

## 2023 GLOBAL AMENDMENT TO REGISTRY AGREEMENTS

This 2023 Global Amendment to Registry Agreements (this “**2023 Amendment**”), effective as of [●], amends the registry agreements listed on Schedule A (the “**Applicable Registry Agreements**”) entered into between Internet Corporation for Assigned Names and Numbers, a California nonprofit public benefit corporation (“**ICANN**”), and the Applicable Registry Operators party to such Applicable Registry Agreements. This 2023 Amendment is made and is effective pursuant to Section 7.7 of the Applicable Registry Agreements. Capitalized terms used and not defined in this 2023 Amendment will have the respective meanings given thereto in the Applicable Registry Agreements.

WHEREAS, the Applicable Registry Agreements may be amended pursuant to the requirements of and process set forth in Section 7.7 of the Applicable Registry Agreements;

WHEREAS, ICANN and the Working Group have consulted in good faith regarding the form and substance of this 2023 Amendment;

WHEREAS, ICANN has publicly posted this 2023 Amendment on its website for no less than 30 calendar days and has provided notice of this 2023 Amendment to the Applicable Registry Operators in accordance with Section 7.9 of the Applicable Registry Agreements;

WHEREAS, ICANN and the Working Group have considered the public comments submitted on this 2023 Amendment during the Posting Period;

WHEREAS, on [●], this 2023 Amendment was approved by the ICANN Board of Directors;

WHEREAS, on [●], this 2023 Amendment received Registry Operator Approval;

WHEREAS, on [●], ICANN provided the Applicable Registry Operators with notice that this 2023 Amendment was an Approved Amendment (the “2023 Amendment Notice Date”); and

WHEREAS, pursuant to Section 7.7(c) of the Applicable Registry Agreements, this 2023 Amendment will, without any further action by ICANN or the Applicable Registry Operators, be effective and deemed an amendment to the Applicable Registry Agreements on [●] (the “2023 Amendment Effective Date”), the date that is 60 calendar days from the 2023 Amendment Notice Date.

NOW, THEREFORE, in consideration of the above recitals acknowledged herein by reference, this 2023 Amendment will be deemed an effective amendment to each of the Applicable Registry Agreements as of the 2023 Amendment Effective Date.

1. Section 2.1 is hereby amended and restated in its entirety as follows:

**2.1 Approved Services; Additional Services.** Registry Operator shall be entitled to provide the Registry Services described in clauses (a) and (b) of

the first paragraph of Section 2.1 in the Specification 6 attached hereto (“Specification 6”) and such other Registry Services set forth on Exhibit A (collectively, the “Approved Services”). If Registry Operator desires to provide any Registry Service that is not an Approved Service or is a material modification to an Approved Service (each, an “Additional Service”), Registry Operator shall submit a request for approval of such Additional Service pursuant to the Registry Services Evaluation Policy at <https://www.icann.org/rsep>, as such policy may be amended from time to time in accordance with the bylaws of ICANN (as amended from time to time, the “ICANN Bylaws”) applicable to Consensus Policies (the “RSEP”). Registry Operator may offer Additional Services only with the written approval of ICANN, and, upon any such approval, such Additional Services shall be deemed Registry Services under this Agreement. In its reasonable discretion, ICANN may require an amendment to this Agreement reflecting the provision of any Additional Service which is approved pursuant to the RSEP, which amendment shall be in a form reasonably acceptable to the parties.

2. Section 2.2 is hereby amended and restated in its entirety as follows:

**2.2 Compliance with Consensus Policies and Temporary Policies.**

Registry Operator shall comply with and implement all Consensus Policies and Temporary Policies found at <https://www.icann.org/consensus-policies>, as of the Effective Date and as may in the future be developed and adopted in accordance with the ICANN Bylaws, provided such future Consensus Policies and Temporary Policies are adopted in accordance with the procedure and relate to those topics and subject to those limitations set forth in Specification 1 attached hereto (“Specification 1”).

3. Section 2.9(a) is hereby amended and restated in its entirety as follows:

(a) All domain name registrations in the TLD must be registered through an ICANN accredited registrar; provided, that Registry Operator need not use a registrar if it registers names in its own name in order to withhold such names from delegation or use in accordance with Section 2.6. Subject to the requirements of Specification 11, Registry Operator must provide non-discriminatory access to Registry Services to all ICANN accredited registrars that enter into and are in compliance with the registry-registrar agreement for the TLD; provided that Registry Operator may establish non-discriminatory criteria for qualification to register names in the TLD that are reasonably related to the proper functioning of the TLD. Registry Operator must use a uniform non-discriminatory agreement with all registrars authorized to register names in the TLD (the “Registry-Registrar Agreement”). Registry Operator may amend the Registry-Registrar Agreement from time to time; provided, however, that any material revisions thereto must be approved by ICANN before any such revisions become effective and binding on any registrar. Registry Operator will provide ICANN and all registrars authorized to register names in the TLD at least fifteen

(15) calendar days written notice of any revisions to the Registry-Registrar Agreement before any such revisions become effective and binding on any registrar. During such period, ICANN will determine whether such proposed revisions are immaterial, potentially material or material in nature. If ICANN has not provided Registry Operator with notice of its determination within such fifteen (15) calendar-day period, ICANN shall be deemed to have determined that such proposed revisions are immaterial in nature. If ICANN determines, or is deemed to have determined under this Section 2.9(a), that such revisions are immaterial, then Registry Operator may adopt and implement such revisions. If ICANN determines such revisions are either material or potentially material, ICANN will thereafter follow its procedure regarding review and approval of changes to Registry-Registrar Agreements at <https://www.icann.org/rra-amendment-procedure>, and such revisions may not be adopted and implemented until approved by ICANN. Notwithstanding the foregoing provisions of this Section 2.9(a), any change to the Registry-Registrar Agreement that relates exclusively to the fee charged by Registry Operator to register domain names in the TLD will not be subject to the notice and approval process specified in this Section 2.9(a), but will be subject to the requirements in Section 2.10 below.

4. Section 2.13 is hereby amended and restated in its entirety as follows:

**2.13 Emergency Transition.** Registry Operator agrees that, in the event that any of the emergency thresholds for registry functions set forth in Section 6 of Specification 10 is reached, ICANN may designate an emergency interim registry operator of the registry for the TLD (an “Emergency Operator”) in accordance with ICANN’s registry transition process (available at <https://www.icann.org/registry-transition-processes>) (as the same may be amended from time to time, the “Registry Transition Process”) until such time as Registry Operator has demonstrated to ICANN’s reasonable satisfaction that it can resume operation of the registry for the TLD without the reoccurrence of such failure. Following such demonstration, Registry Operator may transition back into operation of the registry for the TLD pursuant to the procedures set out in the Registry Transition Process, provided that Registry Operator pays all reasonable costs incurred (i) by ICANN as a result of the designation of the Emergency Operator and (ii) by the Emergency Operator in connection with the operation of the registry for the TLD, which costs shall be documented in reasonable detail in records that shall be made available to Registry Operator. In the event ICANN designates an Emergency Operator pursuant to this Section 2.13 and the Registry Transition Process, Registry Operator shall provide ICANN or any such Emergency Operator with all data (including the data escrowed in accordance with Section 2.3) regarding operations of the registry for the TLD necessary to maintain operations and registry functions that may be reasonably requested by ICANN or such Emergency Operator. Registry Operator agrees that ICANN may make any changes it deems necessary to the IANA database with respect to the TLD in the event that an Emergency Operator is designated pursuant to this Section 2.13. In addition, in the event of such failure, ICANN

shall retain and may enforce its rights under the Continued Operations Instrument.

5. If the Applicable Registry Agreement is for a Community-Based TLD as was determined by ICANN at the time of execution of the Applicable Registry Agreement, Section 2.19 is hereby amended and restated in its entirety as follows:

**2.19 Obligations of Registry Operator to TLD Community.** Registry Operator shall establish registration policies in conformity with the application submitted with respect to the TLD for: (i) naming conventions within the TLD, (ii) requirements for registration by members of the TLD community, and (iii) use of registered domain names in conformity with the stated purpose of the community-based TLD. Registry Operator shall operate the TLD in a manner that allows the TLD community to discuss and participate in the development and modification of policies and practices for the TLD. Registry Operator shall establish procedures for the enforcement of registration policies for the TLD, and resolution of disputes concerning compliance with TLD registration policies, and shall enforce such registration policies. Registry Operator agrees to implement and be bound by the Registry Restrictions Dispute Resolution Procedure as set forth at <https://www.icann.org/rrdrp> with respect to disputes arising pursuant to this Section 2.19. Registry Operator shall implement and comply with the community registration policies set forth on Specification 12 attached hereto.

6. Section 3.3 is hereby amended and restated in its entirety as follows:

**3.3 TLD Nameservers.** ICANN will use commercially reasonable efforts to ensure that any changes to the TLD nameserver designations submitted to ICANN by Registry Operator (in a format and with required technical elements specified by ICANN at <https://www.iana.org/domains/root/> will be implemented by ICANN within seven (7) calendar days or as promptly as feasible following technical verifications.

7. Section 3.4 is hereby amended and restated in its entirety as follows:

**3.4 Root-zone Information Publication.** ICANN's publication of root-zone contact information for the TLD will include Registry Operator and its administrative and technical contacts. Any request to modify the contact information for the Registry Operator must be made in the format specified from time to time by ICANN at <https://www.iana.org/domains/root/>.

8. Unless the Applicable Registry Operator was determined by ICANN at the time of execution of an Applicable Registry Agreement to be an intergovernmental organization or governmental entity or other special circumstances entity, Section 4.5 is hereby amended and restated in its entirety as follows:

**4.5 Transition of Registry upon Termination of Agreement.** Upon expiration of the Term pursuant to Section 4.1 or Section 4.2 or any termination

of this Agreement pursuant to Section 4.3 or Section 4.4, Registry Operator shall provide ICANN or any successor registry operator that may be designated by ICANN for the TLD in accordance with this Section 4.5 with all data (including the data escrowed in accordance with Section 2.3) regarding operations of the registry for the TLD necessary to maintain operations and registry functions that may be reasonably requested by ICANN or such successor registry operator. After consultation with Registry Operator, ICANN shall determine whether or not to transition operation of the TLD to a successor registry operator in its sole discretion and in conformance with the Registry Transition Process; provided, however, that (i) ICANN will take into consideration any intellectual property rights of Registry Operator (as communicated to ICANN by Registry Operator) in determining whether to transition operation of the TLD to a successor registry operator and (ii) if Registry Operator demonstrates to ICANN's reasonable satisfaction that (A) all domain name registrations in the TLD are registered to, and maintained by, Registry Operator or its Affiliates for their exclusive use, (B) Registry Operator does not sell, distribute or transfer control or use of any registrations in the TLD to any third party that is not an Affiliate of Registry Operator, and (C) transitioning operation of the TLD is not necessary to protect the public interest, then ICANN may not transition operation of the TLD to a successor registry operator upon the expiration or termination of this Agreement without the consent of Registry Operator (which shall not be unreasonably withheld, conditioned or delayed). For the avoidance of doubt, the foregoing sentence shall not prohibit ICANN from delegating the TLD pursuant to a future application process for the delegation of top-level domains, subject to any processes and objection procedures instituted by ICANN in connection with such application process intended to protect the rights of third parties. Registry Operator agrees that ICANN may make any changes it deems necessary to the IANA database with respect to the TLD in the event of a transition of the TLD pursuant to this Section 4.5. In addition, ICANN or its designee shall retain and may enforce its rights under the Continued Operations Instrument for the maintenance and operation of the TLD, regardless of the reason for termination or expiration of this Agreement.

9. If the Applicable Registry Operator was determined by ICANN at the time of execution of an Applicable Registry Agreement to be an intergovernmental organization or governmental entity or other special circumstances entity, Section 4.5 is hereby amended and restated in its entirety as follows:

**4.5 Transition of Registry upon Termination of Agreement.** Upon expiration of the Term pursuant to Section 4.1 or Section 4.2 or any termination of this Agreement pursuant to Section 4.3 or Section 4.4, in connection with ICANN's designation of a successor registry operator for the TLD, Registry Operator and ICANN agree to consult each other and work cooperatively to facilitate and implement the transition of the TLD in accordance with this Section 4.5. After consultation with Registry Operator, ICANN shall determine whether or not to transition operation of the TLD to a successor registry operator in its sole discretion and in conformance with the Registry Transition Process. In the

event ICANN determines to transition operation of the TLD to a successor registry operator, upon Registry Operator's consent (which shall not be unreasonably withheld, conditioned or delayed), Registry Operator shall provide ICANN or such successor registry operator for the TLD with any data regarding operations of the TLD necessary to maintain operations and registry functions that may be reasonably requested by ICANN or such successor registry operator in addition to data escrowed in accordance with Section 2.3 hereof. In the event that Registry Operator does not consent to provide such data, any registry data related to the TLD shall be returned to Registry Operator, unless otherwise agreed upon by the parties. Registry Operator agrees that ICANN may make any changes it deems necessary to the IANA database with respect to the TLD in the event of a transition of the TLD pursuant to this Section 4.5. In addition, ICANN or its designee shall retain and may enforce its rights under the Continued Operations Instrument, regardless of the reason for termination or expiration of this Agreement.

10. Section 6.2 is hereby amended and restated in its entirety as follows:

**6.2 Cost Recovery for RSTEP.** Requests by Registry Operator for the approval of Additional Services pursuant to Section 2.1 may be referred by ICANN to the Registry Services Technical Evaluation Panel ("RSTEP") pursuant to that process at <https://www.icann.org/rsep>. In the event that such requests are referred to RSTEP, Registry Operator shall remit to ICANN the invoiced cost of the RSTEP review within fourteen (14) calendar days of receipt of a copy of the RSTEP invoice from ICANN, unless ICANN determines, in its sole and absolute discretion, to pay all or any portion of the invoiced cost of such RSTEP review.

11. Section 7.9 is hereby amended and restated in its entirety as follows; provided, however, that the notice information for each of the Applicable Registry Operators shall remain as set forth in each of the Applicable Registry Agreements or as updated pursuant to the terms of Section 7.9:

**7.9 General Notices.** Except for notices pursuant to Sections 7.6 and 7.7, all notices to be given under or in relation to this Agreement will be given either (i) in writing at the address of the appropriate party as set forth below or (ii) via electronic mail as provided below, unless that party has given a notice of change of postal or email address, as provided in this Agreement. All notices under Sections 7.6 and 7.7 shall be given by both posting of the applicable information on ICANN's web site and transmission of such information to Registry Operator by electronic mail. Any change in the contact information for notice below will be given by the party within thirty (30) calendar days of such change. Other than notices under Sections 7.6 or 7.7, any notice required by this Agreement will be deemed to have been properly given (i) if in paper form, when delivered in person or via courier service with confirmation of receipt or (ii) by electronic mail, upon confirmation of receipt by the recipient's email server, provided that such notice via electronic mail shall be followed by a copy sent by regular postal mail service within three (3) calendar days. Any notice required by Sections 7.6

or 7.7 will be deemed to have been given when electronically posted on ICANN's website and upon confirmation of receipt by the email server. In the event other means of notice become practically achievable, such as notice via a secure website, the parties will work together to implement such notice means under this Agreement.

If to ICANN, addressed to:  
Internet Corporation for Assigned Names and Numbers  
12025 Waterfront Drive, Suite 300  
Los Angeles, CA 90094-2536  
USA  
Telephone: +1-310-301-5800  
Attention: President and CEO

With a Required Copy to: General Counsel  
Email: (As specified from time to time.)

12. Section 7.13 is hereby amended and restated in its entirety as follows:

**7.13 Severability; Conflicts with Laws.** This Agreement shall be deemed severable; the invalidity or unenforceability of any term or provision of this Agreement shall not affect the validity or enforceability of the balance of this Agreement or of any other term hereof, which shall remain in full force and effect. If any of the provisions hereof are determined to be invalid or unenforceable, the parties shall negotiate in good faith to modify this Agreement so as to effect the original intent of the parties as closely as possible. ICANN and the Working Group will mutually cooperate to develop an ICANN procedure for ICANN's review and consideration of alleged conflicts between applicable laws and non-RDDS (as defined in Specification 4) related provisions of this Agreement. Until such procedure is developed and implemented by ICANN, ICANN will review and consider alleged conflicts between applicable laws and non-RDDS related provisions of this Agreement in a manner similar to ICANN's Procedure For Handling WHOIS Conflicts with Privacy Law.

13. The introductory paragraph of Exhibit A is hereby amended and restated in its entirety as follows:

The ICANN gTLD Applicant Guidebook (located at <https://newgtlds.icann.org/en/applicants/agb>) and the RSEP specify processes for consideration of proposed registry services. Registry Operator may provide any service that is required by the terms of this Agreement. In addition, the following services (if any) are specifically identified as having been approved by ICANN prior to the effective date of the Agreement, and Registry Operator may provide such services:

14. Section 3.1 of Part A of Specification 2 is hereby amended and restated in its

entirety as follows:

3.1 **Deposit’s Format.** Registry objects, such as domains, contacts, name servers, registrars, etc. will be compiled into a file constructed as described in RFC 8909, see Part A, Section 9, reference 1 of this Specification and RFC 9022, see Part A, Section 9, reference 2 of this Specification (collectively, the “DNDE Specification”). The DNDE Specification describes some elements as optional; Registry Operator will include those elements in the Deposits if they are available. UTF-8 character encoding will be used.

15. Section 9 of Part A of Specification 2 is hereby amended and restated in its entirety as follows:

9. **References.**

- (1) Registry Data Escrow Specification <https://www.rfc-editor.org/rfc/rfc8909.txt>
- (2) Domain Name Registration Data (DNRD) Objects Mapping, <https://www.rfc-editor.org/rfc/rfc9022.txt>
- (3) OpenPGP Message Format, <https://www.rfc-editor.org/rfc/rfc4880.txt>
- (4) OpenPGP parameters, <https://www.iana.org/assignments/pgp-parameters/pgp-parameters.xhtml>
- (5) ICANN Registry Interfaces, <https://datatracker.ietf.org/doc/draft-lozano-icann-registry-interfaces>

16. Field # 02 of Section 1 of Specification 3 is hereby amended and restated in its entirety as follows:

02	iana-id	For cases where the registry operator acts as registrar (i.e., without the use of an ICANN accredited registrar) either 9998 or 9999 should be used depending on registration type (as described in Specification 5), otherwise the sponsoring Registrar IANA id should be used as specified in <a href="https://www.iana.org/assignments/registrar-ids">https://www.iana.org/assignments/registrar-ids</a>
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17. Fields # 03, 04 and 05 of Section 2 of Specification 3 are hereby amended and restated in their entirety as follows:



03	whois-43-queries	number of WHOIS (port-43) queries responded during the reporting period; an empty value shall be used after the WHOIS Services Sunset Date (as defined in Specification 4) if the WHOIS (port 43) service is not provided after such date
04	web-whois-queries	number of web-based WHOIS queries responded during the reporting period, not including searchable WHOIS; an empty value shall be used after the WHOIS Services Sunset Date if the web-based WHOIS service is not provided after such date
05	searchable-whois-queries	number of searchable WHOIS queries responded during the reporting period; an empty value shall be used if searchable WHOIS service is not provided during the reporting period

18. A new Field # 38 of Section 2 of Specification 3 is hereby added as follows:

38	rdap-queries	number of RDAP queries responded during the reporting period
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19. The last paragraph of Section 2 of Specification 3 is hereby amended and restated in its entirety as follows:

For gTLDs that are part of a single-instance Shared Registry System: (1) the fields whois-43-queries, web-whois-queries, searchable-whois-queries and rdap-queries in the Registry Functions Activity Report should match the sum of queries reported for the gTLDs in the single-instance Shared Registry System, (2) in case of queries related to the fields in (1) above for which the Registry Operator cannot determine the TLD to count the query to (e.g., a registrar lookup query for a registrar operating in more than one TLD sharing the same RDAP base URL), registries have the flexibility to choose how to allocate those queries across the gTLDs utilizing the single-instance Shared Registry System, and (3) the Registry Functions Activity Report may include the total contact or host transactions for all the gTLDs in the system.

20. Section 1 of Specification 4 is hereby deleted in its entirety and replaced with the following:

**1. Registration Data Directory Services**

**1.1. Definitions.**

1.1.1 “Registration Data Access Protocol” or “RDAP” is an Internet protocol that provides “RESTful” web services to retrieve

registration metadata from Domain Name Registries and Regional Internet Registries.

- 1.1.2 “RDAP Directory Services” refers to a Registration Data Directory Service using the RDAP described in STD 95 (<https://www.rfc-editor.org/refs/ref-std95.txt>), and its successor standards.
- 1.1.3 “Registration Data Directory Services” or “RDDS” refers to the collective of WHOIS Data Directory Services (as defined in this Specification 4) and Registration Data Access Protocol (RDAP) Directory Services (as defined in this Specification 4).”
- 1.1.4 “WHOIS Data Directory Services” refers to the collective of WHOIS service available via port 43 in accordance with RFC 3912 and a web-based WHOIS service providing free public query-based access to registration data.
- 1.1.5 “RDAP Ramp-Up Period” means the period that ends [insert the date that is 180 days following the effectiveness of this Amendment].
- 1.1.6 “WHOIS Services Sunset Date” means the date that is 360 days after the expiration of the RDAP Ramp-Up Period, provided that ICANN and the Registries Stakeholder Group may mutually agree to postpone the WHOIS Services Sunset Date. If either the Chief Executive Officer of ICANN (“CEO”) or the Chairperson of the Registries Stakeholder Group (“Chair”) desires to discuss postponing the WHOIS Services Sunset Date, the CEO or Chair, as applicable, shall provide written notice to the other person, which shall set forth in reasonable detail the proposed postponement.

## 1.2. **RDAP Directory Services**

- 1.2.1 Registry Operator shall implement the most recent version of the RDAP Technical Implementation Guide and RDAP Response Profile posted at <https://icann.org/gtld-rdap-profile>. Registry Operator will implement new versions of the RDAP Technical Implementation Guide and RDAP Response Profile no later than one hundred eighty (180) calendar days after notification from ICANN.
- 1.2.2 Registry Operator shall provide lookup query support for:
  - (1) domain information as described in the section “Domain Path Segment Specification” of RFC 9082.

- (2) nameserver information as described in the section “Nameserver Path Segment Specification” of RFC 9082; provided, however, that Registry Operator shall not be required to (but may still choose to) support nameserver lookup if Registry Operator specifies name servers as domain attributes in EPP.
  - (3) registrar information as described in the section “Entity Path Segment Specification” of RFC 9082.
  - (4) help information as described in the section “Help Path Segment Specification” of RFC 9082.
- 1.2.3 ICANN reserves the right to specify alternative formats and protocols approved as “Internet Standards” (as opposed to Informational or Experimental standards) through the applicable IETF processes with respect to Registration Data. Upon such specification, ICANN shall: (a) work collaboratively with gTLD registries and ICANN-accredited registrars to define all operational requirements necessary to implement the applicable standard; and (b) if applicable, initiate negotiations to define all reporting requirements (if any), and reasonable service level requirements commensurate with similarly situated services.
- 1.3. **Searchability.** Offering searchability capabilities for the Registration Data is optional but if offered by the Registry Operator it shall comply with the specification described in this section.
- 1.3.1 Registry Operator will offer searchability as a web-based service.
  - 1.3.2 Registry Operator will offer partial match capabilities, on each of the following fields: domain name, contacts and registrant’s name, and contact and registrant’s postal address, including all the sub-fields described in EPP (e.g., street, city, state or province, etc.), and may offer partial match capabilities on other fields, in each case subject to applicable law.
  - 1.3.3 Registry Operator will offer exact-match capabilities, at least, on the following fields: Registrar ID, name server name, and name server’s IP address (only applies to IP addresses stored by the registry, i.e., glue records).
  - 1.3.4 Registry Operator will offer Boolean search capabilities supporting, at least, the following logical operators to join a set of search criteria: AND, OR, NOT.

- 1.3.5 Search results will include domain names matching the search criteria.
- 1.3.6 Registry Operator will: 1) implement appropriate measures to avoid abuse of this feature (e.g., permitting access only to legitimate authorized users); and 2) ensure the feature is in compliance with any applicable privacy laws and ICANN Consensus Policies and Temporary Policies.
- 1.3.7 Registry Operator shall only offer the searchability capabilities required in the RDAP Technical Implementation Guide and RDAP Response Profile in the RDAP Directory Services.

#### 1.4. WHOIS Data Directory Services.

- 1.4.1 Until the WHOIS Services Sunset Date, Registry Operator will operate a WHOIS service available via port 43 in accordance with RFC 3912, and a web-based WHOIS Service at <whois.nic.TLD> providing free public query-based access to at least the following elements in the following format.
- 1.4.2 The format of responses shall follow a semi-free text format outlined below, followed by a blank line and a legal disclaimer specifying the rights of Registry Operator, and of the user querying the database.
- 1.4.3 Each data object shall be represented as a set of key/value pairs, with lines beginning with keys, followed by a colon and a space as delimiters, followed by the value.
- 1.4.4 For fields where more than one value exists, multiple key/value pairs with the same key shall be allowed (for example to list multiple name servers). The first key/value pair after a blank line should be considered the start of a new record, and should be considered as identifying that record, and is used to group data, such as hostnames and IP addresses, or a domain name and registrant information, together.
- 1.4.5 The fields specified below set forth the minimum output requirements.
- 1.4.6 **Domain Name Data**
  - (1) **Query format:** whois EXAMPLE.TLD
  - (2) **Response format:**

Domain Name: EXAMPLE.TLD  
Registry Domain ID: D1234567-TLD  
Registrar WHOIS Server: whois.example.tld  
Registrar URL: http://www.example.tld  
Updated Date: 2009-05-29T20:13:00Z  
Creation Date: 2000-10-08T00:45:00Z  
Registry Expiry Date: 2010-10-08T00:44:59Z  
Registrar Registration Expiration Date: 2010-10-08T00:44:59Z  
Registrar: EXAMPLE REGISTRAR LLC  
Registrar IANA ID: 5555555  
Registrar Abuse Contact Email: email@registrar.tld  
Registrar Abuse Contact Phone: +1.123551234  
Reseller: EXAMPLE RESELLER<sup>1</sup>  
Domain Status: clientDeleteProhibited  
Domain Status: clientRenewProhibited  
Domain Status: clientTransferProhibited  
Domain Status: serverUpdateProhibited  
Registry Registrant ID: 5372808-ERL  
Registrant Name: EXAMPLE REGISTRANT  
Registrant Organization: EXAMPLE ORGANIZATION  
Registrant Street: 123 EXAMPLE STREET  
Registrant City: ANYTOWN  
Registrant State/Province: AP  
Registrant Postal Code: A1A1A1  
Registrant Country: EX  
Registrant Phone: +1.5555551212  
Registrant Phone Ext: 1234  
Registrant Fax: +1.5555551213  
Registrant Fax Ext: 4321  
Registrant Email: EMAIL@EXAMPLE.TLD  
Registry Admin ID: 5372809-ERL  
Admin Name: EXAMPLE REGISTRANT ADMINISTRATIVE  
Admin Organization: EXAMPLE REGISTRANT ORGANIZATION  
Admin Street: 123 EXAMPLE STREET  
Admin City: ANYTOWN  
Admin State/Province: AP  
Admin Postal Code: A1A1A1  
Admin Country: EX  
Admin Phone: +1.5555551212  
Admin Phone Ext: 1234  
Admin Fax: +1.5555551213  
Admin Fax Ext:  
Admin Email: EMAIL@EXAMPLE.TLD  
Registry Tech ID: 5372811-ERL  
Tech Name: EXAMPLE REGISTRAR TECHNICAL  
Tech Organization: EXAMPLE REGISTRAR LLC  
Tech Street: 123 EXAMPLE STREET  
Tech City: ANYTOWN  
Tech State/Province: AP  
Tech Postal Code: A1A1A1  
Tech Country: EX  
Tech Phone: +1.1235551234  
Tech Phone Ext: 1234  
Tech Fax: +1.5555551213  
Tech Fax Ext: 93  
Tech Email: EMAIL@EXAMPLE.TLD  
Name Server: NS01.EXAMPLEREGISTRAR.TLD  
Name Server: NS02.EXAMPLEREGISTRAR.TLD  
DNSSEC: signedDelegation  
DNSSEC: unsigned

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<sup>1</sup> Field is optional.

<sup>2</sup> Field is optional.

URL of the ICANN WHOIS Inaccuracy Complaint Form:  
<https://www.icann.org/wicf/>  
>>> Last update of WHOIS database: 2009-05-29T20:15:00Z <<<

#### 1.4.7 Registrar Data

(1) **Query format:** whois “registrar Example Registrar, Inc.”

(2) **Response format:**

Registrar: Example Registrar, Inc.  
Street: 1234 Admiralty Way  
City: Marina del Rey  
State/Province: CA  
Postal Code: 90292  
Country: US  
Phone Number: +1.3105551212  
Fax Number: +1.3105551213  
Email: registrar@example.tld  
Registrar WHOIS Server: whois.example-registrar.tld  
Registrar URL: <http://www.example-registrar.tld>  
Admin Contact: Joe Registrar  
Phone Number: +1.3105551213  
Fax Number: +1.3105551213  
Email: joeregistrar@example-registrar.tld  
Admin Contact: Jane Registrar  
Phone Number: +1.3105551214  
Fax Number: +1.3105551213  
Email: janeregistrar@example-registrar.tld  
Technical Contact: John Geek  
Phone Number: +1.3105551215  
Fax Number: +1.3105551216  
Email: johngeek@example-registrar.tld  
>>> Last update of WHOIS database: 2009-05-29T20:15:00Z <<<

#### 1.4.8 Nameserver Data:

(1) **Query format:** whois “nameserver (nameserver name)”, or whois “nameserver (IP Address).” For example: whois “nameserver NS1.EXAMPLE.TLD”.

(2) **Response format:**

Server Name: NS1.EXAMPLE.TLD  
IP Address: 192.0.2.123  
IP Address: 2001:0DB8::1  
Registrar: Example Registrar, Inc.  
Registrar WHOIS Server: whois.example-registrar.tld  
Registrar URL: <http://www.example-registrar.tld>  
>>> Last update of WHOIS database: 2009-05-29T20:15:00Z <<<

1.4.9 The format of the following data fields: domain status, individual and organizational names, address, street, city, state/province, postal code, country, telephone and fax numbers (the extension will be provided as a separate field as shown above), email addresses, date and times should conform to the mappings

specified in EPP RFCs 5730-5734 so that the display of this information (or values return in WHOIS responses) can be uniformly processed and understood.

**1.5. Whois Data Directory Services after the Whois Services Sunset Date.**

If Registry Operator continues to offer WHOIS Data Directory Services after the WHOIS Services Sunset Date the following requirements will apply:

- 1.5.1 If Registry Operator continues to offer a WHOIS service available via port 43, Registry Operator shall do so in accordance with RFC 3912.
- 1.5.2 Registry Operator shall submit a change request to the IANA functions operator updating any outdated or inaccurate WHOIS records of the TLD as described in Specification 6, Section 1.6.
- 1.5.3 Personal data included in registration data must be redacted in accordance with ICANN Consensus Policies and Temporary Policies;
- 1.5.4 Registry Operator must adhere to the requirements related to additional fields of the Consistent Labeling and Display Consensus Policy if they choose to add data fields.
- 1.5.5 If the Registry Operator provides less registration data in WHOIS Data Directory Services than that available in the RDAP Directory Services, Registry Operator must add the following disclaimer in the WHOIS output footer: “The registration data available in this service is limited. Additional data may be available at <https://lookup.icann.org>”.
- 1.5.6 After the WHOIS Services Sunset Date, in the event of a conflict between the WHOIS Data Directory Service requirements and Consensus Policies or any Temporary Policy effective after the WHOIS Services Sunset Date, the Consensus Policies or Temporary Policy shall control, but only with respect to subject matter in conflict.
- 1.5.7 Until such time that updates are made and effective for Consensus Policies and procedures pursuant to the Phase 1 GNSO Consensus Policy recommendations of the Expedited Policy Development Process on the Temporary Specification for gTLD Registration Data, adopted by the ICANN Board in May 2019, as of the WHOIS Services Sunset Date, the following terms in such policies will be interpreted as follows:

- (1) With the exception of “Searchable Whois” and the “Whois contact lookup service”, the following terms: “WHOIS”, “Whois”, “Whois service”, “Publicly accessible Whois”, and variations thereof shall be interpreted to refer to RDDS as defined in this Specification.
  - (2) “Whois data”, “WHOIS information”, “Whois contact information”, “WHOIS query data”, “WHOIS details”, “Whois output”, “Whois record”, “Whois entry”, and variations thereof shall be interpreted to refer to registration data as referenced in this Specification.
- 1.6. After the WHOIS Services Sunset Date, the terms in 1.5.7(1) and 1.5.7(2) above, included in Exhibit A and Specifications 11 and 12 will be interpreted as defined in 1.5.7(1) and 1.5.7(2).
- 1.7. **Cooperation with Transition Studies.** If ICANN initiates or commissions a study on the transition of WHOIS Data Directory Services to RDAP Directory Services, Registry Operator shall reasonably cooperate with such study, including by delivering to ICANN or its designee conducting such study, both quantitative and qualitative data related to its experience with its transition from WHOIS Data Directory Services to RDAP Data Directory Services. If the data request is beyond what the Registry Operator collects in the ordinary course of its operations and beyond the data that Registry Operator is required to collect and provide to ICANN org pursuant to this Agreement, Registry Operator should voluntarily cooperate to provide the requested information or provide an explanation to ICANN why the Registry Operator is not able to provide the requested information. The terms of this section do not require Registry Operator to provide data to ICANN that is beyond what Registry Operator is obligated to provide ICANN pursuant to other sections of this Agreement. Any data delivered to ICANN or its designee pursuant to this section that is appropriately marked as confidential pursuant to the confidentiality provisions of the Agreement shall be treated as Confidential Information of Registry Operator in accordance with the confidentiality provisions of the Agreement, provided that, notwithstanding the Agreement, if ICANN or its designee aggregates and makes anonymous such data, ICANN or its designee may disclose such data to any third party. Following completion of the transition study for which Registry Operator has provided data, ICANN will destroy all data provided by Registry Operator pursuant to this section that has not been aggregated and made anonymous.
- 1.8. **Policy and Educational Materials.** Registry Operator shall provide a link on the primary website for the TLD (i.e., the website provided to ICANN for publishing on the ICANN website) to a web page designated by ICANN containing RDDS policy and educational materials.



21. Section 2.1.1 of Specification 4 is hereby amended and restated in its entirety as follows:

2.1.1 **Zone File Access Agreement.** Registry Operator will enter into an agreement with any Internet user, which will allow such user to access an Internet host server or servers designated by Registry Operator and download zone file data. The agreement will be standardized, facilitated and administered by a Centralized Zone Data Access Provider, which may be ICANN or an ICANN designee (the “CZDA Provider”). Registry Operator (optionally through the CZDA Provider) will provide access to zone file data per Section 2.1.3 of this Specification and do so using the file format described in Section 2.1.4 of this Specification. Notwithstanding the foregoing, (a) the CZDA Provider may reject the request for access of any user that does not satisfy the credentialing requirements in Section 2.1.2 of this Specification; (b) Registry Operator may reject the request for access of any user that does not provide correct or legitimate credentials under Section 2.1.2 of this Specification or where Registry Operator reasonably believes will violate the terms of Section 2.1.5. of this Specification; and, (c) Registry Operator may revoke access of any user if Registry Operator has evidence to support that the user has violated the terms of Section 2.1.5 of this Specification.

22. Section 3.1 of Specification 4 is hereby amended and restated in its entirety as follows:

3.1. **Periodic Access to Thin Registration Data.** In order to verify and ensure the operational stability of Registry Services, analyze the operational stability of the DNS, and facilitate compliance checks on accredited registrars, Registry Operator will provide ICANN on a weekly basis (the day to be designated by ICANN) with up-to-date Registration Data as specified below. Data will include data committed as of 00:00:00 UTC on the day previous to the one designated for retrieval by ICANN.

On an annual basis, ICANN will publish a summary of the research projects that utilized this data in the preceding year, along with a listing of any organizations the raw data was shared with to conduct the research.

23. Section 3.1.1 of Specification 4 is hereby amended and restated in its entirety as follows:

3.1.1 **Contents.** Registry Operator will provide the following data for all registered domain names: domain name, domain name repository object id (roid), Registrar ID (IANA ID), statuses, last updated date, creation date, expiration date, and name server names. For sponsoring registrars Registry Operator will provide: registrar

name, registrar id (IANA ID), hostname of registrar WHOIS server (this data element may be omitted after the WHOIS Services Sunset Date), and URL of registrar. Registry Operator shall not provide any additional data elements.

24. Section 3.1.1 of Specification 5 is hereby amended and restated in its entirety as follows:

3.1.1 If Exhibit A to the Agreement specifically provides that Registry Operator may offer registration of IDNs, Registry Operator may also activate a language-specific translation or transliteration of the term "NIC" or an abbreviation for the translation of the term "Network Information Center" in the DNS in accordance with Registry Operator's IDN Tables and IDN Registration Rules. Such translation, transliteration or abbreviation may be reserved by Registry Operator and used in addition to the label NIC to provide any required registry functions. For the avoidance of doubt, Registry Operator is required to activate the ASCII label NIC pursuant to Section 3.1 of this Specification 5.

25. Section 4.1 of Specification 5 is hereby amended and restated in its entirety as follows:

4.1. the short form (in English) of all country and territory names contained on the ISO 3166-1 list, as updated from time to time, including the European Union, which is exceptionally reserved on the ISO 3166-1 list, and its scope extended in August 1999 to any application needing to represent the name European Union <https://www.iso.org/iso-3166-country-codes.html>;

26. Section 5 of Specification 5 is hereby amended and restated in its entirety as follows:

5. **International Olympic Committee; International Red Cross and Red Crescent Movement.** As instructed from time to time by ICANN, the names (including their IDN variants, where applicable) relating to the International Olympic Committee, International Red Cross and Red Crescent Movement listed at <https://www.icann.org/reserved-names> shall be withheld from registration or allocated to Registry Operator at the second level within the TLD. Additional International Olympic Committee, International Red Cross and Red Crescent Movement names (including their IDN variants) may be added to the list upon ten (10) calendar days notice from ICANN to Registry Operator. Such names may not be activated in the DNS, and may not be released for registration to any person or entity other than Registry Operator. Upon conclusion of Registry Operator's designation as operator of the registry for the TLD, all such names withheld from registration or allocated to Registry Operator shall be transferred as specified by ICANN. Registry Operator may self-

allocate and renew such names without use of an ICANN accredited registrar, which will not be considered Transactions for purposes of Section 6.1 of the Agreement.

27. Section 6 of Specification 5 is hereby amended and restated in its entirety as follows:

6. **Intergovernmental Organizations.** As instructed from time to time by ICANN, Registry Operator will implement the protections mechanism determined by the ICANN Board of Directors relating to the protection of identifiers for Intergovernmental Organizations. A list of reserved names for this Section 6 is available at <https://www.icann.org/reserved-names>. Additional names (including their IDN variants) may be added to the list upon ten (10) calendar days notice from ICANN to Registry Operator. Any such protected identifiers for Intergovernmental Organizations may not be activated in the DNS, and may not be released for registration to any person or entity other than Registry Operator. Upon conclusion of Registry Operator's designation as operator of the registry for the TLD, all such protected identifiers shall be transferred as specified by ICANN. Registry Operator may self-allocate and renew such names without use of an ICANN accredited registrar, which will not be considered Transactions for purposes of Section 6.1 of the Agreement.

28. Section 1.4 of Specification 6 is hereby amended and restated in its entirety as follows:

- 1.4. **IDN.** If the Registry Operator offers Internationalized Domain Names ("IDNs"), it shall comply with RFCs 5890, 5891, 5892, 5893 and their successors. Registry Operator shall comply with the ICANN IDN Guidelines at <https://www.icann.org/en/topics/idn/implementation-guidelines.htm>, as they may be amended, modified, or superseded from time to time. Registry Operator shall publish and keep updated its IDN Tables and IDN Registration Rules in the IANA Repository of IDN Practices.

29. Section 1.5 of Specification 6 is hereby amended and restated in its entirety as follows:

- 1.5. **IPv6.** Registry Operator shall be able to accept IPv6 addresses as glue records in its Registry System and publish them in the DNS. Registry Operator shall offer public IPv6 transport for, at least, two of the Registry's name servers listed in the root zone with the corresponding IPv6 addresses registered with IANA. Registry Operator should follow "DNS IPv6 Transport Operational Guidelines" as described in BCP 91 and the recommendations and considerations described in RFC 4472. Registry Operator shall offer in addition to IPv4 transport, public IPv6 transport for its Registration Data Directory Services as defined in

Specification 4 of this Agreement; e.g., WHOIS (RFC 3912), web-based WHOIS, and RDAP. Registry Operator shall offer public IPv6 transport for its Shared Registration System (SRS) to any Registrar, no later than six (6) months after receiving the first request in writing from a gTLD accredited Registrar willing to operate with the SRS over IPv6.

30. Section 1.6 of Specification 6 is hereby amended and restated in its entirety as follows:

1.6. **IANA Rootzone Database.** In order to ensure that authoritative information about the TLD remains publicly available, Registry Operator shall submit a change request to the IANA functions operator updating any outdated or inaccurate DNS, WHOIS or RDAP base URL of the RDAP service records of the TLD. Registry Operator shall use commercially reasonable efforts to submit any such change request no later than seven (7) calendar days after the date any such DNS, WHOIS or RDAP base URL of the RDAP service records becomes outdated or inaccurate. Registry Operator must submit all change requests in accordance with the procedures set forth at <https://www.iana.org/domains/root>.

31. Section 4.2 of Specification 6 is hereby amended and restated in its entirety as follows:

4.2. **Malicious Use of Orphan Glue Records.** Registry Operator shall take action to remove orphan glue records (as defined at <https://www.icann.org/en/committees/security/sac048.pdf>) when provided with evidence in written form that such records are present in connection with malicious conduct.

32. Section 6.2.2 of Specification 6 is hereby amended and restated in its entirety as follows:

6.2.2 Notwithstanding subsection 6.2.1, Registry Operator may proceed with activation of names in the DNS zone without implementation of the measures set forth in Section 6.2.1 only if (A) ICANN determines that the Registry TLD is eligible for this alternative path to activation of names; and (B) Registry Operator blocks all second-level domain names identified by ICANN and set forth at <https://newgtlds.icann.org/en/announcements-and-media/announcement-2-17nov13-en> as such list may be modified by ICANN from time to time. Registry Operator may activate names pursuant to this subsection and later activate names pursuant to subsection 6.2.1.

33. Section 6.2.3 of Specification 6 is hereby amended and restated in its entirety as follows:

6.2.3 The sets of names subject to mitigation or blocking pursuant to Sections 6.2.1 and 6.2.2 will be based on ICANN analysis of DNS information

including "Day in the Life of the Internet" data maintained by the DNS Operations, Analysis, and Research Center (DNS-OARC) <https://www.dns-oarc.net/oarc/data/ditl>.

34. Section 6.2.5 of Specification 6 is hereby amended and restated in its entirety as follows:

6.2.5 If ICANN determines that the TLD is ineligible for the alternative path to activation of names, ICANN may elect not to delegate the TLD pending completion of the final Name Collision Occurrence Assessment for the TLD, and Registry Operator's completion of all required mitigation measures. Registry Operator understands that the mitigation measures required by ICANN as a condition to activation of names in the DNS zone for the TLD may include, without limitation, mitigation measures such as those described in Section 3.2 of the New gTLD Name Collision Occurrence Management Plan approved by the ICANN Board New gTLD Program Committee (NGPC) on 7 October 2013 as found at <https://www.icann.org/en/groups/board/documents/resolutions-new-gtld-annex-1-07oct13-en.pdf>.

35. The first paragraph of Section 1 of Specification 7 is hereby amended and restated in its entirety as follows:

**1. Rights Protection Mechanisms.** Registry Operator shall implement and adhere to the rights protection mechanisms ("RPMs") specified in this Specification. In addition to such RPMs, Registry Operator may develop and implement additional RPMs that discourage or prevent registration of domain names that violate or abuse another party's legal rights. Registry Operator will include all RPMs required by this Specification 7 and any additional RPMs developed and implemented by Registry Operator in the Registry-Registrar Agreement entered into by ICANN-accredited registrars authorized to register names in the TLD. Registry Operator shall implement in accordance with requirements set forth therein each of the mandatory RPMs set forth in the Trademark Clearinghouse as of the date hereof, as posted at <https://www.icann.org/en/resources/registries/tmch-requirements> (the "Trademark Clearinghouse Requirements"), which may be revised in immaterial respects by ICANN from time to time. Registry Operator shall not mandate that any owner of applicable intellectual property rights use any other trademark information aggregation, notification, or validation service in addition to or instead of the ICANN-designated Trademark Clearinghouse. If there is a conflict between the terms and conditions of this Agreement and the Trademark Clearinghouse Requirements, the terms and conditions of this Agreement shall control. Registry Operator must enter into a binding and enforceable Registry-Registrar Agreement with at least one ICANN accredited registrar authorizing such registrar(s) to register domain names in the TLD as follows:

36. Section 2.a of Specification 7 is hereby amended and restated in its entirety as follows:

- a. the Trademark Post-Delegation Dispute Resolution Procedure (PDDRP) and the Registration Restriction Dispute Resolution Procedure (RRDRP) adopted by ICANN (posted at <https://www.icann.org/pddrp> and <https://www.icann.org/rrdrp>, respectively). Registry Operator agrees to implement and adhere to any remedies ICANN imposes (which may include any reasonable remedy, including for the avoidance of doubt, the termination of the Registry Agreement pursuant to Section 4.3(e) of the Agreement) following a determination by any PDDRP or RRDRP panel and to be bound by any such determination; and

37. Section 2.b of Specification 7 is hereby amended and restated in its entirety as follows:

- b. the Uniform Rapid Suspension system (“URS”) adopted by ICANN (posted at <https://www.icann.org/urs>), including the implementation of determinations issued by URS examiners.

38. Section 1.6 of Specification 10 is hereby deleted in its entirety and replaced with the following:

1.6. **[Intentionally Omitted]**

39. A new Section 1.9 of Specification 10 is hereby added as follows:

- 1.9. **RDAP-RDDS.** Refers to the Registration Data Access Protocol (RDAP) Directory Services as defined in Specification 4 of this Agreement.

40. A new Section 1.10 of Specification 10 is hereby added as follows:

- 1.10. **WHOIS-RDDS and WHOIS Data Directory Services.** Refers to the collective of WHOIS and web-based WHOIS services as defined in Specification 4 of this Agreement.

41. Section 2 of Specification 10 is hereby deleted in its entirety and replaced with the following:

2. **Service Level Agreement Matrix**

- 2.1. With respect to the TLD, Registry Operator shall meet or exceed each of the following SLRs related to the DNS, EPP and RDAP-RDDS\* services:

	Parameter	SLR (monthly basis)
<b>DNS</b>	DNS service availability	0 min downtime = 100% availability
	DNS name server availability	≤ 432 min of downtime (≈ 99%)
	TCP DNS resolution RTT	≤ 1500 ms, for at least 95% of the queries
	UDP DNS resolution RTT	≤ 500 ms, for at least 95% of the queries
	DNS update time	≤ 60 min, for at least 95% of the probes
<b>EPP</b>	EPP service availability	≤ 864 min of downtime (≈ 98%)
	EPP session-command RTT	≤ 4000 ms, for at least 90% of the commands
	EPP query-command RTT	≤ 2000 ms, for at least 90% of the commands
	EPP transform-command RTT	≤ 4000 ms, for at least 90% of the commands
<b>RDAP-RDDS*</b>	RDAP availability	≤ 864 min of downtime (≈ 98%)
	RDAP query RTT	≤ 4000 ms, for at least 95% of the queries
	RDAP update time	≤ 60 min, for at least 95% of the probes

\*These SLRs for RDAP-RDDS are not mandatory until the expiration of the RDAP Ramp-Up Period.

2.2. Registry Operator is encouraged to do maintenance for the different services at the times and dates of statistically lower traffic for each service. However, note that there is no provision for planned outages or similar periods of unavailable or slow service; any downtime, be it for maintenance or due to system failures, will be noted simply as downtime and counted for SLR measurement purposes.

2.3. With respect to the TLD, until the WHOIS Services Sunset Date, Registry Operator shall meet or exceed each of the following SLRs related to the WHOIS Data Directory Services:

	Parameter	SLR (monthly basis)
<b>WHOIS-RDDS</b>	WHOIS-RDDS availability	≤ 864 min of downtime (≈ 98%)
	WHOIS-RDDS query RTT	≤ 2000 ms, for at least 95% of the queries
	WHOIS-RDDS update time	≤ 60 min, for at least 95% of the probes

42. Section 3.2 of Specification 10 is hereby amended and restated in its entirety as follows:

3.2. **DNS name server availability.** Refers to the ability of a public-DNS registered “**IP address**” of a particular name server listed as authoritative for a domain name, to answer DNS queries from an Internet user. All the public DNS-registered “**IP address**” of all name servers of the domain name being monitored shall be tested individually. If 51% or more of the DNS testing probes get unanswered results from “**DNS tests**” to a name server “**IP address**” during a given time, the name server “**IP address**” will be considered unanswered.

43. Section 3.3 of Specification 10 is hereby amended and restated in its entirety as follows:

- 3.3. **UDP DNS resolution RTT.** Refers to the **RTT** of the sequence of two packets, the UDP DNS query and the corresponding UDP DNS response. If the **RTT** is 5 times greater than the time specified in the relevant **SLR**, the **RTT** will be considered unanswered.
44. Section 3.4 of Specification 10 is hereby amended and restated in its entirety as follows:
- 3.4. **TCP DNS resolution RTT.** Refers to the **RTT** of the sequence of packets from the start of the TCP connection to its end, including the reception of the DNS response for only one DNS query. If the **RTT** is 5 times greater than the time specified in the relevant **SLR**, the **RTT** will be considered unanswered.
45. Section 3.7 of Specification 10 is hereby amended and restated in its entirety as follows:
- 3.7. **DNS test.** Means one non-recursive DNS query sent to a particular “**IP address**” (via UDP or TCP). If DNSSEC is offered in the queried DNS zone, for a query to be considered answered, the signatures must be positively verified against a corresponding DS record published in the parent zone or, if the parent is not signed, against a statically configured Trust Anchor. The answer to the query must contain the corresponding information from the Registry System, otherwise the query will be considered unanswered. A query with a “**DNS resolution RTT**” 5 times higher than the corresponding SLR, will be considered unanswered. The possible results to a DNS test are: a number in milliseconds corresponding to the “**DNS resolution RTT**” or, unanswered.
46. Section 3.8 of Specification 10 is hereby amended and restated in its entirety as follows:
- 3.8. **Measuring DNS parameters.** Every minute, every DNS probe will make an UDP or TCP “**DNS test**” to each of the public-DNS registered “**IP addresses**” of the name servers of the domain name being monitored. If a “**DNS test**” result is unanswered, the tested IP will be considered unavailable from that probe until it is time to make a new test.
47. Section 3.11 of Specification 10 is hereby amended and restated in its entirety as follows:
- 3.11. **Placement of DNS probes.** ICANN will use commercially reasonable efforts to deploy probes for measuring DNS parameters in data centers with carrier grade connectivity in each of the ICANN geographic regions.
48. Section 4 of Specification 10 is hereby deleted in its entirety and replaced



with the following:

4. **RDDS**

4.1. **RDAP-RDDS**

- 4.1.1 **RDAP Availability.** Refers to the ability of the RDAP-RDDS service for the TLD, to respond to queries from an Internet user with appropriate data from the relevant Registry System. If 51% or more of the RDAP testing Probes see the RDAP-RDDS service as unavailable during a given time, the RDAP-RDDS service will be considered unanswered.
- 4.1.2 **RDAP-query RTT.** Refers to the RTT of the sequence of packets from the start of an RDAP-RDDS testing probe's TCP connection to its end, including the reception of the HTTPS response for only one HTTPS request. If the RTT is 5 times or more the corresponding SLR/performance specifications, the RTT will be considered undefined.
- 4.1.3 **RDAP Update Time.** Refers to the time measured from the receipt of an EPP confirmation to a transform command on a domain name, host or contact, up until at least 51% of the RDAP-RDDS testing Probes detect the changes made.
- 4.1.4 **RDAP test.** Means one query sent to a particular IP address of one of the servers of the RDAP-RDDS service. Queries shall be about existing objects in the Registry System and the responses must contain the corresponding information otherwise the query will be considered unanswered. Queries with an RTT 5 times higher than the corresponding SLR will be considered as unanswered. The possible results to an RDAP test are: a number in milliseconds corresponding to the RDAP-query RTT or unanswered.
- 4.1.5 **Measuring RDAP parameters.** Every 5 minutes, RDAP-RDDS probes will select one IP address from all the public-DNS registered "IP addresses" of the servers of the RDAP-RDDS service of the TLD being monitored and make an "RDAP test". If an RDAP test result is unanswered, the corresponding RDAP-RDDS service will be considered as unavailable from that Probe until it is time to make a new test.
- 4.1.6 **Collating the results from RDAP-RDDS Probes.** The minimum number of active testing working RDAP-RDDS testing Probes to consider a measurement valid is 10 at any

given measurement period, otherwise the measurements will be discarded and will be considered “inconclusive”; during this situation no fault will be flagged against the SLRs.

4.1.7 **Placement of RDAP-RDDS Probes.** ICANN will use commercially reasonable efforts to deploy probes for measuring RDAP parameters in data centers with carrier grade connectivity in each of the ICANN geographic regions.

4.2. **WHOIS-RDDS.** Until the WHOIS Services Sunset Date, Registry Operator shall comply with the provisions of this Section 4.2.

4.2.1 **WHOIS-RDDS availability.** Refers to the ability of all the WHOIS-RDDS services for the TLD, to respond to queries from an Internet user with appropriate data from the relevant Registry System. If 51% or more of the WHOIS-RDDS testing probes see any of the WHOIS-RDDS services as unavailable during a given time, the WHOIS-RDDS will be considered unavailable.

4.2.2 **WHOIS query RTT.** Refers to the **RTT** of the sequence of packets from the start of the TCP connection to its end, including the reception of the WHOIS response. If the **RTT** is 5 -times or more the corresponding SLR, the **RTT** will be considered unanswered.

4.2.3 **Web-based-WHOIS query RTT.** Refers to the **RTT** of the sequence of packets from the start of the TCP connection to its end, including the reception of the HTTP response for only one HTTP request. If Registry Operator implements a multiple-step process to get to the information, only the last step shall be measured. If the **RTT** is 5 times or more the corresponding SLR, the **RTT** will be considered unanswered.

4.2.4 **WHOIS-RDDS query RTT.** Refers to the collective of “WHOIS query RTT” and “Web-based- WHOIS query RTT”.

4.2.5 **WHOIS-RDDS update time.** Refers to the time measured from the reception of an EPP confirmation to a transform command on a domain name, host or contact, up until the servers of the WHOIS-RDDS services reflect the changes made.

4.2.6 **WHOIS-RDDS test.** Means one query sent to a particular “**IP address**” of one of the servers of one of the WHOIS-

RDDS services. Queries shall be about existing objects in the Registry System and the responses must contain the corresponding information otherwise the query will be considered unanswered. Queries with an **RTT** 5 times higher than the corresponding SLR will be considered as unanswered. The possible results to an WHOIS-RDDS test are: a number in milliseconds corresponding to the **RTT** or unanswered.

- 4.2.7 **Measuring WHOIS-RDDS parameters.** Every 5 minutes, WHOIS-RDDS probes will select one IP address from all the public-DNS registered “**IP addresses**” of the servers for each WHOIS-RDDS service of the TLD being monitored and make an “**WHOIS-RDDS test**” to each one. If an “**WHOIS-RDDS test**” result is unanswered, the corresponding WHOIS-RDDS service will be considered as unavailable from that probe until it is time to make a new test.
- 4.2.8 **Collating the results from WHOIS-RDDS probes.** The minimum number of active testing probes to consider a measurement valid is 10 at any given measurement period, otherwise the measurements will be discarded and will be considered inconclusive; during this situation no fault will be flagged against the SLRs.
- 4.2.9 **Placement of WHOIS-RDDS probes.** ICANN will use commercially reasonable efforts to deploy probes for measuring WHOIS-RDDS parameters in data centers with carrier grade connectivity in each of the ICANN geographic regions.

49. Section 5.2 of Specification 10 is hereby amended and restated in its entirety as follows:

- 5.2. **EPP session-command RTT.** Refers to the **RTT** of the sequence of packets that includes the sending of a session command plus the reception of the EPP response for only one EPP session command. For the login command it will include packets needed for starting the TCP session. For the logout command it will include packets needed for closing the TCP session. EPP session commands are those described in section 2.9.1 of EPP RFC 5730. If the **RTT** is 5 times or more the corresponding SLR, the **RTT** will be considered unanswered.

50. Section 5.3 of Specification 10 is hereby amended and restated in its entirety as follows:

- 5.3. **EPP query-command RTT.** Refers to the **RTT** of the sequence of packets that includes the sending of a query command plus the reception of the EPP response for only one EPP query command. It does not include packets needed for the start or close of either the EPP or the TCP session. EPP query commands are those described in section 2.9.2 of EPP RFC 5730. If the **RTT** is 5 times or more the corresponding SLR, the **RTT** will be considered unanswered.
51. Section 5.4 of Specification 10 is hereby amended and restated in its entirety as follows:
- 5.4. **EPP transform-command RTT.** Refers to the **RTT** of the sequence of packets that includes the sending of a transform command plus the reception of the EPP response for only one EPP transform command. It does not include packets needed for the start or close of either the EPP or the TCP session. EPP transform commands are those described in section 2.9.3 of EPP RFC 5730. If the **RTT** is 5 times or more the corresponding SLR, the **RTT** will be considered unanswered.
52. Section 5.6 of Specification 10 is hereby amended and restated in its entirety as follows:
- 5.6. **EPP test.** Means one EPP command sent to a particular “**IP address**” for one of the EPP servers. Query and transform commands, with the exception of “create”, shall be about existing objects in the Registry System. The response shall include appropriate data from the Registry System. The possible results to an EPP test are: a number in milliseconds corresponding to the “**EPP command RTT**” or unanswered.
53. Section 5.7 of Specification 10 is hereby amended and restated in its entirety as follows:
- 5.7. **Measuring EPP parameters.** Every 5 minutes, EPP probes will select one “**IP address**” of the EPP servers of the TLD being monitored and make an “**EPP test**”; every time they should alternate between the 3 different types of commands and between the commands inside each category. If an “**EPP test**” result is unanswered, the EPP service will be considered as unavailable from that probe until it is time to make a new test.
54. Section 5.9 of Specification 10 is hereby amended and restated in its entirety as follows:
- 5.9. **Placement of EPP probes.** ICANN will use commercially reasonable efforts to deploy probes for measuring EPP parameters in data centers with carrier-grade connectivity and close to Registrar points of access to the Internet in each ICANN geographic region.

55. Section 6 of Specification 10 is hereby deleted in its entirety and replaced with the following:

6. **Emergency Thresholds**

6.1. The following matrix presents the emergency thresholds that, if reached by any of the services related to DNS, EPP, RDAP-RDDS\* and Data Escrow for a TLD, would cause the emergency transition of the Registry for the TLD as specified in Section 2.13 of this Agreement.

<b>Critical Function</b>	<b>Emergency Threshold</b>
DNS Service	4-hour total downtime / week
DNSSEC proper resolution	4-hour total downtime / week
EPP	24-hour total downtime / week
RDAP-RDDS*	24-hour total downtime / week
Data Escrow	Reaching any of the criteria for the release of deposits described in Specification 2, Part B, Section 6.2 through Section 6.6.

\*The RDAP-RDDS emergency threshold becomes effective upon expiration of the RDAP Ramp-Up Period.

6.2. The following matrix presents the emergency thresholds that, if reached by any of the services related to WHOIS-RDDS for a TLD prior to the expiration of the RDAP Ramp-Up Period would cause the emergency transition of the Registry for the TLD as specified in Section 2.13 of this Agreement.

<b>Critical Function</b>	<b>Emergency Threshold</b>
WHOIS-RDDS	24-hour total downtime / week

56. The first paragraph of Section 2 of Specification 11 is hereby amended and restated in its entirety as follows:

2. Registry Operator will operate the registry for the TLD in compliance with all commitments, statements of intent and business plans stated in the following sections of Registry Operator’s application to ICANN for the TLD, which commitments, statements of intent and business plans are hereby incorporated by reference into this Agreement. Registry Operator’s obligations pursuant to this paragraph shall be enforceable by ICANN and through the Public Interest Commitment Dispute Resolution Process established by ICANN (posted at <https://www.icann.org/picdrp>), which may be revised in immaterial respects by ICANN from time to time

(the "PICDRP"). Registry Operator shall comply with the PICDRP. Registry Operator agrees to implement and adhere to any remedies ICANN imposes (which may include any reasonable remedy, including for the avoidance of doubt, the termination of the Registry Agreement pursuant to Section 4.3(e) of the Agreement) following a determination by any PICDRP panel and to be bound by any such determination

57. The first paragraph of Section 3 of Specification 11 is hereby amended and restated in its entirety as follows:

3. Registry Operator agrees to perform the following specific public interest commitments, which commitments shall be enforceable by ICANN and through the Public Interest Commitment Dispute Resolution Process established by ICANN (posted at <https://www.icann.org/picdrp>), which may be revised in immaterial respects by ICANN from time to time (the "PICDRP"). Registry Operator shall comply with the PICDRP. Registry Operator agrees to implement and adhere to any remedies ICANN imposes (which may include any reasonable remedy, including for the avoidance of doubt, the termination of the Registry Agreement pursuant to Section 4.3(e) of the Agreement) following a determination by any PICDRP panel and to be bound by any such determination.

SCHEDULE A TO BE AMENDED AT THE END OF THE VOTING PERIOD TO INCLUDE ALL APPLICABLE TLDS

Schedule A

Applicable Registry Agreements – Identified by TLD

AAA	ALLY	AUTHOR
AARP	ALSACE	AUTO
ABARTH	ALSTOM	AUTOS
ABB	AMAZON	AVIANCA
ABBOTT	AMERICANEXPRESS	AWS
ABBVIE	AMERICANFAMILY	AXA
ABC	AMEX	AZURE
ABLE	AMFAM	BABY
ABOGADO	AMICA	BAIDU
ABUDHABI	AMSTERDAM	BANAMEX
ACADEMY	ANALYTICS	BANANAREPUBLIC
ACCENTURE	ANDROID	BAND
ACCOUNTANT	ANQUAN	BANK
ACCOUNTANTS	ANZ	BAR
ACO	AOL	BARCELONA
ACTOR	APARTMENTS	BARCLAYCARD
ADS	APP	BARCLAYS
ADULT	APPLE	BAREFOOT
AEG	AQUARELLE	BARGAINS
AERO	ARAB	BASEBALL
AETNA	ARAMCO	BASKETBALL
AFL	ARCHI	BAUHAUS
AFRICA	ARMY	BAYERN
AGAKHAN	ART	BBC
AGENCY	ARTE	BBT
AIG	ASDA	BBVA
AIRBUS	ASIA	BCG
AIRFORCE	ASSOCIATES	BCN
AIRTEL	ATHLETA	BEATS
AKDN	ATTORNEY	BEAUTY
ALFAROMEIO	AUCTION	BEER
ALIBABA	AUDI	BENTLEY
ALIPAY	AUDIBLE	BERLIN
ALLFINANZ	AUDIO	BEST
ALLSTATE	AUSPOST	BESTBUY
BET	BUILDERS	CFD
BHARTI	BUSINESS	CHANEL
BIBLE	BUY	CHANNEL
BID	BUZZ	CHARITY

**JANUARY 2023**

**SCHEDULE A TO BE AMENDED AT THE END OF THE VOTING PERIOD TO INCLUDE ALL APPLICABLE TLDS**

BIKE	BZH	CHASE
BING	CAB	CHAT
BINGO	CAFE	CHEAP
BIO	CAL	CHINTAI
BIZ	CALL	CHRISTMAS
BLACK	CALVINKLEIN	CHROME
BLACKFRIDAY	CAM	CHURCH
BLOCKBUSTER	CAMERA	CIPRIANI
BLOG	CAMP	CIRCLE
BLOOMBERG	CANON	CISCO
BLUE	CAPETOWN	CITADEL
BMS	CAPITAL	CITI
BMW	CAPITALONE	CITIC
BNPPARIBAS	CAR	CITY
BOATS	CARAVAN	CITYEATS
BOEHRINGER	CARDS	CLAIMS
BOFA	CARE	CLEANING
BOM	CAREER	CLICK
BOND	CAREERS	CLINIC
BOO	CARS	CLINIQUE
BOOK	CASA	CLOTHING
BOOKING	CASE	CLOUD
BOSCH	CASH	CLUB
BOSTIK	CASINO	CLUBMED
BOSTON	CAT	COACH
BOT	CATERING	CODES
BOUTIQUE	CATHOLIC	COFFEE
BOX	CBA	COLLEGE
BRADESCO	CBN	COLOGNE
BRIDGESTONE	CBRE	COMCAST
BROADWAY	CBS	COMMBANK
BROKER	CENTER	COMMUNITY
BROTHER	CEO	COMPANY
BRUSSELS	CERN	COMPARE
BUILD	CFA	COMPUTER
COMSEC	DEGREE	EDEKA
CONDOS	DELIVERY	EDUCATION
CONSTRUCTION	DELL	EMAIL
CONSULTING	DELOITTE	EMERCK
CONTACT	DELTA	ENERGY
CONTRACTORS	DEMOCRAT	ENGINEER
COOKING	DENTAL	ENGINEERING
COOKINGCHANNEL	DENTIST	ENTERPRISES



**JANUARY 2023**

**SCHEDULE A TO BE AMENDED AT THE END OF THE VOTING PERIOD TO INCLUDE ALL APPLICABLE TLDS**

COOL	DESI	EPSON
CORSICA	DESIGN	EQUIPMENT
COUNTRY	DEV	ERICSSON
COUPON	DHL	ERNI
COUPONS	DIAMONDS	ESQ
COURSES	DIET	ESTATE
CPA	DIGITAL	ETISALAT
CREDIT	DIRECT	EUROVISION
CREDITCARD	DIRECTORY	EUS
CREDITUNION	DISCOUNT	EVENTS
CRICKET	DISCOVER	EXCHANGE
CROWN	DISH	EXPERT
CRS	DIY	EXPOSED
CRUISE	DNP	EXPRESS
CRUISES	DOCS	EXTRASPACE
CUISINELLA	DOCTOR	FAGE
CYMRU	DOG	FAIL
CYOU	DOMAINS	FAIRWINDS
DABUR	DOT	FAITH
DAD	DOWNLOAD	FAMILY
DANCE	DRIVE	FAN
DATA	DTV	FANS
DATE	DUBAI	FARM
DATING	DUNLOP	FARMERS
DATSUN	DUPONT	FASHION
DAY	DURBAN	FAST
DCLK	DVAG	FEDEX
DDS	DVR	FEEDBACK
DEAL	EARTH	FERRARI
DEALER	EAT	FERRERO
DEALS	ECO	FIAT
FIDELITY	FURNITURE	GOP
FIDO	FUTBOL	GOT
FILM	FYI	GRAINGER
FINAL	GAL	GRAPHICS
FINANCE	GALLERY	GRATIS
FINANCIAL	GALLO	GREEN
FIRE	GALLUP	GRIPE
FIRESTONE	GAME	GROCERY
FIRMDALE	GAMES	GROUP
FISH	GAP	GUARDIAN
FISHING	GARDEN	GUCCI
FIT	GAY	GUGE

**JANUARY 2023**

**SCHEDULE A TO BE AMENDED AT THE END OF THE VOTING PERIOD TO INCLUDE ALL APPLICABLE TLDS**

FITNESS	GBIZ	GUIDE
FLICKR	GDN	GUITARS
FLIGHTS	GEA	GURU
FLIR	GENT	HAIR
FLORIST	GENTING	HAMBURG
FLOWERS	GEORGE	HANGOUT
FLY	GGEE	HAUS
FOO	GIFT	HBO
FOOD	GIFTS	HDFC
FOODNETWORK	GIVES	HDFCBANK
FOOTBALL	GIVING	HEALTH
FORD	GLASS	HEALTHCARE
FOREX	GLE	HELP
FORSALE	GLOBAL	HELSINKI
FORUM	GLOBO	HERE
FOUNDATION	GMAIL	HERMES
FOX	GMBH	HGTV
FREE	GMO	HIPHOP
FRESENIUS	GMX	HISAMITSU
FRL	GODADDY	HITACHI
FROGANS	GOLD	HIV
FRONTDOOR	GOLDPOINT	HKT
FRONTIER	GOLF	HOCKEY
FTR	GOO	HOLDINGS
FUJITSU	GOODYEAR	HOLIDAY
FUN	GOOG	HOMEDEPOT
FUND	GOOGLE	HOMEGOODS
HOMES	INVESTMENTS	LIMO
HOMESENSE	IPIRANGA	LINCOLN
HONDA	IRISH	LINDE
HORSE	ISMAILI	LINK
HOSPITAL	IST	LIPSY
HOST	ISTANBUL	LIVE
HOSTING	ITAU	LIVING
HOT	ITV	LLC
HOTELES	KYOTO	JAGUAR
HOTELS	LACAIXA	JAVA
HOTMAIL	LAMBORGHINI	JCB
HOUSE	LAMER	JEEP
HOW	LANCASTER	JETZT
HSBC	LANCIA	JEWELRY
HUGHES	LAND	JIO
HYATT	LANDROVER	JLL

**JANUARY 2023**

**SCHEDULE A TO BE AMENDED AT THE END OF THE VOTING PERIOD TO INCLUDE ALL APPLICABLE TLDS**

HYUNDAI	LANXESS	JMP
IBM	LASALLE	JNJ
ICBC	LAT	JOBS
ICE	LATINO	JOBURG
ICU	LATROBE	JOT
IEEE	LAW	JOY
IFM	LAWYER	JPMORGAN
IKANO	LDS	JPRS
IMAMAT	LEASE	JUEGOS
IMDB	LECLERC	JUNIPER
IMMO	LEFRAK	KAUFEN
IMMOBILIEN	LEGAL	KDDI
INC	LEGO	KERRYHOTELS
INDUSTRIES	LEXUS	KERRYLOGISTICS
INFINITI	LGBT	KERRYPROPERTIES
INFO	LIDL	KFH
ING	LIFE	KIA
INK	LIFEINSURANCE	KIDS
INSTITUTE	LIFESTYLE	KIM
INSURANCE	LIGHTING	KINDER
INSURE	LIKE	KINDLE
INTERNATIONAL	LILLY	KITCHEN
INTUIT	LIMITED	KIWI
KOELN	MASERATI	MTN
KOMATSU	MATTEL	MTR
KOSHER	MBA	MUSIC
KPMG	MCKINSEY	MUTUAL
KPN	MED	NAB
KRD	MEDIA	NAGOYA
KRED	MEET	NATURA
KUOKGROUP	MELBOURNE	NAVY
LLP	MEME	NBA
LOAN	MEMORIAL	NEC
LOANS	MEN	NETBANK
LOCKER	MENU	NETFLIX
LOCUS	MERCKMSD	NETWORK
LOL	MIAMI	NEUSTAR
LONDON	MICROSOFT	NEW
LOTTE	MINI	NEWS
LOTTO	MINT	NEXT
LOVE	MIT	NEXTDIRECT
LPL	MITSUBISHI	NEXUS
LPLFINANCIAL	MLB	NFL

**JANUARY 2023**

**SCHEDULE A TO BE AMENDED AT THE END OF THE VOTING PERIOD TO INCLUDE ALL APPLICABLE TLDS**

LTD	MLS	NGO
LTDA	MMA	NHK
LUNDBECK	MOBI	NICO
LUXE	MOBILE	NIKE
LUXURY	MODA	NIKON
MACYS	MOE	NINJA
MADRID	MOI	NISSAN
MAIF	MOM	NISSAY
MAISON	MONASH	NOKIA
MAKEUP	MONEY	NORTHWESTERNMUTUAL
MAN	MONSTER	NORTON
MANAGEMENT	MORMON	NOW
MANGO	MORTGAGE	NOWRUZ
MAP	MOSCOW	NOWTV
MARKET	MOTO	NRA
MARKETING	MOTORCYCLES	NRW
MARKETS	MOV	NTT
MARRIOTT	MOVIE	NYC
MARSHALLS	MSD	OBI
OBSERVER	PHOTO	PWC
OFFICE	PHOTOGRAPHY	QPON
OKINAWA	PHOTOS	QUEBEC
OLAYAN	PHYSIO	QUEST
OLAYANGROUP	PICS	RACING
OLDNAVY	PICTET	RADIO
OLLO	PICTURES	READ
OMEGA	PID	REALESTATE
ONE	PIN	REALTOR
ONG	PING	REALTY
ONL	PINK	RECIPES
ONLINE	PIONEER	RED
OOO	PIZZA	REDSTONE
OPEN	PLACE	REDUMBRELLA
ORACLE	PLAY	REHAB
ORANGE	PLAYSTATION	REISE
ORG	PLUMBING	REISEN
ORGANIC	PLUS	REIT
ORIGINS	PNC	RELIANCE
OSAKA	POHL	REN
OTSUKA	POKER	RENT
OTT	POLITIE	RENTALS
OVH	PORN	REPAIR
PAGE	PRAMERICA	REPORT

**JANUARY 2023**

**SCHEDULE A TO BE AMENDED AT THE END OF THE VOTING PERIOD TO INCLUDE ALL APPLICABLE TLDS**

PANASONIC	PRAXI	REPUBLICAN
PARIS	PRESS	REST
PARS	PRIME	RESTAURANT
PARTNERS	PRO	REVIEW
PARTS	PROD	REVIEWS
PARTY	PRODUCTIONS	REXROTH
PASSAGENS	PROF	RICH
PAY	PROGRESSIVE	RICHARDLI
PCCW	PROMO	RICOH
PET	PROPERTIES	RIL
PFIZER	PROPERTY	RIO
PHARMACY	PROTECTION	RIP
PHD	PRU	ROCHER
PHILIPS	PRUDENTIAL	ROCKS
PHONE	PUB	RODEO
ROGERS	SECURITY	SOLAR
ROOM	SEEK	SOLUTIONS
RSVP	SELECT	SONG
RUGBY	SENER	SONY
RUHR	SERVICES	SOY
RUN	SEVEN	SPA
RWE	SEW	SPACE
RYUKYU	SEX	SPORT
SAARLAND	SEXY	SPOT
SAFE	SFR	SRL
SAFETY	SHANGRILA	STADA
SAKURA	SHARP	STAPLES
SALE	SHAW	STAR
SALON	SHELL	STATEBANK
SAMSCLUB	SHIA	STATEFARM
SAMSUNG	SHIKSHA	STC
SANDVIK	SHOES	STCGROUP
SANDVIKCOROMANT	SHOP	STOCKHOLM
SANOFI	SHOPPING	STORAGE
SAP	SHOUJI	STORE
SARL	SHOW	STREAM
SAS	SHOWTIME	STUDIO
SAVE	SILK	STUDY
SAXO	SINA	STYLE
SBI	SINGLES	SUCKS
SBS	SITE	SUPPLIES
SCA	SKI	SUPPLY
SCB	SKIN	SUPPORT

**JANUARY 2023**

**SCHEDULE A TO BE AMENDED AT THE END OF THE VOTING PERIOD TO INCLUDE ALL APPLICABLE TLDS**

SCHAEFFLER	SKY	SURF
SCHMIDT	SKYPE	SURGERY
SCHOLARSHIPS	SLING	SUZUKI
SCHOOL	SMART	SWATCH
SCHULE	SMILE	SWISS
SCHWARZ	SNCF	SYDNEY
SCIENCE	SOCCER	SYSTEMS
SCOT	SOCIAL	TAB
SEARCH	SOFTBANK	TAIPEI
SEAT	SOFTWARE	TALK
SECURE	SOHU	TAOBAO
TARGET	TOYS	VISION
TATAMOTORS	TRADE	VIVA
TATAR	TRADING	VIVO
TATTOO	TRAINING	VLAANDEREN
TAX	TRAVEL	VODKA
TAXI	TRAVELCHANNEL	VOLKSWAGEN
TCI	TRAVELERS	VOLVO
TDK	TRAVELERSINSURANCE	VOTE
TEAM	TRUST	VOTING
TECH	TRV	VOTO
TECHNOLOGY	TUBE	VOYAGE
TEL	TUI	VUELOS
TEMASEK	TUNES	WALES
TENNIS	TUSHU	WALMART
TEVA	TVS	WALTER
THD	UBANK	WANG
THEATER	UBS	WANGGOU
THEATRE	UNICOM	WATCH
TIAA	UNIVERSITY	WATCHES
TICKETS	UNO	WEATHER
TIENDA	UOL	WEATHERCHANNEL
TIFFANY	UPS	WEBCAM
TIPS	VACATIONS	WEBER
TIRES	VANA	WEBSITE
TIROL	VANGUARD	WEDDING
TJMAXX	VEGAS	WEIBO
TJX	VENTURES	WEIR
TKMAXX	VERISIGN	WHOSWHO
TMALL	VERSICHERUNG	WIEN
TODAY	VET	WIKI
TOKYO	VIAJES	WILLIAMHILL
TOOLS	VIDEO	WIN

**JANUARY 2023**

**SCHEDULE A TO BE AMENDED AT THE END OF THE VOTING PERIOD TO INCLUDE ALL APPLICABLE TLDS**

TOP	VIG	WINDOWS
TORAY	VIKING	WINE
TOSHIBA	VILLAS	WINNERS
TOTAL	VIN	WME
TOURS	VIP	WOLTERSKLUWER
TOWN	VIRGIN	WOODSIDE
TOYOTA	VISA	WORK
WORKS	XN--CCKWCXETD	XN--NQV7F
WORLD	XN--CG4BKI	XN--NQV7FS00EMA
WOW	XN--CZR694B	XN--NYQY26A
WTC	XN--CZRS0T	XN--OTU796D
WTF	XN--CZRU2D	XN--P1ACF
XBOX	XN--D1ACJ3B	XN--PSSY2U
XEROX	XN--ECKVDTC9D	XN--Q9JYB4C
XFINITY	XN--EFVY88H	XN--QCKA1PMC
XIHUAN	XN--FCT429K	XN--RHQV96G
XIN	XN--FHBEI	XN--ROVU88B
XN--11B4C3D	XN--FIQ228C5HS	XN--SES554G
XN--1CK2E1B	XN--FIQ64B	XN--T60B56A
XN--1QQW23A	XN--FJQ720A	XN--TCKWE
XN--30RR7Y	XN--FLW351E	XN--TIQ49XQYJ
XN--3BST00M	XN--FZYS8D69UVGM	XN--UNUP4Y
XN--3DS443G	XN--G2XX48C	XN--VERMGENSBERATER-CTB
XN--3PXU8K	XN--GCKR3F0F	XN--VERMGENSBERATUNG-PWB
XN--42C2D9A	XN--GK3AT1E	XN--VHQUV
XN--45Q11C	XN--HXT814E	XN--VUQ861B
XN--4GBRIM	XN--I1B6B1A6A2E	XN--W4R85EL8FHU5DNRA
XN--55QW42G	XN--IMR513N	XN--W4RS40L
XN--55QX5D	XN--IO0A7I	XN--XHQ521B
XN--5SU34J936BGSG	XN--J1AEF	XN--ZFR164B
XN--5TZM5G	XN--JLQ480N2RG	XYZ
XN--6FRZ82G	XN--JVR189M	YACHTS
XN--6QQ986B3XL	XN--KCRX77D1X4A	YAHOO
XN--80ADXHKS	XN--KPUT3I	YAMAXUN
XN--80AQECDR1A	XN--MGBA3A3EJT	YANDEX
XN--80ASEHDB	XN--MGBA7C0BBN0A	YODOBASHI
XN--80ASWG	XN--MGBAAKC7DVF	YOGA
XN--8Y0A063A	XN--MGBAB2BD	YOKOHAMA
XN--9DBQ2A	XN--MGBCA7DZDO	YOU
XN--9ET52U	XN--MGBI4ECEXP	YOUTUBE
XN--9KRT00A	XN--MGBT3DHD	YUN
XN--B4W605FERD	XN--MK1BU44C	ZAPPOS

**JANUARY 2023**

**SCHEDULE A TO BE AMENDED AT THE END OF THE VOTING PERIOD TO INCLUDE ALL APPLICABLE TLDS**

XN--BCK1B9A5DRE4C	XN--MXTQ1M	ZARA
XN--C1AVG	XN--NGBC5AZD	ZERO
XN--C2BR7G	XN--NGBE9E0A	ZIP
XN--CCK2B3B	XN--NGBRX	ZONE
ZUERICH		