement dates, requirements analysis, design, build and test activities, and so on
• Metric information: include status of service request, deployment or any other result indicators

The following subsections may also be included:
Milestones and deliverables achieved or missed
• Briefly describe project schedule progress. For example, upcoming deliverables and milestones achieved or missed for the reporting time period

Highlights
• Briefly describe significant achievements or other events that have occurred since the last report on this project, but do not repeat what has already been stated (about five dot points)
Project Change Requests

- **Number**: Enter the number of change requests that have been received, and subsequently accepted, rejected, or deferred, or are still in the process of being assessed.
- **Effort Impact**: Enter the estimated effort in hours required to implement the change to acceptance. Required for time & materials projects or internal projects only.
- **Price Impact**: Enter the quoted price for implementing a change on a fixed price project. In the case of an accepted change, the agreed price.

<table>
<thead>
<tr>
<th>Status</th>
<th>Number</th>
<th>Effort Impact (est. hours, for T&amp;M or internal projects)</th>
<th>Price Impact (fixed price project)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Received To Date</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Accepted</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rejected</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Deferred</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Still In Process</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Issues**

Copy significant information that your client should know about from issue log.

<table>
<thead>
<tr>
<th>Issue Number</th>
<th>Date Raised</th>
<th>Description Of The Issue</th>
<th>Priority (H/M/L)</th>
<th>Assigned Action Manager</th>
<th>Date Next Review</th>
<th>Date Resolved</th>
<th>Comments</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Risk No.</th>
<th>Date Raised</th>
<th>Risk Name/Description</th>
<th>Risk Rating</th>
<th>Date Reported To Business Program Manager (if applicable)</th>
<th>Action Manager</th>
<th>Current Status</th>
<th>Date Resolved</th>
</tr>
</thead>
</table>

**Dependencies**

This section describes and monitors the dependencies of this project on activities outside its direct control.

<table>
<thead>
<tr>
<th>Dependency Number</th>
<th>Dependency Milestone</th>
<th>Action</th>
<th>Requestor</th>
<th>Owner</th>
<th>Need Date</th>
<th>Commit Date</th>
<th>Status &amp; Comments</th>
</tr>
</thead>
</table>
### Action items

*This section records and monitors actions required to be carried out on the project other than what is shown on the schedule. Generally these actions result from earlier reviews. Copy significant information from issue and risk logs.*

<table>
<thead>
<tr>
<th>Item No.</th>
<th>Cross Ref.</th>
<th>Description</th>
<th>Requestor</th>
<th>Owner</th>
<th>Need Date</th>
<th>Commit Date</th>
<th>Status &amp; Comments</th>
</tr>
</thead>
</table>

### Entry and exit criteria

*This section acts as a checklist for completion of level 1 and 2 milestones:*

- **Milestone**: Name of the milestone to which the entry and exit criteria are related. Each level 1 or 2 milestone for the project should appear in this table.

- **Entry Criteria Description**: Describe actions or deliverables that must be complete before the work associated with the milestone can commence.

- **Exit Criteria Description**: Describe actions or deliverables that must be complete before the milestone is achieved. For example, ‘Test results signed off by client’ and ‘Test environment decommissioned’.

### Planned activities for next reporting period

*This section may be used to highlight planned activities for the coming reporting period, including:*

- Major deliverables planned or due for next reporting period
- Milestones or tasks forecast
- General ideas, comments, outlook for the project
- Miscellaneous information

### Attachments

*This section may be used to attach relevant documents that may be required by ICANN. Typical attachments may include:*

- Project Management Plan
- Financial Reports
- Detailed work schedules
- Minutes of significant meetings held in the past month
- Copies of significant correspondence