SPONSORSHIP AGREEMENT

.AERO TLD Sponsorship Registry Agreement

This TLD SPONSORSHIP <u>REGISTRY</u> AGREEMENT (this <u>""Agreement""</u>) is entered into <u>and made effective</u> as of <u>11 June 2009</u> by and between Internet Corporation for Assigned Names and Numbers, a California nonprofit public benefit corporation (<u>""ICANN"</u>"), and SITA Information Networking Computing USA, Inc. <u>("Sponsor")</u>, a Delaware corporation.

ARTICLE I INTRODUCTION

Section 1.1 Effective Date and Top Level Domain. The Effective Date for purposes of this Agreement shall be the date first written above, and shall be concurrent with the termination of the existing sponsorship agreement TLD Sponsorship Agreement between Societe Internationale de Telecommunications Aeronautiques (SITA SC Sponsor (as defined below) and ICANN for the TLD, which will be superceded superseded and replaced in its entirety by this Agreement. Sponsor is a wholly owned subsidiary of SITA NV and a successor to the rights and obligations of SITA SC under the prior sponsorship agreement for the aero top level domain (the "TLD") as of the date hereof.

Section 1.2 Top-Level Domain. The Top-Level Domain to which this Agreement applies is .aero ("TLD").

Section 1.21.3 Designation as Sponsor. Upon the Effective Date, until the Expiration Date and throughout the Term (as defined in Section 4.1 hereof), unless earlier terminated pursuant to Article VI hereof, ICANN hereby designates Sponsor as the SITA Information Networking Computing USA, Inc. as the sole registry operator and sponsoring organization, which may contract with other entities with respect to technical operations of the registry for the sponsored TLD ("Sponsor" or "Registry Operator"). ICANN hereby delegates to Sponsor the authority to develop policies for the sponsored TLD consistent with the requirements of Section 3.1(gf) of this Agreement and the provisions set forth in Appendix Specification 12 of this Agreement.

ARTICLE II REPRESENTATIONS AND WARRANTIES

Section 2.1 <u>Due Organization</u>; <u>Authorization and Execution by Sponsor Registry Operator</u>. Sponsor Registry Operator is a corporation, duly organized, validly existing and in good standing under the laws of Delaware, and Sponsor Registry Operator has all requisite power and authority to enter into this Agreement. All corporate approvals and actions necessary for the entrance by Sponsor Registry Operator into this Agreement have been obtained and this Agreement has been duly and validly executed and delivered by Sponsor Registry Operator.

Section 2.2 <u>Due Organization</u>; <u>Authorization and Execution by ICANN</u>. ICANN is a nonprofit public benefit corporation duly organized, validly existing and in good standing under the laws of California. ICANN has all requisite corporate power and authority to enter into this Agreement. All corporate approvals and actions necessary for the entrance by ICANN into this Agreement have been obtained and this Agreement has been duly and validly executed and delivered by ICANN.

ARTICLE III COVENANTS

Section 3.1 <u>Covenants of Sponsor Registry Operator. Registry Operator</u> covenants and agrees with ICANN as follows:

(a) Preserve Security and Stability.

(i) ICANN Temporary Specifications or Policies. Sponsor shall comply with and implement all specifications or policies established by the ICANN Board of Directors on a temporary basis, if adopted by the ICANN Board of Directors by a vote of at least two-thirds of its members, so long as the ICANN Board of Directors reasonably determines that immediate temporary establishment of a specification or policy on the subject is necessary to maintain the Stability or Security (as defined in Section 3.1(d)(iv) of Sponsor Services or the DNS ("Temporary Specification or Policies") and such temporary specification or policy by its terms is applicable to sponsored TLDs. Such proposed specification or policy shall be as narrowly tailored as feasible to achieve those objectives. In establishing any specification or policy under this provision, the ICANN Board of Directors shall state the period of time for which the specification or policy is temporarily adopted and shall immediately implement the Consensus Policy development process set forth in ICANN's Bylaws. ICANN shall also issue an advisory statement containing a detailed explanation of its reasons for adopting the temporary specification or policy and why the Board believes the specification or policy should receive the consensus support of Internet stakeholders. If the period of time for which the specification or policy is adopted exceeds 90 days, the ICANN Board shall reaffirm its temporary adoption every 90 days for a total period not to exceed one year, in order to maintain such policy in effect until such time as it shall become a Consensus Policy as described in Section 3.1(b) below. If during such one year period, the temporary policy or specification does not become a Consensus Policy meeting the standard set forth in Section 3.1(b) below, Sponsor shall no longer be required to comply with or implement such temporary policy or specification.

(b) Consensus Policies.

(i) At all times during the term of this Agreement and subject to the terms hereof, Sponsor will fullya) Compliance with Consensus Policies and Temporary Policies. Registry Operator shall comply with and implement all Consensus Policies, to the extent such policies are applicable to sponsored TLDs, and Temporary Policies found at http://www.icann.org/general/consensus-policies.htm, as of the Effective Date and as may in the future be developed and adopted in accordance with ICANN's Bylaws and as set forth below.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").

(ii) "Consensus Policies" are those specifications or policies established (1) pursuant to the procedure set forth in ICANN's Bylaws and due process, and (2) covering those topics listed in Section 3.1(b)(iv) below. The Consensus Policy development process and procedure set forth in ICANN's Bylaws may be revised from time to time in accordance with ICANN's Bylaws, and any Consensus Policy that is adopted through such a revised process and covering those topics listed in Section 3.1(b)(iv) below shall be considered a Consensus Policy for purposes of this Agreement.

(iii) For all purposes under this Agreement, the policies identified at http://www.icann.org/general/consensus-policies.htm. shall be treated in the same manner and have the same effect as "Consensus Policies."

- (iv) Consensus Policies and the procedures by which they are developed shall be designed to produce, to the extent possible, a consensus of Internet stakeholders. Consensus Policies shall relate to one or more of the following: (1) issues for which uniform or coordinated resolution is reasonably necessary to facilitate interoperability, Security and/or Stability of the Internet or DNS; (3) Security and Stability of the Registry Operator database for the TLD; (4) Sponsor policies reasonably necessary to implement Consensus Policies relating to Sponsor operations or registrars; or (5) resolution of disputes regarding the registration of domain names (as opposed to the use of such domain names). Such categories of issues referred to in the preceding sentence shall include, without limitation, the following topics, except to the extent policy development authority is presently delegated to the Sponsor as provided in Attachment S of this Agreement:
- (A) principles for allocation of registered names in the TLD (e.g., first-come, first-served, landrush procedures, timely renewal, holding period after expiration);
- (B) prohibitions on warehousing of or speculation in domain names by registries or registrars;
- (C) reservation of registered names in the TLD that may not be registered initially or that may not be renewed due to reasons reasonably related to (a) avoidance of confusion among or misleading of users, (b) intellectual property, or (c) the technical management of the DNS or the Internet (e.g., establishment of reservations of names from registration);
- (D) maintenance of and access to accurate and up to date information concerning domain name registrations;
- (E) procedures to avoid disruptions of domain name registration due to suspension or termination of operations by a registry operator or a registrar, including procedures for allocation of responsibility for serving registered domain names in a TLD affected by such a suspension or termination;
- (F) resolution of disputes regarding whether particular parties may register or maintain registration of particular domain names; and
- (G) functional and performance specifications for the provision of Registry Services.
- (v) Sponsor shall be afforded a reasonable period of time following notice of the establishment of a Consensus Policy or Temporary Specifications or Policies in which to comply with such policy or specification, taking into account any urgency involved.

In the event of a conflict between Sponsor Services (as defined in Section 3.1(d)(iii) below), on the one hand, and applicable Consensus Policies developed in accordance with this Section 3.1(b) or any applicable Temporary Specifications or Policies established pursuant to Section 3.1(a)(i) above, on the other hand, the Consensus Policies or Temporary Specifications or Policies shall control, notwithstanding any other provisions contained within this Agreement.

(eb) Handling of Registry Data.

(i Data Escrow. Sponsor shall establish at its expense a data escrow or mirror site policy for the Registry Data compiled by Sponsor. Registry Data, as used in this Agreement, shall mean the following: (1) data

for domains sponsored by all registrars, consisting of domain name, server name for each nameserver, registrar id, updated date, creation date, expiration date, status information, and DNSSEC DS data (if Sponsor's Registry Operator implements DNSSEC); (2) data for nameservers sponsored by all registrars consisting of server name, each IP address, registrar id, updated date, creation date, expiration date, and status information; (3) data for registrars sponsoring registered domains and nameservers, consisting of registrar id, registrar address, registrar telephone number, registrar e mail address, whois server, referral URL, updated date and the name, telephone number, and e-mail address of all the registrar's administrative, billing, and technical contacts; and (4) domain name registrant data collected by the Sponsor from registrars as part of or following registration of a domain name. The escrow agent or mirror-site manager, and the obligations thereof, shall be mutually agreed upon by ICANN and Sponsor and such escrow shall be maintained at Sponsor's expense on commercially reasonable standards that are technically and practically sufficient to allow a successor registry operator to assume management of the TLD. To this end, Sponsor shall periodically deposit into escrow all Registry Data on a schedule (not more frequently than weekly for a complete set of Registry Data, and daily for incremental updates) and in an electronic format mutually approved from time to time by Sponsor and ICANN, such approval not to be unreasonably withheld by either party. In addition, Sponsor will deposit into escrow that data collected from registrars as part of offering Sponsor Services introduced after the Effective Date of this Agreement. The schedule, content, format, and procedure for escrow deposits shall be as reasonably established by ICANN from time to time, and as set forth in Appendix 1 hereto. Changes to the schedule, content, format, and procedure may be made only with the mutual written consent of ICANN and Sponsor (which neither party shall unreasonably withhold) or through the establishment of a Consensus Policy as outlined in Section 3.1(b) above. The escrow shall be held under an agreement, substantially in the form of Appendix 2, as the same may be revised from time to time, among ICANN, Sponsor, Registry Operator, and the escrow agent.

- (i) Data Escrow. Registry Operator shall comply with the registry data escrow procedures set forth in Specification 2 attached hereto ("Specification 2").
- (ii) Personal Data. SponsorRegistry Operator shall (i) notify registrars sponsoring registrations in the registry-ach ICANN-accredited registrar that is party to the Registry-Registrar Agreement for the TLD of the purposes for which of which data about any identified or identifiable natural person ("Personal Data (as defined below") submitted to Sponsor by registrars, if any, Registry Operator by such registrar is collected, the and used under this Agreement or otherwise and the intended recipients (or categories of recipients) of such Personal Data, and the mechanism for access to and correction of such (ii) require such registrar to obtain the consent of each registrant in the TLD for such collection and use of Personal Data. SponsorRegistry Operator shall take reasonable steps to protect Personal Data collected from such registrar from loss, misuse, unauthorized disclosure, alteration or destruction. SponsorRegistry Operator shall not use or authorize the use of Personal Data in a way that is incompatible with the notice provided to registrars. "Personal Data" shall refer to all data about any identified or identifiable natural person.
- (iii) Bulk Zone File Access. Sponsor's Monthly Reporting. Within twenty (20) calendar days following the end of each calendar month, commencing with the first calendar month in which the TLD is delegated in the root zone, Registry Operator shall provide bulk access to the zone files for the Registry Operator for the TLD to ICANN on a reasonable basis in the manner ICANN may specify from time to time. Bulk access to the zone files shall be provided to third parties on the terms set forth in the TLD zone file access agreement reasonably established by ICANN, which initially shall be in the form attached as Appendix 3 hereto. Changes to the zone file access agreement may be made upon the mutual written consent of ICANN and Sponsor (which consent neither party shall unreasonably

withhold). deliver to ICANN reports in the format set forth in Specification 3 attached hereto ("Specification 3").

(iv) Reporting. Within 20 days following the end of each month, Sponsor shall prepare and deliver to ICANN a report providing such data and in the format specified in Appendix 4. ICANN may audit Registry Operator's books and records relating to data contained in reports from time to time upon reasonable advance written notice, provided that such audits shall not exceed one per quarter. Any such audit shall be at ICANN's cost, unless such audit shall reflect a material discrepancy or discrepancies in the data provided by Sponsor. In the latter event, Sponsor shall reimburse ICANN for all costs and expenses associated with such audit, which reimbursement shall be paid together with the next Sponsor-Level Fee payment due following the date of transmittal of the cost statement for such audit. For purposes of this section, a "material discrepancy or discrepancies" shall be a discrepancy or discrepancies that, in the singular for the aggregate, result in an understatement in excess of 5% of the fees owed to ICANN by Sponsor under section 7.2.

(v) Whois Service. Sponsor shall provide such whois data as set forth in Appendix 5 and Part VI of Appendix S.

(iv) Publication of Registration Data. Registry Operator shall provide access to registration data in accordance with Specification 4 attached hereto ("Specification 4").

(dc) Sponsor Registry Operator's Registry Operations.

(i) Registration Restrictions.

(A) Sponsor shall be responsible for establishing policies, in conformity with the charter, for the naming conventions and other procedures within the sponsored TLD and for requirements of registration, consistent with Section 3.1(g).

(B) Sponsor shall be responsible for establishing procedures for the enforcement of applicable Charter restrictions on registration within the TLD, as described in more detail in the sponsored TLD charter attached as Part I to Appendix S.

(A) Registry Operator shall establish registration policies 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 http://www.icann.org/en/resources/registries/rrdrp, with respect to disputes arising pursuant to this Section 3.1(c)(i)(A). Registry Operator shall implement and comply with the community registration policies and other terms set forth on Specification 12 attached hereto.

(CB) Sponsor Registry Operator shall reserve, and not register any TLD strings (i) appearing on the list of reserved TLD strings attached as Appendix 6 hereto or (ii) located at http://data.iana.org/TLD/tlds-alpha-by-domain.txt for initial (i.e., other than renewal) registration at the second level within the TLD. Specification 5 hereto ("Specification 5"). Except to the extent

ICANN otherwise authorizes in writing, Registry Operator shall comply with the requirements of Specification 5. Registry Operator may at any time establish or modify policies concerning Registry Operator's ability to reserve (i.e., withhold from registration or allocate to Registry Operator, but not register to third parties, delegate, use, activate in the DNS or otherwise make available) or block additional character strings within the TLD at its discretion. Except as specified in Specification 5, if Registry Operator is the registrant for any domain names in the registry TLD, such registrations must be through an ICANN accredited registrar, and will be considered transactions for purposes of calculating the Registry-Level Transaction Fee to be paid to ICANN by Registry Operator pursuant to Section 7.2.

- (ii) Use of ICANN-Accredited Registrars. Registry Operator shall ensure that all Approved Services are provided through one or more ICANN-Accredited Registrars, except to the extent that (a) Specification 12 Part II delegates to Registry Operator the authority to provide or to arrange for the provision of ENS Services by means other than ICANN-Accredited Registrars or (b) the Registry Operator provides for a different means of providing Approved Services in accordance with its delegation of authority and with the consent of its community and ICANN, such consent not being unreasonably withheld. Registry Operator shall ensure that Registry-Registrar Agreements are in conformance with Section 7.1 of this Agreement.
- (iii) Registry 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 http://www.icann.org/en/registries/rsep/rsep.html, 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 Approved 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.
- (iv) Registry Interoperability and Continuity. Registry Operator shall comply with the Registry Interoperability and Continuity Specifications as set forth in Specification 6.
- (v) Protection of Legal Rights of Third Parties. Registry Operator must comply with, the processes and procedures for ongoing protections of the legal rights of third parties as set forth Specification 7 attached hereto ("Specification 7"). Registry Operator may, at its election, implement additional protections of the legal rights of third parties. Any changes or modifications to the process and procedures required by Specification 7 following the Effective Date must be approved in advance by ICANN in writing. Registry Operator must comply with all remedies imposed by ICANN pursuant to Section 2 of Specification 7, subject to Registry Operator's right to challenge such remedies as set forth in the applicable procedure described

therein. Registry Operator shall take reasonable steps to investigate and respond to any reports from law enforcement and governmental and quasi-governmental agencies of illegal conduct in connection with the use of the TLD. In responding to such reports, Registry Operator will not be required to take any action in contravention of applicable law.

(vi) Code of Conduct. In connection with the operation of the registry for the TLD, Registry Operator shall comply with the Registry Code of Conduct as set forth in Specification 9 attached hereto ("Specification 9").

(ii) Minimum Functional and vii) Registry Performance Specifications. Minimum Functional and Registry Performance Specifications for operation of the TLD shall will be as set forth in Appendix 7 hereto, and shall address without limitation minimum requirements for DNS services; operation of the shared registration system; and nameserver operations. Sponsor shall require Specification 10 attached hereto ("Specification 10"). Registry Operator to shall comply with such Performance Specifications and, for a period of at least one (1) year, shall keep technical and operational records sufficient to evidence compliance with such specifications for at least one year, which records ICANN may audit from time to time upon reasonable advance written notice, provided that such audits shall not exceed one per quarter. Any such audit shall be at ICANN's cost.each calendar year during the Term.

(viii) Additional Public Interest Commitments. Registry Operator shall comply with the public interest commitments set forth in Specification 11 attached hereto ("Specification 11").

(iii) Sponsor Services. Sponsor Services are, for purposes of this Agreement, defined as the following: (a) those services that are operations of the Sponsor or Registry Operator critical to the following tasks: the receipt of data from registrars concerning registrations of domain names and name servers: provision to registrars of status information relating to the zone servers for the TLD; dissemination of TLD zone files; operation of the Registry Operator zone servers; and dissemination of contact and other information concerning domain name server registrations in the TLD as required by this Agreement; (b) other products or services that the Sponsor or its Registry Operator is required to provide because of the establishment of a Consensus Policy (as defined in Section 3.1(b) above); (c) any other products or services that only a registry operator is capable of providing, by reason of its designation as the registry operator; (d) material changes to any Registry Service within the scope of (a), (b) or (c) above and (e) those Registry Services currently provided within the TLD by Sponsor's Registry Operator as of the Effective Date and identified in Appendix S.ix) 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 http://www.icann.org/en/resources/registries/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 3.1(d)(ix) 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 3.1(b)(i)) 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 for DNS and WHOIS records with respect to the TLD in the event that an Emergency Operator is designated pursuant to this Section 3.1(c)(ix).

- (iv) Process for Consideration of Proposed Registry Services. Sponsor must notify ICANN prior to implementing any new Sponsor Service, or making any material modification to a Sponsor Service, in conformance with that procedure detailed at http://www.icann.org/registries/rsep/rsep.html. Following such written notification by Sponsor to ICANN that Sponsor may make a change in a Sponsor Service within the scope of the preceding paragraph that may relate to security or stability issues, including Internet interoperability, ICANN will follow the procedure detailed at http://www.icann.org/registries/rsep/rsep.html.
- (ed) <u>Fees and Payments</u>. <u>Sponsor Registry Operator</u> shall pay the <u>Sponsor Level Registry-Level</u> Fees to ICANN on an annual basis in accordance with Section 7.2 hereof.
- (fe) <u>Cooperation</u>. Sponsor <u>Registry Operator</u> shall cooperate with ICANN in efforts to promote and facilitate the <u>security and stability Security and Stability</u> of the Internet and maintain a reliable and stable DNS. To this end, <u>Sponsor Registry Operator</u> shall provide such data and assistance to ICANN as it may reasonably request from time to time.
- (gf) General Obligations of Registry Operator / Sponsor to Sponsored TLD Community. During the Term of this Agreement, Registry Operator / Sponsor shall, in developing or enforcing standards, policies, procedures, or practices within the scope of its delegated authority with respect to the TLD:
- (i) publish such standards, policies, procedures, and practices so they are available to members of the sponsored TLD community;
- (ii) conduct its policy-development activities in a manner that reasonably provides opportunities for members of the sponsored-TLD community to discuss and participate in the development of such standards, policies, procedures, or practices;
- (iii) maintain the representativeness of its policy-development and implementation process by establishing procedures that facilitate participation by a broad cross-section of the sponsored TLD community; and
- (iv) ensure, through published procedures, adequate opportunities for members of the sponsored TLD community to submit their views on and objections to the establishment or revision of standards, policies, procedures, and practices or the manner in which standards, policies, procedures, and practices are enforced.
- Section 3.2 <u>Covenants of ICANN</u>. ICANN covenants and agrees with <u>SponsorRegistry Operator</u> as follows:

- (a) <u>Open and Transparent</u>. Consistent with ICANN's expressed mission and core values, ICANN shall operate in an open and transparent manner.
- (b) <u>Equitable Treatment</u>. ICANN shall not apply standards, policies, procedures or practices arbitrarily, unjustifiably, or inequitably and shall not single out <u>SponsorRegistry Operator</u> for disparate treatment unless justified by substantial and reasonable cause.
- (c) <u>TLD Zone Servers</u>. In the event and to the extent that ICANN is authorized to set policy with regard to an authoritative root server system, it will ensure that (i) the authoritative root will point to the TLD zone servers designated by Sponsor for the TLD throughout the Term of this Agreement; and (ii) Nameservers. ICANN will use commercially reasonable efforts to ensure that any changes to the TLD zone server designation nameserver designations submitted to ICANN by Sponsor Registry Operator (in a format and with required technical elements specified by ICANN at http://www.iana.org/domains/root/) will be implemented by ICANN within seven (7) calendar days or as promptly as possible feasible following technical verifications.
- (d) <u>Nameserver Changes</u>. Sponsor may request changes in the nameserver delegation for the TLD. Any such request must be made in a format, and otherwise meet technical requirements, specified from time to time by ICANN. ICANN will use commercially reasonable efforts to have such requests implemented in the Authoritative Root-Server System as promptly as possible.
- (ed) <u>Root-zone Information Publication</u>. <u>ICANN's ICANN's</u> publication of root-zone contact information for the TLD will include <u>SponsorRegistry Operator</u> and its administrative and technical contacts. Any request to modify the contact information for the <u>SponsorRegistry Operator</u> must be made in the format specified from time to time by ICANN-<u>at</u> http://www.icann/org/domains/root.
- (f) <u>Record of Delegations</u>. Maintain, or cause to be maintained, the authoritative record with respect to the delegation of the TLD to Sponsor.
- (e) Authoritative Root Database. To the extent that ICANN is authorized to set policy with regard to an authoritative root server system (the "Authoritative Root Server System"), ICANN shall use commercially reasonable efforts to (i) ensure that the authoritative root will point to the top-level domain nameservers designated by Registry Operator for the TLD, (ii) maintain a stable, secure, and authoritative publicly available database of relevant information about the TLD, in accordance with ICANN publicly available policies and procedures, and (iii) coordinate the Authoritative Root Server System so that it is operated and maintained in a stable and secure manner; provided, that ICANN shall not be in breach of this Agreement and ICANN shall have no liability in the event that any third party (including any governmental entity or internet service provider) blocks or restricts access to the TLD in any jurisdiction.

Section 3.3 Contractual and Compliance Audits.

(a) ICANN may from time to time (not to exceed twice per calendar year) conduct, or engage a third party to conduct, contractual compliance audits to assess compliance by Registry Operator with its representations and warranties contained in Article II of this Agreement and its covenants contained in Article III and Section 7.1 of this Agreement. Such audits shall be tailored to achieve the purpose of assessing compliance, and ICANN will (i) give reasonable advance notice of any such audit, which notice shall specify in reasonable detail the categories of documents, data and other information requested by ICANN and (ii) use commercially reasonable efforts to conduct such audit in such a manner as to not unreasonably disrupt the

operations of Registry Operator. As part of such audit and upon request by ICANN, Registry Operator shall timely provide all responsive documents, data and any other information necessary to demonstrate Registry Operator's compliance with this Agreement. Upon no less than ten (10) calendar days' notice (unless otherwise agreed to by Registry Operator), ICANN may, as part of any contractual compliance audit, conduct site visits during regular business hours to assess compliance by Registry Operator with its representations and warranties contained in Article II of this Agreement and its covenants contained in Article III and Section 7.1.

- (b) Any audit conducted pursuant to Section 3.3(a) will be at ICANN's expense, unless (i) Registry Operator (A) controls, is controlled by, is under common control or is otherwise Affiliated with, any ICANN accredited registrar or registrar reseller or any of their respective Affiliates, or (B) has subcontracted the provision of Registry Services to an ICANN accredited registrar or registrar reseller or any of their respective Affiliates, and, in either case of (A) or (B) above, the audit relates to Registry Operator's compliance with Section 3.1(c)(vi), in which case Registry Operator shall reimburse ICANN for all reasonable costs and expenses associated with the portion of the audit related to Registry Operator's compliance with Section 3.1(c)(vi), or (ii) the audit is related to a discrepancy in the fees paid by Registry Operator hereunder in excess of 5% to ICANN's detriment, in which case Registry Operator shall reimburse ICANN for all reasonable costs and expenses associated with the entirety of such audit. In either such case of (i) or (ii) above, such reimbursement will be paid together with the next Registry-Level Fee payment due following the date of transmittal of the cost statement for such audit.
- (c) Notwithstanding Section 3.3(a), if Registry Operator is found not to be in compliance with its representations and warranties contained in Article II of this Agreement or its covenants contained in Article III or Section 7.1 of this Agreement in two consecutive audits conducted pursuant to Section 3.3(a), ICANN may increase the number of such audits to one per calendar quarter.
- (d) Registry Operator will give ICANN immediate notice of Registry Operator's knowledge of the commencement of any of the proceedings referenced in Section 6.1(b) or the occurrence of any of the matters specified in Section 6.1(d).

ARTICLE IV TERM OF AGREEMENT

Section 4.1 <u>Term</u>. The initial term of this Agreement shall be ten (10) years from the Effective Date (the <u>""Expiration Date"") and has been extended such that it will instead expire on 10 September 2021. Sponsor. Registry Operator agrees that upon the earlier of (i) termination of this Agreement by ICANN in accordance with Article VI below or (ii) the Expiration Date, it will cease to be the <u>Sponsorregistry operator</u> for the TLD, unless, with respect to termination under the foregoing clause (ii), <u>SponsorRegistry Operator</u> and ICANN agree on terms for renewal of the Agreement as set forth in Section 4.2 below prior to the Expiration Date- (together, the initial and any renewal terms shall constitute the "Term.")</u>

Section 4.2 <u>Renewal</u>. This Agreement shall be renewed upon the expiration of the initial term set forth in Section 4.1 above, and following any renewal term, unless: (i) an arbitrator or court has

determined that SponsorRegistry Operator has been in fundamental and material breach of Sponsor's Registry Operator's obligations set forth in Sections 3.1(a), (b), (d) or (e):; Section 3.3; Section 5.2; Section 7.1; or Section 7.2; despite notice and an opportunity to cure in accordance with Article VI hereof and (ii) following the final decision of such arbitrator or court, SponsorRegistry Operator has failed to correct the conduct found to constitute such breach-Provided; provided, however, that SponsorRegistry Operator agrees that any renewal of this Agreement is conditioned on its negotiation of renewal terms acceptable to ICANN, including, but not limited to, provisions relating to Sponsor level fees. Registry-Level Fees. The parties agree to initiate negotiations with respect to renewal of this Agreement at least six (6) months prior to the Expiration Date or the expiration of any renewal term thereafter, as applicable, then, unless the parties mutually agree to extend the Term and continue negotiations, the matter shall be determined pursuant to the dispute resolution provisions of Article V hereto.

Section 4.3 <u>Changes</u>. While this Agreement is in effect, the parties agree to engage in good faith negotiations at regular intervals (at least once every three calendar years following the Effective Date) regarding possible changes to the terms of the Agreement, including to Section 7.2 regarding fees and payments to ICANN.

Section 4.4 Failure to Perform in Good Faith. In the event SponsorRegistry Operator shall have been repeatedly and willfully in fundamental and material breach of Sponsor's Registry Operator's obligations set forth in Sections 3.1(a), (b), (d) or (e); Section 3.3; Section 5.2; Section 7.1; or Section 7.2, and arbitrators in accordance with Section 5.1(b) of this Agreement repeatedly have found SponsorRegistry Operator to have been in fundamental and material breach of this Agreement, including in at least three separate awards, then ICANN may request the arbitrators award such punitive, exemplary or other damages as they may believe appropriate under the circumstances.

ARTICLE V DISPUTE RESOLUTION

Section 5.1 Resolution of Disputes.

(a) Cooperative Engagement Mediation. In the event of a disagreement between Sponsor and ICANNany dispute arising under or out of on connection with this Agreement, either party may by notice to the other invoke the dispute resolution provisions of this Article V. Provided, however, that before either party may initiate arbitration as provided inpursuant to Section 5.1(b) below, ICANN and Sponsor Registry Operator must attempt to resolve the dispute by cooperative engagement as set forth in this Section 5.1(a). If either party provides written notice to the other demanding cooperative engagement as set forth in this Section 5.1(a), then each party will, within seven calendar days after such written notice is deemed received in accordance with Section 8.6 hereof, designate a single executive officer as its representative under this Section 5.1(a) with full authority to act on such party's behalf to resolve the dispute. The designated representatives shall, within 2 business days after being designated, confer by telephone or in person to attempt to resolve the dispute. If they are not able to resolve the dispute during such telephone conference or meeting, they shall further meet in person at a location reasonably designated by ICANN within 7 calendar days after such initial telephone conference or meeting, at which meeting the parties shall attempt to reach a definitive resolution. The time schedule and process set forth in this Section 5.1(a) may be modified with respect to any dispute, but only if both parties agree to a revised time schedule or process in writing in advance. Settlement

communications within the scope of this paragraph shall be inadmissible in any arbitration or litigation between the parties. through mediation in accordance with the following terms and conditions:

- (i) A party shall submit a dispute to mediation by written notice to the other party. The mediation shall be conducted by a single mediator selected by the parties. If the parties cannot agree on a mediator within fifteen (15) calendar days of delivery of written notice pursuant to this Section 5.1(a), the parties will promptly select a mutually acceptable mediation provider entity, which entity shall, as soon as practicable following such entity's selection, designate a mediator, who is a licensed attorney with general knowledge of contract law, has no ongoing business relationship with either party and, to the extent necessary to mediate the particular dispute, general knowledge of the domain name system. Any mediator must confirm in writing that he or she is not, and will not become during the term of the mediation, an employee, partner, executive officer, director, or security holder of ICANN or Registry Operator. If such confirmation is not provided by the appointed mediator, then a replacement mediator shall be appointed pursuant to this Section 5.1(a)(i).
- (ii) The mediator shall conduct the mediation in accordance with the rules and procedures that he or she determines following consultation with the parties. The parties shall discuss the dispute in good faith and attempt, with the mediator's assistance, to reach an amicable resolution of the dispute. The mediation shall be treated as a settlement discussion and shall therefore be confidential and may not be used against either party in any later proceeding relating to the dispute, including any arbitration pursuant to Section 5.1(b). The mediator may not testify for either party in any later proceeding relating to the dispute.
- (iii) Each party shall bear its own costs in the mediation. The parties shall share equally the fees and expenses of the mediator. Each party shall treat information received from the other party pursuant to the mediation that is appropriately marked as confidential as the confidential information of such other party.
- (iv) If the parties have engaged in good faith participation in the mediation but have not resolved the dispute for any reason, either party or the mediator may terminate the mediation at any time and the dispute can then proceed to arbitration pursuant to Section 5.1(b) below. If the parties have not resolved the dispute for any reason by the date that is ninety (90) calendar days following the date of the notice delivered pursuant to Section 5.1(a)(i), the mediation shall automatically terminate (unless extended by agreement of the parties) and the dispute can then proceed to arbitration pursuant to Section 5.1(b) below.
- (b) <u>Arbitration</u>. Disputes arising under or in connection with this Agreement that are not resolved pursuant to Section 5.1(a), including requests for specific performance, shall will be resolved through binding arbitration conducted as provided in this Section 5.1(b) pursuant to the rules of the International Court of Arbitration of the International Chamber of Commerce ("the "ICC""). The arbitration shall will be conducted in the English language and shall will occur in Los Angeles County, California, USA only following the failure to resolve the dispute pursuant to cooperative engagement discussions as set forth in Section 5.1(a) above. There shall be. Any arbitration will be in front of a single arbitrator, unless (i) ICANN is seeking punitive or exemplary damages, or operational sanctions or (ii) the parties agree in writing to a greater number of arbitrators. In the case of clauses (i) or (ii) in the preceding sentence, the arbitration will be in front of three

arbitrators: with each party shall choose nominating one arbitrator for confirmation by the ICC and, if the two selected arbitrators are not able to agree on anominating the third arbitrator, the third shall be chosen by the ICC. for confirmation by the ICC. For an arbitration in front of a sole arbitrator, Registry Operator and ICANN may, by mutual agreement, nominate the sole arbitrator for confirmation by the ICC. If the parties fail to nominate a sole arbitrator or, in the case of an arbitration in front of three arbitrators, either party fails to nominate an arbitrator, in each case within thirty (30) calendar days from the date when a party's request for arbitration has been received by the other party, or within such additional time as may be allowed by the Secretariat of the Court of the ICC, the arbitrator(s) shall be appointed by the ICC. If any nominated arbitrator is not confirmed by the ICC, the party or persons that appointed such arbitrator shall promptly nominate a replacement arbitrator for confirmation by the ICC. In order to expedite the arbitration and limit its cost, the arbitrator(s) shall establish page limits for the parties' filings in conjunction with the arbitration, and should the arbitrator(s) determine that a hearing is necessary, the hearing shall be limited to one (1) calendar day, provided that in any arbitration in which ICANN is seeking punitive or exemplary damages, or operational sanctions, the hearing may be extended for one (1) additional calendar day if agreed upon by the parties or ordered by the arbitrator(s) based on the arbitrator(s) independent determination or the reasonable request of one of the parties thereto. The prevailing party in the arbitration shall will have the right to recover its costs and reasonable attorneys!' fees, which the arbitrators arbitrator(s) shall include in their awards. Any party that seeks to confirm or vacate an arbitration award issued under this Section 5.1(b) may do so only the awards. In the event the arbitrators determine that Registry Operator has been repeatedly and willfully in fundamental and material breach of its obligations set forth in Section 3.1, Section 3.3, Section 5.2, Section 7.1 or Section 7.2 of this Agreement, ICANN may request the arbitrators award punitive or exemplary damages, or operational sanctions (including without limitation an order temporarily restricting Registry Operator's right to sell new registrations). Each party shall treat information received from the other party pursuant to the applicable arbitration statutes that is appropriately marked as confidential as the confidential information of such other party. In any litigation involving ICANN concerning this Agreement, jurisdiction and exclusive venue for such litigation shallwill be in a court located in Los Angeles County, California, USA; however, the parties shall will also have the right to enforce a judgment of such a court in any court of competent jurisdiction. For the purpose of aiding the arbitration and/or preserving the rights of the parties during the pendency of an arbitration, the parties shall have the right to seek a temporary stay or injunctive relief from the arbitration panel or a court, which shall not be a waiver of this agreement to arbitrate.

Section 5.2 <u>Specific Performance</u>. <u>SpensorRegistry Operator</u> and ICANN agree that irreparable damage could occur if any of the provisions of this Agreement was not performed in accordance with its specific terms. Accordingly, the parties agree that they each shall be entitled to seek from the arbitrators specific performance of the terms of this Agreement (in addition to any other remedy to which each party is entitled).

Section 5.3 <u>Limitation of Liability</u>. <u>ICANN's ICANN's</u> aggregate monetary liability for violations of this Agreement shall not exceed <u>thean</u> amount <u>of Sponsor-Levelequal to the Registry-Level</u>. Fees paid by <u>SponsorRegistry Operator</u> to ICANN within the preceding twelve-month period pursuant to <u>Section 7.2 of</u> this Agreement. <u>Sponsor's Registry Operator's</u> aggregate monetary liability to ICANN for violations of this Agreement shall be limited to <u>a maximum of 12 months</u>

fees an amount equal to the fees, and monetary sanctions damages under Section 4.4, if any, due and owing to ICANN under this Agreement within the preceding twelve-month period. In no event shall either party be liable for special, indirect, incidental, punitive, exemplary, or consequential damages arising out of or in connection with this Agreement or the performance or nonperformance of obligations undertaken in this Agreement, except as provided pursuant to Section 4.4 of this Agreement. EXCEPT AS OTHERWISE EXPRESSLY PROVIDED IN THIS AGREEMENT, SPONSOR DOES NOT MAKENEITHER PARTY MAKES ANY WARRANTY, EXPRESS OR IMPLIED, WITH RESPECT TO THE SERVICES RENDERED BY ITSELF, ITS SERVANTS, OR ITS AGENTS OR THE RESULTS OBTAINED FROM THEIR WORK, INCLUDING, WITHOUT LIMITATION, ANY IMPLIED WARRANTY OF MERCHANTABILITY, NON-INFRINGEMENT, OR FITNESS FOR A PARTICULAR PURPOSE.

ARTICLE VI TERMINATION PROVISIONS

Section 6.1 Termination by ICANN.

- (a) ICANN may terminate this Agreement if SponsorRegistry Operator fails to cure (i) any fundamental and material breach of Sponsor's Registry Operator's representations and warranties or obligations set forth in Sections Section 2.1; Section 3.1(a), (b), (d) or (e); Section 3.3; Section 5.2 or Section 7.1 or (ii) any breach of Section 7.2, in each case, despite notice and an opportunity to cure in accordance with Section 6.4 within thirty calendar days 6.3 after ICANN gives Sponsor delivers to Registry Operator written notice of the breach, which notice shall include with specificity the details of the alleged breach.
- (b) ICANN may, upon notice to Registry Operator, terminate this Agreement if (i) Registry Operator makes an assignment for the benefit of creditors or similar act, (ii) attachment, garnishment or similar proceedings are commenced against Registry Operator, which proceedings are a material threat to Registry Operator's ability to operate the registry for the TLD, and are not dismissed within sixty (60) calendar days of their commencement, (iii) a trustee, receiver, liquidator or equivalent is appointed in place of Registry Operator or maintains control over any of Registry Operator's property, (iv) execution is levied upon any material property of Registry Operator that, if levied, would reasonably be expected to materially and adversely affect Registry Operator's ability to operate the registry for the TLD, (v) proceedings are instituted by or against Registry Operator under any bankruptcy, insolvency, reorganization or other laws relating to the relief of debtors and such proceedings are not dismissed within sixty (60) calendar days of their commencement (if such proceedings are instituted by Registry Operator or its Affiliates) or one hundred and eighty (180) calendar days of their commencement (if such proceedings are instituted by a third party against Registry Operator), or (vi) Registry Operator files for protection under the United States Bankruptcy Code, 11 U.S.C. Section 101, et seq., or a foreign equivalent or liquidates, dissolves or otherwise discontinues its operations or the operation of the TLD.
- (c) ICANN may, upon thirty (30) calendar days' notice to Registry Operator, terminate this Agreement pursuant to a determination by any PDDRP panel or RRDRP panel under Section 2 of Specification 7 or a determination by any PICDRP panel under Section 3, or any other

applicable Section, of Specification 11, subject to Registry Operator's right to challenge such termination as set forth in the applicable procedure described therein.

(d) ICANN may, upon notice to Registry Operator, terminate this Agreement if (i) Registry Operator knowingly employs any officer who is convicted of a misdemeanor related to financial activities or of any felony, or is judged by a court of competent jurisdiction to have committed fraud or breach of fiduciary duty, or is the subject of a judicial determination that ICANN reasonably deems as the substantive equivalent of any of the foregoing and such officer is not terminated within thirty (30) calendar days of Registry Operator's knowledge of the foregoing, or (ii) any member of Registry Operator's board of directors or similar governing body is convicted of a misdemeanor related to financial activities or of any felony, or is judged by a court of competent jurisdiction to have committed fraud or breach of fiduciary duty, or is the subject of a judicial determination that ICANN reasonably deems as the substantive equivalent of any of the foregoing and such member is not removed from Registry Operator's board of directors or similar governing body within thirty (30) calendar days of Registry Operator's knowledge of the foregoing.

(e) ICANN may, upon thirty (30) calendar days' notice to Registry Operator, terminate this Agreement as specified in Section 8.5.

Section 6.2 <u>Termination by Sponsor</u>. Sponsor <u>Registry Operator</u>. Registry <u>Operator</u> may terminate this agreement and its designation as <u>Sponsor Registry Operator</u> for the TLD pursuant to 120 days prior notice in writing to ICANN, and subject to compliance with <u>section 6.5 Section 6.4</u> hereof. <u>Section 6.3 Bankruptcy</u>. This <u>Agreement shall automatically terminate in the event Sponsor shall voluntarily or involuntarily be subject to bankruptcy proceedings and such proceeding is not dismissed within sixty (60) days.</u>

Section 6.46.3 Notice; Opportunity to Cure. This Agreement may be terminated in the circumstances described in Section 6.1(a) above only following written notice to Sponsor and Sponsor's Registry Operator and Registry Operator's failure to cure within thirty (30) days or such other reasonable prescribed time period, with Sponsorafter the date ICANN gives such notice of such breach, with Registry Operator being given a reasonable opportunity during that time to initiate arbitration under Section 5.1(b) to determine the appropriateness of such termination under this Agreement. In the event SponsorRegistry Operator initiates arbitration concerning the appropriateness of such termination by ICANN, SponsorRegistry Operator may at the same time request that the arbitration panel stay the such termination until the arbitration decision is rendered, and that request shall have the effect of staying the such termination until the decision or until the arbitration panel has granted an ICANN request for lifting of the stay.

Section 6.56.4 Transition of Registry Operator upon Termination of Agreement. Upon expiration of the Term pursuant to Section 4.1 or Section 4.2 or any termination of this Agreement as provided inpursuant to Sections 6.1 andor 6.2, the parties agree to work cooperatively to facilitate and implement the transition of the registry for the TLD in accordance with this Section 6.5. Sponsor shall agree to 6.4. Registry Operator shall provide ICANN or any successor Sponsor authority registry operator that may be designated by ICANN for the TLD with any data regarding operations of the Sponsor for the TLD necessary to maintain operations that may be reasonably requested in addition to that in accordance with this Section 6.4 with all data (including the data escrowed in accordance with Section 3.1(eb)(i) hereof, including the private portions of the TLD zone key signing

keys and zone signing keys.) 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 for DNS and WHOIS records with respect to the TLD in the event of a transition of the TLD pursuant to this Section 6.4.

Section 6.6 Rights in Data. Sponsor shall not be entitled to claim any intellectual property rights in Registry Data. In the event that Sponsor Data is released from escrow as set forth in Section 3.1(e)(i), rights, if any, held by Sponsor in the data shall automatically be licensed on a non-exclusive, irrevocable, royalty free, paid up basis to ICANN or to a party designated in writing by ICANN.

Section 6.5 Ownership Rights. Nothing contained in this Agreement shall be construed as (a) establishing or granting to Registry Operator any property ownership rights or interests of Registry Operator in the TLD or the letters, words, symbols or other characters making up the

TLD string or any Registry Data, or (b) affecting any existing intellectual property or ownership

rights of Registry Operator.

Section 6.7 Appointment of a Successor Sponsor. In the event ICANN shall find it necessary to select another party to serve as a sponsor for the .aero TLD following termination of this Agreement, ICANN shall, in the process of re-delegation of the TLD, consult with and seek input from representatives of the aviation community including but not limited to the International Civil Aviation Organisation, International Air Transport Association, Airports Council International, Air Transport Association, Federation Aeronautique Internationale, National Business Aviation Association and ARINC. In undertaking such consultative process in redelegation of the TLD, ICANN shall consider to the fullest extent possible the interests of the global aviation community to provide for and support the efficient, safe, and secure transport of people and cargo by air.

Section 6.6 No Reimbursement. Any and all expenditures, capital investments or other investments made by Registry Operator in connection with this Agreement shall be at Registry Operator's own risk and ICANN shall have no obligation to reimburse Registry Operator for any such expense, capital expenditure or investment. Registry Operator shall not be required to make any payments to a successor registry operator by reason of registry fees paid to Registry Operator prior to the effective date of (i) any termination or expiration of this Agreement or (ii) transition of the registry, unless any delay in transition of the Registry Operator to a successor

operator shall be due to the actions of Registry Operator. Resolution of any dispute concerning such delays will be governed by the Rules of Dispute as described in Section 5.1.

Section 6.7 Effect of Termination. Upon any expiration of the Term or termination of this Agreement, the obligations and rights of the parties hereto shall cease, provided that such expiration or termination of this Agreement shall not relieve the parties of any obligation or breach of this Agreement accruing prior to such expiration or termination, including, without limitation, all accrued payment obligations arising under Section 7.2. In addition, Article V, Article VIII, Section 6.4, Section 6.5, Section 6.6, and this Section 6.7 shall survive the expiration or termination of this Agreement. For the avoidance of doubt, the rights of Registry Operator to operate the registry for the TLD shall immediately cease upon any expiration of the Term or termination of this Agreement.

ARTICLE VII SPECIAL PROVISIONS

Section 7.1 Registry Operator Registrar Registry-Registrar Agreement.

- (a) Access to SponsorRegistry Services. SponsorRegistry Operator shall make access to SponsorApproved Services, including the shared registration system, available to ICANN-accredited registrars. The criteria for the selection of Registrars shall be set forth in Appendix S, part VSpecification 12, Part IV. Following execution of the Registry Operator Registrar Registry-Registrar Agreement, provided registrars are in compliance with such agreement, operationalRegistry Operator shall provide nondiscriminatory access to SponsorApproved Services, including the shared registration system for the TLD. Such nondiscriminatory access shall include without limitation the following:
- (i) All registrars (including any registrar affiliated with SponsorRegistry Operator) can connect to the shared registration system gateway for the TLD via the Internet by utilizing the same maximum number of IP addresses and SSL certificate authentication;
- (ii) SponsorRegistry Operator has made the current version of the registrar toolkit software accessible to all registrars and has made any updates available to all registrars on the same schedule;
- (iii) All registrars have the same level of access to customer support personnel via telephone, e-mail and Sponsor's Registry Operator's website;
- (iv) All registrars have the same level of access to <u>Sponsorregistry</u> resources to resolve <u>Sponsorregistry</u>/registrar or registrar/registrar disputes and technical and/or administrative customer service issues;
- (v) All registrars have the same level of access to data generated by <u>SponsorRegistry</u> <u>Operator</u> to reconcile their registration activities from <u>Sponsor'sRegistry Operator's</u> Web and ftp servers;

- (vi) All registrars may perform basic automated registrar account management functions using the same registrar tool made available to all registrars by SponsorRegistry Operator; and
- (vii) The shared registration system does not include, for purposes of providing discriminatory access, any algorithms or protocols that differentiate among registrars with respect to functionality, including database access, system priorities and overall performance.

Such Registry Operator Registrar Registry-Registrar Agreement may be revised by Sponsor Registry Operator from time to time in relation to points (i) to (vii) above, provided however, that any such revisions must be approved in advance by ICANN.

- (b) <u>SponsorRegistry Operator Shall Not Act as Own Registrar</u>. <u>SponsorRegistry Operator</u> shall not act as a registrar with respect to the TLD, <u>except to the extent described in Appendix S Part 6</u>. This shall not preclude <u>SponsorRegistry Operator</u> from registering names within the TLD to itself through a request made to an ICANN-accredited registrar.
- (c) Restrictions on Acquisition of Ownership or Controlling Interest in Registrar. Sponsor Registry Operator shall not acquire, directly or indirectly, control of, or a greater than fifteen percent ownership interest in, any ICANN-accredited registrar-, without ICANN's prior approval in writing, which approval shall not be unreasonably withheld. If Registry Operator (i) becomes an Affiliate or reseller of an ICANN accredited registrar, or (ii) subcontracts the provision of any Approved Services to an ICANN accredited registrar, registrar reseller or any of their respective Affiliates, then, in either such case of (i) or (ii) above, Registry Operator will give ICANN prompt notice of the contract, transaction or other arrangement that resulted in such affiliation, reseller relationship or subcontract, as applicable, including, if requested by ICANN, copies of any contract relating thereto; provided, that ICANN will not disclose such contracts to any third party other than relevant competition authorities. ICANN reserves the right, but not the obligation, to refer any such contract, transaction or other arrangement to relevant competition authorities in the event that ICANN determines that such contract, transaction or other arrangement might raise competition issues. For the purposes of this Agreement: (i) "Affiliate" means a person or entity that, directly or indirectly, through one or more intermediaries, controls, is controlled by, or is under common control with, the person or entity specified, and (ii) "control" (including the terms "controlled by" and "under common control with") means the possession, directly or indirectly, of the power to direct or cause the direction of the management or policies of a person or entity, whether through the ownership of securities, as trustee or executor, by serving as an employee or a member of a board of directors or equivalent governing body, by contract, by credit arrangement or otherwise.
- (d) Compliance Actions. Registry Operator acknowledges that all ICANN-accredited registrars must enter into a registrar accreditation agreement ("RAA") with ICANN and ICANN may take certain compliance actions in response to an emergency or in accordance with the terms of the RAA, including suspension or termination of a registrar's accreditation or suspension of a registrar's ability to create new registered names or initiate inbound transfers of registered names. ICANN may require Registry Operator to take specific actions consistent with ICANN's authority under the terms of the RAA to: (i) suspend or terminate a registrar's ability to create new registered names or (ii) transfer registered names to a registrar designated by ICANN.

Section 7.2 Fees to be Paid to ICANN.

- (a) Payment Schedule. Sponsor Registry Operator shall pay to ICANN either the annual Fixed Sponsor Level Registry-Level Fee specified in Section 7.2(b) or the quarterly Sponsor Level Registry-Level Transaction Fee Sponsor Level Registry-level Fee shall be paid by the 20th day following the end of the relevant fiscal year. Any Sponsor Level Registry-Level Transaction Fees, and payments pursuant to Section 7.2(d), if any, shall be paid by the 20th day following the end of each calendar quarter of such year (i.e., on April 20, July 20, October 20 and January 20 for the calendar quarters ending March 31, June 30, September 30 and December 31) to an account designated by ICANN.
- (b) Sponsor-LevelFixed Registry-Level Fee. The fixed annual fee shall be based on the level of registered names within the TLD as of 30 June of each year as follows: if fewer than 5,000 registered names, the annual Sponsor LevelRegistry-Level Fee is \$500; if 5,000 or more registered names, but fewer than 50,000, the annual Sponsor LevelRegistry-Level Fee is \$5,000. If the Sponsorregistry for the TLD shall have 50,000 or more registered names as of such date, the SponsorRegistry Operator shall be subject to a Sponsor LevelRegistry-Level Transaction Fee for each fiscal quarter as outlined in Section 7.2(c) below. As used in this Section 7.2, ""registered names" shall mean each annual increment of an initial or renewal (including renewals associated with transfers from one ICANN-accredited registry to another) domain name registration.
- (c) Sponsor LevelRegistry-Level Transaction Fee. If the Sponsor Registry Operator has in excess of 50,000 registered names as of 30 June, it will be assessed a transaction fee for each fiscal quarter of the ICANN fiscal year. In such event, Sponsor Registry Operator shall pay ICANN a Registry-Level transaction fee on the schedule provided in Section 7.2(a) in an amount equal to US\$0.25 for each annual increment of an initial or renewal (including renewals associated with transfers from one ICANN-accredited registry to another, each a "Transaction") domain name registration during the calendar quarter to which the Sponsor-LevelRegistry-Level Transaction Fee pertains.
- (d) <u>Variable Sponsor Level Fee</u>. For fiscal quarters in which ICANN does not collect a variable accreditation fee from all registrars, upon receipt of reasonable notice in writing from ICANN of not less than 45 days, Sponsor shall pay ICANN a Variable Sponsor Level Fee. The fee will be calculated by ICANN, paid to ICANN by the Sponsor in accordance with the Payment Schedule in Section 7.2(a), and the Sponsor will invoice and collect the fees from the registrars who are party to a Registry Operator-Registrar Agreement with Sponsor. The fee will consist of two components; each component will be calculated by ICANN for each registrar.
- (d) Variable Registry-Level Fee. If the ICANN accredited registrars (accounting, in the aggregate, for payment of two-thirds of all registrar-level fees (or such portion of ICANN accredited registrars necessary to approve variable accreditation fees under the then-current registrar accreditation agreement), do not approve, pursuant to the terms of their registrar accreditation agreements with ICANN, the variable accreditation fees established by the ICANN Board of Directors for any ICANN fiscal year, upon delivery of notice from ICANN, Registry Operator shall pay to ICANN a variable registry-level fee, which shall be paid on a fiscal quarter basis, and shall accrue as of the beginning of the first fiscal quarter of such ICANN fiscal year

(the "Variable Registry-Level Fee"). The fee will be calculated and invoiced by ICANN on a quarterly basis, and shall be paid by Registry Operator within sixty (60) calendar days with respect to the first quarter of such ICANN fiscal year and within twenty (20) calendar days with respect to each remaining quarter of such ICANN fiscal year, of receipt of the invoiced amount by ICANN. The Registry Operator may invoice and collect the Variable Registry-Level Fees from the registrars that are party to a Registry-Registrar Agreement with Registry Operator (which agreement may specifically provide for the reimbursement of Variable Registry-Level Fees paid by Registry Operator pursuant to this Section 7.2(d)); provided, that the fees shall be invoiced to all ICANN accredited registrars if invoiced to any. The Variable Registry-Level Fee, if collectible by ICANN, shall be an obligation of Registry Operator and shall be due and payable as provided in this Section 7.2(d) irrespective of Registry Operator's ability to seek and obtain reimbursement of such fee from registrars. In the event ICANN later collects variable accreditation fees for which Registry Operator has paid ICANN a Variable Registry-Level Fee. ICANN shall reimburse the Registry Operator an appropriate amount of the Variable Registry-Level Fee, as reasonably determined by ICANN. If the ICANN accredited registrars (as a group) do approve, pursuant to the terms of their registrar accreditation agreements with ICANN, the variable accreditation fees established by the ICANN Board of Directors for a fiscal year, ICANN shall not be entitled to a Variable-Level Fee hereunder for such fiscal year, irrespective of whether the ICANN accredited registrars comply with their payment obligations to ICANN during such fiscal year. The amount of the Variable Registry-Level Fee will be specified for each registrar, and may include both a per-registrar component and a transactional component.

- (i) The transactional component of the Variable Registry-Level Fee shall be specified by ICANN in accordance with the budget adopted by the ICANN Board of Directors for the relevant each ICANN fiscal year but shall not exceed US\$0.25 per domain name registration (including renewals associated with transfers from one ICANN accredited registrar to another) per year.
- (ii) The per-registrar component of the Variable Sponsor-LevelRegistry-Level Fee shall be specified by ICANN in accordance with the budget adopted by the ICANN Board of Directors for each ICANN fiscal year, but the sum of the per registrar fees calculated for all registrars shall not exceed the total Per Registrar Variable funding established pursuant to the approved 2004-2005 ICANN Budget.
- (e) Cost Recovery for RSTEP. Requests by Registry Operator for the approval of Additional Services pursuant to Section 3.1(c)(iii) may be referred by ICANN to the Registry Services Technical Evaluation Panel ("RSTEP") pursuant to that process at http://www.icann.org/en/registries/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.
- (ef) <u>Interest on Late Payments</u>. For any payments ten days or more overdue, <u>SponsorRegistry Operator</u> shall pay interest on late payments at the rate of 1.5% per month or, if less, the maximum rate permitted by applicable law.

ARTICLE VIII MISCELLANEOUS

Section 8.1 Indemnification of ICANN. Sponsor

(a) Registry Operator shall indemnify, and defend, and hold harmless ICANN (including and its directors, officers, employees, and agents (collectively, "Indemnitees") from and against any and all third-party claims, damages, liabilities, costs, and expenses, including reasonable legal fees and expenses, arising out of (a) establishment or or relating to intellectual property ownership rights with respect to the TLD, the delegation of the TLD to Registry Operator, Registry Operator's operation of the registry for the TLD; (b) Sponsor Services; (c) collection or handling of Personal Data by Sponsor; (d) any dispute concerning registration of a domain name within the domain of the TLD for the Sponsor; and (e) duties and obligations of Sponsor in operating the registry for the TLD; provided that, with respect to item (e) only, Sponsor or Registry Operator's provision of Approved Services, provided that Registry Operator shall not be obligated to indemnify, or defend, or hold harmless ICANN any Indemnitee to the extent the claim, damage, liability, cost, or expense arose: (i) due to the actions or omissions of ICANN, its subcontractors, panelists or evaluators specifically related to and occurring during the registry TLD application process (other than actions or omissions requested by or for the benefit of Registry Operator), or (ii) due to a breach by ICANN of any obligation contained in this Agreement. For avoidance of doubt, nothing in this or any willful misconduct by ICANN. This Section 8.1-shall not be deemed to require Sponsor Registry Operator to reimburse or otherwise indemnify ICANN for the costs associated with the negotiation or execution of this Agreement, or with the monitoring or management of the parties' respective obligations under this Agreementhereunder. Further, this section shall not apply to any request for attorney's attorney's fees in connection with any litigation or arbitration between or among the parties, which shall be governed by Article V or otherwise awarded by a court of competent jurisdiction or arbitrator.

(b) For any claims by ICANN for indemnification whereby multiple registry operators (including Registry Operator) have engaged in the same actions or omissions that gave rise to the claim, Registry Operator's aggregate liability to indemnify ICANN with respect to such claim shall be limited to a percentage of ICANN's total claim, calculated by dividing the number of total domain names under registration with Registry Operator within the TLD (which names under registration shall be calculated consistently with Article VI hereof for any applicable quarter) by the total number of domain names under registration within all top level domains for which the registry operators thereof are engaging in the same acts or omissions giving rise to such claim. For the purposes of reducing Registry Operator's liability under Section 8.1(a) pursuant to this Section 8.1(b), Registry Operator shall have the burden of identifying the other registry operators that are engaged in the same actions or omissions that gave rise to the claim, and demonstrating, to ICANN's reasonable satisfaction, such other registry operators' culpability for such actions or omissions. For the avoidance of doubt, in the event that a registry operator is engaged in the same acts or omissions giving rise to the claims, but such registry operator(s) do not have the same or similar indemnification obligations to ICANN as set forth in Section 8.1(a) above, the number of domains under management by such registry operator(s) shall nonetheless be included in the calculation in the preceding sentence.

Section 8.2 <u>Indemnification Procedures</u>. If any third-party claim is commenced that is indemnified under Section 8.1 above, notice thereof shall be given to ICANN as promptly as

practicable. Sponsor Registry Operator shall be entitled, if it so elects, in a notice promptly delivered to ICANN, to immediately take control of the defense and investigation of such claim and to employ and engage attorneys reasonably acceptable to the indemnified party to handle and defend the same, at the indemnifying party's sole cost and expense, provided that in all events ICANN shall be entitled to control at its sole cost and expense the litigation of issues concerning the validity or interpretation of ICANN policies or conduct. ICANN shall cooperate, at its own cost, in all reasonable respects with Sponsor Registry Operator and its attorneys in the investigation, trial, and defense of such claim and any appeal arising therefrom; provided, however, that the indemnified party may, at its own cost and expense, participate, through its attorneys or otherwise, in such investigation, trial and defense of such claim and any appeal arising therefrom. No settlement of a claim that involves a remedy affecting ICANN other than the payment of money in an amount that is indemnified shall be entered into without the consent of ICANN. If Sponsor Registry Operator does not assume full control over the defense of a claim subject to such defense in accordance with this Section, Sponsor Registry Operator may participate in such defense, at its sole cost and expense, and ICANN shall have the right to defend the claim in such manner as it may deem appropriate, at the cost and expense of Sponsor Registry Operator.

Section 8.3 No Offset. All payments due under this Agreement shall be made in a timely manner throughout the term of this Agreement and notwithstanding the pendency of any dispute (monetary or otherwise) between SpensorRegistry Operator and ICANN.

Section 8.4 <u>Use of ICANN Name and Logo</u>. ICANN grants to <u>SponsorRegistry Operator</u> a non-exclusive royalty-free license to state that it is designated by ICANN as the <u>SponsorRegistry Operator</u> for the TLD and to use a logo specified by ICANN to signify that <u>SponsorRegistry Operator</u> is an ICANN-designated registry authority. This license may not be assigned or sublicensed by <u>SponsorRegistry Operator</u>.

Section 8.5 Assignment and Subcontracting. Any assignment of this Agreement shall be effective only upon written agreement by the assignee with the other party to assume the assigning party's obligations under this Agreement. Moreover Except as set forth in this Section 8.5, neither party may assign any of its rights and obligations under this Agreement without the prior written approval of the other party. Notwithstanding the foregoing, ICANN may assign this Agreement (i) in conjunction with a reorganization or re-incorporation of ICANN, to another nonprofit corporation organized for the same or substantially the same purposes, or (ii) as may be required pursuant to the terms of that certain Memorandum of Understanding between ICANN and the U.S. Department of Commerce, as the same may be amended from time to time. Sponsor must provide notice to ICANN of any subcontracting arrangements, and any agreement to subcontract portions of the operations of the TLD must mandate compliance with all covenants, obligations and agreements by Sponsor hereunder. Any subcontracting of technical operations shall provide that the subcontracted entity become party to the data escrow agreement mandated by Section 3.1(c)(i) hereof., which approval will not be unreasonably withheld. For purposes of this Section 8.5, a direct or indirect change of control of Registry Operator or any subcontracting arrangement that relates to any Critical Function (as identified in Section 6 of Specification 10) for the TLD (a "Material Subcontracting Arrangement") shall be deemed an assignment.

- (a) Registry Operator must provide no less than thirty (30) calendar days advance notice to ICANN of any assignment or Material Subcontracting Arrangement, and any agreement to assign or subcontract any portion of the operations of the TLD (whether or not a Material Subcontracting Arrangement) must mandate compliance with all covenants, obligations and agreements by Registry Operator hereunder, and Registry Operator shall continue to be bound by such covenants, obligations and agreements. Registry Operator must also provide no less than thirty (30) calendar days advance notice to ICANN prior to the consummation of any transaction anticipated to result in a direct or indirect change of control of Registry Operator.
- (b) Within thirty (30) calendar days of either such notification pursuant to Section 8.5(a), ICANN may request additional information from Registry Operator establishing (i) compliance with this Agreement and (ii) that the party acquiring such control or entering into such assignment or Material Subcontracting Arrangement (in any case, the "Contracting Party") and the ultimate parent entity of the Contracting Party meets the ICANN-adopted specification or policy on registry operator criteria then in effect (including with respect to financial resources and operational and technical capabilities), in which case Registry Operator must supply the requested information within fifteen (15) calendar days.
- (c) Registry Operator agrees that ICANN's consent to any assignment, change of control or Material Subcontracting Arrangement will also be subject to background checks on any proposed Contracting Party (and such Contracting Party's Affiliates).
- (d) If ICANN fails to expressly provide or withhold its consent to any assignment, direct or indirect change of control of Registry Operator or any Material Subcontracting Arrangement within thirty (30) calendar days of ICANN's receipt of notice of such transaction (or, if ICANN has requested additional information from Registry Operator as set forth above, thirty (30) calendar days of the receipt of all requested written information regarding such transaction) from Registry Operator, ICANN shall be deemed to have consented to such transaction.
- (e) In connection with any such assignment, change of control or Material Subcontracting Arrangement, Registry Operator shall comply with the Registry Transition Process.
- (f) Notwithstanding the foregoing, (i) any consummated change of control shall not be voidable by ICANN; provided, however, that, if ICANN reasonably determines to withhold its consent to such transaction, ICANN may terminate this Agreement pursuant to Section 6.1(e), (ii) ICANN may assign this Agreement without the consent of Registry Operator upon approval of the ICANN Board of Directors in conjunction with a reorganization, reconstitution or reincorporation of ICANN upon such assignee's express assumption of the terms and conditions of this Agreement, (iii) Registry Operator may assign this Agreement without the consent of ICANN directly to a wholly-owned subsidiary of Registry Operator, or, if Registry Operator is a wholly-owned subsidiary, to its direct parent or to another wholly-owned subsidiary of its direct parent, upon such subsidiary's or parent's, as applicable, express assumption of the terms and conditions of this Agreement, and (iv) ICANN shall be deemed to have consented to any assignment, Material Subcontracting Arrangement or change of control transaction in which the Contracting Party is an existing operator of a generic top-level domain pursuant to a registry agreement between such Contracting Party and ICANN (provided that such Contracting Party is

then in compliance with the terms and conditions of such registry agreement in all material respects), unless ICANN provides to Registry Operator a written objection to such transaction within ten (10) calendar days of ICANN's receipt of notice of such transaction pursuant to this Section 8.5. Notwithstanding Section 8.5(a), in the event an assignment is made pursuant to clauses (ii) or (iii) of this Section 8.5(f), the assigning party will provide the other party with prompt notice following any such assignment.

Section 8.6 <u>Amendments and Waivers</u>. No amendment, supplement, or modification of this Agreement or any provision hereof shall be binding unless executed in writing by both parties. No waiver of any provision of this Agreement shall be binding unless evidenced by a writing signed by the party waiving compliance with such provision. No waiver of any of the provisions of this Agreement or failure to enforce any of the provisions hereof shall be deemed or shall constitute a waiver of any other provision hereof, nor shall any such waiver constitute a continuing waiver unless otherwise expressly provided.

Section 8.7 No Third-Party Beneficiaries. This Agreement shall not be construed to create any obligation by either ICANN or SponsorRegistry Operator to any non-party to this Agreement, including any registry operator, registrar or registered name holder.

Section 8.8 Notices, Designations, and Specifications. All notices to be given under or in relation to this Agreement shall be given either (i) in writing at the address of the appropriate party as set forth below or (ii) via facsimile or electronic mail as provided below, unless that party has given a notice of change of postal or email address, or facsimile number, as provided in this agreement. Any change in the contact information for notice below shall be given by the party within 30 days of such change. Any notice required by this Agreement shall 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) if via facsimile or by electronic mail, upon confirmation of receipt by the recipient's facsimile machine or email server, provided that such notice via facsimile or electronic mail shall be followed by a copy sent by regular postal mail service within two (2) business days. Whenever this Agreement shall specify a URL address for certain information, SponsorRegistry Operator shall be deemed to have been given notice of any such information when electronically posted at the designated URL. In the event other means of notice shall become practically achievable, such as notice via a secure website, the parties shall work together to implement such notice means under this Agreement.

If to ICANN, addressed to:

Internet Corporation for Assigned Names and Numbers

4676 Admiralty Way, Suite 330

12025 Waterfront Drive

Suite 300

Marina del ReyLos Angeles, California 9029290094

Telephone: 1/310/823-9358 Facsimile: 1/310/823-8649 Attention: President and CEO

With a Required Copy to: General Counsel Email: as specified from time to time

If to Sponsor Registry Operator, addressed to:

SITA INC USA, Inc.

3100 Cumberland Boulevard, Suite 900

Atlanta, Georgia 30339

Telephone: 1/-770-612-2256850-4548

Mobile: 1-404-889-2356 Facsimile: 14-770-955-3225

Attention: Brian Cook Bryan P. Crowell Director, Regulatory & Government Affairs

Email: bryan.crowell@sita.aero

VP Airline & Pass Solutions Line

Section 8.9 <u>Language</u>. <u>Notwithstanding</u> any translated version of this Agreement and/or specifications that may be provided to Registry Operator, the English language version of this Agreement and all referenced specifications are the official versions that bind the parties hereto. <u>In the event of any conflict or discrepancy between any translated version of this Agreement and the English language version, the English language version controls.</u> Notices, designations, determinations, and specifications made under this Agreement shall be in the English language.

Section 8.10 <u>Counterparts</u>. This Agreement may be executed in one or more counterparts, each of which shall be deemed an original, but all of which together shall constitute one and the same instrument.

Section 8.11 Entire Agreement. This Agreement (including its Appendices, which form a part of it) constitutes the entire agreement of the parties hereto pertaining to the operation of the TLD and supersedes all prior agreements, understandings, negotiations and discussions, whether oral or written, between the parties on that subject. In the event of a conflict between the provisions in the body of this Agreement and any provision in its Appendices, the provisions in the body of the Agreement shall control.

Section 8.12 Severability. 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 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.

Section 8.13 Defined Terms. For purposes of this Agreement, unless such definitions are amended pursuant to a Consensus Policy at a future date, in which case the following definitions shall be deemed amended and restated in their entirety as set forth in such Consensus Policy, Security and Stability shall be defined as follows:

- (a) For purposes of this Agreement, an effect on "Security" shall mean (1) the unauthorized disclosure, alteration, insertion or destruction of registry data, or (2) the unauthorized access to or disclosure of information or resources on the Internet by systems operating in accordance with all applicable standards.
- (b) For purposes of this Agreement, an effect on "Stability" shall refer to (1) lack of compliance with applicable relevant standards that are authoritative and published by a well-established and recognized Internet standards body, such as the relevant Standards-Track or Best Current Practice Requests for Comments ("RFCs") sponsored by the Internet Engineering Task Force; or (2) the creation of a condition that adversely affects the throughput, response time, consistency or coherence of responses to Internet servers or end systems operating in accordance with applicable relevant standards that are authoritative and published by well-established and recognized Internet standards body, such as the relevant Standards-Track or Best Current Practices RFCs, and relying on Registry Operator's delegated information or provisioning of services.

Section 8.14 Court Orders. ICANN will respect any order from a court of competent jurisdiction, including any orders from any jurisdiction where the consent or non-objection of the government was a requirement for the delegation of the TLD. Notwithstanding any other provision of this Agreement, ICANN's implementation of any such order will not be a breach of this Agreement

IN WITNESS WHEREOF, the parties hereto have caused this Agreement to be executed by their duly authorized representatives.

INTERNET CORPORATION FOR ASSIGNED NAMES AND NUMBERS

Date: 11 June 2009

By:			
Paul Twome			
Theresa Sw	nehart		
Senior Vice	President, Global Domains an	nd Strategy	
President & CEO			
Date:			
SITA INFORMA	TION NETWORK COMPUT	ΓING USA, INC.	
By: Harihar Su Director Bo	oramanian siness Finance – Americas		
Brian Cook Vice President	irline and Passenger Solutions		

APPENDIX 1 - Data Escrow Specification

This Appendix 1 to the Sponsored TLD Sponsorship Agreement consists of four of the five exhibits to the Data Escrow Agreement that constitutes Appendix 2 to the Sponsored TLD Registry Operator Agreement:

Exhibit A-Schedule for Escrow Deposits

Exhibit B-Escrow Deposit Format Specification

Exhibit C-Escrow Transfer Process

Exhibit D-Escrow Verification Procedures

The fifth exhibit (Exhibit E), which sets forth Escrow Agent's fees, is subject to negotiation between Registry Operator and Escrow Agent.

Exhibit A

SCHEDULE FOR ESCROW DEPOSITS

Full Deposit Schedule

Full Deposits shall consist of data that reflects the state of the registry as of 0000 UTC on each Sunday. Pending transactions at that time (i.e. transactions that have not been committed to the Registry Database) shall not be reflected in the Full Deposit.

Full Deposits shall be made, according to the transfer process described in Exhibit C below, within a four-hour window beginning at 0400 UTC on the same Sunday.

Incremental Deposit Schedule

Incremental Deposits shall reflect database transactions made since the most recent Full or Incremental Deposit. Incremental Deposits for Mondays shall include transactions completed through 0000 UTC on that day that had not been committed to the registry database at the time the last Full Deposit was taken. Incremental Deposits on Tuesday through Saturday shall include transactions completed through 0000 UTC on the day of the deposit that were not reflected in the immediately prior Incremental Deposit.

Incremental Deposits shall be made, according to the transfer process described in Exhibit C below, within a four hour window beginning at 0400 UTC on the day to which the Incremental Deposit relates.

EXHIBIT A

Approved Services

The ICANN gTLD Applicant Guidebook (located at http://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:

1. DNS Service – TLD Zone Contents

Notwithstanding anything else in this Agreement, as indicated in section 2.2.3.3 of the gTLD Applicant Guidebook, permissible contents for the TLD's DNS service are:

- 1.1. For the "Internet" (IN) Class:
 - 1.1.1. Apex SOA record
 - 1.1.2. Apex NS records and in-bailiwick glue for the TLD's DNS servers
 - 1.1.3. NS records and in-bailiwick glue for DNS servers of registered names in the TLD
 - 1.1.4. DS records for registered names in the TLD
 - 1.1.5. Records associated with signing the TLD zone (e.g., RRSIG, DNSKEY, NSEC, NSEC3PARAM and NSEC3)
 - 1.1.6. Apex TXT record for zone versioning purposes
 - 1.1.7. Apex TYPE65534 record for automatic dnssec signing signaling
- 1.2. For the "Chaos" (CH) Class:
 - 1.2.1. TXT records for server version/identification (e.g., TXT records for "version.bind.", "id.server.", "authors.bind" and/or "hostname.bind.")

(Note: The above language effectively does not allow, among other things, the inclusion of DNS resource records that would enable a dotless domain name (e.g., apex A, AAAA, MX records) in the TLD zone.)

If Registry Operator wishes to place any DNS resource record type or class into its TLD DNS service (other than those listed in Sections 1.1 or 1.2 above), it must describe in detail its proposal and submit a Registry Services Evaluation Process (RSEP) request. This will be evaluated per RSEP to determine whether the service would create a risk of a meaningful adverse impact on security or stability of the DNS. Registry Operator recognizes and acknowledges that a service based on the use of less-common DNS resource records and/or

classes in the TLD zone, even if approved, might not work as intended for all users due to lack of software support.

2. Whois Contact Lookup

Registry Operator may offer the Whois contact lookup service, which is a service that extends the functionality specified in Specification 4 by allowing the end-user to look up for Contact data using the contact ROID as the lookup key:

Query format: whois "contact 5372809-ERL"

Response format:

Contact ID: 5372808-ERL

Name: EXAMPLE REGISTRANT

Organization: EXAMPLE ORGANIZATION

Street: 123 EXAMPLE STREET

City: ANYTOWN
State/Province: AP
Postal Code: A1A1A1

Country: EX

Phone: +1.5555551212 Phone Ext: 1234 Fax: +1.5555551213

Fax Ext: 4321

Email: EMAIL@EXAMPLE.TLD

>>> Last update of WHOIS database: 2009-05-29T20:15:00Z <<<

3. Implementation Period

Registry Operator will have a 270 calendar days grace period, beginning on the Effective Date, to work with ICANN and backend providers to ensure that all technical operations and obligations have transitioned from the previous registry agreement for the TLD to this Registry Agreement.

SPECIFICATION 1

CONSENSUS POLICIES AND TEMPORARY POLICIES SPECIFICATION

1. Consensus Policies.

- 1.1. "Consensus Policies" are those policies established (1) pursuant to the procedure set forth in ICANN's Bylaws and due process, and (2) covering those topics listed in Section 1.2 of this Specification. The Consensus Policy development process and procedure set forth in ICANN's Bylaws may be revised from time to time in accordance with the process set forth therein.
- 1.2. Consensus Policies and the procedures by which they are developed shall be designed to produce, to the extent possible, a consensus of Internet stakeholders, including the operators of gTLDs. Consensus Policies shall relate to one or more of the following:
 - 1.2.1 issues for which uniform or coordinated resolution is reasonably necessary to facilitate interoperability, security and/or stability of the Internet or Domain Name System ("DNS");
 - <u>1.2.2</u> <u>functional and performance specifications for the provision of Registry Services;</u>
 - <u>1.2.3</u> Security and Stability of the registry database for the TLD;
 - <u>1.2.4</u> registry policies reasonably necessary to implement Consensus Policies relating to registry operations or registrars;
 - <u>1.2.5</u> resolution of disputes regarding the registration of domain names (as opposed to the use of such domain names); or
 - 1.2.6 restrictions on cross-ownership of registry operators and registrars or registrar resellers and regulations and restrictions with respect to registry operations and the use of registry and registrar data in the event that a registry operator and a registrar or registrar reseller are affiliated.
- 1.3. Such categories of issues referred to in Section 1.2 of this Specification shall include, without limitation:
 - <u>1.3.1</u> principles for allocation of registered names in the TLD (e.g., first-come/first-served, timely renewal, holding period after expiration);
 - <u>1.3.2</u> prohibitions on warehousing of or speculation in domain names by registries or registrars;
 - <u>1.3.3</u> reservation of registered names in the TLD that may not be registered initially or that may not be renewed due to reasons reasonably related to

- (i) avoidance of confusion among or misleading of users, (ii) intellectual property, or (iii) the technical management of the DNS or the Internet (e.g., establishment of reservations of names from registration); and
- 1.3.4 maintenance of and access to accurate and up-to-date information concerning domain name registrations; and procedures to avoid disruptions of domain name registrations due to suspension or termination of operations by a registry operator or a registrar, including procedures for allocation of responsibility for serving registered domain names in a TLD affected by such a suspension or termination.
- 1.4. In addition to the other limitations on Consensus Policies, they shall not:
 - <u>1.4.1</u> prescribe or limit the price of Registry Services;
 - <u>1.4.2</u> modify the terms or conditions for the renewal or termination of the Registry Agreement;
 - <u>1.4.3</u> modify the limitations on Temporary Policies (defined below) or Consensus Policies;
 - <u>1.4.4</u> modify the provisions in the registry agreement regarding fees paid by Registry Operator to ICANN; or
 - <u>1.4.5</u> modify ICANN's obligations to ensure equitable treatment of registry operators and act in an open and transparent manner.
- 2. Temporary Policies. Registry Operator shall comply with and implement all specifications or policies established by the Board on a temporary basis, if adopted by the Board by a vote of at least two-thirds of its members, so long as the Board reasonably determines that such modifications or amendments are justified and that immediate temporary establishment of a specification or policy on the subject is necessary to maintain the Stability or Security of Registry Services or the DNS ("Temporary Policies").
 - 2.1. Such proposed specification or policy shall be as narrowly tailored as feasible to achieve those objectives. In establishing any Temporary Policy, the Board shall state the period of time for which the Temporary Policy is adopted and shall immediately implement the Consensus Policy development process set forth in ICANN's Bylaws.
 - 2.1.1 ICANN shall also issue an advisory statement containing a detailed explanation of its reasons for adopting the Temporary Policy and why the Board believes such Temporary Policy should receive the consensus support of Internet stakeholders.

- 2.1.2 If the period of time for which the Temporary Policy is adopted exceeds ninety (90) calendar days, the Board shall reaffirm its temporary adoption every ninety (90) calendar days for a total period not to exceed one (1) year, in order to maintain such Temporary Policy in effect until such time as it becomes a Consensus Policy. If the one (1) year period expires or, if during such one (1) year period, the Temporary Policy does not become a Consensus Policy and is not reaffirmed by the Board, Registry Operator shall no longer be required to comply with or implement such Temporary Policy.
- 3. Notice and Conflicts. Registry Operator shall be afforded a reasonable period of time following notice of the establishment of a Consensus Policy or Temporary Policy in which to comply with such policy or specification, taking into account any urgency involved. In the event of a conflict between Registry Services and Consensus Policies or any Temporary Policy, the Consensus Polices or Temporary Policy shall control, but only with respect to subject matter in conflict.

SPECIFICATION 2

DATA ESCROW REQUIREMENTS

Registry Operator will engage an independent entity to act as data escrow agent ("Escrow Agent") for the provision of data escrow services related to the Registry Agreement. The following Technical Specifications set forth in Part A, and Legal Requirements set forth in Part B, will be included in any data escrow agreement between Registry Operator and the Escrow Agent, under which ICANN must be named a third-party beneficiary. In addition to the following requirements, the data escrow agreement may contain other provisions that are not contradictory or intended to subvert the required terms provided below.

PART A – TECHNICAL SPECIFICATIONS

- 1. Deposits. There will be two types of Deposits: Full and Differential. For both types, the universe of Registry objects to be considered for data escrow are those objects necessary in order to offer all of the approved Registry Services.
 - 1.1. "Full Deposit" will consist of data that reflects the state of the registry as of 00:00:00 UTC (Coordinated Universal Time) on the day that such Full Deposit is submitted to Escrow Agent.
 - 1.2. "Differential Deposit" means data that reflects all transactions that were not reflected in the last previous Full or Differential Deposit, as the case may be.

 Each Differential Deposit will contain all database transactions since the previous Deposit was completed as of 00:00:00 UTC of each day, but Sunday. Differential Deposits must include complete Escrow Records as specified below that were not included or changed since the most recent full or Differential Deposit (i.e., all additions, modifications or removals of data).
- 2. Schedule for Deposits. Registry Operator will submit a set of escrow files on a daily basis as follows:
 - 2.1. Each Sunday, a Full Deposit must be submitted to the Escrow Agent by 23:59 UTC.
 - 2.2. The other six (6) days of the week, a Full Deposit or the corresponding Differential Deposit must be submitted to Escrow Agent by 23:59 UTC.
- **<u>3.</u> <u>Escrow Format Specification.</u>**
 - 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 draft-arias-noguchi-registry-data-escrow, see Part A, Section 9, reference 1 of this Specification and draft-arias-noguchi-dnrd-objects-mapping, 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. If not already an

- RFC, Registry Operator will use the most recent draft version of the DNDE Specification available at the Effective Date. Registry Operator may at its election use newer versions of the DNDE Specification after the Effective Date. Once the DNDE Specification is published as an RFC, Registry Operator will implement that version of the DNDE Specification, no later than one hundred eighty (180) calendar days after. UTF-8 character encoding will be used.
- 3.2. Extensions. If a Registry Operator offers additional Registry Services that require submission of additional data, not included above, additional "extension schemas" shall be defined in a case by case basis to represent that data. These "extension schemas" will be specified as described in Part A, Section 9, reference 2 of this Specification. Data related to the "extensions schemas" will be included in the deposit file described in Part A, Section 3.1 of this Specification. ICANN and the respective Registry Operator shall work together to agree on such new objects' data escrow specifications.
- 4. Processing of Deposit files. The use of compression is recommended in order to reduce electronic data transfer times, and storage capacity requirements. Data encryption will be used to ensure the privacy of registry escrow data. Files processed for compression and encryption will be in the binary OpenPGP format as per OpenPGP Message Format RFC 4880, see Part A, Section 9, reference 3 of this Specification. Acceptable algorithms for Public-key cryptography, Symmetric-key cryptography, Hash and Compression are those enumerated in RFC 4880, not marked as deprecated in OpenPGP IANA Registry, see Part A, Section 9, reference 4 of this Specification, that are also royalty-free. The process to follow for the data file in original text format is:
 - (1) The XML file of the deposit as described in Part A, Section 9, reference 1 of this Specification must be named as the containing file as specified in Section 5 but with the extension xml.
 - (2) The data file(s) are aggregated in a tarball file named the same as (1) but with extension tar.
 - A compressed and encrypted OpenPGP Message is created using the tarball file as sole input. The suggested algorithm for compression is ZIP as per RFC 4880. The compressed data will be encrypted using the escrow agent's public key. The suggested algorithms for Public-key encryption are Elgamal and RSA as per RFC 4880. The suggested algorithms for Symmetric-key encryption are TripleDES, AES128 and CAST5 as per RFC 4880.
 - (4) The file may be split as necessary if, once compressed and encrypted, it is larger than the file size limit agreed with the escrow agent. Every part of a split file, or the whole file if not split, will be called a processed file in this section.
 - (5) A digital signature file will be generated for every processed file using the Registry Operator's private key. The digital signature file will be in binary OpenPGP format as per RFC 4880 Section 9, reference 3, and will not be

- compressed or encrypted. The suggested algorithms for Digital signatures are DSA and RSA as per RFC 4880. The suggested algorithm for Hashes in Digital signatures is SHA256.
- The processed files and digital signature files will then be transferred to the Escrow Agent through secure electronic mechanisms, such as, SFTP, SCP, HTTPS file upload, etc. as agreed between the Escrow Agent and the Registry Operator. Non-electronic delivery through a physical medium such as CD-ROMs, DVD-ROMs, or USB storage devices may be used if authorized by ICANN.
- (7) The Escrow Agent will then validate every (processed) transferred data file using the procedure described in Part A, Section 8 of this Specification.
- 5. File Naming Conventions. Files will be named according to the following convention: {gTLD} {YYYY-MM-DD} {type} S{#} R{rev}.{ext} where:
 - 5.1. {gTLD} is replaced with the gTLD name; in case of an IDN-TLD, the ASCII-compatible form (A-Label) must be used;
 - 5.2. {YYYY-MM-DD} is replaced by the date corresponding to the time used as a timeline watermark for the transactions; i.e. for the Full Deposit corresponding to 2009-08-02T00:00Z, the string to be used would be "2009-08-02";
 - 5.3. {type} is replaced by:
 - (1) "full", if the data represents a Full Deposit;
 - (2) "diff", if the data represents a Differential Deposit;
 - (3) "thin", if the data represents a Bulk Registration Data Access file, as specified in Section 3 of Specification 4;
 - (4) "thick-{gurid}", if the data represent Thick Registration Data from a specific registrar, as defined in Section 3.2 of Specification 4. The {gurid} element must be replaced with the IANA Registrar ID associated with the data.
 - 5.4. {#} is replaced by the position of the file in a series of files, beginning with "1"; in case of a lone file, this must be replaced by "1".
 - 5.5. {rev} is replaced by the number of revision (or resend) of the file beginning with "0":
 - 5.6. {ext} is replaced by "sig" if it is a digital signature file of the quasi-homonymous file. Otherwise it is replaced by "ryde".
- <u>6.</u> <u>Distribution of Public Keys.</u> Each of Registry Operator and Escrow Agent will distribute its public key to the other party (Registry Operator or Escrow Agent, as the

case may be) via email to an email address to be specified. Each party will confirm receipt of the other party's public key with a reply email, and the distributing party will subsequently reconfirm the authenticity of the key transmitted via offline methods, like in person meeting, telephone, etc. In this way, public key transmission is authenticated to a user able to send and receive mail via a mail server operated by the distributing party. Escrow Agent, Registry Operator and ICANN will exchange public keys by the same procedure.

Notification of Deposits. Along with the delivery of each Deposit, Registry Operator will deliver to Escrow Agent and to ICANN (using the API described in draft-lozano-icann-registry-interfaces, see Part A, Section 9, reference 5 of this Specification (the "Interface Specification")) a written statement from Registry Operator (which may be by authenticated e-mail) that includes a copy of the report generated upon creation of the Deposit and states that the Deposit has been inspected by Registry Operator and is complete and accurate. The preparation and submission of this statement must be performed by the Registry Operator or its designee, provided that such designee may not be the Escrow Agent or any of Escrow Agent's Affiliates. Registry Operator will include the Deposit's "id" and "resend" attributes in its statement. The attributes are explained in Part A, Section 9, reference 1 of this Specification.

If not already an RFC, Registry Operator will use the most recent draft version of the Interface Specification at the Effective Date. Registry Operator may at its election use newer versions of the Interface Specification after the Effective Date. Once the Interface Specification is published as an RFC, Registry Operator will implement that version of the Interface Specification, no later than one hundred eighty (180) calendar days after such publishing.

8. Verification Procedure.

- (1) The signature file of each processed file is validated.
- (2) If processed files are pieces of a bigger file, the latter is put together.
- (3) Each file obtained in the previous step is then decrypted and uncompressed.
- Each data file contained in the previous step is then validated against the format defined in Part A, Section 9, reference 1 of this Specification.
- (5) The data escrow agent extended verification process, as defined below in reference 2 of Part A of this Specification 2, as well as any other data escrow verification process contained in such reference.

If any discrepancy is found in any of the steps, the Deposit will be considered incomplete.

9. References.

- (1) Domain Name Data Escrow Specification (work in progress), http://tools.ietf.org/html/draft-arias-noguchi-registry-data-escrow
- (2) <u>Domain Name Registration Data (DNRD) Objects Mapping,</u> http://tools.ietf.org/html/draft-arias-noguchi-dnrd-objects-mapping
- (3) OpenPGP Message Format, http://www.rfc-editor.org/rfc/rfc4880.txt
- (4) OpenPGP parameters, http://www.iana.org/assignments/pgp-parameters/pgp-parameters.xhtml
- (5) ICANN interfaces for registries and data escrow agents, http://tools.ietf.org/html/draft-lozano-icann-registry-interfaces

ExhibitPART B – LEGAL REQUIREMENTS

ESCROW DEPOSIT FORMAT SPECIFICATION

Each Full and Incremental Deposit consists of a series of reports that are concatenated in the escrow process.

Full Deposit Contents. The reports involved in a Full Deposit are:

Domain Object Report This reports on the contents of all domain objects in the registry database.

Host Object Report This reports on the contents of all host objects in the registry database.

Contact Object Report. This reports on the contents of all contact objects in the registry database.

Registrar Object Report-This reports on the contents of all registrar objects in the registry database.

Incremental Deposit Contents. The report involved in an Incremental Deposit is:

Transaction Report This reports on the contents of all transaction records included in the Incremental Deposit.

Format of Reports. All reports are to be formatted in XML format. In compliance with the XML 1.0 specification, certain characters in the data must be escaped, as described in item 1 below. Each Report shall then be prepared according to the general XML format described in items 2 to 7 below. Item 2 describes the report container that is common to all reports. Items 3 to 7 describe the structure of the contents of the report container for each of the specific reports. All date/time fields of the reports will be specified in UTC.

1. Escape-Character Requirements. In compliance with the XML 1.0 specification, in data escrowed using the XML format the following characters in any data elements must be replaced with the corresponding escape sequences listed here:

Character	Escape Sequence
<u>"</u>	"
&	&
1	'
<	<
≻	>

2. The Report Container. At its highest level, the XML format consists of an escrow container with header attributes followed by escrow data. The header attributes are required and include the version of escrow (1.1), the Sponsored TLD ("aero"), the report type (domain, host, contact, registrar, or transaction), and database committed date and time as to which the escrow relates. The date and time of the escrow will be specified in UTC. The general format of the report container is as follows:

```
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE escrow SYSTEM "whois export.dtd">
<escrow version="1.1" tld="aero" report="domain" date="2010-08-26T00:00:00Z">
```

ŧ	{Here the report contains the actual data being escrowed. It contains one element for each object of the type (domain, host, contact, registrar, or transaction) covered by the report. The specific format for eact report is described in items 3 to 7 below.}
<	
3	3. The Domain Element. The domain element has the property "fqdn" (the fully qualified name of the domain) and is a container consisting of the following elements:
£	a. id: Unique identifier of the domain name
ŧ	o. status: The domain status code.
•	e. owned-by: An identification of the sponsoring registrar of the domain. The sponsoring registrar is designated by a number uniquely assigned by the IANA.
e	d. ens-authid: ENS authorization code.
e	e. maintainer url: URL of site of maintainer of domain name.
f	f. created-code: A reference to the transaction that created the domain object.
٤	g. created on: The date/time the domain object was originally created.
	a. created by: An identification of the registrar that created the domain object. The sponsoring registrates designated by a number uniquely assigned by the IANA.
i	. renewed on: The date/time the domain was last renewed.
j	. expires on: The date the registration expires.
	x. updated by: An identification of the registrar that last updated the domain object. The sponsoring registrar is designated by a number uniquely assigned by the IANA.
1	. updated on: The date/time the domain object was last updated.
¥ ¥	m. transferred-by: An identification of the registrar that last transferred the domain object. The sponse registrar is designated by a number uniquely assigned by the IANA.
ť	n. transferred on: The date/time when the domain object was last transferred.
€	o. transferred code: A reference to the transaction that last transferred the domain object.
-	p. host: Up to thirteen (13) host names that are nameservers for the domain to which the domain object relates.

q. contact-id: Multiple contact-ids that reference the contact records for this domain. Contact-id has the property "type" to denote the type of contact. "Type" can be one of: Registrant, Administrative, Technical, or Billing.

r. ds: DS records that represent the secure entry point keys registered for the domain to which the domain object relates. Records will be in standard DS Presentation Format as shown in the example below.

An example domain container appears below:

1. Escrow Agent. Prior to entering into an escrow agreement, the Registry Operator must provide notice to ICANN as to the identity of the Escrow Agent, and provide ICANN with contact information and a copy of the relevant escrow agreement, and all amendments thereto. In addition, prior to entering into an escrow agreement, Registry Operator must obtain the consent of ICANN to (a) use the specified Escrow Agent, and (b) enter into the form of escrow agreement provided. ICANN must be expressly designated as a third-party beneficiary of the escrow agreement. ICANN reserves the right to withhold its consent to any Escrow Agent, escrow agreement, or any amendment thereto, all in its sole discretion.

```
<id>AAA-0001</id>
<status>ok</status>
<owned-by>42</owned-by>
<ens-authid>AERO-1221/ens-authid>
<maintainer-url>http://example.aero</maintainer-url>
<created-code>12345678
<created-on>2010-07-01T00:34:56Z</created-on>
<created-by>42</created-by>
<renewed-on></renewed-on>
<expires-on>2011-07-01T23:59:59Z</expires-on>
<updated-by>42</updated-by>
<updated-on>2010-07-01T00:34:56Z</updated-on>
<transferred-by></transferred-by>
<transferred-on></transferred-on>
<transferred-code></transferred-code>
<a href="https://www.example.aero/host-dns2.example.aero/host-dns2.example.aero/host-dns2.example.aero/host-dns2.example.aero/host-dns2.example.aero/host-dns2.example.aero/host-dns2.example.aero/host-dns2.example.aero/host-dns2.example.aero/host-dns2.example.aero/host-dns2.example.aero/host-dns2.example.aero/host-dns2.example.aero/host-dns2.example.aero/host-dns2.example.aero/host-dns2.example.aero/host-dns2.example.aero/host-dns2.example.aero/host-dns2.example.aero/host-dns2.example.aero/host-dns2.example.aero/host-dns2.example.aero/host-dns2.example.aero/host-dns2.example.aero/host-dns2.example.aero/host-dns2.example.aero/host-dns2.example.aero/host-dns2.example.aero/host-dns2.example.aero/host-dns2.example.aero/host-dns2.example.aero/host-dns2.example.aero/host-dns2.example.aero/host-dns2.example.aero/host-dns2.example.aero/host-dns2.example.aero/host-dns2.example.aero/host-dns2.example.aero/host-dns2.example.aero/host-dns2.example.aero/host-dns2.example.aero/host-dns2.example.aero/host-dns2.example.aero/host-dns2.example.aero/host-dns2.example.aero/host-dns2.example.aero/host-dns2.example.aero/host-dns2.example.aero/host-dns2.example.aero/host-dns2.example.aero/host-dns2.example.aero/host-dns2.example.aero/host-dns2.example.aero/host-dns2.example.aero/host-dns2.example.aero/host-dns2.example.aero/host-dns2.example.aero/host-dns2.example.aero/host-dns2.example.aero/host-dns2.example.aero/host-dns2.example.aero/host-dns2.example.aero/host-dns2.example.aero/host-dns2.example.aero/host-dns2.example.aero/host-dns2.example.aero/host-dns2.example.aero/host-dns2.example.aero/host-dns2.example.aero/host-dns2.example.aero/host-dns2.example.aero/host-dns2.example.aero/host-dns2.example.aero/host-dns2.example.aero/host-dns2.example.aero/host-dns2.example.aero/host-dns2.example.aero/host-dns2.example.aero/host-dns2.example.aero/host-dns2.example.aero/host-dns2.example.aero/host-dns2.example.aero/host-dns2.example.aero/host-dns2.example.aero/host-dns2.example.aero/host-dns2.example.aero/host-dns2.example.aero/host-dns2.e
<contact-id type="Registrant">PER-0001/contact-id>
<contact-id type="Administrative">PER-0002/contact-id>
<contact-id type="Technical">PER-0003</contact-id>
<contact-id type="Billing">PER-0004/contact-id>
\leq ds >
<keytag>12345</keytag>
<algorithm>7</algorithm>
<digesttype>1</digesttype>
<digest>0123456789ABCDEF0123456789ABCDEF0123456789
\langle ds \rangle
<ds>
<keytag>23456</keytag>
<algorithm>6</algorithm>
```

```
<digesttype>2</digestype>
<digest>0123456789ABCDEF0123456789ABCDEF0123456789
\langle ds \rangle
\leq ds >
<keytag>34567</keytag>
<algorithm>5</algorithm>
<digesttype>3</digesttype>
<a href="cdigest">0123456789ABCDEF0123456789ABCDEF0123456789</a> / digest >
\langle ds \rangle
</domain>
4. The Host Element. The host element has the property "fqdn" (the fully qualified name of the host) and
is a container consisting of the following elements:
a. id: Identifier of the host.
b. owned by: An identification of the sponsoring registrar of the host. The sponsoring registrar is
designated by a number uniquely assigned by the IANA.
c. created-code: A reference to the transaction that created the host object.
d. created-on: The date/time the host object was originally created.
e. updated by: An identification of the registrar that last updated the host object. The sponsoring registrar
is designated by a number uniquely assigned by the IANA.
f. updated-on: The date/time the host object was last updated.
g. transferred-by: An identification of the registrar that last transferred the host object. A number uniquely
assigned by the IANA designates the sponsoring registrar.
h. transferred-on: The date/time when the host object was last transferred.
i. ip-address: Any number of IP addresses associated with this host.
An example host container appears below:
<a href="host fqdn="dns1.example.aero">
<id>HST-0001</id>
<owned by>42</owned by>
<created-code>12345679</created-code>
<created-on>2010-07-01T00:40:32Z</created-on>
<updated by>42</updated by>
<updated-on>2010-07-01T00:40:32Z</updated-on>
<transferred-by></transferred-by>
<transferred-on></transferred-on>
<ip-address>192.168.1.1
<ip-address>192.168.122.1/ip-address>
</host>
```

following	; elements:
a. name: ˈ	The name of the contact.
b. organiz	zation: The organization for the contact.
c. street1:	The first part of the street address of the contact.
d. street2	: The second part of the street address of the contact.
e. street3:	The third part of the street address of the contact.
f. city: Tł	ne name of the city of the contact.
g. state-p	rovince: The name of the state/province of the contact.
h. postal-	code: The postal/zip code of the contact.
i. geogra r	shie location: The two letter ISO 3166 code for the contact's geographic location.
i. voice: T	The voice phone number of the contact in E164a format.
k. fax: Th	ne fax number of the contact in E164a format.
l. email: 7	The e-mail address of the contact.
m. owned designate	l-by: An identification of the sponsoring registrar of the contact. The sponsoring registrar is d by a number uniquely assigned by the IANA.
n. created	-code: A reference to the transaction that created the contact object.
	l-by: An identification of the registrar that created the contact object. The sponsoring registrar is d by a number uniquely assigned by the IANA.
p. created	on: The date/time the contact object was originally created.
q. update registrar i	d by: An identification of the registrar that last updated the contact object. The sponsoring is designated by a number uniquely assigned by the IANA.
r. updated	l-on: The date/time the contact object was last updated.
s. transfer registrar i	rred-by: An identification of the registrar that last transferred the contact object. The sponsoring is designated by a number uniquely assigned by the IANA.
t_transfer	red-on: The date/time when the contact object was last transferred.

```
u. transferred code: A reference to the transaction that last transferred the contact object.
v. status: Contact status.
An example contact container appears below:
<contact id="PER-0001">
<name>John Doe</name>
<organization>aol
<street1>1234 East 11th Street</street1>
<street2></street2>
<street3></street3>
<city>New York</city>
<state-province>NY</state-province>
<postal-code>12345</postal-code>
<country>US</country>
<voice>+212.1234567</voice>
<fax>+212.1234568</fax>
<email>jdoe@example.aero/email>
<owned by>42</owned by>
<created-code>12345680</created-code>
<created by>42</created by>
<created-on>2010-07-01T00:42:22Z</created-on>
<updated by>42</updated by>
<updated-on>2010-07-01T00:42:22Z</updated-on>
<transferred-by></transferred-by>
<transferred-on></transferred-on>
<transferred-code></transferred-code>
<status>linked</status>
</ri>

⟨contact⟩

6. The Registrar Element. The registrar element has the property "id" and is a container consisting of the
following elements:
a. password: The password for the registrar.
b. name: The name of the registrar.
c. status: The registrar status code.
d. contact-id: Any number of contact-id associated with this registrar. Contact-id has the property "type"
to denote the type of contact. "Type" can be one of: Registrar, Administrative, Technical or Billing
An example registrar container appears below:
<registrar id="42">
<password>registrarrus
<name>Registrar R Us</name>
<status>operational</status>
<contact-id type="Registrar">PER-0009</contact-id>
```

```
<contact-id type="Administrative">PER-0010/contact-id>
<contact-id type="Administrative">PER-0011/contact-id>
<contact-id type="Technical">PER 0012/contact-id>
<contact-id type="Technical">PER 0013/contact-id>
<contact-id type="Billing">PER-0014/contact-id>

/registrar>
```

7. The Transaction Element. The transaction element has the properties "operation" and "type." "Operation" can be one of: add, modify or delete. "Type" can be one of: domain, host, contact or registrar. The transaction element is a container consisting of elements from the corresponding "type" element. For example, a transaction element with a "type" of "registrar" will have the same set of elements as a Registrar element.

An example transaction container appears below:

Exhibit C

ESCROW TRANSFER PROCESS

Deposit Transfer Process. Registry Operator shall prepare and transfer the Deposit file by the following steps, in sequence:

- 1. The Reports making up the Deposit will first be created according to the format specification. (See Exhibit B above, "Escrow Deposit Format Specification").
- 2. The Reports making up the Deposit will be concatenated. The resulting file shall be named according to the following format: "aero-SEQN," where "SEQN" is a four digit decimal number that is incremented as each report is prepared.
- 3. Next, the Deposit file will be processed by a program (provided by ICANN) that will verify that it complies with the format specification and contains reports of the same date/time (for a Full Deposit), count the number of objects of the various types in the Deposit, and append to the file a report of the program's results.

- 4. Registry Operator may optionally split the resulting file using the Unix SPLIT command (or equivalent) to produce files no less than 1 GB each (except the final file)
- 5. The Deposit file(s) will then be encrypted using Escrow Agent's public key for PGP and signed using Registry Operator's private key for PGP, both version 6.5.1 or above, with a key of DH/DSS type and 2048/1024-byte length. (Note that PGP compresses the Deposit file(s) in addition to encrypting it (them).)

The formatted, encrypted and signed Deposit file(s) will be sent, by secure file transfer, to Escrow Agent's server within the specified time window.

Exhibit D

ESCROW VERIFICATION PROCEDURES

Verification Procedures. Escrow Agent will verify the format and completeness of each Deposit by the following steps:

- 1. At the conclusion of the deposit window, all Deposit files will be moved to a not-publicly-accessible directory and the existence and size of each will be noted.
- 2. Each Deposit file will be decrypted using Escrow Agent's private key for PGP and authenticated using Registry Operator's public key for PGP. (In this step, PGP will also automatically decompress the escrow file).
- 3. If there are multiple files, they will be concatenated in sequence.
- 4. Escrow Agent will run a program (to be supplied by ICANN) on the Deposit file (without report) that will split it in to its constituent reports (including the format report prepared by the Registry Operator and appended to the Deposit) check its format, count the number of objects of each type, and verify that the data set is internally consistent. This program will compare its results with the results of the Registry-generated format report, and will generate a Deposit format and completeness report. The program will encrypt the report using ICANN's public key for PGP and signed using Escrow Agent's private key for PGP, both versions 6.5.1 or above, with a key of DH/DSS type and 2048/1024 byte length. (Note that PGP compresses the Deposit file(s) in addition to encrypting it (them).)
- 5. The decrypted Deposit file will be destroyed to reduce likelihood of data loss to intruders in case of partial security failure.
- Distribution of Public Keys. Each of Registry Operator and Escrow Agent will distribute its public key to the other party (Registry Operator or Escrow Agent, as the case may be) via email to an email address to be specified. Each party will confirm receipt of the other party's public key with a reply email, and the distributing party will subsequently reconfirm the authenticity of the key transmitted. In this way, public key transmission is authenticated to a user able to send and receive mail via a mail server operated by the distributing party. Escrow Agent, Sponsor and ICANN shall exchange keys by the same procedure.

Registry Data Escrow Agreement

This Registry Data Escrow Agreement ("Agreement") is made as of this ______ (the "Beginning Date"), by and between SITA SC ("Sponsor"), Afilias Limited ("Registry Operator"), Iron Mountain Property Management, Inc. ("Escrow Agent"), and the Internet Corporation for Assigned Names and Numbers ("ICANN"). All capitalized terms not defined herein shall have the meaning set forth in the TLD Sponsorship Agreement dated December 17, 2001 by and between Sponsor and ICANN ("TLD Sponsorship Agreement").

Recitals

A. Sponsor and ICANN have entered into a TLD Sponsorship Agreement, which requires Sponsor, during the term of the TLD Sponsorship Agreement, to ensure Registry Operator submits certain domain name registration data to a reputable escrow agent to be held in escrow.

B. Sponsor and Registry Operator have entered into a Registry Agreement which requires Registry Operator, during the term of the Registry Agreement, to submit certain domain name registration data to a reputable agent to be held in escrow.

C. Pursuant to the Registry Agreement and the TLD Sponsorship Agreement, Registry Operator shall, and Sponsor shall ensure that Registry Operator shall, periodically deliver to Escrow Agent an electronic copy of all Registry Data, as detailed in Subsection 3.12 of the TLD Sponsorship Agreement (each such delivery referred to as a "Deposit").

D. Registry Operator, Sponsor and ICANN each desire Escrow Agent to hold each Deposit, and, upon certain events, release any retained Deposits (or a copy of the Deposits) to Sponsor and/or ICANN, in accordance with the terms of this Agreement or as ordered by a court of competent jurisdiction.

Now, therefore, in consideration of the premises and mutual obligations contained herein and for other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the parties agree as follows:

Agreement

1. Content of Deposits. Deposits will be of two kinds: Full Deposits and Incremental Deposits. Each Full Deposit will consist of Registry Data that reflects the current and complete Registry Database. Incremental Deposits will consist of data that reflects all transactions involving the database that are not reflected in the last previous Full Deposit or Incremental Deposit, as the case may be.

2. Schedule for Deposits

Fees. Registry Operator must create and deliver to Escrow Agent a
Full Deposit once each week, according to the schedule specified in Exhibit A of
Attachment 18 to the TLD Sponsorship Agreement. Registry Operator must create and
deliver to Escrow Agent an Incremental Deposit once each day during which a Full
Deposit is not made, according to the schedule specified in Exhibit A of Attachment
18-pay, or have paid on its behalf, fees to the Escrow Agent directly. If Registry Operator

- fails to pay any fee by the due date(s), the Escrow Agent will give ICANN written notice of such non-payment and ICANN may pay the past-due fee(s) within fifteen (15) calendar days after receipt of the written notice from Escrow Agent. Upon payment of the past-due fees by ICANN, ICANN shall have a claim for such amount against Registry Operator, which Registry Operator shall be required to submit to ICANN together with the next fee payment due under the Registry Agreement.
- 3. Ownership. Ownership of the Deposits during the effective term of the Registry Agreement shall remain with Registry Operator at all times. Thereafter, Registry Operator shall assign any such ownership rights (including intellectual property rights, as the case may be) in such Deposits to ICANN. In the event that during the term of the Registry Agreement any Deposit is released from escrow to ICANN, any intellectual property rights held by Registry Operator in the Deposits will automatically be licensed to ICANN or to a party designated in writing by ICANN on a non-exclusive, perpetual, irrevocable, royalty-free, paid-up basis, for any use related to the operation, maintenance or transition of the TLD.
- **3. Format of Deposits**. The data in each Full Deposit and in each Incremental Deposit shall follow the data format specified in the Escrow Deposit Format Specification (the "Format Specification"), attached as Exhibit B of Attachment 18.
- **4. Procedure for Deposits**. Each properly formatted Full Deposit and Incremental Deposit shall be processed and delivered in encrypted form to Escrow Agent according to the transfer process described in Exhibit C of Attachment 18.
- 5. Notification of Deposits. Simultaneous with the delivery to Escrow Agent of any Full or Incremental Deposit, Registry Operator shall deliver to Escrow Agent and Sponsor a written statement (which may be by authenticated e-mail) that includes a copy of the report generated upon creation of the Full or Incremental Deposit by the ICANN-provided software (as described in Exhibit C of Attachment 18) and states that the Full or Incremental Deposit (as the case may be) has been inspected by Registry Operator according to the procedures described in Exhibit C of Attachment 18 and is complete and accurate. Escrow Agent shall notify Sponsor of all Deposits received, within two business days of receipt.
- 6. Verification. Within two business days after receiving each Full or Incremental Deposit, Escrow Agent shall verify the format and completeness of each Deposit by performing the verification procedures specified in Exhibit D of Attachment 18 and shall deliver to Sponsor and ICANN a copy of the verification report generated for each Deposit (which may be by authenticated e-mail). If Escrow Agent discovers that any Deposit fails the verification procedures, Escrow Agent shall notify, including by email and fax, Registry Operator, Sponsor, and ICANN of such nonconformity within forty eight hours of discovery. Upon notification of such verification failure, Registry Operator shall begin developing modifications, updates, corrections, and other fixes of the Full or Incremental Deposit necessary for the Deposit to pass the verification procedures and shall deliver such fixes to Escrow Agent as promptly as possible. Escrow Agent shall verify the accuracy or completeness of any such corrected Deposit pursuant to the procedures in this Section 6 and shall send Sponsor and ICANN a copy of the successful report within twenty-four hours. The failure of any Full or Incremental Deposit to meet

verification procedures and any efforts by Registry Operator to remedy such failure shall not delay the delivery of any subsequent scheduled Full or Incremental Deposits pursuant to the schedule in Exhibit A of Attachment 18. Escrow Agent shall deliver, on the first business day of each month, (i) a written certification to Sponsor and ICANN that Escrow Agent has performed such verification procedures on each Deposit received during the last month, and (ii) copies of the verification reports generated for each Deposit received during the last month.

7. Retention and Confidentiality.

7.1 Retention 4. Integrity and Confidentiality. Escrow Agent shall will be required to (i) hold and maintain the Deposits in a secure, locked, and environmentally safe facility, which is accessible only to authorized representatives of Escrow Agent. Escrow Agent shall use commercially reasonable efforts to, (ii) protect the integrity and confidentiality of the Deposits. Each of Sponsor, ICANN, using commercially reasonable measures and (iii) keep and safeguard each Deposit for one (1) year. ICANN and Registry Operator shall have will be provided the right to inspect Escrow Agent's written applicable records with respect to this Agreement upon reasonable prior notice and during normal business hours. Registry Operator and ICANN will be provided with the right to designate a third-party auditor to audit Escrow Agent's compliance with the technical specifications and maintenance requirements of this Specification 2 from time to time.

If Escrow Agent receives a subpoena or any other order from a court or other judicial tribunal pertaining to the disclosure or release of the Deposits, Escrow Agent will promptly notify the Registry Operator and ICANN unless prohibited by law. After notifying the Registry Operator and ICANN, Escrow Agent shall allow sufficient time for Registry Operator or ICANN to challenge any such order, which shall be the responsibility of Registry Operator or ICANN; provided, however, that Escrow Agent does not waive its rights to present its position with respect to any such order. Escrow Agent will cooperate with the Registry Operator or ICANN to support efforts to quash or limit any subpoena, at such party's expense. Any party requesting additional assistance shall pay Escrow Agent's standard charges or as quoted upon submission of a detailed request.

- **7.2** Destruction of Deposits. At all times, Escrow Agent shall retain the four most recent Full Deposits and all Incremental Deposits after the earliest of those four Full Deposits, all of which must have passed the verification procedures specified in Exhibit D of Attachment 18. Escrow Agent may destroy any Deposits reflecting the Registry Database prior to these four most recent Full Deposits.
- 7.3 Confidentially. Escrow Agent shall use commercially reasonable efforts to protect the confidentiality of the Deposits. Except as provided in this Agreement, Escrow Agent shall not disclose, transfer, make available, or use any Deposit (or any copies of any Deposit). Should Escrow Agent be put on notice that it is required to disclose any Deposits by statute, rule, regulation, order, or other requirement of a governmental agency, legislative body, court of competent jurisdiction, or binding arbitral body (other than any requirement pursuant to Sections 9.1.6, 11.2, and 13 of this Agreement), Escrow Agent shall notify Registry Operator, Sponsor, and ICANN within seven days or as soon as practicable and

reasonably cooperate with Registry Operator, Sponsor, and/or ICANN in any contest of the disclosure. Should any contest prove unsuccessful, Escrow Agent shall not be held liable for any disclosure pursuant to such governmental, legislative, judicial, or arbitral order, statute, rule, regulation, or other requirement.

- 85. Duplication Copies. Escrow Agent may be permitted to duplicate any Deposit by any commercially reasonable means, in order to comply with the terms and provisions of this Agreement, provided that Registry Operator shall bear the expense of such duplication. Alternatively, Escrow Agent, by notice to Registry Operator, may reasonably require Registry Operator to promptly duplicate any Deposit. In the event the Registry Operator is unable or unwilling to bear the expense, the party requesting the copy shall bear the cost.the escrow agreement.
- 6. Release of Deposits. Escrow Agent will make available for electronic download (unless otherwise requested) to ICANN or its designee, within twenty-four (24) hours, at the Registry Operator's expense, all Deposits in Escrow Agent's possession in the event that the Escrow Agent receives a request from Registry Operator to effect such delivery to ICANN, or receives one of the following written notices by ICANN stating that:
- 9. Release of Deposits. Within five business days after receipt of any required documents and/or notices specified in this Section 9, Escrow Agent shall deliver (i) a copy of the Deposit to Sponsor in the event of a release pursuant to any of Sections 9.1.2, or 9.1.5, 9.1.6, 9.1.7 and 9.1.8 or (ii) the Deposit to ICANN in the event of a release pursuant to Sections 9.1.1, 9.1.7, or 9.1.8, or a copy of the Deposit to ICANN in the event of a release pursuant to Section 9.1.4, or (iii) a copy of the Deposit to the party designated in the event of a release pursuant to Section 9.1.3, in the event that the Escrow Agent receives all of the items required by Sections 9.1, 9.2, 9.3, and 9.4 below:

9.1 One of the following notices:

- 9.1.1 A written notice by ICANN that the TLD Sponsorship Agreement has: (i) expired without renewal, pursuant to Subsection 5.1 of the TLD Sponsorship Agreement, or (ii) been terminated, pursuant to Subsection 5.4 of the TLD Sponsorship Agreement; or
- 9.1.2 A written notice by Sponsor that 6.1. the Registry Agreement has expired without renewal, or been terminated; or
- 9.1.3 A written notice by Registry Operator, Sponsor, and ICANN requesting Escrow Agent to effect such delivery to Sponsor, ICANN, or replacement escrow agent; or
- 9.1.4 A written notice by ICANN that it has received no successful verification report from Escrow Agent relating to a Full Deposit reflecting the Registry Database as of any date within the past month; or
- 9.1.5 A written notice by Sponsor that all of the following have occurred:
 - 9.1.5.1 Sponsor failed, with respect to (a) any Full Deposit or (b) five Incremental Deposits within any calendar month, to receive, 6.2. ICANN has not received a

- notification as described in Part B, Sections 7.1 and 7.2 of this Specification from Escrow Agent within five (5) calendar days after the Deposit Deposit's scheduled delivery date, notification of receipt from Escrow Agent; and
- ; (a) ICANN 9.1.5.2 Sponsor gave notice to Escrow Agent and Registry Operator of that failure; and (b) ICANN 9.1.5.3 Sponsor has not, within seven (7) calendar days after the such notice under 9.1.5.2, received notice the notification from Escrow Agent that the Deposit has or the Deposits have been received; or
- 9.1.6 A written notice by Sponsor that all of the following have occurred:
- 9.1.6.1 Sponsor 6.3. ICANN has received notification as described in Part B, Sections 7.1 and 7.2 of this Specification from Escrow Agent of failed verification of a Full Deposit or of failed verification of five Incremental Deposits within any calendar month; and the latest escrow deposit for a specific date or a notification of a missing deposit, and the notification is for a deposit that should have been made on Sunday (i.e., a Full Deposit); (a) ICANN gave notice to Registry Operator of that receipt; and (b) ICANN has not, within seven (7) calendar days after such notice, received notification as described in Part B, Sections 7.1 and 7.2 of this Specification from Escrow Agent of verification of a remediated version of such Full Deposit; or
- 9.1.6.2 Sponsor gave 6.4. ICANN has received five notifications from Escrow Agent within the last thirty (30) calendar days notifying ICANN of either missing or failed escrow deposits that should have been made Monday through Saturday (i.e., a Differential Deposit), and (x) ICANN provided notice to Registry Operator of that the receipt of such notifications; and (y) ICANN 9.1.6.3 Sponsor has not, within seven (7) calendar days after the notice under Section 9.1.6.2 delivery of such notice to Registry Operator, received noticenotification from Escrow Agent of verification of a remediated version of the such Differential Deposit; or
- 6.5. Registry Operator has: (i) ceased to conduct its business in the ordinary course; or (ii) filed for bankruptcy, become insolvent or anything analogous to any of the foregoing under the laws of any jurisdiction anywhere in the world; or
- 9.1.7 A written notice by Sponsor or ICANN that release of the Deposits is mandated by non-payment of any fees due to Escrow Agent, pursuant to Section 15 of this Agreement; or
- 9.1.8 A written notice by ICANN or Sponsor that a court, arbitral, legislative, or government agency of competent jurisdiction has issued an order, rule, statute, regulation, or other requirement (a copy of which ICANN or Sponsor has provided to Registry Operator) that mandates the release of the Deposits to ICANN and/or Sponsor; and

- 9.2 Copies of notices with proof of delivery submitted to Escrow Agent that ICANN, Registry Operator, or Sponsor (whichever gave the notice under Section 9.1) has previously notified the other party(ies) in writing; and
- 9.3 Written instructions from ICANN, Sponsor, or a replacement escrow agent (see Section 9.1.3) that the Deposits be released and delivered to whichever of them provided such written instructions; and
- 9.4 A written undertaking by the party(ies) receiving the Deposits (ICANN, Sponsor, or a replacement escrow agent) that the Deposits will be used only as permitted under the terms of the Registry Agreement or the TLD Sponsorship Agreement, as applicable. Upon release of any Deposits to ICANN, Sponsor, or a replacement escrow agent, Escrow Agent shall at the same time deliver to Registry Operator a photostatic copy of the notice it received from Sponsor and/or ICANN under Sections 9.1.1 to 9.1.8, as applicable.
 - 106.6. Release of Deposit to Registry Operator. Escrow Agent shall deliver all Deposits to Registry Operator upon termination of this Agreement in accordance with Sections 14.1 and 14.2.1 of this Agreement. has experienced a failure of critical registry functions and ICANN has asserted its rights pursuant to Section 3.1(c)(ix) of the Agreement; or
 - <u>6.7.</u> a competent court, arbitral, legislative, or government agency mandates the release of the Deposits to ICANN; or
 - <u>6.8.</u> <u>pursuant to Contractual and Operational Compliance Audits as specified under Section 3.3 of the Agreement.</u>

<u>Unless Escrow Agent has previously released the Registry Operator's Deposits to ICANN or its designee, Escrow Agent will deliver all Deposits to ICANN upon expiration or termination of the Registry Agreement or the Escrow Agreement.</u>

117. Procedure After Release Verification of Deposits.

- 7.1. Within twenty-four (24) hours after receiving each Deposit or corrected Deposit, Escrow Agent must verify the format and completeness of each Deposit and deliver to ICANN a notification generated for each Deposit. Reports will be delivered electronically using the API described in draft-lozano-icann-registry-interfaces, see Part A, Section 9, reference 5 of this Specification.
- 7.2. If Escrow Agent discovers that any Deposit fails the verification procedures or if Escrow Agent does not receive any scheduled Deposit, Escrow Agent must notify Registry Operator either by email, fax or phone and ICANN (using the API described in draft-lozano-icann-registry-interfaces, see Part A, Section 9, reference 5 of this Specification) of such nonconformity or non-receipt within twenty-four (24) hours after receiving the non-conformant Deposit or the deadline for such Deposit, as applicable. Upon notification of such verification or delivery failure, Registry Operator must begin developing modifications, updates, corrections, and other fixes of the Deposit necessary for the Deposit to be

delivered and pass the verification procedures and deliver such fixes to Escrow Agent as promptly as possible.

- 8. Amendments. Escrow Agent and Registry Operator shall amend the terms of the Escrow Agreement to conform to this Specification 2 within ten (10) calendar days of any amendment or modification to this Specification 2. In the event of a conflict between this Specification 2 and the Escrow Agreement, this Specification 2 shall control.
 - 11.1 Right to Use Deposits. Upon release of any Deposits to Sponsor pursuant to Section 9, Sponsor (or its assignee in accordance with the TLD Sponsorship Agreement) shall immediately have the right to exercise or have exercised all rights in the Deposits necessary to provide registry services, as detailed in the Registry Agreement. Upon release of any Deposits to ICANN pursuant to Section 9, ICANN (or its assignee in accordance with the TLD Sponsorship Agreement) shall immediately have the right to exercise or have exercised all rights in the Deposits pursuant to the TLD Sponsorship Agreement.
 - 11.2 Objection Notices. Upon release of any Deposits to Sponsor pursuant to Sections 9.1.2 or 9.1.5 through 9.1.8, Registry Operator shall have thirty calendar days to notify Escrow Agent and Sponsor in writing (the "Objection Notice") of its objection to the release of the Deposits to Sponsor and request that the issue of entitlement to the Deposits be resolved pursuant to the dispute resolution procedures in the Registry Agreement. Upon release of any Deposits to ICANN pursuant to Sections 9.1.1, 9.1.4, 9.1.7, or 9.1.8, Registry Operator or Sponsor shall have thirty calendar days to notify Escrow Agent and ICANN in writing (the "Objection Notice") of its objection to the release of the Deposits to ICANN and request that the issue of entitlement to the Deposits be resolved pursuant to the dispute resolution procedures in the TLD Sponsorship Agreement. Registry Operator, Sponsor, and ICANN agree to resolve any disputes they may have as between or among themselves under this Agreement according to Section 17.2. The parties agree that (i) Registry Operator and Sponsor shall have no rights (other than pursuant to this Section 11.2) to object to any release of the Deposits, and (ii) the delivery of an Objection Notice and the commencement of Dispute Resolution Procedures shall not delay release of any Deposits to Sponsor and/or ICANN pursuant to Section 9.
 - 11.3 Dispute-Resolution Procedures. Registry Operator, Sponsor, and ICANN each agrees that it may not challenge, in proceedings for the resolution of disputes between or among those parties under this Agreement, the resolution of any issues, claims, or defenses that were decided, or which it had a reasonable opportunity and motive to raise, in proceedings to which it was a party under the Registry Agreement or TLD Sponsorship Agreement.
 - 11.4 Withdrawal of Objection Notice. A party providing an Objection Notice may, at any time, notify the other parties that it wishes to withdraw its Objection Notice. Upon receipt of notice of such withdrawal, Escrow Agent shall promptly deliver to Sponsor and/or ICANN (as the case may be) any Deposits that have not previously been delivered.
 - 11.5 Dispute Resolution Decisions.

11.5.1 If the release of Deposits under Section 9 is determined in dispute resolution procedures to have been proper, Escrow Agent shall promptly deliver, in accordance with the instructions specified in Section 9.3, any Deposits that have not previously been delivered.

11.5.2 If the release of Deposits under Section 9 is determined in dispute resolution procedures to have been improper, the party(ies) receiving the Deposits shall promptly return or destroy, at Registry Operator's discretion, the Deposits received under Section 9.

Indemnity. Registry Operator, Sponsor, and ICANN shall, jointly and severally, indemnify and hold harmless Escrow Agent and each of its directors, officers, agents, employees, members, and stockholders ('Escrow Agent Indemnitees") absolutely and forever, from and against any and all claims, actions, damages, suits, liabilities, obligations, costs, fees, charges, and any other expenses whatsoever, including reasonable attorneys' fees and costs, that may be asserted by a third party against any Escrow Agent Indemnitees in connection with this Agreement or the performance of Escrow Agent or any Escrow Agent Indemnitees hereunder (with the exception of any claims based on the misrepresentation, negligence, or misconduct of Escrow Agent, its directors, officers, agents, employees, members, and stockholders). Escrow Agent shall likewise indemnify and hold harmless Registry Operator, Sponsor, and ICANN, and each of their respective directors, officers, agents, employees, members, and stockholders ("Indemnitees") absolutely and forever, from and against any and all claims, actions, damages, suits, liabilities, obligations, costs, fees, charges, and any other expenses whatsoever, including reasonable attorneys' fees and costs, that may be asserted by a third party against any Indemnitee in connection with the misrepresentation, negligence, or misconduct of Escrow Agent, its directors, officers, agents, employees, and contractors, members, and stockholders.

<u>.13. Interpleader.</u>

13.1 Escrow Agent may submit any dispute under this Agreement to any court of competent jurisdiction in an interpleader or similar action. Any and all costs incurred by Escrow Agent in connection therewith, including reasonable attorneys' fees and costs, shall be borne equally by each of Registry Operator, Sponsor, and ICANN that are parties to such interpleader or similar action.

13.2 Escrow Agent shall perform any acts ordered by any court of competent jurisdiction, without any liability or obligation to any party hereunder by reason of such act.

Term and Termination.

14.1 Term. The initial term of this Agreement shall be [insert period of at least one year], commencing on the Beginning Date (the "Initial Term"). This Agreement shall be automatically renewed for an additional term of one year ("Additional Term") at the end of the Initial Term and Additional Term hereunder unless, on or before ninety days prior to the end of the Initial Term or an Additional Term, a party notifies the other parties that it wishes to terminate this Agreement at the end of such term. In the event a party gives the other parties such notice of termination, and Registry Operator, Sponsor, and ICANN cannot agree

to resolve, by the end of the then current term, any disputes regarding the renewal of this Agreement or the establishment of a replacement escrow agent: (i) Registry Operator, Sponsor, and ICANN shall resolve any such disputes through Subsection 5.9 of the TLD Sponsorship Agreement; (ii) this Agreement shall continue to remain in effect during the resolution of any such disputes; and (iii) Escrow Agent shall have the right to invoice either Registry Operator, Sponsor, or ICANN for the data escrow services provided during this dispute resolution period at the rates listed in Exhibit E to this Agreement.

14.2 Termination. This Agreement shall terminate upon the occurrence of any of the following:

14.2.1 Termination of this Agreement by Sponsor and ICANN, upon having delivered to Escrow Agent a written notice signed by Sponsor and ICANN stating their common intent to terminate this Agreement upon ninety days' notice;

14.2.2 Termination of this Agreement by Escrow Agent pursuant to Section 15; or

14.2.3 As provided in Section 14.1.

15. Fees and Payments. Registry Operator shall pay to Escrow Agent the applicable fees and charges listed in Exhibit E as compensation for Escrow Agent's services under this Agreement. If Registry Operator fails to pay any fees or charges invoiced by Escrow Agent by the due date(s), Escrow Agent shall give written notice to Registry Operator of non-payment of any such past due fees hereunder and, in that event, the Registry Operator shall have the right to pay the past-due fee(s) within ten business days after receipt of the notice from Escrow Agent. If Registry Operator fails to pay in full all such past-due fees during the ten-day period, Escrow Agent shall give notice of non-payment of any past-due fees to Sponsor and, in that event, Sponsor shall have the option of paying the past-due fee within ten business days of receipt of such notice from Escrow Agent. Upon payment of the past-due fee by either Registry Operator or Sponsor, this Agreement shall continue in full force and effect. If both Registry Operator and Sponsor fail to pay the past-due fee(s) within the applicable periods under this Section 15, Escrow Agent shall have the right to terminate this Agreement immediately by sending notice of termination to all other parties, and, upon termination, Escrow Agent shall deliver to ICANN all Deposits held by Escrow Agent.

16. Ownership of Deposit. Subject to the provisions of the TLD Sponsorship Agreement (including Subsection 3.14) and the Registry Agreement, the parties recognize and acknowledge that ownership of the Deposit during the effective term of this Agreement shall remain with the Registry Operator at all times,

17. Miscellaneous.

17.1 Remedies. For the purposes of fulfilling its obligations under this Agreement, Escrow Agent may act in good faith reliance on, and shall not be held liable for, any written notice, instruction, instrument, or other writing signed or presented by a person with apparent authority to act on behalf of Registry Operator, Sponsor, or ICANN.

- 17.2 Dispute Resolution. Registry Operator, Sponsor, and ICANN agree to resolve any disputes they may have as between or among themselves under this Agreement, including any objections to release of the Deposits pursuant to Section 9.1, solely pursuant to the dispute resolution procedures in the TLD Sponsorship Agreement (for disputes involving ICANN) or the dispute resolution procedures in the Registry Agreement (for disputes not involving ICANN).
- 17.3 Limitation of Liability. The parties shall not be liable to each other for special, indirect, incidental, or consequential damages hereunder. As between Sponsor and Registry Operator the liability limitations of the Registry Agreement also apply. As Sponsor and ICANN the liability limitations of the TLD Sponsorship Agreement also apply. Neither Registry Operator nor ICANN shall be liable to each for monetary damages under this Agreement. Notwithstanding anything else herein, all liability, if any, whether arising in contract, tort (including negligence) or otherwise of Escrow Agent, shall be limited to the amount equal to one (1) year of fees paid or owed to Escrow Agent under this Agreement.
- 17.4 Independent Contractor. Escrow Agent is an independent contractor and is not an employee or agent of Registry Operator, Sponsor, or ICANN.
- 17.5 No Third-Party Beneficiaries. This Agreement shall not be construed to create any obligation by Registry Operator, Sponsor, ICANN, or Escrow Agent to any non-party to this Agreement, including but not limited to any domain-name holder or registrar.
- 17.6 Amendments. This Agreement shall not be modified or amended except in writing executed by each of the parties.
- 17.7 Assignment. Neither Registry Operator, Sponsor, nor ICANN may assign or transfer this Agreement (by merger, sale of assets, operation of law, or otherwise), except that the rights and obligations of Registry Operator, Sponsor, or ICANN automatically shall be transferred to the assignee of one of those parties' rights and obligations under the Registry Agreement or TLD Sponsorship Agreement, as applicable. Escrow Agent may not assign or transfer this Agreement without the prior written consent of Registry Operator, Sponsor, and ICANN.
- 17.8 Entire Agreement. This Agreement, including all exhibits referenced herein, supersedes all prior discussions, understandings, and agreements between Escrow Agent and the other parties with respect to the data escrow services. Sponsor and Registry Operator acknowledge and agree that, as between themselves, the Registry Agreement (including all its appendices, exhibits, and other attachment) is intended to co-exist with this Agreement; this Agreement is supplementary to the Registry Agreement; and the Registry Agreement shall control in the event of any conflict between this Agreement and the Registry Agreement. Sponsor and ICANN acknowledge and agree that, as between themselves, the TLD Sponsorship Agreement (including all its attachments and exhibits) is intended to co-exist with this Agreement; this Agreement is supplementary to the TLD Sponsorship Agreement; and the TLD Sponsorship Agreement shall control in the event of any conflict between this Agreement and the TLD Sponsorship Agreement.

17.9 Counterparts. This Agreement may be executed in counterparts, each of which when so executed shall be deemed to be an original and all of which when taken together shall constitute one and the same Agreement.

17.10 Governing Law. This Agreement shall be construed and enforced in accordance with the laws of the State of California, without regard to its conflicts of laws principles. The parties consent and agree that jurisdiction and venue for any legal proceedings relating to this Agreement shall lie with the state and federal courts of Los Angeles County in the State of California.

17.11 Notices. All notices, requests, demands or other communications required or permitted to be given or made under this Agreement shall be in writing and shall be delivered by hand, by commercial overnight delivery service which provides for evidence of receipt, by certified mail, return receipt requested, postage prepaid, by facsimile, or by e-mail (e-mail to be followed promptly at receiver's request by a copy delivered by one of the other means of delivery) to the corresponding addresses listed on the signature page of this Agreement. If delivered personally, by commercial overnight delivery service, by facsimile, or by e-mail, the date on which the notice, request, instruction, or document is delivered shall be the date on which delivery is deemed to be made, and if delivered by mail, the date on which delivery is deemed to be made. Any party may change its address for the purpose of this Agreement by notice in writing to the other parties as provided herein.

17.12 Survival. The obligation of confidentiality in Section 7, Sections 9, 10, 11, 12, 13, 17.3, and this Section 17.12 shall survive any termination of this Agreement.

17.13 No Waiver. No failure on the part of any party hereto to exercise, and no delay in exercising any right, power, or single or partial exercise of any right, power, or remedy by any party will preclude any other or further exercise of that or any other right, power, or remedy. No express waiver or assent by any party to any breach of or default in any term or condition of this Agreement shall constitute a waiver of or an assent to any succeeding breach of or default in the same or any other term or condition.

(Space to the end of this page is intentionally left blank - signature page follows.)

	IN WITNESS WHEREOF each of the parties has caused its duly authorized officer to execute this Agreement as of the date and year first above written.
	Escrow Agent
	Iron Mountain Intellectual Property Management
1	2100 Norcross Parkway, Suite 150
l	Norcross, GA. 30071
	Phone: 770-239-9200
	Fax: 770-239-9201
	By: Lavoska Barton, Jr.
1	Vice President Service Delivery
	Registry Operator Afilias Limited Office 110, 52 Broomhill Road Tallaght, Dublin 24 Ireland Phone: +353.1.431.0511 Fax: +353.1.431.0557 Attn. Legal Department
	By: Hal Lubsen Chief Executive Officer
	Sponsor Societe Internationale de Telecommunications Aeronautiques, a Belgian co-operative corporation registered with the Belgian Registrar of companies number B 217.548 ("SITA SC") Avenue Henri-Matisse 14 1140 Brussels Belgium Phone: +41 22 747 6000 Fax: +41 22 747 6166 Attn. General Counsel

TLD :	Sponsorship Agreement
By:	
Brijde	cep Sahi
\sqrt{P}	
By:	
•	John Jeffrey
	General Counsel & Secretary
	ZCANN

The Us	ser named in this Agreement hereby contracts with	("Registry Operator") for
non-ex	telusive, non-transferable, limited right to access an Inte	ernet host server or servers designated
_	ry Operator from time to time, and to transfer a copy of	
	achine specified below, under the terms of this Agreem	
	ry Operator, Registry Operator will return a copy of thi	
your U	JserID and Password entered in the spaces set forth belo	OW.
2. User	r Information	
/ \ * * *		
(a) Use	er:	
(1.)	· · · · · · · · · · ·	
(b) Co	ntact Person:	
(a) Str	eet Address:	
(c) but	Set Address.	
(d) Cit	y, State or Province:	_
(d) 011		-
(e) Coi	untry and Postal Code:	
	(f) Telephone Number:	
FOF	RMAT AND CONTENT FOR REGISTRY OPE	ERATOR MONTHLY REPORTI
	try Operator shall provide one set of monthly repor	
	ozano-icann-registry-interfaces, see Specification	2, Part A, Section 9, reference 5, w
the fol	llowing content.	
ICAN	N may request in the future that the reports be deli	ivered by other means and using oth
	ts. ICANN will use reasonable commercial efforts	
	nation reported until three (3) months after the end	
	s set forth in this Specification 3, any reference to	*
	rsal Time (UTC). Monthly reports shall consist of	
	end of the month (UTC).	data that forects the state of the re-
at the	<u>end of the month (e f e).</u>	
<u>1.</u>	Per-Registrar Transactions Report. This repor	rt shall be compiled in a comma
	separated-value formatted file as specified in RF	
	transactions-yyyymm.csv", where "gTLD" is the	gTLD name; in case of an IDN-TL
	the A-label shall be used; "yyyymm" is the year	
	contain the following fields per registrar:	

(i) Specific Internet	host machine that	will be used to acc	ess Registry O	erator's server to	o transfer c
of the Data:					
Name:			_		
			_		
IP Address:			_		
			_		

(j) Purpose(s) for which the Data will be used: During the term of this Agreement, you may use the data for any legal purpose not prohibited under Section 4 below. You may incorporate some or all of the Data in your own products or services, and distribute those products or services for a purpose not prohibited under Section 4 below.

3. Term

This Agreement is effective for a period of three (3) months from the date of execution by Registry Operator (the "Initial Term"). Upon conclusion of the Initial Term this Agreement will automatically renew for successive three-month renewal terms (each a "Renewal Term") until terminated by either party as set forth in Section 12 of this Agreement or one party provides the other party with a written notice of termination at least seven (7) days prior to the end of the Initial Term or the then current Renewal Term.

NOTICE TO USER: CAREFULLY READ THE FOLLOWING TERMS AND CONDITIONS. YOU MAY USE THE USER ID AND ASSOCIATED PASSWORD PROVIDED IN CONJUNCTION WITH THIS AGREEMENT ONLY TO OBTAIN A COPY OF .AERO TOP LEVEL DOMAIN ("TLD") ZONE FILES, AND ANY ASSOCIATED ENCRYPTED CHECKSUM FILES (COLLECTIVELY THE "DATA"), VIA THE FILE TRANSFER PROTOCOL ("FTP") OR THE HYPERTEXT TRANSFER PROTOCOL ("HTTP") PURSUANT TO THESE TERMS.

4. Grant of Access

Registry Operator grants to you a non-exclusive, non-transferable, limited right to access an Internet host server or servers designated by Registry Operator from time to time, and to transfer a copy of the Data to the Internet host machine identified in Section 2 of this Agreement no more than once per 24 hour period using FTP or HTTP for the purposes described in this Section 4. You agree that you will:

(a) use this Data only for lawful purposes but that under no circumstances will you use this Data to: (1) allow, enable, or otherwise support the transmission by e-mail, telephone, or facsimile of mass unsolicited, commercial advertising or solicitations to entities other than your own existing customers; or (2) enable high volume, automated, electronic processes that send queries or data to the systems of Registry Operator or any ICANN-Accredited Registrar, except as reasonably necessary to register domain names or modify existing registrations. Registry Operator reserves the right, with the approval of the Internet Corporation for Assigned Names and Numbers ("ICANN"), to specify additional specific categories of prohibited uses by giving you reasonable written notice at any time and upon receiving such notice you shall not make such prohibited use of the Data you obtain under this Agreement.

(b) Not use this Data, nor permit this Data to be used to harass, annoy, interrupt, disrupt, or interfere in the normal business operations or any registrant.

- (c) Not to use this Data, nor permit this Data to be used for any marketing purposes whatsoever.
- (d) Copy the Data you obtain under this Agreement into a machine-readable or printed form only as necessary to use it in accordance with this Agreement in support of your use of the Data.
- (e) Comply with all applicable laws and regulations governing the use of the Data.
- (f) Not distribute the Data you obtained under this Agreement or any copy thereof to any other party without the express prior written consent of Registry Operator, except that you may redistribute the Data insofar as it has been incorporated by you into a value added product or service that does not permit the extraction of a substantial portion of the Data from the value added product or service, provided you prohibit the recipient of the Data from using the Data in a manner contrary to Section 4(a).
- (g) Take all reasonable steps to protect against unauthorized access to, use, and disclosure of the Data you obtain under this Agreement.

5. Fee

You agree to remit in advance to Registry Operator a quarterly fee of \$0 (USD) for the right to access the files during either the Initial Term or Renewal Term of this Agreement. Registry Operator reserves the right to adjust, with the approval of ICANN, this fee on thirty days prior notice to reflect a change in the cost of providing access to the files.

6. Proprietary Rights

You agree that no ownership rights in the Data are transferred to you under this Agreement. You agree that any copies of the Data that you make will contain the same notice that appears on and in the Data obtained under this Agreement.

7. Method of Access

Registry Operator reserves the right, with the approval of ICANN, to change the method of access to the Data at any time. You also agree that, in the event of significant degradation of system processing or other emergency, Registry Operator may, in its sole discretion, temporarily suspend access under this Agreement in order to minimize threats to the operational stability and security of the Internet.

8. No Warranties

The Data is being provided "as-is." Registry Operator disclaims all warranties with respect to the Data, either expressed or implied, including but not limited to the implied warranties of merchantability, fitness for a particular purpose, and non-infringement of third party rights. Some jurisdictions do not allow the exclusion of implied warranties or the exclusion or limitation of incidental or consequential damages, so the above limitations or exclusions may not apply to you.

9. Severability

In the event of invalidity of any provision of this Agreement, the parties agree that such invalidity shall not affect the validity of the remaining provisions of this Agreement.

10. No Consequential Damages

In no event shall Registry Operator be liable to you for any consequential, special, incidental or indirect damages of any kind arising out of the use of the Data or the termination of this Agreement, even if Registry has been advised of the possibility of such damages.

11. Governing Law

This Agreement shall be governed and construed in accordance with the laws of Ireland. You agree that any legal action or other legal proceeding relating to this Agreement or the enforcement of any provision of this Agreement shall be brought or otherwise commenced in the courts of Ireland, or the federal courts of the Eastern District of Pennsylvania, USA. You expressly and irrevocably agree and consent to the personal jurisdiction and venue of the courts located in Ireland and the Eastern District of Pennsylvania (and each appellate court located therein) for matters arising in connection with this Agreement or your obtaining, use or distribution of the Data. The United Nations Convention on Contracts for the International Sale of Goods is specifically disclaimed.

12. Termination

You may terminate this Agreement at any time by erasing the Data you obtained under this Agreement from your Internet host machine together with all copies of the Data and providing written notice of your termination to Registry Operator at [address of Registry Operator]. Registry Operator has the right to terminate this Agreement immediately if you fail to comply with any term or condition of this Agreement. You agree upon receiving notice of such termination of this Agreement by Registry Operator or expiration of this Agreement to erase the Data you obtained under this Agreement together with all copies of the Data.

13. Definition

"Data" means all data contained in a DNS zone file for the Registry TLD as provided to TLD nameservers on the Internet.

14. Entire Agreement

This is the entire agreement between you and Registry Operator concerning access and use of the Data, and it supersedes any prior agreements or understandings, whether written or oral, relating to access and use of the Data.

gistry Operator]	User:
	By: (sign)
	Name: (print)
1	Title:

	Date:
1	ASSIGNED USERID AND PASSWORD
1	(To be assigned by Registry Operator upon execution of this Agreement):
1	
ĺ	PASSWORD:

Appendix 4

Registry Operator shall provide the following information in its monthly reports. Reports shall be submitted via email to <registry reports@icann.org>. ICANN shall use reasonable commercial efforts to preserve the confidentiality of the information reported until three months after the end of the month to which the report relates.

- 1. Accredited Registrar Status. State the number of registrars in each of the following three categories: (1) operational, (2) ramp-up (registrars that have received a password for access to OT&E), and (3) pre-ramp-up (registrars that have requested access, but have not yet entered the ramp-up period).
- 2. Service Level Agreement Performance. Compare Service Level Agreement requirements with actual performance measures for the reporting month.
- **3.** TLD Zone File Access Activity. State the total number of zone file access passwords at end of the reporting month.
- **4.** Completed System Software Releases. Describe significant releases during the reporting month, including release name, features, and completion date.
- 5. Whois Service Activity. State the number of Whois queries during the reporting month.
- **6. Total Number of Transactions by Subcategory by Month.** State the total number of transactions during the reporting month, in the following subcategories: adds, deletes, modifies, checks, renews, transfers, restores.
- 7. Daily Transaction Range. Tabulate the number of total daily transactions. The range of transaction volume should be shown for each month, along with the average daily transaction volume.
- **8.** Per-Registrar Activity Report. This report shall be transmitted to ICANN electronically in comma or pipe separated value format, using the following fields per registrar:

Field #	Field Namename	Notes Description
01	registrar-name	registrar's Registrar's full corporate name as registered with IANA
02	iana-id	http://www.iana.org/assignments/registrar- idsFor 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 http://www.iana.org/assignments/registrar- ids

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transaction must be reported in the month the			
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11	net-adds-7-yr	""number of domains successfully registered (i.e., not in EPP pendingCreate status) with an initial term of seven (7) years (and not deleted within the add grace period). A transaction must be reported in the month the add grace period ends.
12	net-adds-8-yr	""number of domains successfully registered (i.e., not in EPP pendingCreate status) with an initial term of eight (8) years (and not deleted within the add grace period). A transaction must be reported in the month the add grace period ends.
13	net-adds-9-yr	""number of domains successfully registered (i.e., not in EPP pendingCreate status) with an initial term of nine (9) years (and not deleted within the add grace period). A transaction must be reported in the month the add grace period ends.
14	net-adds-10-yr	""number of domains successfully registered (i.e., not in EPP pendingCreate status) with an initial term of ten (10) years (and not deleted within the add grace period). A transaction must be reported in the month the add grace period ends.
15	net-renews-1-yr	number of domains successfully renewed (i.e., not in EPP pendingRenew status) either automatically or by command with a new renewal period of one (1) year (and not deleted within the renew or auto-renew grace period). A transaction must be reported in the month the renew or auto-renew grace period ends.
16	net-renews-2-yr	number of domains successfully renewed (i.e., not in EPP pendingRenew status) either automatically or by command with a new renewal period of two (2) years (and not deleted within the renew or auto-renew grace period). A transaction must be reported in the month the renew or auto-renew grace period ends.
17	net-renews-3-yr	number of domains successfully renewed (i.e., not in EPP pendingRenew status) either automatically or by command with a new renewal period of three (3) years (and not deleted within the renew or auto-renew grace

		period). A transaction must be reported in the month the renew or auto-renew grace
18	net-renews-4-yr	period ends. etenumber of domains successfully renewed
		(i.e., not in EPP pendingRenew status) either automatically or by command with a new renewal period of four (4) years (and not deleted within the renew or auto-renew grace period). A transaction must be reported in the month the renew or auto-renew grace period ends.
19	net-renews-5-yr	""number of domains successfully renewed (i.e., not in EPP pendingRenew status) either automatically or by command with a new renewal period of five (5) years (and not deleted within the renew or auto-renew grace period). A transaction must be reported in the month the renew or auto-renew grace period ends.
20	net-renews-6-yr	""number of domains successfully renewed (i.e., not in EPP pendingRenew status) either automatically or by command with a new renewal period of six (6) years (and not deleted within the renew or auto-renew grace period). A transaction must be reported in the month the renew or auto-renew grace period ends.
21	net-renews-7-yr	""number of domains successfully renewed (i.e., not in EPP pendingRenew status) either automatically or by command with a new renewal period of seven (7) years (and not deleted within the renew or auto-renew grace period). A transaction must be reported in the month the renew or auto-renew grace period ends.
22	net-renews-8-yr	""number of domains successfully renewed (i.e., not in EPP pendingRenew status) either automatically or by command with a new renewal period of eight (8) years (and not deleted within the renew or auto-renew grace period). A transaction must be reported in the month the renew or auto-renew grace period ends.
23	net-renews-9-yr	""number of domains successfully renewed (i.e., not in EPP pendingRenew status) either

		automatically or by command with a new renewal period of nine (9) years (and not deleted within the renew or auto-renew grace period). A transaction must be reported in the month the renew or auto-renew grace period ends.
24	net-renews-10-yr	""number of domains successfully renewed (i.e., not in EPP pendingRenew status) either automatically or by command with a new renewal period of ten (10) years (and not deleted within the renew or auto-renew grace period). A transaction must be reported in the month the renew or auto-renew grace period ends.
25	transfer-gaining- successful	number of domain transfers initiated by this registrar that were ack'd by the other registrar either by command successfully completed (either explicitly or automatically approved) and not deleted within the transfer grace period. A transaction must be reported in the month the transfer grace period ends.
26	transfer-gaining-nacked	number of domain transfers initiated by this registrar that were n'acked rejected (e.g., EPP transfer op="reject") by the other registrar
27	transfer-losing-successful	number of domain transfers initiated by another registrar that this registrar ack'd either by commandwere successfully completed (either explicitly or automatically approved)
28	transfer-losing-nacked	number of domain transfers initiated by another registrar that this registrar n'ackedrejected (e.g., EPP transfer op="reject")
29	transfer-disputed-won	number of transfer disputes in which this registrar prevailed (reported in the month where the determination happened)
30	transfer-disputed-lost	number of transfer disputes this registrar lost (reported in the month where the determination happened)
31	transfer-disputed- nodecision	number of transfer disputes involving this registrar with a split or no decision (reported in the month where the determination happened)
32	deleted-domains-grace	domains deleted within the add grace period (does not include names deleted while in

		EPP pendingCreate status). A deletion must be reported in the month the name is purged.
33	deleted-domains-nograce	domains deleted outside the add grace period (does not include names deleted while in EPP pendingCreate status). A deletion must be reported in the month the name is purged.
34	restored-domains	domain names restored from redemptionduring reporting period
35	restored-noreport	total number of restored names for which a restore report is required by the registry, but the registrar failed to submit a restore report it
<u>36</u>	agp-exemption-requests	total number of AGP (add grace period) exemption requests
<u>37</u>	agp-exemptions-granted	total number of AGP (add grace period) exemption requests granted
<u>38</u>	agp-exempted-domains	total number of names affected by granted AGP (add grace period) exemption requests
<u>39</u>	attempted-adds	number of attempted (both successful and failed) domain name create commands

The first line shall include the field names exactly as described in the table above as a "header line" as described in section 2 of RFC 4180. The last line of each report shall include totals for each column across all registrars; the first field of this line shall read "Totals" while the second field shall be left empty in that line. No other lines besides the ones described above shall be included. Line breaks shall be <U+000D, U+000A> as described in RFC 4180.

2. Registry Functions Activity Report. This report shall be compiled in a comma separated-value formatted file as specified in RFC 4180. The file shall be named "gTLD-activity-yyyymm.csv", where "gTLD" is the gTLD name; in case of an IDN-TLD, the Alabel shall be used; "yyyymm" is the year and month being reported. The file shall contain the following fields:

Field #	Field Name	<u>Description</u>
<u>01</u>	operational-registrars	number of operational registrars in the production system at the end of the reporting period
<u>02</u>	<u>zfa-passwords</u>	number of active zone file access passwords at the end of the reporting period; "CZDS" may be used instead of the number of active zone file access passwords, if the Centralized Zone Data Service (CZDS) is used to provide the zone file to the end user
<u>03</u>	whois-43-queries	number of WHOIS (port-43) queries responded during the reporting period
<u>04</u>	web-whois-queries	number of Web-based Whois queries responded

Field #	Field Name	<u>Description</u>
		during the reporting period, not including searchable Whois
<u>05</u>	searchable-whois-queries	number of searchable Whois queries responded during the reporting period, if offered
<u>06</u>	dns-udp-queries-received	number of DNS queries received over UDP transport during the reporting period
<u>07</u>	dns-udp-queries-responded	number of DNS queries received over UDP transport that were responded during the reporting period
<u>08</u>	dns-tcp-queries-received	number of DNS queries received over TCP transport during the reporting period
<u>09</u>	dns-tcp-queries-responded	number of DNS queries received over TCP transport that were responded during the reporting period
<u>10</u>	srs-dom-check	number of SRS (EPP and any other interface) domain name "check" requests responded during the reporting period
<u>11</u>	srs-dom-create	number of SRS (EPP and any other interface) domain name "create" requests responded during the reporting period
<u>12</u>	srs-dom-delete	number of SRS (EPP and any other interface) domain name "delete" requests responded during the reporting period
<u>13</u>	srs-dom-info	number of SRS (EPP and any other interface) domain name "info" requests responded during the reporting period
<u>14</u>	srs-dom-renew	number of SRS (EPP and any other interface) domain name "renew" requests responded during the reporting period
<u>15</u>	srs-dom-rgp-restore-report	number of SRS (EPP and any other interface) domain name RGP "restore" requests delivering a restore report responded during the reporting period
<u>16</u>	srs-dom-rgp-restore-request	number of SRS (EPP and any other interface) domain name RGP "restore" requests responded during the reporting period
<u>17</u>	srs-dom-transfer-approve	number of SRS (EPP and any other interface) domain name "transfer" requests to approve transfers responded during the reporting period
<u>18</u>	srs-dom-transfer-cancel	number of SRS (EPP and any other interface) domain name "transfer" requests to cancel transfers responded during the reporting period

Field #	Field Name	<u>Description</u>
<u>19</u>	srs-dom-transfer-query	number of SRS (EPP and any other interface) domain name "transfer" requests to query about a transfer responded during the reporting period
<u>20</u>	srs-dom-transfer-reject	number of SRS (EPP and any other interface) domain name "transfer" requests to reject transfers responded during the reporting period
<u>21</u>	srs-dom-transfer-request	number of SRS (EPP and any other interface) domain name "transfer" requests to request transfers responded during the reporting period
<u>22</u>	srs-dom-update	number of SRS (EPP and any other interface) domain name "update" requests (not including RGP restore requests) responded during the reporting period
<u>23</u>	srs-host-check	number of SRS (EPP and any other interface) host "check" requests responded during the reporting period
<u>24</u>	srs-host-create	number of SRS (EPP and any other interface) host "create" requests responded during the reporting period
<u>25</u>	srs-host-delete	number of SRS (EPP and any other interface) host "delete" requests responded during the reporting period
<u>26</u>	<u>srs-host-info</u>	number of SRS (EPP and any other interface) host "info" requests responded during the reporting period
<u>27</u>	srs-host-update	number of SRS (EPP and any other interface) host "update" requests responded during the reporting period
<u>28</u>	srs-cont-check	number of SRS (EPP and any other interface) contact "check" requests responded during the reporting period
<u>29</u>	srs-cont-create	number of SRS (EPP and any other interface) contact "create" requests responded during the reporting period
<u>30</u>	<u>srs-cont-delete</u>	number of SRS (EPP and any other interface) contact "delete" requests responded during the reporting period
<u>31</u>	srs-cont-info	number of SRS (EPP and any other interface) contact "info" requests responded during the reporting period
<u>32</u>	srs-cont-transfer-approve	number of SRS (EPP and any other interface) contact "transfer" requests to approve transfers

Field #	Field Name	<u>Description</u>
		responded during the reporting period
<u>33</u>	srs-cont-transfer-cancel	number of SRS (EPP and any other interface)
		contact "transfer" requests to cancel transfers responded during the reporting period
<u>34</u>	srs-cont-transfer-query	number of SRS (EPP and any other interface) contact "transfer" requests to query about a transfer responded during the reporting period
<u>35</u>	srs-cont-transfer-reject	number of SRS (EPP and any other interface) contact "transfer" requests to reject transfers responded during the reporting period
<u>36</u>	srs-cont-transfer-request	number of SRS (EPP and any other interface) contact "transfer" requests to request transfers responded during the reporting period
<u>37</u>	srs-cont-update	number of SRS (EPP and any other interface) contact "update" requests responded during the reporting period

The first line shall include the field names exactly as described in the table above as a "header line" as described in section 2 of RFC 4180. No other lines besides the ones described above shall be included. Line breaks shall be <U+000D, U+000A> as described in RFC 4180.

For gTLDs that are part of a single-instance Shared Registry System, the Registry Functions Activity Report may include the total contact or host transactions for all the gTLDs in the system.

SPECIFICATION 4

REGISTRATION DATA PUBLICATION SERVICES

1. Registration Data Directory Services. Registry Operator will operate a WHOIS service available via port 43 in accordance with RFC 3912, and a web-based Directory Service at whois.nic.TLD providing free public query-based access to at least the following elements in the following format. ICANN reserves the right to specify alternative formats and protocols, and upon such specification, the Registry Operator will implement such alternative specification as soon as reasonably practicable.

Registry Operator shall implement a new standard supporting access to domain name registration data (SAC 051) no later than one hundred thirty-five (135) days after it is requested by ICANN if: 1) the IETF produces a standard (i.e., it is published, at least, as a Proposed Standard RFC as specified in RFC 2026); and 2) its implementation is commercially reasonable in the context of the overall operation of the registry.

- 1.1. The format of responses shall follow a semi-free text format outline below, followed by a blank line and a legal disclaimer specifying the rights of Registry Operator, and of the user querying the database.
- 1.2. 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.
- 1.3. 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. The fields specified below set forth the minimum output requirements. Registry Operator may output data fields in addition to those specified below, subject to approval by ICANN, which approval shall not be unreasonably withheld.
- 1.5. **Domain Name Data:**
 - 1.5.1 **Query format:** whois EXAMPLE.TLD
 - **1.5.2 Response format:**

Domain Name: EXAMPLE.TLD
Domain ID: D1234567-TLD
WHOIS Server: whois.example.tld
Referral 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

Sponsoring Registrar: EXAMPLE REGISTRAR LLC

Sponsoring Registrar IANA ID: 555555
Domain Status: clientDeleteProhibited
Domain Status: clientRenewProhibited
Domain Status: clientTransferProhibited
Domain Status: serverUpdateProhibited

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

Appendix 5

Public Whois Specification

RFC954-Conformant Whois

The standard Whois service is intended as a lookup service for registries, registrars, registrants, as well as for other individuals and businesses that wish to query details of domain names or nameservers stored in the registry. The standard Whois service will provide a central location for all authoritative .aero TLD data. The registry provides a front end web interface to allow convenient user access to the Whois service.

The RFC954-conformant Whois service will be engineered to handle moderate transaction load and be integral to the standard suite of Registry Services. The Whois service will return a single response per domain name or nameserver query. The RFC954-conformant Whois service will conform to the requirements of Appendix 5.

The RFC954-conformant service provided by the registry will have the following features:

- Standard protocol accessible over port 43.
- Batch-style or near real time updates.
- Additional fields capability.
- Whois Service Data Elements

Whois Service Data Elements

The RFC954 conformant service will include the following data elements:

- The name of the domain name registered;
- The IP addresses of the primary nameserver and secondary nameserver(s) of the name registered, if applicable, i.e. nameserver has a .aero name.;
- The corresponding names of those nameservers;
- The identity of the sponsoring registrar;
- The ENS_AuthId identifying the authorization of the registration, (this enables tracking of registrations performed using the same ENS_AuthId);
- The original creation date and term of the registration;
- The name, postal address, e-mail address, voice telephone number, and (where available) fax number of the domain name registrant;
- The name, postal address, e-mail address, voice telephone number, and (where available) fax number of the technical contact for the name registered;
- The name, postal address, e-mail address, voice telephone number, and (where available) fax number of the administrative contact for the name registered; and
- The Maintainer URL (email or website). The maintainer is a person that has been designated by the Registrar for the registration of the domain (for example a reseller, could also depend on the registrant).

Minimum Data Update Frequency

The Registry Operator shall make reasonable efforts to update the data continuously as requests are processed, in a matter of seconds or minutes. The typical update cycle will be 30 seconds but may be different depending on performance considerations. The Registry Operator shall ensure that records in the Whois server are updated no later than 24 hours after the completion of the registration or modification transaction with the registrar.

Additional Fields Capability

If necessary, .aero may introduce after a 6 to 12 month period of operational stability some additional fields to the list of Whois fields. Those fields will be preceded and identified by appropriate tags.

Privacy Capability

The Sponsor may introduce the optional ability to associate privacy labels to a record in the Registry Database. These fields would appear in an "additional information" section of the Whois data. The maximum number of custom fields allowed per record is yet to be determined.

The privacy label capability allows certain data to be associated with an indication of any special disclosure or handling restrictions.

Query Control - Object Type Control

The following keywords restrict a search to specific object type:

Domain: Search only by domain objects. The input string is searched in the Name field.

Contact: Search only contact objects. The input string is searched in the ID field.

Nameserver: Search only by nameserver objects. The input string is searched in the nameserver field or the IP address field.

Registrar: Search only registrar objects. The input string is searched in the Name field.

By default, if no object type control is specified, then the Name field of the Domain object is searched.

Whois Output Fields

Domain Record:

A Whois query that results in domain information will return the following fields from the Domain object and the associated data from host and contact objects. This set of data is also referred to as the Domain Record.

Domain ID

Domain Name

Domain Status

Sponsoring Registrar < Registrar Name > (IANA-assigned identifier)

ENS AuthID

Registrant, Administrative, Technical and Billing Contact Information including

Contact ID

Contact Name

Contact Organization

-Contact Address, City, State/Province, Country

Contact Postal Code

Contact Phone, Fax, E-mail

Maintainer URL

Names of Nameservers associated with this domain

Created by Registrar < Registrar Name > (IANA-assigned identifier)

Last Updated by Registrar < Registrar Name > (IANA-assigned identifier)

Last Transferred Date

Additional fields (Sponsor specified, will be defined later, if required)

Domain Registration Date

Domain Expiration Date

Domain Last Updated Date

Nameserver Record:

Nameserver ID

Nameserver name

Currently Associated (true/false)

Nameserver status

IP addresses associated (if applicable)

Created by Registrar < Registrar Name > (IANA assigned identifier)

Sponsoring Registrar < Registrar Name > (IANA assigned identifier)

Last Updated by Registrar < Registrar Name > (IANA assigned identifier)

Created Date

Last Updated Date

Last Transferred Date

Additional fields (Sponsor specified, will be defined later, if required)

Contact Record:

A Whois query that results in contact information will return the following. This set of information is referred to as the Contact Record.

Contact ID

Contact Name

Contact Organization

Contact Address, City, State/Province, Country + 3 street fields

Contact Postal Code

Contact Phone, Fax, E-mail

Contact Registration Date

Contact Last Updated Date

Currently Associated

Contact Status

Additional fields (Sponsor specified)

Sponsoring Registrar < Registrar Name > (IANA assigned identifier)

Created by Registrar < Registrar Name > (IANA-assigned identifier)

Last Transferred Date

Registrar Record:

A Whois query that results in registrar information will return the following. This set of information is referred to as the Registrar Record.

Registrar ID < Registrar Name > (IANA-assigned identifier)

Registrar Name

Registrar Status

Registrar Address, City, State/Province, Country

Registrar Postal Code

Registrar Phone, Fax, E-mail

Registrar Administrative Contacts

Registrar Technical Contacts

Registrar Billing Contacts

Sample Whois Output

This section provides sample output from the Whois server for each type of Registry Object: Domain, Contact, Nameserver, and Registrar. The output is structured as key/value pairs, which simplifies machine readability. In the Input section, the quoted string represents the string actually passed to the server in the request packet.

Domain Record:

Input: whois "domain = sita.aero"
Output: Domain ID: AAA-0001
Domain Name: SITA.AERO

Sponsoring Registrar: SITA (REG-01) ENS AuthId: AERO-123456789

Domain Status: ACTIVE Registrant ID: PER-00001

Registrant Name: ANDREW CHARLTON

Registrant Organization: SITA, ICN

Registrant Address: 1234 MAIN STREET Registrant City: GENEVA

Registrant State/Province: A

Registrant Country: SWITZERLAND

Registrant Postal Code: 1234

Registrant Phone Number: +41-22-747-6704 Registrant Facsimile Number: +41-22-747-6212

Registrant Email: CHARLTON@SITA.AEROEMAIL@EXAMPLE.TLD

Admin ID: PER-00002

Admin Name: ANDREW CHARLTON

Admin Organization: SITA, INC.

Admin Address: 26 CHEMIN DA JOINVILLE

Admin City: GENEVA
Admin State/Province: A

Admin Country: SWITZERLAND

Admin Postal Code: 1234

Admin Phone Number: +41-22-747-6704 Admin Facsimile Number: +41-22-747-6212

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: CHARLTON@SITA.AEROEMAIL@EXAMPLE.TLD

Tech ID: PER-00002

Tech Name: ANDREW CHARLTON

Tech Organization: SITA, INC

Tech Address: 26 CHEMIN DA JOINVILLE

Tech City: GENEVA
Tech State/Province: A

Tech Country: SWITZERLAND

Tech Postal Code: 1234

Tech Phone Number: +41-22-747-6704
Tech Facsimile Number: +41-22-747-6212

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: CHARLTON@SITA.AEROEMAIL@EXAMPLE.TLD

Billing ID: PER-00002

Billing Name: ANDREW CHARLTON

Billing Organization: SITA, INC.

Billing Address: 26 CHEMIN DA JOINVILLE

Billing City: GENEVA

Name Server: NS01.EXAMPLEREGISTRAR.TLD Name Server: NS02.EXAMPLEREGISTRAR.TLD

DNSSEC: signedDelegation

DNSSEC: unsigned

>>> Last update of WHOIS database: 2009-05-29T20:15:00Z <<<

1.6. **Registrar Data:**

1.6.1 **Query format**: whois "registrar Example Registrar, Inc."

1.6.2 Response format:

Registrar Name: Example Registrar, Inc.

Street: 1234 Admiralty Way

City: Marina del Rey

Billing State/Province: ACA

Postal Code: 90292

Country: US

Billing Country: SWITZERLAND

Billing Postal Code: 1234

Billing Phone Number: +41-22-747-67041.3105551212

Billing Facsimile Number: +41-22-747-6212

Fax Number: +1.3105551213

Billing Email: CHARLTON@SITA.AEROregistrar@example.tld NameWHOIS Server: NIC.AERO.ORGwhois.example-registrar.tld

Referral 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

<u>Technical Contact: John Geek</u> <u>Phone Number: +1.3105551215</u> Fax Number: +1.3105551216

Email: johngeek@example-registrar.tld

>>> Last update of WHOIS database: 2009-05-29T20:15:00Z <<<

1.7. Nameserver Data:

1.7.1 Query format: whois "nameserver (nameserver name)", or whois "nameserver (IP Address)." For example: whois "nameserver NS1.EXAMPLE.TLD".

1.7.2 **Response format:**

Server Name: NS1.EXAMPLE.TLD

<u>IP Address: 192.0.2.123</u> <u>IP Address: 2001:0DB8::1</u>

Registrar: Example Registrar, Inc.

WHOIS Server: whois.example-registrar.tld
Referral URL: http://www.example-registrar.tld

>>> Last update of WHOIS database: 2009-05-29T20:15:00Z <<<

1.8. 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.

- 1.9. <u>In order to be compatible with ICANN's common interface for WHOIS</u> (InterNIC), WHOIS output shall be in the format outline above.
- 1.10. Searchability. Offering searchability capabilities on the Directory Services is optional but if offered by the Registry Operator it shall comply with the specification described in this section.
 - <u>1.10.1</u> <u>Registry Operator will offer searchability on the web-based Directory Service.</u>
 - 1.10.2 Registry Operator will offer partial match capabilities, at least, on 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.).
 - 1.10.3 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).
 - 1.10.4 Registry Operator will offer Boolean search capabilities supporting, at least, the following logical operators to join a set of search criteria: AND, OR, NOT.
 - 1.10.5 Search results will include domain names matching the search criteria.
 - 1.10.6 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 or policies.
- 1.11. 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 WHOIS policy and educational materials.

2. **Zone File Access**

2.1. Third-Party Access

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 below; (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 below or where Registry Operator reasonably believes will violate the terms of Section 2.1.5 below; 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 below.

- 2.1.2 Credentialing Requirements. Registry Operator, through the facilitation of the CZDA Provider, will request each user to provide it with information sufficient to correctly identify and locate the user. Such user information will include, without limitation, company name, contact name, address, telephone number, facsimile number, email address and IP address.
- 2.1.3 **Grant of Access**. Each Registry Operator (optionally through the CZDA Provider) will provide the Zone File SFTP (or other Registry supported) service for an ICANN-specified and managed URL (specifically, <TLD>.zda.icann.org where <TLD> is the TLD for which the registry is responsible) for the user to access the Registry's zone data archives. Registry Operator will grant the user a non-exclusive, nontransferable, limited right to access Registry Operator's (optionally CZDA Provider's) Zone File hosting server, and to transfer a copy of the top-level domain zone files, and any associated cryptographic checksum files no more than once per 24 hour period using SFTP, or other data transport and access protocols that may be prescribed by ICANN. For every zone file access server, the zone files are in the top-level directory called <zone>.zone.gz, with <zone>.zone.gz.md5 and <zone>.zone.gz.sig to verify downloads. If the Registry Operator (or the CZDA Provider) also provides historical data, it will use the naming pattern <zone>-yyyymmdd.zone.gz, etc.
- 2.1.4 File Format Standard. Registry Operator (optionally through the CZDA Provider) will provide zone files using a subformat of the standard Master File format as originally defined in RFC 1035, Section 5, including all the records present in the actual zone used in the public DNS. Sub-format is as follows:
 - <u>Each record must include all fields in one line as: <domain-name></u> <TTL> <class> <type> <RDATA>.
 - 2. Class and Type must use the standard mnemonics and must be in lower case.
 - 3. TTL must be present as a decimal integer.

Use of \X and \DDD inside domain names is allowed. <u>4.</u> 5. All domain names must be in lower case. Must use exactly one tab as separator of fields inside a record. 6. <u>7.</u> All domain names must be fully qualified. No \$ORIGIN directives. 8. 9. No use of "@" to denote current origin. No use of "blank domain names" at the beginning of a record to 10. continue the use of the domain name in the previous record. <u>11.</u> No \$INCLUDE directives. 12. No \$TTL directives. No use of parentheses, e.g., to continue the list of fields in a record 13. across a line boundary. 14. No use of comments. 15. No blank lines. The SOA record should be present at the top and (duplicated at) 16. the end of the zone file. With the exception of the SOA record, all the records in a file must 17. be in alphabetical order. 18. One zone per file. If a TLD divides its DNS data into multiple zones, each zone goes into a separate file named as above, with all the files combined using tar into a file called <tld>.zone.tar. Use of Data by User. Registry Operator will permit user to use the zone 2.1.5 file for lawful purposes; provided that (a) user takes all reasonable steps to protect against unauthorized access to, use of, and disclosure of the data, and (b) under no circumstances will Registry Operator be required or permitted to allow user to use the data to (i) allow, enable or otherwise support any marketing activities to entities other than the user's existing customers, regardless of the medium used (such media include but are not limited to transmission by e-mail, telephone, facsimile, postal mail, SMS,

and wireless alerts of mass unsolicited, commercial advertising or solicitations to entities), (ii) enable high volume, automated, electronic processes that send queries or data to the systems of Registry Operator or

- any ICANN-accredited registrar, or (iii) interrupt, disrupt or interfere in the normal business operations of any registrant.
- 2.1.6 Term of Use. Registry Operator, through CZDA Provider, will provide each user with access to the zone file for a period of not less than three (3) months. Registry Operator will allow users to renew their Grant of Access.
- 2.1.7 No Fee for Access. Registry Operator will provide, and CZDA Provider will facilitate, access to the zone file to user at no cost.

2.2. Co-operation

- 2.2.1 Assistance. Registry Operator will co-operate and provide reasonable assistance to ICANN and the CZDA Provider to facilitate and maintain the efficient access of zone file data by permitted users as contemplated under this Schedule.
- 2.3. ICANN Access. Registry Operator shall provide bulk access to the zone files for the TLD to ICANN or its designee on a continuous basis in the manner ICANN may reasonably specify from time to time. Access will be provided at least daily. Zone files will include SRS data committed as close as possible to 00:00:00 UTC.
- 2.4. Emergency Operator Access. Registry Operator shall provide bulk access to the zone files for the TLD to the Emergency Operators designated by ICANN on a continuous basis in the manner ICANN may reasonably specify from time to time.

3. Bulk Registration Data Access to ICANN

- 3.1. Periodic Access to Thin Registration Data. In order to verify and ensure the operational stability of Registry Services as well as to 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.
 - 3.1.1 Contents. Registry Operator will provide, at least, 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, at least, it will provide: registrar name, registrar id (IANA ID), hostname of registrar Whois server, and URL of registrar.
 - 3.1.2 Format. The data will be provided in the format specified in Specification 2 for Data Escrow (including encryption, signing, etc.) but including only the fields mentioned in the previous section, i.e., the file will only contain Domain and Registrar objects with the fields mentioned above. Registry

Operator has the option to provide a full deposit file instead as specified in Specification 2.

- 3.1.3 Access. Registry Operator will have the file(s) ready for download as of 00:00:00 UTC on the day designated for retrieval by ICANN. The file(s) will be made available for download by SFTP, though ICANN may request other means in the future.
- 3.2. Exceptional Access to Thick Registration Data. In case of a registrar failure, deaccreditation, court order, etc. that prompts the temporary or definitive transfer of its domain names to another registrar, at the request of ICANN, Registry Operator will provide ICANN with up-to-date data for the domain names of the losing registrar. The data will be provided in the format specified in Specification 2 for Data Escrow. The file will only contain data related to the domain names of the losing registrar. Registry Operator will provide the data as soon as commercially practicable, but in no event later than five (5) calendar days following ICANN's request. Unless otherwise agreed by Registry Operator and ICANN, the file will be made available for download by ICANN in the same manner as the data specified in Section 3.1 of this Specification.
- 4. Registration Data Access Protocol (RDAP) Global Amendment. Registry Operator acknowledges and agrees that the Global Amendment to the Base Registry Agreement (defined as the registry agreement set forth at https://www.icann.org/resources/pages/registries/registries-agreements-en, as may be amended from time to time) implementing Registration Data Access Protocol ("RDAP"), including adding new terms related to Registration Data Directory Services (such amendment, the "RDAP Global Amendment"), shall, in both form and substance, be incorporated in and applicable to this Agreement upon the effective date of the RDAP Global Amendment (such date, the "RDAP Global Amendment Effective Date"). ICANN shall give Registry Operator sixty (60) days' prior written notice of the anticipated RDAP Global Amendment Effective Date.

As soon as reasonably practicable following such notice, ICANN shall deliver to Registry Operator a draft amendment revising the terms of this Agreement as necessary to incorporate the terms of the RDAP Global Amendment (the "Registry Agreement Amendment"). Both parties shall use commercially reasonable efforts to finalize the terms of the Registry Agreement Amendment prior to the RDAP Global Amendment Effective Date. Following the RDAP Global Amendment Effective Date and until the effective date of the Registry Agreement Amendment, Registry Operator shall comply with the terms of the RDAP Global Amendment, unless compliance with any term or provision thereof is waived by ICANN in writing.

Name Server: WWW.ICOM.ORG

Maintainer: SPECIALCARE@RESELLER.COM

Created By: SITA (REG-02)

Updated By: SITA (REG-01) Created On: 2002-01-02 Expires On: 2004-01-02 Updated On: 2002-03-02 Transferred On: 2002-03-02

Nameserver Record:

Input: whois "nameserver nic.sita.aero"

or

whois "nameserver 130.242.24.6"

Output: Nameserver ID: HST-1

Nameserver name: NIC.SITA.AERO

Currently Associated (true/false):T

Nameserver status: ACTIVE

IP addresses associated: 130.242.24.6

Sponsoring Registrar: SITA (REG-01)

Created By: SITA (REG-02)

Updated By: SITA (REG-01)

Created On: 2002-01-02

Updated On: 2002-03-02

Transferred On: 2002-03-02

Additional fields (Sponsor specified, will be defined later, if required)

Contact Record:

Input: whois "contact = PER 00002"
Output: Contact ID: PER 00002
Name: ANDREW CHARLTON

Organization: SITA, INC

Address: 26 CHEMIN DA JOINVILLE

City: GENEVA

State: A

Country: SWITZERLAND

Postal Code: 1234

Phone Number: +41-22-747-6704

Facsimile Number +41-22-747-6212

E-mail: CHARLTON@SITA.AERO

Status: Active

Sponsoring Registrar: SITA (REG-01)

Created By: SITA (REG-01)
Created On: 2002-01-02
Updated On: 2002-01-02
Transferred On: 0000-00-00

Registrar Record:

Input: whois "registrar SAMPLE"

Output: Registrar ID: SITA (REG-01)

Registrar Name: SAMPLE

Registrar Status: ACTIVE

Registrar Address 1: 123 Some Street

Registrar Address 2: Registrar City: Acity

Registrar State/Province: RE

Registrar Country: CC

Registrar Postal Code: 12345

Registrar Phone: +11-11-1111-1111

Registrar Fax: +22-22-2222-2222

Registrar E-mail: jdoe@sample.tld

Admin Contact ID: PER-00003

Tech Contact ID: PER-00004

Billing Contact Name: PER-00005

Whois Provider Data Specification

Sponsor shall ensure Registry Operator provides bulk access to up-to-date data concerning domain name and nameserver registrations maintained by Registry Operator in connection with the Sponsored TLD on a daily schedule, only for purposes of providing free public query-based access to up-to-date data concerning domain name and nameserver registrations in multiple TLDs, to a party designated from time to time in writing by ICANN (the "Designated Recipient"). Any agreement between ICANN and a Designated Recipient for the license of such data (a "Whois License Agreement") will provide Sponsor with the right to enforce the Designated Recipient's obligations under this Appendix and the Whois License Agreement directly against the Designated Recipient, whether through being made a party to or third-party beneficiary of such agreement or through such other means as may be appropriate. In addition, any Whois License Agreement will include the following provisions governing the use of such data by the Designated Recipient:

- 1. The Designated Recipient shall only use the data provided by the Registry Operator for the purpose of providing free public query based Whois access as described in Subsection 3.1(c)(v) of the TLD Sponsorship Agreement (including Appendix S, Part 5, as it may be amended from time to time). The Designated Recipient may not use such data for any other purpose.
- 2. The Designated Recipient shall use best efforts to implement any corrections to the data provided by the Registry Operator as soon as practicable.
- 3. The Designated Recipient must take such technical and organizational security measures as are, at a minimum, equivalent to those implemented by the Registry Operator with respect to such data.
- 4. Except for providing free public query based access according to item 1 above, the Designated Recipient shall not transfer the data to any third party for any purpose except in the event that such third party becomes bound in the same manner as a Designated Recipient by the provisions of this Appendix and the Whois License Agreement.

The procedures for providing access, and the specification of the content and format of this data, will be as stated below, until changed according to the TLD Sponsorship Agreement. This Appendix is subject to change by agreement of Sponsor and ICANN during the design process as well as during the IETF standards process. In addition, Sponsor agrees to require Registry Operator to implement changes to this Appendix specified by ICANN to conform to the IETF provreg working group's protocol specification no later than 135 days after the IETF specification is adopted as a Proposed Standard [RFC 2026, section 4.1.1]. Accordingly, the following provides the target architecture and initial functionality.

A. Procedures for Providing Access

Sponsor shall ensure Registry Operator prepares (i) full data sets for one day of each week (the day to be designated by ICANN) and (ii) incremental data sets for all seven days of each week. Full and incremental data sets shall be up to date and coherent as of 1200 UTC on the day to which they relate. Until a different day is designated by ICANN, the full data sets will be prepared for Sundays. (Note that on the ICANN designated day both an incremental and a full data set are prepared.)

1. Preparation of Files Containing Data Sets. Each full and incremental data set consists of an XML document meeting the content and format requirements of Parts B and C of this document. Once the XML document is generated, the following preparation steps will be performed:

a. The XML document will be placed in a file named according to the following convention:

For full data sets: "wfYYMMDD" where "YYMMDD" is replaced with the date (YY=last two digits of year; MM=number of month; DD=day; in all cases a single-digit number should be left-padded with a zero).

For incremental data sets: "wiYYMMDD" where "YYMMDD" follows the same format.

b. The Registry Operator may optionally split the document using the Unix SPLIT command (or equivalent) to produce files no less than 1GB each (except the final file). If files are split, an MD5 file (produced with MD5SUM or equivalent) must be included with the resulting files to isolate errors in case of transfer fault. The Registry Operator may optionally compress the document using the Unix GZIP command (or equivalent) to reduce the file size.

c. The file(s) will then be encrypted and signed using PGP, version 6.5.1 or above, with a key of DH/DSS type and 2048/1024 byte length. (Note that PGP compresses the escrow file in addition to encrypting it.) The Data Recipient's public key will be used for the encryption and the Registry Operator's private key will be used for the signature. Public keys will be exchanged between the Registry Operator and the Designated Recipient by e-mail, physical delivery of floppy diskettes, or other agreed means.

- 2. Transmission of Full Data Sets. Once prepared, full data sets will be provided either by the procedures for incremental data sets described in item A(3) below or, at the option of either the Registry Operator or the Designated Recipient, by writing the full data set to DAT tape (or other media mutually agreed by Registry Operator and the Designated Recipient) and sending it to the Designated Recipient by expedited delivery service (such as FedEx or DHL). If sent by expedited delivery service, the full data set will be scheduled for arrival no later than the second calendar day following the day to which the full backup relates.
- 3. Transmission of Incremental Data Sets. To permit the transmission of incremental data sets, Sponsor shall ensure Registry Operator makes them available for download by the Designated Recipient by Internet File Transfer Protocol. Incremental data sets will be made available for download no later than 2000 UTC on the day to which they relate.

B. Content

The data sets (whether full or incremental) will consist of four types of objects:

1. Domain Objects. One type of object is the domain object, which corresponds to a single Registered Name. Each domain object includes the following data:

Domain ID

Domain Name

Sponsoring Registrar < Registrar Name > (IANA-assigned identifier)

Domain Status

ENS AuthId

Registrant, Administrative, Technical and Billing Contact Information (references to appropriate contact

objects)

Maintainer URL

Names of Nameservers associated with this domain

Created by Registrar < Registrar Name > (IANA-assigned identifier)

Last Updated by Registrar (IANA-assigned identifier)

Last Transferred Date

Additional fields (Sponsor specified)

Domain Registration Date

Domain Expiration Date

Domain Last Updated Date

2. Nameserver Objects. A second type of object is the nameserver object, which corresponds to a single registered nameserver. The nameserver object includes the following data:

Nameserver ID

Nameserver Name

IP Addresses associated

Sponsoring Registrar < Registrar Name > (IANA-assigned identifier)

Created by Registrar < Registrar Name > (IANA-assigned identifier)

Nameserver Last Updated by Registrar Registrar Name (IANA-assigned identifier)

Created Date

Last Updated Date

Last Transferred Date

3. Contact Objects. A third type of object is the contact object, which corresponds to a single contact (whether registrant, administrative, technical, or billing contact). The contact object includes the following data:

Contact ID

Contact Name

Contact Organization

Contact Address, City, State/Province, Country

Contact Postal Code

Contact Phone, Fax, E-mail

Contact Registration Date

Contact Last Updated Date
Currently Associated
Contact Status
Additional fields (Sponsor specified)
Sponsoring Registrar <Registrar Name> (IANA-assigned identifier)
Created Registrar <Registrar Name> (IANA-assigned identifier)
Last Transferred Date

4. Registrar Object. The final type of object corresponds to a single registrar. It includes the following data:

Registrar ID < Registrar Name > (IANA assigned identifier)

Registrar Name

Registrar Status

Registrar Address, City, State/Province, Country

Registrar Postal Code

Registrar Phone, Fax, E-mail

Registrar Administrative Contacts

Registrar Technical Contacts

Registrar Billing Contacts

5. Objects Contained in Full and Incremental Data Sets. Full data sets include one domain object for each Registered Name within the Sponsored TLD; and nameserver, contact, and registrar objects for each nameserver, contact, and registrar referred to in any domain object. Incremental data sets consist of (a) those of the objects constituting a full data set that have been added or updated since the last incremental data set and (b) notations of deletion of any objects since the last incremental data set.

C. Format

Full and incremental data sets will be XML version 1.0, UTF-8 encoded documents conforming to the following document type definition:

<!DOCTYPE whois data [

<!ELEMENT whois data (domain*, del domain*, nameserver*, del nameserver*, contact*, del contact*, registrar*, del registrar*) >

```
the attribute type- "Incremental" ->
<!ATTLIST whois data
tld NMTOKEN #FIXED "aero"
date CDATA #REOUIRED
type (Full | Incremental)
version CDATA #FIXED "1.0">
<!ELEMENT domain (name, url)>
<!ATTLIST domain
dom-id-ID #REQUIRED
registrar-id IDREF #REOUIRED
registrant-id IDREF #REQUIRED
ENS AuthId IDREF #REQUIRED
admin-id IDREF #REQUIRED
tech-id IDREF #REOUIRED
billing id IDREF #REQUIRED
nameserver-id IDREFS #IMPLIED
-status (NEW | ACTIVE | INACTIVE | HOLD | LOCK | CLIENT-HOLD | CLIENT-LOCK | PENDING-
TRANSFER | PENDING-DELETE)
created by IDREF #REOUIRED
updated-by IDREF #REQUIRED
-cre-date CDATA #REQUIRED
exp-date CDATA #REQUIRED
upd-date CDATA #REQUIRED
xfer-date CDATA #REOUIRED>
<!ELEMENT del-domain EMPTY >
-<! the presence of this element in an incremental data set indicates that the domain has been deleted since</p>
the last incremental data set ->
<!ATTLIST del-domain
-dom-id ID #REQUIRED >
<!ELEMENT nameserver (name, ip, ip+) >
<!ATTLIST nameserver
nameserver-id ID #REQUIRED
registrar-id IDREF #REQUIRED
-created-by IDREF #REOUIRED
updated by IDREF #REQUIRED
cre-date CDATA #REQUIRED
upd-date CDATA #REQUIRED
xfer-date CDATA #REQUIRED >
<!ELEMENT del-nameserver EMPTY >
-<!- the presence of this element in an incremental data set indicates that the nameserver has been deleted</p>
since the last incremental data set ->
<!ATTLIST del-nameserver
nameserver-id ID #REOUIRED >
<!ELEMENT contact (name, org, address, post-code, country, phone, fax-, e-mail) >
<!ATTLIST contact
-contact-id ID #REQUIRED
registrar-id IDREF #REQUIRED
created-by IDREF #REQUIRED
updated by IDREF #REQUIRED
cre-date CDATA #REQUIRED
```

```
upd-date CDATA #REOUIRED
xfer-date CDATA #REOUIRED >
<!ELEMENT del-contact EMPTY >
-<!- the presence of this element in an incremental data set indicates that the contact has been deleted since</p>
the last incremental data set -->
<!ATTLIST del-contact
contact-id ID #REQUIRED >
<!ELEMENT registrar (reg-status, url) >
<!ATTLIST registrar
registrar-id ID #REQUIRED
contact-id IDREF #REQUIRED
admin-id IDREFS #REQUIRED
tech-id IDREFS #REQUIRED
billing-id-IDREFS #REQUIRED
cre-date CDATA #REQUIRED
upd-date CDATA #REQUIRED>
<!ELEMENT del-registrar EMPTY >
-! the presence of this element in an incremental data set indicates that the registrar has been deleted
since the last incremental data set ->
<!ATTLIST del-registrar
registrar-id ID #REQUIRED >
<!ELEMENT name (#PCDATA)>
<!ELEMENT ip (#PCDATA) >
<!ELEMENT org (#PCDATA) >
<!ELEMENT address (#PCDATA) >
<!ELEMENT post-code (#PCDATA) >
<!ELEMENT country EMPTY >
-!ATTLIST country cc (AF | AL | DZ | AS | AD | AO | AI | AQ | AG | AR | AM | AW | AU | AT | AZ |
BS | BH | BD | BB | BY | BE | BZ | BJ | BM | BT | BO | BA | BW | BV | BR | IO | BN | BG | BF | BI | KH |
CM | CA | CV | KY | CF | TD | CL | CN | CX | CC | CO | KM | CG | CD | CK | CR | CI | HR | CU | CY |
CZ | DK | DJ | DM | DO | TP | EC | EG | SV | GO | ER | EE | ET | FK | FO | FJ | FI | FR | GF | PF | TF | GA
<del>| GM | GE | DE | GH | GI | GR | GL | GD | GP | GU | GT | GN | GW | GY | HT | HM | VA | HN | HK | HU |</del>
IS IN ID IR IQ IE IL IT JM JP JO KZ KE KI KP KR KW KG LA LV LB LS LR
| LY | LI | LT | LU | MO | MK | MG | MW | MY | MV | ML | MT | MH | MQ | MR | MU | YT | MX | FM |
MD | MC | MN | MS | MA | MZ | MM | NA | NR | NP | NL | AN | NC | NZ | NI | NE | NG | NU | NF | MP |
NO | OM | PK | PW | PS | PA | PG | PY | PE | PH | PN | PL | PT | PR | QA | RE | RO | RU | RW | SH | KN |
LC | PM | VC | WS | SM | ST | SA | SN | SC | SL | SG | SK | SI | SB | SO | ZA | GS | ES | LK | SD | SR | SJ
<u>| SZ | SE | CH | SY | TW | TJ | TZ | TH | TG | TK | TO | TT | TN | TR | TM | TC | TV | UG | UA | AE | GB | </u>
US | UM | UY | UZ | VU | VE | VN | VG | VI | WF | EH | YE | YU | ZM | ZW | AC | GG | IM | JE | UK )>
<!ELEMENT phone (#PCDATA) >
<!ELEMENT fax (#PCDATA)>
<!ELEMENT e-mail (#PCDATA) >
<!ELEMENT reg-status (#PCDATA) >
<!ELEMENT url (#PCDATA) >
₽
```

Whois Data Specification - ICANN

Sponsor shall ensure Registry Operator provides bulk access by ICANN to up to date data concerning domain name and nameserver registrations maintained by Registry Operator in connection with the Sponsored TLD on a daily schedule, only for purposes of verifying and ensuring the operational stability of Registry Services, the DNS, and the Internet.

The procedures for providing access, and the specification of the content and format of this data, will be as stated below, until changed according to the Sponsorship Agreement. This Appendix is subject to change by agreement of Sponsor and ICANN during the design process as well as during the IETF standards process. In addition, Sponsor agrees to require Registry Operator to implement changes to this Appendix specified by ICANN to conform to the IETF provreg working group's protocol specification no later than 135 days after the IETF specification is adopted as a Proposed Standard [RFC 2026, section 4.1.1]. Accordingly, the following represents the target architecture and initial functionality.

A. Procedures for Providing Access

Sponsor shall ensure Registry Operator prepares a full data set for one day of each week (the day to be designated by ICANN). Full data sets shall be up to date and coherent as of 1200 UTC on the day to which they relate. Until a different day is designated by ICANN, the full data sets will be prepared for Sundays.

1. Preparation of Files Containing Data Sets. Each full data set consists of an XML document meeting the content and format requirements of Parts B and C of this document. Once the XML document is generated, the following preparation steps will be performed:

a. The XML document will be placed in a file named according to the following convention:

"wfYYMMDD" where "YYMMDD" is replaced with the date (YY=last two digits of year; MM=number of month; DD=day; in all cases a single-digit number should be left-padded with a zero).

b. The Registry Operator may optionally split the document using the Unix SPLIT command (or equivalent) to produce files no less than 1GB each (except the final file). If files are split, an .MD5 file (produced with MD5SUM or equivalent) must be included with the resulting files to isolate errors. The Registry Operator may optionally compress the document using the Unix GZIP command (or equivalent) to reduce the filesize.

c. The file(s) will then be encrypted and signed using PGP, version 6.5.1 or above, with a key of DH/DSS type and 2048/1024-byte length. (Note that PGP compresses the escrow file in addition to encrypting it.) An ICANN public key will be used for the encryption and the Registry Operator's private key will be used for the signature. Public keys will be exchanged between the Registry Operator and ICANN by email, physical delivery of floppy diskettes or other agreed means.

2. Transmission of Full Data Sets. Once prepared, full data sets will be provided according to paragraph a below or, at Sponsor and Registry Operator's option, according to paragraph b below:

a. Sponsor shall ensure Registry Operator makes full data sets available for download by ICANN by Internet File Transfer Protocol (FTP) (FTP access will be password protected and limited to prespecified IP ranges). The data sets will be made available for download beginning no later than 2000 UTC on the day to which they relate and until the next full data set becomes available for download.

b. Sponsor shall ensure Registry Operator writes the full data set to DAT (DDS-4) tape (or other media specified by ICANN) and sends it to ICANN by expedited delivery service (such as FedEx or DHL). The full data set will be scheduled for arrival at ICANN no later than the second calendar day following the day to which the data set relates.

B. Content

The full data sets will consist of four types of the objects and contents described for full data sets in Appendix 5.

C. Format

Full data sets will be XML version 1.0, UTF-8 encoded documents conforming to the schema/document type declaration set forth in Appendix 5.

Appendix SPECIFICATION 5

SCHEDULE OF RESERVED NAMES

Except to the extent that ICANN otherwise expressly authorizes in writing, the and subject to the terms and conditions of this Specification, Registry Operator shall reserve names formed with the following labels from initial (i.e., other than renewal) registration within the TLD: If using self-allocation, the Registry Operator must show the registration in the RDDS. In the case of IDN names (as indicated below), IDN variants will be identified according to the registry operator IDN registration policy, where applicable.

- 1. Example. The ASCII label "EXAMPLE" shall be withheld from registration or allocated to Registry Operator at the second level and at all other levels within the TLD at which Registry Operator offers registrations (such second level and all other levels are collectively referred to herein as, "All Levels"). Such label 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, such withheld or allocated label shall be transferred as specified by ICANN. Registry Operator may self-allocate and renew such name without use of an ICANN accredited registrar, which will not be considered Transactions for purposes of Section 7.2(c) of the Agreement.
- 2. Two Character Labels. All two character labels that were previously reserved by Registry Operator pursuant to prior registry agreements between Registry Operator and ICANN may be allocated through ICANN-accredited registrars, subject to the following:
 - 2.1. Registration Policy: For all new registrations after the Effective Date,
 Registry Operator must include a provision in its publicly available
 registration policy requiring a representation that the registrant of a
 letter/letter two-character ASCII label will take steps to ensure against
 misrepresenting or falsely implying that the registrant or its business is
 affiliated with a government or country-code manager if such affiliation,
 sponsorship or endorsement does not exist.
 - 2.2. Post-Registration Complaint Investigation. Registry Operator shall take reasonable steps to investigate and respond to any reports from governmental agencies and ccTLD operators of conduct that causes confusion with the corresponding country code in connection with the use of a letter/letter two-character ACSCII domain. In responding to such reports, Registry Operator will not be required to take any action in contravention of applicable law.

A. Labels Reserved at All Levels. The following names shall be reserved at the second level and at all other levels within the TLD at which Registry Operator makes registrations:

ICANN-related names:

aso

	gnso
1	icann
1	internic
1	censo
	IANA-related names:
1	afrinic afrinic
1	apnic
1	arin
1	example
1	gtld-servers
1	iab
1	iana
1	iana-servers
1	iesg
1	ietf
1	irtf
1	istf
l	lacnie
1	latnic
1	rfc editor
1	ripe
1	root servers
	B. Additional Second-Level Reservations. In addition, the following names shall be reserved at the second level:
1	All single-character labels.
	All two character labels shall be initially reserved. The reservation of a two character label string shall be released to the extent that the Registry Operator reaches agreement with the government and

country-code manager, or the ISO 3166 maintenance agency, whichever appropriate. The Registry Operator may also propose release of these reservations based on its implementation of measures to avoid confusion with the corresponding country codes.

C. Two Letter Airline Designator Codes. As of the Effective Date of this contract, Sponsor allows airlines and other aviation community members to register their specific industry standard two-character airline designator codes currently managed by IATA (International Air Transport Association) as second-level domain identifiers in the Sponsored TLD. Sponsor clearly and publicly states that the industry standard two-character airline designator codes have nothing to do with the ISO 3166-1 two-letter codes relating to the names of countries and distinct economies ("ccTLDs"). [NOTE: this text was incorporated and adapted from Appendix 23, Part 6 of the existing agreement].

D. Tagged Domain Names. All labels with hyphens in the third and fourth character positions (e.g., "bq-1k2n4h4b" or "xn-ndk061n")

E. Second Level Reservations for Registry Operations. The following names are reserved for use in connection with the operation of the registry for the Registry TLD. Registry Operator may use them, but upon conclusion of Sponsor's designation as Sponsor of the registry for the Registry TLD they shall be transferred as specified by ICANN:

nie

whois

www

F. Names Registered to Sponsor. Sponsor may register up to 1000 domain names directly with the Registry Operator and keep these names under direct management in accordance with the .aero Domain Management Policy until the conclusion of its designation by ICANN as the sponsor for the Sponsored TLD. At that time, all such names that are registered to the Sponsor (but not including those in Part B below) will be transferred at the conclusion of status of sponsor of the registry.

Note: for clarity reasons, all the names listed hereafter are written without the ".aero" suffix.

Part A: Names to Be Transferred at Conclusion of Sponsor Status:

Within 90 days of it being determined that Sponsor will conclude its designation by ICANN as the Sponsor for the Sponsored TLD, Sponsor will submit a list of all names that it has under direct management as described above.

Part B: Names Retained by SITA at Conclusion of its Status as Sponsor:

1. aircom

2. airlineinabox

- 3. airportinabox Reservations for Registry Operations.
 - 3.1. The following ASCII labels must be withheld from registration or allocated to Registry Operator at All Levels for use in connection with the operation of the registry for the TLD: WWW, RDDS and WHOIS. The following ASCII label

must be allocated to Registry Operator upon delegation into the root zone at All Levels for use in connection with the operation of the registry for the TLD: NIC. Registry Operator may activate WWW, RDDS and WHOIS in the DNS, but must activate NIC in the DNS, as necessary for the operation of the TLD (in accordance with the provisions of Exhibit A, the ASCII label NIC must be provisioned in the DNS as a zone cut using NS resource records). None of WWW, RDDS, WHOIS or NIC may be released or registered to any person (other than Registry Operator) or third party. Upon conclusion of Registry Operator's designation as operator of the registry for the TLD all such withheld or allocated names 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 7.2(c) of the Agreement. Such domains shall be identified by Registrar ID 9999.

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.

43.2. airportvision [RESERVED]

- 3.3. Registry Operator may withhold from registration or allocate to Registry Operator names (including their IDN variants, where applicable) at All Levels in accordance with Section 3.1(c)(i)(B) of the Agreement. Such names may not be activated in the DNS, but may be released for registration to Registry Operator or another person or entity at Registry Operator's discretion, subject to compliance with all the terms of this Agreement, including applicable RPMs set forth in Specification 7. Upon conclusion of Registry Operator's designation as operator of the registry for the TLD, all such names that remain withheld from registration or allocated to Registry Operator shall be transferred as specified by ICANN. Upon ICANN's request, Registry Operator shall provide a listing of all names withheld or allocated to Registry Operator pursuant to Section 3.1(c)(i)(B) of the Agreement. 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 7.2(a) of the Agreement.
- 3.4. Registry Operator shall allocate the domain name "icann-sla-monitoring.<tld>" to the ICANN testing registrar (as such registrar is described in Section 8.2 of Specification 10). If such domain name is not

available for registration in the TLD or is otherwise inconsistent with the registration policies of the TLD, Registry Operator may allocate a different domain name to the ICANN testing registrar in consultation with ICANN. The allocation of any such alternative domain name will be communicated to ICANN following such consultation. The allocation of the domain name "icann-sla-monitoring.<tld>" to the ICANN testing registrar will not be considered a Transaction for purposes of Section 7.2(c) of the Agreement.

- 4. Country and Territory Names. The country and territory names (including their IDN variants, where applicable) contained in the following internationally recognized lists shall be withheld from registration or allocated to Registry Operator at All Levels:
 - 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

 Linion
 http://www.iso.org/iso/support/country codes/iso 3166 code lists/iso-3166-1 decoding table.htm>;
 - 4.2. the United Nations Group of Experts on Geographical Names, Technical Reference Manual for the Standardization of Geographical Names, Part III Names of Countries of the World; and
 - 4.3. the list of United Nations member states in 6 official United Nations languages prepared by the Working Group on Country Names of the United Nations Conference on the Standardization of Geographical Names;

5. airtaritt
6. axcess
7. cute
8. cute2
9. cuteos
10. edifast
11. effs
12. e-file
13. fanfare
14. fleetwatch

15. freightnet
16. graflite
17. intermail400
18. loadstar
19. netdraw
20. pepartner
21. profile
22. sahara
23. satellite-aircom
24. sita
25. sitacars
26. sitacuteos
27. sitadial
28. sitafax
29. sitaine
30. sita-inc
31. sitalink
32. sitamail
33. sitaplus
34. sitase
35. sita-se
36. sitatex
37. sitatours
38. sitaview

39. sitavision

	40. skycom
1	41. skyform
	42. skyway
	43. strategy
	44. typea
	45. typeb
	46. vipnetwork
1	47. winfare
1	48. worldtracer

1	Appendix 6 — Schedule of Reserved Names
	Except to the extent that ICANN otherwise expressly authorizes in writing, the Registry Operator shall reserve names formed with the following labels from initial (i.e. other than renewal) registration within the TLD:
	A. Labels Reserved at All Levels. The following names shall be reserved at the second level and at all other levels within the TLD at which Registry Operator makes registrations:
1	ICANN-related names:
1	aso
1	gnso
1	icann
1	internic
1	censo
1	IANA-related names:
1	afrinic
1	apnic
1	arin
1	example
1	gtld-servers
1	iab
1	iana
1	iana-servers
1	iesg
1	ietf
	irtf
1	istf

lacnic

latnic

rfc-editor

ripe

root-servers

B. Additional Second-Level Reservations. In addition, the following names shall be reserved at the second level:

All single-character labels.

All two-character labels shall be initially reserved. The reservation of a two-character label string shall provided, that the reservation of specific country and territory names (including their IDN variants according to the registry operator IDN registration policy, where applicable) may be released to the extent that the Registry Operator reaches agreement with the government and country-code manager, or the ISO 3166 maintenance agency, whichever appropriate. The applicable government(s). Registry Operator must not activate such names in the DNS; provided, that Registry Operator may also propose the release of these reservations based on its implementation of measures to avoid confusion with the corresponding country codes., subject to review by ICANN's Governmental Advisory Committee and approval by ICANN. Upon conclusion of Registry Operator's designation as operator of the registry for the TLD, all such names that remain 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 7.2(c) of the Agreement.

C. Two Letter Airline Designator Codes. As of the Effective Date of this contract, Sponsor allows airlines and other aviation community members to register their specific industry standard two-character airline designator codes currently managed by IATA (International Air Transport Association) as second level domain identifiers in the Sponsored TLD. Sponsor clearly and publicly states that the industry standard two-character airline designator codes have nothing to do with the ISO 3166-1 two-letter codes relating to the names of countries and distinct economies ("ccTLDs"). [NOTE: this text was incorporated and adapted from Appendix 23, Part 6 of the existing agreement].

- 5. [RESERVED]
- <u>6.</u> [RESERVED]

REGISTRY INTEROPERABILITY AND CONTINUITY SPECIFICATIONS

1. **Standards Compliance**

D. Tagged Domain Names. All labels with 1.1. DNS. Registry Operator shall comply with relevant existing RFCs and those published in the future by the Internet Engineering Task Force (IETF), including all successor standards, modifications or additions thereto relating to the DNS and name server operations including without limitation RFCs 1034, 1035, 1123, 1982, 2181, 2182, 3226, 3596, 3597, 4343, 5966 and 6891. DNS labels may only include hyphens in the third and fourth character positions (e.g., "bq-1k2n4h4b" or "position if they represent valid IDNs (as specified above) in their ASCII encoding (e.g., "xn--ndk061n").

n, but l-be

E. Second-Level Reservations for	Registry Operations. The following names are reserved for use in
connection with the operation of t	he registry for the Registry TLD. Registry Operator may use them, by
	ignation as Sponsor of the registry for the Registry TLD they shall be
transferred as specified by ICANN	V:
nic	
whois	
www	
F. Names Registered to Sponsor.	Sponsor may register up to 1000 domain names directly with the
Registry Operator and keep these	names under direct management in accordance with the .aero Domain
Management Policy until the conc	elusion of its designation by ICANN as the sponsor for the Sponsored
TLD. At that time, all such names	that are registered to the Sponsor (but not including those in Part B
below) will be transferred at the co	onclusion of status of sponsor of the registry.
Note: for clarity reasons, all the no	ames listed hereafter are written without the ".aero" suffix.
Part A: Names to Be Transferred	at Conclusion of Sponsor Status:
Within 90 days of it being determ	ined that Sponsor will conclude its designation by ICANN as the
Sponsor for the Sponsored TLD.	Sponsor will submit a list of all names that it has under direct
management as described above.	
Part B: Names Retained by SITA	at Conclusion of its Status as Sponsor:
1. aircom	
2. airlineinabox	
3. airportinabox	

4. airportvision
5. airtariff
6. axcess
7. cute
8. cute2
9. cuteos
10. edifast
11. effs
12. e-file
13. fanfare
14. fleetwatch
15. freightnet
16. graflite
17. intermail400
18. loadstar
19. netdraw
20. pcpartner
21. profile
22. sahara
23. satellite-aircom
24. sita
25. sitacars
26. sitacuteos
27. sitadial

28. sitafax 29. sitaine 30. sita-ine 31. sitalink 32. sitamail 33. sitaplus 34. sitase 35. sita-se 36. sitatex 37. sitatours 38. sitaview 39. sitavision 40. skycom 41. sky form42. skyway 43. strategy 44. typea 45. typeb 46. vipnetwork 47. winfare 48. worldtracer

Part A - Minimum ICANN-Required Functional Specifications for Registry Services

Pursuant to the responsibility delegated to it in Appendix S, Part 2, Sponsor will prescribe functional requirements for Registry Services provided by the Registry Operator for the Sponsored TLD. Those functional requirements shall ensure that at least the following minimum functional capabilities are provided.

1. Conventions

The key words "MUST", "MUST NOT", "REQUIRED", "SHALL", "SHALL NOT", "SHOULD", "SHOULD NOT", "RECOMMENDED", "MAY", and "OPTIONAL" in this document are to be interpreted as described in IETF RFC 2119.

2. Nameserver Requirements

The nameservers for the Sponsored TLD MUST be operated in compliance with the following Requests for Comments (RFCs): 1034, 1035, 1101, 2181, 2182. In clarification of the statement of host name rules in these RFCs, all Registered Names SHALL comply with the following syntax in augmented Backus-Naur Form (BNF) as described in RFC 2234:

```
dot = %x2E;"."
dash = %x2D; "."
alpha = %x41-5A / %x61-7A; A-Z / a-z
digit = %x30-39; 0-9
ldh = alpha / digit / dash
id-prefix = alpha / digit
label = id-prefix [*61ldh id-prefix]
sldn = label dot label; not to exceed 254 characters
hostname = *(label dot) sldn; not to exceed 254 characters
```

There MUST be nameservers for the Sponsored TLD on at least five different network segments. So that the IANA has zone-file access, zone-file transfers MUST be enabled at all nameservers for transfers to at least 208.77.188/22 and 192.0.32.0/20.

3. Registry System Requirements

The registry system MUST enforce the name reservations set forth in Appendix 6 and the Charter requirements set forth in Appendix S, Part 1.

4. Whois Service Requirements

Whois service MUST meet at least the functional specifications set forth in Appendix 5 and Appendix S, Part 5.

5. Data Escrow Requirements

Data escrow MUST meet at least the functional specifications set forth in Appendices 1 and 2. The registry shall be capable of storing the data to be escrowed. **6. Reporting Requirements** The registry system MUST provide data sufficient to meet the reporting requirements set forth in Appendix 4. Part B - Minimum ICANN-Required Performance Specifications for Registry Services Pursuant to the responsibility delegated to it in Appendix S, Part 2, Sponsor will prescribe performance requirements for Registry Services provided by the Registry Operator for the Sponsored TLD. Those performance requirements shall ensure that at least the following minimum performance levels are provided. 1. Conventions The key words "MUST", "MUST NOT", "REQUIRED", "SHALL", "SHALL NOT", "SHOULD", "SHOULD NOT", "RECOMMENDED", "MAY", and "OPTIONAL" in this document are to be interpreted as described in IETF RFC 2119. 2. Definitions Capitalized terms used in this Appendix and not otherwise defined shall have the meaning ascribed to them in the Sponsorship Agreement. 2.1. "Core Internet Service Failure" refers to an extraordinary and identifiable event beyond the control of Registry Operator affecting the Internet services to be measured pursuant to item 3.1.3 of this Appendix. Such events include but are not limited to congestion collapse, partitioning, power grid failures, and routing failures. 2.2. "DNS Service" shall mean the service complying with RFC 1034 made available on TCP/UDP port 53 on the Nameservers. 2.3. "Monthly Timeframe" shall mean each single calendar month beginning and ending at 0000 Coordinated Universal Time (UTC). 2.4. "Nameservers" refers to the nameservers to which the Sponsored TLD is delegated in the Authoritative Root-Server System.

2.5. "Performance Specification" refers to a description of the performance attributes of a particular system or service.

2.6. "Round-trip" shall mean the amount of measured time that it takes for a reference query to make a complete trip from the sampling agent, to the service being tested and back again. Usually measured in milliseconds.

2.7. "Whois Service" shall mean the information service made available on TCP port 43 on selected servers and described more fully in Appendix 5.

3. Service Levels (Availability and Performance)

3.1. DNS Service

- **3.1.1. DNS Service Availability.** Service availability as it applies to the DNS Service refers to the ability of the Nameservers, as a group, to resolve a DNS query from an Internet user. The committed Performance Specification is 99.999% measured in Monthly Timeframes.
- **3.1.2. Performance Level.** At any time at which it is available, each Nameserver (including a cluster of Nameservers addressed at a shared IP address) MUST be able to handle a load of queries for DNS data that is three times the measured daily peak (averaged over the Monthly Timeframe) of such requests on the most loaded Nameserver. [NOTE: This requirement is based on **RFC 2870**, Section 2.3.]
- 3.1.3. Cross Network Nameserver Performance Requirements. The committed Performance Specification for cross network Nameserver performance is a measured Round-trip time of under 300 ms and measured packet loss of under 10%. Cross network Nameserver performance measurements will be conducted by ICANN at times of its choosing, in the following manner:
- 3.1.3.1. The measurements will be conducted by sending strings of DNS request packets from each of four measuring locations to each of the Nameservers and observing the responses from the Nameservers. (These strings of requests and responses are referred to as a "CNNP Test".) The measuring locations will be four root nameserver locations (on the US East Coast, US West Coast, Asia, and Europe).
- 3.1.3.2. Each string of request packets will consist of 100 UDP packets at 10 second intervals requesting ns records for arbitrarily selected second level domains in the Sponsored TLD, preselected to ensure that the names exist in the Sponsored TLD and are resolvable. The packet loss (i.e. the percentage of response packets not received) and the average Round trip time for response packets received will be noted.
- 3.1.3.3. To meet the packet loss and Round-trip-time requirements for a particular CNNP Test, all three of the following must be true:
- 3.1.3.3.1. The Round-trip time and packet loss from each measurement location to at least one Nameserver must not exceed the required values.
- 3.1.3.3.2. The Round-trip time to each of 75% of the Nameservers from at least one of the measurement locations must not exceed the required value.
- 3.1.3.3. The packet loss to each of the Nameservers from at least one of the measurement locations must not exceed the required value.
- 3.1.3.4. Any failing CNNP Test result obtained during an identified Core Internet Service Failure shall not be considered.
- 3.1.3.5. To ensure a properly diverse testing sample, ICANN will conduct the CNNP Tests at varying times (i.e. at different times of day, as well as on different days of the week). The cross network Nameserver performance requirement will be deemed to have not been met only if the Nameservers persistently fail (see item 3.1.3.3 above) the CNNP Tests with no less than three consecutive failed CNNP Tests to be considered to have persistently failed.

- 3.1.3.6. In the event of persistent failure of the CNNP Tests, ICANN will give Sponsor written notice of the failures (with backup data) and Sponsor will have sixty days to cure the failure.
- 3.1.3.7. If, following Sponsor's opportunity to cure in **item 3.1.3.6** above, the Nameservers continue to persistently fail CNNP Tests and Sponsor fails to resolve the problem within thirty days after written notice of the continuing failures, Sponsor will be in breach of its obligations under the TLD Sponsorship Agreement.
- 3.1.3.8. Sixty days before the commencement of testing under this provision, ICANN will provide Sponsor with the opportunity to evaluate the testing tools and procedures to be used by ICANN. In the event that Sponsor does not approve of such tools and procedures, ICANN will work directly with Sponsor to make necessary modifications.

3.2. Whois Service

- **3.2.1.** Whois Service Availability. The committed Performance Specification for Whois Service is 99.4% measured in Monthly Timeframes.
- 3.2.2. Performance Level. The Whois Service will, on average, be able to handle 50 queries per second.
- 3.2.3. Response Times. The Whois Service will have a worst case response time of 1.5 seconds, not including network delays, before it will be considered unavailable.
- 3.2.4. Updates. The data provided by the Whois Service will be updated on at least a daily basis.

4. Measurement

- 4.1. Except in the case of Cross Network Nameserver Performance Requirements (item 3.1.3 above), Registry Operator will perform continuous monitoring from internally located systems as a means to verify that the availability and performance measurements in this Appendix are being met.
- 4.2. Sponsor will report the results of monitoring under **item 4.1** above in its monthly reports described in Appendix 4.
 - 1.2. EPP. Registry Operator shall comply with relevant existing RFCs and those published in the future by the Internet Engineering Task Force (IETF) including all successor standards, modifications or additions thereto relating to the provisioning and management of domain names using the Extensible Provisioning Protocol (EPP) in conformance with RFCs 5910, 5730, 5731, 5732 (if using host objects), 5733 and 5734. If Registry Operator implements Registry Grace Period (RGP), it will comply with RFC 3915 and its successors. If Registry Operator requires the use of functionality outside the base EPP RFCs, Registry Operator must document EPP extensions in Internet-Draft format following the guidelines described in RFC 3735. Registry Operator will provide and update the relevant documentation of all the EPP Objects and Extensions supported to ICANN prior to deployment.
 - 1.3. DNSSEC. Registry Operator shall sign its TLD zone files implementing Domain Name System Security Extensions ("DNSSEC"). For the absence of doubt,

Registry Operator shall sign the zone file of <TLD> and zone files used for inbailiwick glue for the TLD's DNS servers. During the Term, Registry Operator shall comply with RFCs 4033, 4034, 4035, 4509 and their successors, and follow the best practices described in RFC 6781 and its successors. If Registry Operator implements Hashed Authenticated Denial of Existence for DNS Security Extensions, it shall comply with RFC 5155 and its successors. Registry Operator shall accept public-key material from child domain names in a secure manner according to industry best practices. Registry shall also publish in its website the DNSSEC Practice Statements (DPS) describing critical security controls and procedures for key material storage, access and usage for its own keys and secure acceptance of registrants' public-key material. Registry Operator shall publish its DPS following the format described in RFC 6841. DNSSEC validation must be active and use the IANA DNS Root Key Signing Key set (available at https://www.iana.org/dnssec/files) as a trust anchor for Registry Operator's Registry Services making use of data obtained via DNS responses.

- 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 http://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.
- 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 public IPv6 transport for its Registration Data Publication Services as defined in Specification 4 of this Agreement; e.g., Whois (RFC 3912), Web based Whois. 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.
- 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 or WHOIS 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 or WHOIS records becomes outdated or inaccurate. Registry Operator must submit all change requests in accordance with the procedures set forth at http://www.iana.org/domains/root.

1.7. Network Ingress Filtering. Registry Operator shall implement network ingress filtering checks for its Registry Services as described in BCP 38 and BCP 84, which ICANN will also implement.

2. Registry Services

- 2.1. Registry Services. "Registry Services" are, for purposes of the Agreement, defined as the following: (a) those services that are operations of the registry critical to the following tasks: the receipt of data from registrars concerning registrations of domain names and name servers; provision to registrars of status information relating to the zone servers for the TLD; dissemination of TLD zone files; operation of the registry DNS servers; and dissemination of contact and other information concerning domain name server registrations in the TLD as required by this Agreement; (b) other products or services that the Registry Operator is required to provide because of the establishment of a Consensus Policy as defined in Specification 1; (c) any other products or services that only a registry operator is capable of providing, by reason of its designation as the registry operator; and (d) material changes to any Registry Service within the scope of (a), (b) or (c) above.
- 2.2. Wildcard Prohibition. For domain names which are either not registered, or the registrant has not supplied valid records such as NS records for listing in the DNS zone file, or their status does not allow them to be published in the DNS, the use of DNS wildcard Resource Records as described in RFCs 1034 and 4592 or any other method or technology for synthesizing DNS Resources Records or using redirection within the DNS by the Registry is prohibited. When queried for such domain names the authoritative name servers must return a "Name Error" response (also known as NXDOMAIN), RCODE 3 as described in RFC 1035 and related RFCs. This provision applies for all DNS zone files at all levels in the DNS tree for which the Registry Operator (or an affiliate engaged in providing Registration Services) maintains data, arranges for such maintenance, or derives revenue from such maintenance.

3. **Registry Continuity**

- 3.1. High Availability. Registry Operator will conduct its operations using network and geographically diverse, redundant servers (including network-level redundancy, end-node level redundancy and the implementation of a load balancing scheme where applicable) to ensure continued operation in the case of technical failure (widespread or local), or an extraordinary occurrence or circumstance beyond the control of the Registry Operator. Registry Operator's emergency operations department shall be available at all times to respond to extraordinary occurrences.
- 3.2. Extraordinary Event. Registry Operator will use commercially reasonable efforts to restore the critical functions of the registry within twenty-four (24) hours after the termination of an extraordinary event beyond the control of the

Registry Operator and restore full system functionality within a maximum of forty-eight (48) hours following such event, depending on the type of critical function involved. Outages due to such an event will not be considered a lack of service availability.

3.3. Business Continuity. Registry Operator shall maintain a business continuity plan, which will provide for the maintenance of Registry Services in the event of an extraordinary event beyond the control of the Registry Operator or business failure of Registry Operator, and may include the designation of a Registry Services continuity provider. If such plan includes the designation of a Registry Services continuity provider, Registry Operator shall provide the name and contact information for such Registry Services continuity provider to ICANN. In the case of an extraordinary event beyond the control of the Registry Operator where the Registry Operator cannot be contacted, Registry Operator consents that ICANN may contact the designated Registry Services continuity provider, if one exists. Registry Operator shall conduct Registry Services Continuity testing at least once per year.

4. **Abuse Mitigation**

- 4.1. Abuse Contact. Registry Operator shall provide to ICANN and publish on its website its accurate contact details including a valid email and mailing address as well as a primary contact for handling inquiries related to malicious conduct in the TLD, and will provide ICANN with prompt notice of any changes to such contact details.
- 4.2. Malicious Use of Orphan Glue Records. Registry Operator shall take action to remove orphan glue records (as defined at http://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.

5. Supported Initial and Renewal Registration Periods

- 5.1. <u>Initial Registration Periods</u>. Initial registrations of registered names may be made in the registry in one (1) year increments for up to a maximum of ten (10) years. For the avoidance of doubt, initial registrations of registered names may not exceed ten (10) years.
- 5.2. Renewal Periods. Renewal of registered names may be made in one (1) year increments for up to a maximum of ten (10) years. For the avoidance of doubt, renewal of registered names may not extend their registration period beyond ten (10) years from the time of the renewal.

[RESERVED]

MINIMUM REQUIREMENTS FOR RIGHTS PROTECTION MECHANISMS

- 1. Rights Protection Mechanisms. Registry Operator may develop and implement rights protection mechanisms ("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.
- 2. **Dispute Resolution Mechanisms**. Registry Operator will comply with the following dispute resolution mechanisms as they may be revised from time to time:
 - a. the Trademark Post-Delegation Dispute Resolution Procedure (PDDRP) and the Registration Restriction Dispute Resolution Procedure (RRDRP) adopted by ICANN (posted at http://www.icann.org/en/resources/registries/pddrp and http://www.icann.org/en/resources/registries/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 6.1(c) of the Agreement) following a determination by any PDDRP panel or RRDRP and to be bound by any such determination; and
 - <u>b.</u> <u>the Uniform Rapid Suspension system ("URS") adopted by ICANN (posted at http://www.icann.org/en/resources/registries/urs), including the implementation of determinations issued by URS examiners.</u>

[INTENTIONALLY OMITTED]

REGISTRY OPERATOR CODE OF CONDUCT

- In connection with the operation of the registry for the TLD, Registry Operator will not, and will not allow any parent, subsidiary, Affiliate, subcontractor or other related entity, to the extent such party is engaged in the provision of Registry Services with respect to the TLD (each, a "Registry Related Party"), to:
 - a. directly or indirectly show any preference or provide any special consideration to any registrar with respect to operational access to registry systems and related registry services, unless comparable opportunities to qualify for such preferences or considerations are made available to all registrars on substantially similar terms and subject to substantially similar conditions;
 - <u>b.</u> register domain names in its own right, except for names registered through an ICANN accredited registrar; provided, however, that Registry Operator may reserve names from registration pursuant to Section 3.1(c)(i)(B) of the Agreement;
 - <u>c.</u> register names in the TLD or sub-domains of the TLD based upon proprietary access to information about searches or resolution requests by consumers for domain names not yet registered (commonly known as, "front-running"); or
 - d. allow any Affiliated registrar to disclose Personal Data about registrants to Registry
 Operator or any Registry Related Party, except as reasonably necessary for the
 management and operations of the TLD, unless all unrelated third parties (including
 other registry operators) are given equivalent access to such user data on substantially
 similar terms and subject to substantially similar conditions.
- 2. If Registry Operator or a Registry Related Party also operates as a provider of registrar or registrar-reseller services, Registry Operator will, or will cause such Registry Related Party to, ensure that such services are offered through a legal entity separate from Registry Operator, and maintain separate books of accounts with respect to its registrar or registrar-reseller operations.
- 3. If Registry Operator or a Registry Related Party also operates as a provider of registrar or registrar-reseller services, Registry Operator will conduct internal reviews at least once per calendar year to ensure compliance with this Code of Conduct. Within twenty (20) calendar days following the end of each calendar year, Registry Operator will provide the results of the internal review, along with a certification executed by an executive officer of Registry Operator certifying as to Registry Operator's compliance with this Code of Conduct, via email to an address to be provided by ICANN. (ICANN may specify in the future the form and contents of such reports or that the reports be delivered by other reasonable means.)

 Registry Operator agrees that ICANN may publicly post such results and certification.
- 4. Nothing set forth herein shall: (i) limit ICANN from conducting investigations of claims of Registry Operator's non-compliance with this Code of Conduct; or (ii) provide grounds for

- Registry Operator to refuse to cooperate with ICANN investigations of claims of Registry Operator's non-compliance with this Code of Conduct.
- 5. Nothing set forth herein shall limit the ability of Registry Operator or any Registry Related Party, to enter into arms-length transactions in the ordinary course of business with a registrar or reseller with respect to products and services unrelated in all respects to the TLD.
- 6. Registry Operator may request an exemption to this Code of Conduct, and such exemption may be granted by ICANN in ICANN's reasonable discretion, if Registry Operator demonstrates to ICANN's reasonable satisfaction that (i) all domain name registrations in the TLD are registered to, and maintained by, Registry Operator for the exclusive use of Registry Operator or its Affiliates, (ii) 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 (iii) application of this Code of Conduct to the TLD is not necessary to protect the public interest.

REGISTRY PERFORMANCE SPECIFICATIONS

1. **Definitions**

- 1.1. DNS. Refers to the Domain Name System as specified in RFCs 1034, 1035, and related RFCs.
- 1.2. DNSSEC proper resolution. There is a valid DNSSEC chain of trust from the root trust anchor to a particular domain name, e.g., a TLD, a domain name registered under a TLD, etc.
- 1.3. EPP. Refers to the Extensible Provisioning Protocol as specified in RFC 5730 and related RFCs.
- 1.4. IP address. Refers to IPv4 or IPv6 addresses without making any distinction between the two. When there is need to make a distinction, IPv4 or IPv6 is used.
- 1.5. Probes. Network hosts used to perform (DNS, EPP, etc.) tests (see below) that are located at various global locations.
- 1.6. RDDS. Registration Data Directory Services refers to the collective of WHOIS and Web-based WHOIS services as defined in Specification 4 of this Agreement.
- 1.7. RTT. Round-Trip Time or RTT refers to the time measured from the sending of the first bit of the first packet of the sequence of packets needed to make a request until the reception of the last bit of the last packet of the sequence needed to receive the response. If the client does not receive the whole sequence of packets needed to consider the response as received, the request will be considered unanswered.
- 1.8. Service Level Requirement is the level of service expected for a certain parameter being measured in a Service Level Agreement (SLA).

2. Service Level Agreement Matrix

	<u>Parameter</u>	SLR (monthly basis)
<u>DNS</u>	DNS service availability	0 min downtime = 100% availability
	DNS name server availability	$\leq 432 \text{ min of downtime } (\approx 99\%)$
	TCP DNS resolution RTT	≤ 1500 ms, for at least 95% of the queries
	UDP DNS resolution RTT	\leq 500 ms, for at least 95% of the queries
	DNS update time	≤ 60 min, for at least 95% of the probes
<u>RDDS</u>	RDDS availability	\leq 864 min of downtime (\approx 98%)
	RDDS query RTT	≤ 2000 ms, for at least 95% of the queries
	RDDS update time	\leq 60 min, for at least 95% of the probes

EPP	EPP service availability	$\leq 864 \text{ min of downtime } (\approx 98\%)$
	EPP session-command RTT	\leq 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	\leq 4000 ms, for at least 90% of the commands

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 SLA purposes.

3. **DNS**

- 3.1. DNS service availability. Refers to the ability of the group of listed-asauthoritative name servers of a particular domain name (e.g., a TLD), to answer
 DNS queries from DNS probes. For the service to be considered available at a
 particular moment, at least, two of the delegated name servers registered in the
 DNS must have successful results from "DNS tests" to each of their public-DNS
 registered "IP addresses" to which the name server resolves. If 51% or more of
 the DNS testing probes see the service as unavailable during a given time, the
 DNS service will be considered unavailable.
- 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 undefined/unanswered results from "DNS tests" to a name server "IP address" during a given time, the name server "IP address" will be considered unavailable.
- 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 undefined.
- 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 undefined.
- 3.5. DNS resolution RTT. Refers to either "UDP DNS resolution RTT" or "TCP DNS resolution RTT".
- 3.6. DNS update time. Refers to the time measured from the reception of an EPP confirmation to a transform command on a domain name, until the name servers

- of the parent domain name answer "DNS queries" with data consistent with the change made. This only applies for changes to DNS information.
- 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, undefined/unanswered.
- 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 undefined/unanswered, the tested IP will be considered unavailable from that probe until it is time to make a new test.
- 3.9. Collating the results from DNS probes. The minimum number of active testing probes to consider a measurement valid is 20 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.
- 3.10. Distribution of UDP and TCP queries. DNS probes will send UDP or TCP "DNS test" approximating the distribution of these queries.
- 3.11. Placement of DNS probes. Probes for measuring DNS parameters shall be placed as near as possible to the DNS resolvers on the networks with the most users across the different geographic regions; care shall be taken not to deploy probes behind high propagation-delay links, such as satellite links.

4. **RDDS**

- 4.1. RDDS availability. Refers to the ability of all the 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 RDDS testing probes see any of the RDDS services as unavailable during a given time, the RDDS will be considered unavailable.
- 4.2. 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 undefined.
- 4.3. 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 undefined.

- 4.4. RDDS query RTT. Refers to the collective of "WHOIS query RTT" and "Web-based- WHOIS query RTT".
- 4.5. 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 RDDS services reflect the changes made.
- 4.6. RDDS test. Means one query sent to a particular "IP address" of one of the servers of one of the 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 RDDS test are: a number in milliseconds corresponding to the RTT or undefined/unanswered.
- 4.7. Measuring RDDS parameters. Every 5 minutes, RDDS probes will select one IP address from all the public-DNS registered "IP addresses" of the servers for each RDDS service of the TLD being monitored and make an "RDDS test" to each one. If an "RDDS test" result is undefined/unanswered, the corresponding RDDS service will be considered as unavailable from that probe until it is time to make a new test.
- 4.8. Collating the results from 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.
- 4.9. Placement of RDDS probes. Probes for measuring RDDS parameters shall be placed inside the networks with the most users across the different geographic regions; care shall be taken not to deploy probes behind high propagation-delay links, such as satellite links.

<u>5.</u> <u>EPP</u>

5.1. EPP service availability. Refers to the ability of the TLD EPP servers as a group, to respond to commands from the Registry accredited Registrars, who already have credentials to the servers. The response shall include appropriate data from the Registry System. An EPP command with "EPP command RTT" 5 times higher than the corresponding SLR will be considered as unanswered. If 51% or more of the EPP testing probes see the EPP service as unavailable during a given time, the EPP service will be considered unavailable.

- 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 undefined.
- 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 undefined.
- 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 undefined.
- 5.5. EPP command RTT. Refers to "EPP session-command RTT", "EPP query-command RTT" or "EPP transform-command RTT".
- 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 undefined/unanswered.
- 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 undefined/unanswered, the EPP service will be considered as unavailable from that probe until it is time to make a new test.
- 5.8. Collating the results from EPP probes. The minimum number of active testing probes to consider a measurement valid is 5 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.
- 5.9. Placement of EPP probes. Probes for measuring EPP parameters shall be placed inside or close to Registrars points of access to the Internet across the different

geographic regions; care shall be taken not to deploy probes behind high propagation-delay links, such as satellite links.

6. Emergency Thresholds

The following matrix presents the emergency thresholds that, if reached by any of the services mentioned above for a TLD, would cause the emergency transition of the Registry for the TLD as specified in Section 3.1(c)(ix) of this Agreement.

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

7. Emergency Escalation

Escalation is strictly for purposes of notifying and investigating possible or potential issues in relation to monitored services. The initiation of any escalation and the subsequent cooperative investigations do not in themselves imply that a monitored service has failed its performance requirements.

Escalations shall be carried out between ICANN and Registry Operators, Registrars and Registry Operator, and Registrars and ICANN. Registry Operators and ICANN must provide said emergency operations departments. Current contacts must be maintained between ICANN and Registry Operators and published to Registrars, where relevant to their role in escalations, prior to any processing of an Emergency Escalation by all related parties, and kept current at all times.

7.1. Emergency Escalation initiated by ICANN

Upon reaching 10% of the Emergency thresholds as described in Section 6 of this Specification, ICANN's emergency operations will initiate an Emergency Escalation with the relevant Registry Operator. An Emergency Escalation consists of the following minimum elements: electronic (i.e., email or SMS) and/or voice contact notification to the Registry Operator's emergency operations department with detailed information concerning the issue being escalated, including evidence of monitoring failures, cooperative trouble-shooting of the monitoring failure between ICANN staff and the Registry Operator, and the commitment to begin the process of rectifying issues with either the monitoring service or the service being monitoring.

7.2. Emergency Escalation initiated by Registrars

Registry Operator will maintain an emergency operations department prepared to handle emergency requests from registrars. In the event that a registrar is unable to conduct EPP

transactions with the registry for the TLD because of a fault with the Registry Service and is unable to either contact (through ICANN mandated methods of communication) the Registry Operator, or the Registry Operator is unable or unwilling to address the fault, the registrar may initiate an emergency escalation to the emergency operations department of ICANN. ICANN then may initiate an emergency escalation with the Registry Operator as explained above.

7.3. Notifications of Outages and Maintenance

In the event that a Registry Operator plans maintenance, it will provide notice to the ICANN emergency operations department, at least, twenty-four (24) hours ahead of that maintenance. ICANN's emergency operations department will note planned maintenance times, and suspend Emergency Escalation services for the monitored services during the expected maintenance outage period.

If Registry Operator declares an outage, as per its contractual obligations with ICANN, on services under a service level agreement and performance requirements, it will notify the ICANN emergency operations department. During that declared outage, ICANN's emergency operations department will note and suspend emergency escalation services for the monitored services involved.

8. Covenants of Performance Measurement

- 8.1. No interference. Registry Operator shall not interfere with measurement Probes, including any form of preferential treatment of the requests for the monitored services. Registry Operator shall respond to the measurement tests described in this Specification as it would to any other request from an Internet user (for DNS and RDDS) or registrar (for EPP).
- 8.2. ICANN testing registrar. Registry Operator agrees that ICANN will have a testing registrar used for purposes of measuring the SLRs described above. Registry Operator agrees to not provide any differentiated treatment for the testing registrar other than no billing of the transactions. ICANN shall not use the registrar for registering domain names (or other registry objects) for itself or others, except for the purposes of verifying contractual compliance with the conditions described in this Agreement. Registry Operator shall identify these transactions using Registrar ID 9997.

PUBLIC INTEREST COMMITMENTS

 Registry Operator will use only ICANN accredited registrars that are party to the Registrar Accreditation Agreement approved by the ICANN Board of Directors on 27 June 2013 in registering domain names. A list of such registrars shall be maintained by ICANN on ICANN's website.

2. [RESERVED]

- 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 http://www.icann.org/en/resources/registries/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 6.1(c) of the Agreement) following a determination by any PICDRP panel and to be bound by any such determination.
 - a. Registry Operator will include a provision in its Registry-Registrar Agreement that requires Registrars to include in their Registration Agreements a provision prohibiting Registered Name Holders from distributing malware, abusively operating botnets, phishing, piracy, trademark or copyright infringement, fraudulent or deceptive practices, counterfeiting or otherwise engaging in activity contrary to applicable law, and providing (consistent with applicable law and any related procedures) consequences for such activities including suspension of the domain name.
 - b. Registry Operator will periodically conduct a technical analysis to assess whether domains in the TLD are being used to perpetrate security threats, such as pharming, phishing, malware, and botnets. Registry Operator will maintain statistical reports on the number of security threats identified and the actions taken as a result of the periodic security checks. Registry Operator will maintain these reports for the term of the Agreement unless a shorter period is required by law or approved by ICANN, and will provide them to ICANN upon request.
 - c. Registry Operator will operate the TLD in a transparent manner consistent with general principles of openness and non-discrimination by establishing, publishing and adhering to clear registration policies.
 - d. Registry Operator of a "Generic String" TLD may not impose eligibility criteria for registering names in the TLD that limit registrations exclusively to a single person or entity and/or that person's or entity's "Affiliates" (as defined in Section 7.1(c) of this Agreement). "Generic String" means a string consisting of a word or

term that denominates or describes a general class of goods, services, groups, organizations or things, as opposed to distinguishing a specific brand of goods, services, groups, organizations or things from those of others.

Appendix S

SPECIFICATION 12

COMMUNITY REGISTRATION POLICIES

Registry Operator shall implement and comply with all community registration policies described below and/or attached to this Specification 12. In the event this Specification 12 conflicts with the requirements of any other provision of the Registry Agreement, such other provision of the Registry Agreement shall govern.

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Part 1. Sponsored I. TLD Charter

Part 2II. Delegated Authority

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Part 4IV. Selection of Registrars

Part 5. Public Whois

Part 6. Additional Provisions

Part 1 - Sponsored TLD Charter

.aero Charter

The <u>.aero</u> TLD is intended to serve the global aviation community. In accordance with its Articles of Association, the Sponsor will manage the .aero TLD pursuant to the provisions of this charter (<u>""Charter"</u>) and in the interests of the global aviation community. Sponsor will be responsible for establishing registration requirements for the <u>.aero</u> TLD consistent with this Charter.

The <u>aero</u> TLD is restricted to people, entities and government agencies which: (1) provide for and support the efficient, safe, and secure transport of people and cargo by air; and (2) facilitate or perform the necessary transactions to transport people and cargo by air.

The Sponsor, with the advice of relevant government and industry representative bodies, may establish stricter requirements for registrants according to the delegation of authority described in Part 2II of this Appendix Specification 12.

Without being exhaustive, <u>Sponsor's Sponsor's</u> policies may permit registrations within the global aviation community by the following:

- aerospace industry
- airlines
- airport authorities and airport / aerodrome operators
- air freight industry
- air logistics companies
- air traffic service providers

- air crews
- air crew and air transport unions
- aviation clubs (aero clubs) and their members
- aviation consultants
- aviation education and information providers
- aviation industry associations and other representative bodies
- aviation insurance associations
- aviation law associations
- aviation media
- aviation suppliers and service providers
- charter and private aircraft operators
- civil aviation authorities
- computer reservations systems
- general aviation
- global distribution systems
- government agencies responsible for providing aviation, facilitation and meteorological services
- ground handling operators
- licensed aircraft maintenance and engineering professionals
- pilots

The Sponsor may extend the bulleted list above if petitioned to do so by a recognised recognized organization within the global aviation community, provided that any such extension is (1) in accordance with the global aviation community's perceptions about the prevailing scope of the community, and (2) is restricted to people, entities, and government agencies which (a) provide for and support efficient, safe, and secure transport of people and cargo by air, and (b) facilitate or perform the necessary transactions to transport people and cargo by air.

Part 2—II

Delegated Authority

The following areas of responsibility for development of policies for the Sponsored TLD are delegated to the Sponsor, provided the other provisions of the Agreement and its Appendices specifications are followed:

- 1. Establishment of naming conventions to be used in the Sponsored TLD.
- 2. Restrictions on what types of people or entities may register Registered Names registered names (which need not be uniform for all names within the Sponsored TLD), provided the scope of the Charter (Part 11) is not exceeded.
- 3. Restrictions on how Registered Names registered names may be used (which need not be uniform for all names within the Sponsored TLD), provided the scope of the Charter (Part 11) is not exceeded.

- 4. Performance of Eligibility and Name-Selection Services (<u>"ENS Services"</u>), either directly by the Sponsor or by one or more organizations or individuals to which it delegates the responsibility for performing ENS Services, provided that (1) revenues received in connection with ENS Services are used solely to defray the cost of providing ENS Services or otherwise sponsoring the <u>Sponsored TLD</u>, with allowance for accumulation of reasonable operating reserves, or (2) ENS Services are outsourced on a competitive basis.
- 5. Mechanisms for enforcement of the policies in items 1, 2 and 3, including procedures for cancellation of registrations. See also Subsection 3.1(d)(i)(B).
- 6. Mechanisms for resolution of disputes between owners of rights in names (such as trademarks) and registrants that do not supplant ICANN's dispute-resolution policies or remedies that may be available under law-
- 7. Selection of the Registry Operator.
- <u>87.</u> Functional and performance specifications for, and pricing of, Registry Services providing the minimum requirements specified in <u>Attachment 7Specification 10</u> are met.
- 98. Matters concerning the operation of the registry for the Sponsored TLD.
- 109. Selection of ICANN-Accredited Registrars ICANN-accredited registrars to act as registrars for the Sponsored TLD [see Subsection 7.1(a)], consistent with Appendix Specification 12, Part 4IV.
- H10. Terms of agreement to be offered by the Registry Operator to ICANN Accredited Registrars ICANN-accredited registrars selected by Sponsor pursuant to Specification 12, Part IV, including provisions for fair treatment by the Registry Operator of those registrars. To ensure that all revenues received by the Registry Operator are used solely for the benefit of the community, the Sponsor has the obligation to review and authorize, in a manner consistent with Section 3.1(g), the prices charged by the Registry Operator.
- 1211. Practices and performance of ICANN Accredited Registrars ICANN-accredited registrars selected by Sponsor pursuant to Specification 12, Part IV with respect to Registered Names and their registration.
- 1312. Terms of agreement between Sponsor and registrants and registrars and registrants under which Registered Namesregistered names are registered.
- 14<u>13</u>. Uses and practices by registrants with respect to Registered Names registered names.
- 1514. Provisions for publication of registry and registrar data consistent with the Sponsorship Agreement and Registrar Accreditation Agreements registrar accreditation agreements.
- 1615. Terms of agreement between or among Sponsor, Registry Operator, registrars, other relevant entities and registrants necessary to give effect to the above.

Part 3—III

Description of Sponsored TLD Community

The <u>.nero</u> TLD is intended to serve the needs of the global aviation community (the <u>"""Community""</u>), which includes those people, entities and government agencies which: (1) provide for and support the efficient, safe, and secure transport of people and cargo by air; and (2) facilitate or perform the necessary transactions to transport people and cargo by air.

The Sponsor may extend the description of the Community consistent with the Agreement and the .nero-Charter.

Part 4—IV

Selection of Registrars

This Appendix Specification 12 specifies the criteria for Sponsor's Sponsor's selection of ICANN-Accredited Registrars ICANN-accredited registrars wishing to enter into an Authorizinga Registry-Registrar Agreement to register domain names in the Sponsored TLD.

Sponsor will select from among <u>ICANN-Accredited Registrars</u> In a manner that promotes the following characteristics in the group of authorized <u>ICANN-Accredited Registrars</u> ICANN-accredited registrars:

- 2. Thorough understanding of the principles and intentions underlying .aero TLD policies, especially as manifested in the domain name management policy and ability to provide Eligibility and Name Selection Services (ENS Services);
- 3. Dedicated willingness and ability to propagate and enforce these policies in an observant and diligent manner and in accordance with policies and procedures prescribed by the Sponsor;
- 4. Familiarity with the needs of the aviation community and established modes for reflecting these needs in the ENS Services processes;
- 5. Broad geographic distribution and language diversity of registrars;
- 6. Established collaborative contact with one or several associations representing the aviation community in the language and geographical region or sector served by the registrar; and
- 7. Dedicated willingness and ability to act together with the aviation community associations referred to above, in the processing of registration requests.

Sponsor will periodically review and as appropriate revise its selection of registrars.

Part 5 - Public Whois [moved to Appendix 5]