Data Escrow Schedule, Content, Format, and Procedure

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

Exhibit 1-Schedule for Escrow Deposits

Exhibit 2-Escrow Deposit Format Specification

Exhibit 3-Escrow Transfer Process

Exhibit 4-Escrow Verification Procedures

The fifth exhibit (Exhibit 5) to Appendix 2, which sets forth the escrow agent’s fees, is subject to negotiation between Registry Operator and the escrow agent.

Exhibit 1-Schedule for Escrow Deposits

Full Deposit Schedule

Full Deposits shall consist of data that reflects the state of the registry as of 00:00 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 04:00 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 Monday shall include transactions completed through 00:00 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 00:00 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 04:00 UTC on the day to which the Incremental Deposit relates.

**Exhibit 2-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.

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

<table>
<thead>
<tr>
<th>Character</th>
<th>Escape Sequence</th>
</tr>
</thead>
<tbody>
<tr>
<td>&quot;</td>
<td>&quot;</td>
</tr>
<tr>
<td>&amp;</td>
<td>&amp;</td>
</tr>
<tr>
<td>'</td>
<td>'</td>
</tr>
<tr>
<td>&lt;</td>
<td>&lt;</td>
</tr>
</tbody>
</table>
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 (1.0), the Registry TLD ("info"), 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
<?xml version="1.0" encoding='UTF-8' ?>
<!DOCTYPE escrow SYSTEM "whois-export.dtd" >
<escrow version="1.0" tld="info" report="domain" date="26-Aug-2001 3:15:00AM">

{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 each report is described in items 3 to 7 below.}

</escrow>
```

3. The Domain Element. The domain element has the attribute "fqdn" (the fully qualified name of the domain) and is a container consisting of the following elements:

a. status: The domain status code. Possible values are: NEW, ACTIVE, INACTIVE, HOLD, LOCK, CLIENT-HOLD, CLIENT-LOCK, PENDING-TRANSFER, PENDING-DELETE

b. period: The registration period in years.

c. owned-by: An identification (the "id" attribute of the registrar element) of the sponsoring registrar of the domain.

d. created-code: A reference to the transaction that created the domain object.

e. created-on: The date/time the domain object was originally created.

f. renewed-on: The date/time the domain was last renewed.

g. updated-by: An identification (the "id" attribute of the registrar element) of the registrar that last updated the domain object.

h. updated-on: The date/time the domain object was last updated.
i. transferred-by: An identification (the "id" attribute of the registrar element) of the registrar that last transferred the domain object.

j. transferred-on: The date/time when the domain object was last transferred.

k. transferred-code: A reference to the transaction that last transferred the domain object.

l. host: Up to thirteen (13) host names that are nameservers for the domain to which the domain object relates.

m. contact-id: Up to four (4) contact-ids that reference the contact records for this domain. Contact-id has the attribute "type" to denote the type of contact. "Type" can be one of: Registrant, Administrative, Technical or Billing.

An example domain container appears below:

```
<domain fqdn="example.info">
    <status>ACTIVE</status>
    <period>1</period>
    <owned-by>42</owned-by>
    <created-code>12345678</created-code>
    <created-on>1-Jul-2001 12:34:56AM</created-on>
    <renewed-on></renewed-on>
    <updated-by>42</updated-by>
    <updated-on>1-Jul-2001 12:34:56AM</updated-on>
    <transferred-by></transferred-by>
    <transferred-on></transferred-on>
    <transferred-code></transferred-code>
    <host>dns1.example.info</host>
    <host>dns2.example.info</host>
    <contact-id type="Registrant">1</contact-id>
    <contact-id type="Administrative">2</contact-id>
    <contact-id type="Technical">3</contact-id>
    <contact-id type="Billing">4</contact-id>
</domain>
```

4. The Host Element. The host element has the attribute "fqdn" (the fully qualified name of the host) and is a container consisting of the following elements:

a. owned-by: An identification (the "id" attribute of the registrar element) of the sponsoring registrar of the host.

b. created-code: A reference to the transaction that created the host object.
c. created-on: The date/time the host object was originally created.

d. updated-by: An identification (the "id" attribute of the registrar element) of the
registrar that last updated the host object.

e. updated-on: The date/time the host object was last updated.

f. ip-address: Any number of IP addresses associated with this host.

An example host container appears below:

```xml
<host fqdn="dns1.example.info">
  <owned-by>42</owned-by>
  <created-code>12345679</created-code>
  <created-on>1-Jul-2001 12:40:32AM</created-on>
  <updated-by>42</updated-by>
  <updated-on>1-Jul-2001 12:40:32AM</updated-on>
  <ip-address>192.168.1.1</ip-address>
</host>
```

5. **The Contact Element.** The contact element has the attribute "id" and is a
container consisting of the following elements:

a. name: The name of the contact.

b. organization: The organization for the contact.

c. Within the "contact" container is a sub-container named "address" with the
following elements:

i. street1: The first part of the street address of the contact.

ii. street2: The second part of the street address of the contact.

iii. city: The name of the city of the contact.

iv. state-province: The name of the state/province of the contact.

v. postal-code: The postal/zip code of the contact.

vi. country: The two-letter ISO 3166 code for the contact's country.

d. voice: The voice phone number of the contact in E164a format.

e. fax: The fax number of the contact in E164a format.
f. email: The e-mail address of the contact.

g. owned-by: An identification (the "id" attribute of the registrar element) of the
sponsoring registrar of the contact.

h. created-code: A reference to the transaction that created the contact object.

i. created-on: The date/time the contact object was originally created.

j. updated-by: An identification (the "id" attribute of the registrar element) of the
registrar that last updated the contact object.

k. updated-on: The date/time the contact object was last updated.

l. transferred-by: An identification (the "id" attribute of the registrar element) of the
registrar that last transferred the contact object.

m. transferred-on: The date/time when the contact object was last transferred.

n. transferred-code: A reference to the transaction that last transferred the
contact object.

An example contact container appears below:

```xml
<contact id="1">
  <name>John Doe</name>
  <organization>aol</organization>
  <address>
    <street1>1234 East 11th Street</street1>
    <street2></street2>
    <city>New York</city>
    <state-province>NY</state-province>
    <postal-code>12345</postal-code>
    <country>US</country>
  </address>
  <voice>+212.1234567</voice>
  <fax>+212.1234568</fax>
  <email>jdoe@example.info</email>
  <owned-by>42</owned-by>
  <created-code>12345680</created-code>
  <created-on>1-Jul-2001 12:42:22AM</created-on>
  <updated-by>42</updated-by>
  <updated-on>1-Jul-2001 12:42:22AM</updated-on>
  <transferred-by></transferred-by>
  <transferred-on></transferred-on>
</contact>
```
6. The Registrar Element. The registrar element has the attribute "id", which is a unique identifier assigned by the IANA. The registrar element 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 attribute "type" to denote the type of contact. "Type" can be one of: Administrative, Technical or Billing.

An example registrar container appears below:

```xml
<registrar id="42">
  <password>registrarrus</password>
  <name>Registrar R Us</name>
  <status>ACTIVE</status>
  <contact-id type="Administrative">10</contact-id>
  <contact-id type="Administrative">11</contact-id>
  <contact-id type="Technical">12</contact-id>
  <contact-id type="Technical">13</contact-id>
  <contact-id type="Billing">14</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. For a "delete" operation, only the object ID is included in the transaction element.

An example transaction container appears below:

```xml
<transaction operation="modify" type="registrar">
  <password>new password</password>
  <name>Registrar R Us</name>
  <status>ACTIVE</status>
  <contact-id type="Administrative">10</contact-id>
  <contact-id type="Administrative">11</contact-id>
</transaction>
```
Exhibit 3-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: "infoSEQN", 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). If Deposit files are split, a .MD5 file (produced with MD5SUM or equivalent) must be included with the split files to isolate errors in case of transfer fault.

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 anonymous file transfer, to Escrow Agent's ftp server within the specified time window.

Exhibit 4-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 on the Deposit file (without report) that will split it into 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 and ICANN shall exchange keys by the same procedure.
Appendix 2
Registry Data Escrow Agreement

This Registry Data Escrow Agreement ("Agreement") is made as of this [enter date] (the "Beginning Date"), by and between ___________ ("Registry Operator"), [name of Escrow Agent] ("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 Registry Agreement. All capitalized terms not defined in this Agreement have the meanings set forth in the Registry Agreement.

RECITALS

A. Registry Operator and ICANN have entered into a Registry Agreement ("Registry Agreement"), which requires Registry Operator, during the period Registry Operator operates the registry for the TLD, to submit certain domain name registration data to a reputable escrow agent to be held in escrow.

B. Pursuant to the Registry Agreement, Registry Operator intends to deliver periodically to Escrow Agent an electronic copy of the Registry Database, as detailed in Subsection 3.1(c) of the Registry Agreement (each such delivery referred to as a "Deposit").

C. Registry Operator 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 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. Registry Operator must create and deliver to Escrow Agent a Full Deposit once each week, according to the schedule specified in Exhibit 1 of Appendix 1. 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 1 of Appendix 1.

3. Format of Deposits. The data in each Full Deposit and in each Incremental Deposit shall follow the data format specified in the TLD Registry Data Escrow: Format Specification (the "Format Specification"), attached as Exhibit 2 of Appendix 1.
4. **Procedure for Deposits.** Each properly formatted Full Deposit and Incremental Deposit shall be processed and electronically delivered in encrypted form to Escrow Agent according to the transfer process described in Exhibit 3 of Appendix 1.

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 to ICANN 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 1) 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 3 of Appendix 1 and is complete and accurate. Escrow Agent shall notify ICANN 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 4 of Appendix 1 and shall deliver to 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, fax and phone, Registry Operator 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 give ICANN notice of successful verification 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 1 of Appendix 1. Escrow Agent shall deliver, on the first business day of each month, (i) a written certification to 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.** Escrow Agent shall 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 protect the integrity of the Deposits. Each of ICANN and Registry Operator shall have the right to inspect Escrow Agent's written records with respect to this Agreement upon reasonable prior notice and during normal business hours.

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 4 of Appendix 1. Registry Operator may destroy any Deposits prior to these four most recent Full Deposits.

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7.3 **Confidentiality.** 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 ICANN and Registry Operator within seven days or as soon as practicable and reasonably cooperate with Registry Operator 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.

8. **Duplication.** Escrow Agent may 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.

9. **Release of Deposit.** Within five business days after receipt of any required documents and/or notices specified in this Section 9, Escrow Agent shall deliver to ICANN or its designee all Deposits in Escrow Agent's possession, in the event that the Escrow Agent receives all of the following:

9.1 One of the following notices:

9.1.1 A written notice by the Registry Operator requesting Escrow Agent to effect such delivery to ICANN; or

9.1.2 A written notice by ICANN that the Registry Agreement has: (i) expired without renewal, pursuant to Section 4.1 of the Registry Agreement, or (ii) been terminated, in accordance with Article VI of the Registry Agreement; or

9.1.3 A written notice by ICANN that all of the following have occurred:

9.1.3.1 ICANN failed, with respect to (a) any Full Deposit or (b) five Incremental Deposits within any calendar month, to receive, within five calendar days after the Deposit's scheduled delivery date, to receive notification of receipt from Escrow Agent; and

9.1.3.2 ICANN gave notice to Escrow Agent and Registry Operator of that failure; and

9.1.3.3 ICANN has not, within seven calendar days after the notice under Section 9.1.3.2, received notice from Escrow Agent that the Deposit has been received; or

9.1.4 A written notice by ICANN that all of the following have occurred:

9.1.4.1 ICANN has received notification from Escrow Agent of failed verification of a Full Depositor of failed verification of five Incremental Deposits within any calendar month; and

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9.1.4.2 ICANN gave notice to Registry Operator of that receipt; and

9.1.4.3 ICANN has not, within seven calendar days after the notice under Section 9.1.4.2, received notice from Escrow Agent of verification of a remediated version of the Deposit; or

9.1.5 A written notice by 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

9.1.6 A written notice by ICANN that a court, arbitral, legislative, or government agency that ICANN finds to be of competent jurisdiction has issued an order, rule, statute, regulation, or other requirement (a copy of which ICANN has provided to Registry Operator) that mandates the release of the Deposits to ICANN; and

9.2 Copies of notices with proof of delivery submitted to Escrow Agent that ICANN or Registry Operator (whichever gave the notice under Section 9.1) has previously notified the other party in writing; and

9.3 Written instructions from ICANN that the Deposits be released and delivered to a designated party; and

9.4 A written undertaking by ICANN that the Deposits will be used only as permitted under the terms of the Registry Agreement. Upon release of any Deposits to ICANN, Escrow Agent shall at the same time deliver to Registry Operator a photostatic copy of the notice it received from ICANN under Sections 9.1.2 to 9.1.6, as applicable.

10. 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.


11.1 Right to Use Deposits. Upon release of any Deposits to Registry Operator pursuant to Section 9, Registry Operator (or its assignee in accordance with the Registry Agreement), and subject to Section 9.4 above, shall immediately have the right to exercise or have exercised all rights in the Deposits necessary to provide registry services. Upon release of any Deposits to ICANN pursuant to Section 9, ICANN (or its assignee in accordance with the Registry Agreement) shall immediately have the right, subject to Section 9.4 above, to exercise or have exercised all rights in the Deposits pursuant to the Registry Agreement, including as necessary to provide registry services.

11.2 Objection Notice. Upon release of any Deposits to ICANN pursuant to Section 9, Registry Operator 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 Registry Agreement (the "Dispute Resolution Procedures"). Registry Operator and ICANN agree to resolve any disputes they may have as between themselves under this Agreement in

Appendix 2-4
accordance with Section 17.2 hereof. The parties agree that (i) Registry Operator 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 ICANN pursuant to Section 9.

11.3 Dispute Resolution Procedures. The parties agree that any proceedings brought pursuant to the Dispute Resolution Procedures shall be conducted consistently and in accordance with any prior arbitration or court orders/decisions involving the Registry Agreement. The parties further agree that any proceedings relating to this Agreement and brought pursuant to the Dispute Resolution Procedures shall not examine, re-evaluate, reconsider, or otherwise subject to review any issues, causes of action, or other claims which were decided, or which a party had a reasonable opportunity to raise, in proceedings which involved the Registry Agreement.

11.4 Withdrawal of Objection Notice. Registry Operator may, at any time, notify Escrow Agent and ICANN that Registry Operator wishes to withdraw its Objection Notice. Upon receipt of such withdrawal from Registry Operator, Escrow Agent shall promptly deliver to ICANN any Deposits that have not previously been delivered to ICANN.

11.5 Dispute Resolution Decisions.

11.5.1 If the release of Deposits under Section 9 to ICANN is determined in Dispute Resolution Procedures to have been proper, Escrow Agent shall promptly deliver to ICANN, 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 to ICANN is determined in Dispute Resolution Procedures to have been improper, ICANN shall promptly return or destroy, at Registry Operator's discretion, the Deposits received by ICANN under Section 9.

12. Indemnity. Registry Operator and ICANN shall, jointly and severally, indemnify and hold harmless Escrow Agent and each of its directors, officers, agents and employees ("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, contractors, and stockholders). Escrow Agent shall likewise indemnify and hold harmless Registry Operator and ICANN, and each of their respective directors, officers, agents and employees ("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, contractors, and stockholders.

13. Interpleader.
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 50% by each of Registry Operator and ICANN.

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.

14. Term and Termination.

14.1 Term. The initial term of this Agreement shall be 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 each 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 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 and ICANN shall resolve any such disputes through the Dispute Resolution Procedures; (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 or ICANN for the data escrow services provided during this dispute resolution period at the rates listed in Exhibit E. This paragraph in no way limits the Registry Operator's rights under the Registry Agreement to change to a different Escrow Agent mutually approved by Registry Operator and ICANN, such approval not to be unreasonably withheld by either of them, provided that such Escrow Agent will agree to substantially similar terms as in the present document and there is no significant interruption of Deposits.

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

14.2.1 Termination of this Agreement by both Registry Operator and ICANN upon having delivered to Escrow Agent a written notice signed by both Registry Operator and ICANN indicating their mutual 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 Release of the Deposit(s) to ICANN pursuant to Section 9 and, if an Objection Notice is made and not withdrawn, a final decision that the release of materials to ICANN was proper at the end of the Dispute Resolution Procedures.

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. Upon payment
of the past-due fee by Registry Operator, this Agreement shall continue in full force and effect. If Registry Operator fails 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 (including Subsection 6.5) of 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 or ICANN.

17.2 **Dispute Resolution.** Registry Operator and ICANN further agree to resolve any disputes they may have as between themselves under this Agreement pursuant to the Dispute Resolution Procedures.

17.3 **Limitation of Liability.** The parties shall not be liable to each other for special, indirect, incidental, or consequential damages hereunder. As between ICANN and Registry Operator the liability limitations of Subsection 5.3 of the Registry Agreement also apply.

17.4 **Independent Contractor.** Escrow Agent is an independent contractor and is not an employee or agent of either Registry Operator or ICANN.

17.5 **No Third-Party Beneficiaries.** This Agreement shall not be construed to create any obligation by Registry Operator, 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 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 or ICANN automatically shall be transferred to the assignee of one of those parties' rights and obligations under the Registry Agreement. Escrow Agent may not assign or transfer this Agreement without the prior written consent of both Registry Operator and ICANN.

17.8 **Entire Agreement.** This Agreement, including all exhibits, supersedes all prior discussions, understandings, and agreements between Escrow Agent and the other parties with respect to the data escrow services for the Registry TLD. The parties acknowledge and agree that, as between ICANN and Registry Operator, the Registry Agreement (including all its appendices) is intended

**Appendix 2-7**
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.

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 such notice, request, instruction or document is received shall be 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.

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.

Appendix 2-8
Escrow Agent
[name and address of Escrow Agent]

By: ____________________________
    [name of signer]
    [title of signer]

Registry Operator

______________________________
______________________________

E-mail: __________
Phone: __________
Fax: __________

By: __________________________
    [name of signer]
    [title of signer]

ICANN

4676 Admiralty Way
Suite 330
Marina del Rey, CA 90292
E-mail: __________
Phone: 1-310-823-9358
Fax: 1-310-823-8649
By: __________________________
    Paul Twomey
    President and CEO
1. PARTIES

The User named in this Agreement hereby contracts with Afilias Limited ("Afilias") for a non-exclusive, non-transferable, limited right to access an Internet host server or servers designated by Afilias from time to time, and to transfer a copy of the described Data to the User's Internet host machine specified below, under the terms of this Agreement. Upon execution of this Agreement by Afilias, Afilias will return a copy of this Agreement to you for your records with your UserID and Password entered in the spaces set forth below.

2. USER INFORMATION

(a) User: ____________________________________________

(b) Contact Person: _________________________________

(c) Street Address: _________________________________

(d) City, State or Province: ___________________________

(e) Country and Postal Code: _________________________

(f) Telephone Number: ______________________________ (including area/country code)

(g) Fax Number: ________________________________ (including area/country code)

(h) E-Mail Address: ________________________________

(i) Specific Internet host machine which will be used to access Afilias' server to transfer copies 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 Afilias (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 .INFO TOP-LEVEL DOMAIN ("TLD") ZONE FILES, AND ANY ASSOCIATED ENCRYPTED CHECKSUM FILES (COLLECTIVELY THE "DATA"), VIA THE FILE TRANSFER PROTOCOL ("FTP") OR HYPERTEXT TRANSFER PROTOCOL ("HTTP") PURSUANT TO THESE TERMS.

4. GRANT OF ACCESS

Afilias grants to you a non-exclusive, non-transferable, limited right to access an Internet host server or servers designated by Afilias 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 without the express prior written consent of Afilias using FTP or HTTP (or other registry operator defined retrieval mechanisms) 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 any marketing activities, regardless of the medium used. Such media include but are not limited to e-mail, telephone, facsimile, postal mail, SMS, and wireless alerts; or (2) enable high volume, automated, electronic processes that send queries or data to the systems of Afilias or any ICANN accredited registrar, except as reasonably necessary to register domain names or modify existing registrations. Afilias 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) 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.

(c) comply with all applicable laws and regulations governing the use of the Data.
(d) not distribute the Data you obtained under this Agreement or any copy thereof to any other party without the express prior written consent of Afilias, 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).

(e) 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 Afilias a quarterly fee of $0 (USD) for the right to access the files during either the Initial Term or Renewal Term of this Agreement. Afilias 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

Afilias 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, Afilias 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." Afilias 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 Afilias 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 Afilias 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 only in the courts of Ireland. You expressly and irrevocably agree and consent to the personal jurisdiction and venue of the courts located in Ireland (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 Afilias at Office 110, 52 Broomhill Road, Tallaght, Dublin 24, Ireland, Attention: Legal Dept. Afilias 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 Afilias 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 Afilias 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.
Afilias Limited

By:
   (sign)

Name:
   (print)

Title:

Date:

User:

By:
   (sign)

Name:
   (print)

Title:

Date:

ASSIGNED USERID AND PASSWORD
(To be assigned by Afilias upon execution of this Agreement):

USERID:   PASSWORD:

Appendix 3-5
Registry Operator's Monthly Report

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:

<table>
<thead>
<tr>
<th>Field #</th>
<th>Field Name</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>01</td>
<td>registrar-name</td>
<td>registrar's full corporate name</td>
</tr>
<tr>
<td>02</td>
<td>iana-id</td>
<td><a href="http://www.iana.org/assignments/registrar-ids">http://www.iana.org/assignments/registrar-ids</a></td>
</tr>
<tr>
<td>03</td>
<td>total-domains</td>
<td>total domains under sponsorship</td>
</tr>
<tr>
<td>04</td>
<td>total-nameservers</td>
<td>total nameservers registered</td>
</tr>
</tbody>
</table>

Appendix 4-1
<table>
<thead>
<tr>
<th></th>
<th>net-adds-1-yr</th>
<th>domains successfully added (and not deleted within the add grace period)</th>
</tr>
</thead>
<tbody>
<tr>
<td>06</td>
<td>net-adds-2-yr</td>
<td>number of domains successfully registered with an Initial term of two years</td>
</tr>
<tr>
<td>07</td>
<td>net-adds-3-yr</td>
<td>number of domains successfully registered with an initial term of three years</td>
</tr>
<tr>
<td>08</td>
<td>net-adds-4-yr</td>
<td>etc.</td>
</tr>
<tr>
<td>09</td>
<td>net-adds-5-yr</td>
<td>&quot; &quot;</td>
</tr>
<tr>
<td>10</td>
<td>net-adds-6-yr</td>
<td>&quot; &quot;</td>
</tr>
<tr>
<td>11</td>
<td>net-adds-7-yr</td>
<td>&quot; &quot;</td>
</tr>
<tr>
<td>12</td>
<td>net-adds-8-yr</td>
<td>&quot; &quot;</td>
</tr>
<tr>
<td>13</td>
<td>net-adds-9-yr</td>
<td>&quot; &quot;</td>
</tr>
<tr>
<td>14</td>
<td>net-adds-10-yr</td>
<td>&quot; &quot;</td>
</tr>
<tr>
<td>15</td>
<td>net-renews-1-yr</td>
<td>domains renewed either automatically or by Command (and not deleted within the renew grace period)</td>
</tr>
<tr>
<td>16</td>
<td>net-renews-2-yr</td>
<td>number of domains successfully renewed with a new renewal period of two years</td>
</tr>
<tr>
<td>17</td>
<td>net-renews-3-yr</td>
<td>number of domains successfully renewed with a new renewal period of three years</td>
</tr>
<tr>
<td>18</td>
<td>net-renews-4-yr</td>
<td>etc.</td>
</tr>
<tr>
<td>19</td>
<td>net-renews-5-yr</td>
<td>&quot; &quot;</td>
</tr>
<tr>
<td>20</td>
<td>net-renews-6-yr</td>
<td>&quot; &quot;</td>
</tr>
<tr>
<td>21</td>
<td>net-renews-7-yr</td>
<td>&quot; &quot;</td>
</tr>
<tr>
<td>22</td>
<td>net-renews-8-yr</td>
<td>&quot; &quot;</td>
</tr>
<tr>
<td>23</td>
<td>net-renews-9-yr</td>
<td>&quot; &quot;</td>
</tr>
<tr>
<td>24</td>
<td>net-renews-10-yr</td>
<td>&quot; &quot;</td>
</tr>
<tr>
<td></td>
<td>Description</td>
<td>Details</td>
</tr>
<tr>
<td>---</td>
<td>---------------------------------------------------------</td>
<td>------------------------------------------------------------------------</td>
</tr>
<tr>
<td>25</td>
<td>transfer-gaining successful</td>
<td>transfers initiated by this registrar that were ack'd by the other registrar – either by command or automatically</td>
</tr>
<tr>
<td>26</td>
<td>transfer-gaining nacked</td>
<td>transfers initiated by this registrar that were n'acked by the other registrar</td>
</tr>
<tr>
<td>27</td>
<td>transfer-losing successful</td>
<td>transfers initiated by another registrar that this registrar ack'd – either by command or automatically</td>
</tr>
<tr>
<td>28</td>
<td>transfer-losing nacked</td>
<td>transfers initiated by another registrar that this registrar n'acked</td>
</tr>
<tr>
<td>29</td>
<td>transfer-disputed won</td>
<td>number of transfer disputes in which this Registrar prevailed</td>
</tr>
<tr>
<td>30</td>
<td>transfer-disputed lost</td>
<td>number of transfer disputes this registrar lost</td>
</tr>
<tr>
<td>31</td>
<td>transfer-disputed no decision</td>
<td>number of transfer disputes involving this registrar with a split or no decision</td>
</tr>
<tr>
<td>32</td>
<td>deleted-domains grace</td>
<td>domains deleted within the add grace period</td>
</tr>
<tr>
<td>33</td>
<td>deleted-domains no grace</td>
<td>domains deleted outside the add grace period</td>
</tr>
<tr>
<td>34</td>
<td>restored-domains</td>
<td>domain names restored from redemption period</td>
</tr>
<tr>
<td>35</td>
<td>restored-no report</td>
<td>total number of restored names for which the registrar failed to submit a restore report</td>
</tr>
</tbody>
</table>
1. **Public Whois Specification**

The Whois service substantially consists of two parts:

- Port 43 Whois services
- Web-based Whois services

Registry Operator’s Whois service is the authoritative Whois service for all second-level Internet domain names registered in the .INFO top-level domain and for all hosts registered using these names. This service shall be available to anyone. It shall be available via port 43 access and via links at the Registry Operator’s web site.

Provisions for the detection of abusive usage of Registry Operator’s Whois system (e.g., excessive numbers of queries from one source), and corresponding protective measures, have been implemented, and Registry Operator may implement further countermeasures against abuse as necessary.

Registry Operator’s Whois service will be updated on a near real-time basis.

The Whois servers shall provide results in ASCII for standard and IDN .info domains.

The status values reported will be those stated in http://www.ietf.org/rfc/rfc3731.txt except that domains in PendingDelete status will be reported as either PENDING-DELETE (Restorable) or PENDING-DELETE (Scheduled for release) as appropriate.

**Port 43 Whois service**

1. The format of responses will follow a semi-free text format outline below, preceded by a mandatory disclaimer specifying the rights of Registry Operator, and of the user querying the database.

2. Each data object shall be represented as a set of key/value pairs, with lines beginning with keys, followed by the colon as a delimiter, followed by the value.

3. All Whois data will be in the ASCII character set, which has encoding compatible with UTF-8 for easy transition to including internationalized data, and as per the IETF’s recommendations on i18n in Internet protocols. 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.

4. All record and key types shall be specified in a publicly available description on the Registry Operator website. The key names and record types should change as infrequently as possible, and only upon the agreement of ICANN and Registry Operator.

**Web-based Whois service**

Registry Operator will make available a Whois interface on its website which can also be linked to by each ICANN-Accredited Registrar that is a party to a Registry-Registrar Agreement. The information available in the Whois database will be returned as a results page on the website.

**Query and Output for Reports Delivered by Web Page and Port 43**

**Whois Queries**

For all Whois queries, the client provides a character string for which information is desired and optionally, the object type and interpretation control parameters to limit the search. Several interpretation controls are defined below to limit searches. If the object type and interpretation control parameters are not specified, Whois searches for the character string in the Name fields of the Domain object. Queries can be made as either an "exact search" or as a "partial search", both of which are insensitive to the case of the input string.

By default, if multiple matches are found for a query, then a summary of all the matching results is presented. A second query is required to retrieve the specific details of one of the matching records.

If only a single match is found, then full details will be provided. Full detail consists of the data in the matching object as well as the data in any associated objects. Additional information and samples of the various types of Whois result records are available in the section below.

**Query Controls**
Whois query controls fall into two categories: those that specify the type of field and those that modify the interpretation of the input or determine the type of output to provide.

**Object Type Control**

The following keywords restrict a search to a specific object type:

- **Domain**: Search only domain objects. The input string is searched in the Name field.
- **Host**: Search only name server objects. The input string is searched in the Name field and the IP Address field.
- **Contact**: Search only contact objects. The input string is searched in the ID 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.

**Interpretation Control**

The following keywords modify the interpretation of the input or determine the level of output to provide:

- **ID**: Search on ID field of an object. This applies to Contact IDs and Registrar IDs.
- **Full or '='**: Always show detailed results, even for multiple matches
- **Summary or SUM**: Always show summary results, even for single matches
- **'%'**: Used as a suffix on the input, will produce all records that start with that input string
- **'_'''**: Used as a suffix on the input, will produce all records that start with that input string and have one and only one additional character

By default, if no interpretation control keywords are used, the output will include full details if a single record is found and a summary if multiple matches are found.

**Query Examples**

**Domain Record**

Appendix 5-3
A Whois query that results in domain information will return the following example 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.

**Registry Whois Outputs**

The following output is an example of a Whois response for a domain record.

**Input:**

WHOISDOMAIN.INFO

-or-

domain WHOISDOMAIN.INFO

**Output:**

Domain ID:D5353344-LRMS
Domain Name:WHOISDOMAIN.INFO
Created On:01-Jan-2005 04:00:00 UTC
Last Updated On:10-Jan-2005 20:25:23 UTC
Expiration Date:01-Jan-2007 04:00:00 UTC
Sponsoring Registrar:EXAMPLE REGISTRAR LLC (R63-LRMS)
Status:DELETE PROHIBITED
Status:RENEW PROHIBITED
Status:TRANSFER PROHIBITED
Status:UPDATE PROHIBITED
Registrant ID:5372808-ERL
Registrant Name:EXAMPLE REGISTRAR REGISTRANT
Registrant Organization:EXAMPLE REGISTRANT ORGANIZATION
Registrant Street1:123 EXAMPLE STREET
Registrant City:ANYTOWN
Registrant State/Province:AP
Registrant Postal Code:A1A1A1
Registrant Country:EX
Registrant Phone:+1.1235551234
Registrant Email:EMAIL@EXAMPLE.COM
Admin ID:5372809-ERL
Admin Name:EXAMPLE REGISTRAR ADMINISTRATIVE
Admin Organization:EXAMPLE REGISTRANT ORGANIZATION
Admin Street1:123 EXAMPLE STREET
Admin City:ANYTOWN
Admin State/Province:AP
Admin Postal Code:A1A1A1
Admin Country:EX
Nameserver Record

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

Input:

host NS01.EXAMPLEREGISTRAR.INFO

-or-

host 192.168.0.100

Output:

Host ID:H123456-LRMS
Host Name:NS01.EXAMPLEREGISTRAR.INFO
Sponsoring Registrar:R123-LRMS
Created On:01-Jan-2005 20:21:50 UTC
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.

*Input:*

contact CNT-2222

*Output:*

Contact ID:CNT-2222  
Sponsoring Registrar:R1234-LRMS  
Name:EXAMPLE CONTACT  
Organization:EXAMPLE ORGANIZATION LLC  
Street1:123 EXAMPLE STREET  
City:ANYTOWN  
Postal Code:A1A1A1  
Country:EX  
Phone:+1.4443331234  
Email:EMAIL@EXAMPLE.COM  
Created On:01-Jan-2005 14:33:12 UTC

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.

*Input:*

Whois registrar EXAMPLE REGISTRAR LLC

*Output:*

Registrar ID:FDRD-DR  
Registrar GUID:99  
Registrar Organization:EXAMPLE REGISTRAR LLC  
Street1:123 EXAMPLE STREET  
City:ANYTOWN  
Postal Code:A1A1A1  
Country:EX  
Phone:+1.4443331234  
Email:EMAIL@EXAMPLE.COM  
Created On:01-Jan-2005 16:50:58 UTC  
Last Updated On:10-Jan-2005 15:34:36 UTC  
Status:OK
2. **Whois Provider Data Specification**

If requested by ICANN, Registry Operator will provide bulk access to up-to-date data concerning domain name and nameserver registrations maintained by Registry Operator in connection with the .info TLD on a daily schedule. This is 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”).

The specification of the content and format of this data, and procedures for providing access, will be as stated below, until changed according to the Registry Agreement.

**Content**

The data sets will consist of files containing the following:

1. **Registrar objects.** The registrar object corresponds to a single registrar. It includes the following data:

   Registrar ID (conforming to the IANA registrar-ids registry)
   Contact ID of Registrar
   Registrar Administrative Contacts
   Registrar Technical Contacts
   Registrar Billing Contacts
   Registrar URL
   Registrar Creation Date
   Registrar Last Updated Date

2. **Contact objects.** The contact object 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

Appendix 5-7
3. **Nameserver objects.** A nameserver object corresponds to a single registered nameserver. The nameserver object includes the following data:

- Name Server ID
- Name Server Host Name
- Name Server IP Addresses if applicable
- Current Registrar
- Name Server Creation Date
- Name Server Last Updated Date

4. **Domain objects.** The domain object corresponds to a single Registered Name. Each domain object includes the following data:

- Domain ID
- Domain Name
- Sponsoring Registrar
- Domain Status
- All contact information (including all details) with at least one each of:
  - Registrant
  - Administrative
  - Technical
  - Billing
- All nameservers associated with this domain
- Domain Registration Date
- Domain Expiration Date
- Domain Last Updated Date

**Format**

The format for the above files shall be as specified by ICANN, after consultation with Registry Operator.

**Procedures for Providing Access**

The procedures for providing daily access shall be as mutually agreed by ICANN and Registry Operator. In the absence of an agreement, the files shall be provided by Registry Operator sending the files in encrypted form to the party designated by ICANN by Internet File Transfer Protocol.

**Whois Data Specification – ICANN**

If requested by ICANN, Registry Operator shall provide bulk access by ICANN to up-to-date data concerning domain name and nameserver registrations maintained by Registry Operator in connection with the Registry TLD on a daily schedule, only for purposes of verifying and ensuring the operational stability of Registry Services and the DNS. The specification of the content and format of
this data, and the procedures for providing access, shall be as stated below, until changed according to the Registry Agreement.

Content

The data sets will consist of files containing the following:

1. Registrar objects. The registrar object corresponds to a single registrar. It includes the following data:

   Registrar ID (conforming to the IANA registrar-ids registry)
   Contact ID of Registrar
   Registrar Administrative Contacts
   Registrar Technical Contacts
   Registrar Billing Contacts
   Registrar URL
   Registrar Creation Date
   Registrar Last Updated Date

2. Contact objects. The contact object 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

3. Nameserver objects. A nameserver object corresponds to a single registered nameserver. The nameserver object includes the following data:

   Name Server ID
   Name Server Host Name
   Name Server IP Addresses if applicable
   Current Registrar
   Name Server Creation Date
   Name Server Last Updated Date

4. Domain objects. The domain object corresponds to a single Registered Name. Each domain object includes the following data:

   Domain ID
   Domain Name
   Sponsoring Registrar
Domain Status
All contact information (including all details) with at least one each of:
• Registrant
• Administrative
• Technical
• Billing
All nameservers associated with this domain
Domain Registration Date
Domain Expiration Date
Domain Last Updated Date

Format

The format for the above files shall be as specified by ICANN, after consultation with Registry Operator.

Procedures for Providing Access

The procedures for providing daily access shall be as mutually agreed by ICANN and Registry Operator. In the absence of an agreement, an up-to-date version (encrypted using a public key supplied by ICANN) of the files shall be placed at least once per day on a designated server and available for downloading by ICANN by Internet File Transfer Protocol.
.INFO Agreement 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:

ICANN-related names:

- aso
- gnso
- icann
- internic
- ccnso

IANA-related names:

- afrinic
- apnic
- arin
- example
- gtld-servers
- iab
- iana
- iana-servers
- iesg
- ietf
- iirtf
- 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 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. Tagged Domain Names. All labels with hyphens in the third and fourth character positions (e.g., "bq--1k2n4h4b" or "xn--ndk061n")

D. 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. They may be used by Registry Operator, but upon conclusion of Registry Operator's designation as operator of the registry for the Registry TLD they shall be transferred as specified by ICANN:

• nic
• whois
• www

E. Registry and Registry Operator Reserved Names

Part A: Names to be transferred with the Registry Database in the event of reassignment

1. about.info
2. address.info
3. buydotinfo.info
4. directory.info
5. dot.info
6. dotinfo.info
7. dotinfodomain.info
8. dotinfodomainname.info
9. dotinformation.info
10. email.info
11. http.info
12. infodomain.info
13. infodomainname.info
14. information.info
15. informationdotinfo.info
16. list.info
17. mail.info
18. owndotinfo.info
19. phone.info
20. register.info
21. registerdotinfo.info
22. registerinfo.info
23. registrar.info
24. registrars.info
25. registry.info
26. search.info

Appendix 6-2
27. searchdotinfo.info
28. selldotinfo.info
29. site.info
30. tld.info
31. tlddotinfo.info
32. topleveldomain.info
33. url.info
34. web.info
35. website.info

Part B: Names staying with Afilias in the event of registry reassignment:

1. 1866.info
2. 1-866.info
3. 1866dotinfo.info
4. 1-866-dotinfo.info
5. 1-866-dot-info.info
6. 866.info
7. afalais.info
8. afalaisco.info
9. afalaiscompany.info
10. afalaiscorp.info
11. afalaiscorporation.info
12. afalaisdomains.info
13. afalaisdotinfo.info
14. afalaisinc.info
15. afalaisinfo.info
16. afalaisinformation.info
17. afalaisllc.info
18. afalaisllp.info
19. afalaismember.info
20. afalaismembers.info
21. afalaisplc.info
22. afalias.info
23. afaliasco.info
24. afaliascompany.info
25. afaliascorp.info
26. afaliascorporation.info
27. afaliasdomains.info
28. afaliasdotinfo.info
29. afaliasinc.info
30. afaliasinfo.info
31. afaliasinformation.info
32. afaliasllc.info
33. afaliasllp.info
34. afaliasmember.info

Appendix 6-3
35. afaliasmembers.info
36. afaliasplc.info
37. affilias.info
38. affiliasco.info
39. affiliascompany.info
40. affiliascorp.info
41. affiliascorporation.info
42. affiliasdomains.info
43. affiliasdotinfo.info
44. affiliasinc.info
45. affiliasinfo.info
46. affiliasinformation.info
47. affiliasllc.info
48. affiliasllp.info
49. affiliasmember.info
50. affiliasmembers.info
51. affiliasplc.info
52. affillias.info
53. affilliasco.info
54. affilliascompany.info
55. affiliascorp.info
56. affiliascorporation.info
57. affiliasdomains.info
58. affiliasdotinfo.info
59. affiliasinc.info
60. affiliasinfo.info
61. affiliasinformation.info
62. affiliasllc.info
63. affiliasllp.info
64. affiliasmember.info
65. affiliasmembers.info
66. affiliasplc.info
67. afil.info
68.afilais.info
69.afilaisco.info
70.afilaiscompany.info
71.afilaiscorp.info
72.afilaiscorporation.info
73.afilaisdomains.info
74.afilaisdotinfo.info
75.afilaisinc.info
76.afilaisinfo.info
77.afilaisinformation.info
78.afilaisllc.info
79.afilaisllp.info
80.afilaismember.info
81. afilaismembers.info
82. afilaisplc.info
83. afilias.info
84. afiliasco.info
85. afiliascompany.info
86. afiliascorp.info
87. afiliascorporation.info
88. afiliasdomains.info
89. afiliasdotinfo.info
90. afiliasinc.info
91. afiliasinfo.info
92. afiliasinformation.info
93. afiliasllc.info
94. afiliasllp.info
95. afiliasmembre.info
96. afiliasmembes.info
97. afiliasplc.info
98. afilias.info
99. afiliasco.info
100. afiliascompany.info
101. afiliascorp.info
102. afiliascorporation.info
103. afiliasdomains.info
104. afiliasdotinfo.info
105. afiliasinc.info
106. afiliasinfo.info
107. afiliasinformation.info
108. afiliasllc.info
109. afiliasllp.info
110. afiliasmembre.info
111. afiliasmembes.info
112. afiliasplc.info
113. ahrs.info
114. member.info
115. members.info
These functional specifications for the Registry TLD consist of the following parts:

1. Registry Operator Registrar Protocol;
2. Supported initial and renewal registration periods;
3. Grace period policy;
4. Nameserver functional specifications;
5. Patch, update, and upgrade policy; and
6. Performance Specifications

1. Registry Operator Registrar Protocol

1.1 Extensible Provisioning Protocol

Registry Operator has implemented, and shall maintain support of, the Extensible Provisioning Protocol (“EPP”) in conformance with the Proposed Standard and Informational RFCs 3730, 3731, 3732, 3734, and 3735 published by the Internet Engineering Task Force (“IETF”) and/or any successor standards, versions, modifications or additions thereto as Registry Operator deems reasonably necessary.

2. Supported initial and renewal registration periods

a. Initial registrations of Registered Names (where available according to functional specifications and other requirements) may be made in the registry for terms of up to ten years.

b. Renewal registrations of Registered Names (where available according to functional specifications and other requirements) may be made in the registry for terms not exceeding a total of ten years.

c. Upon change of sponsorship of the registration of a Registered Name from one registrar to another, according to Part A of the ICANN Policy on Transfer of Registrations between Registrars, the term of registration of the Registered Name shall be extended by one year, provided that the maximum term of the registration as of the effective date of the sponsorship change shall not exceed ten years.

d. The change of sponsorship of registration of Registered Names from one registrar to another, according to Part B of the ICANN Policy on Transfer of Registrations between Registrars shall not result in the extension of the term of the registration and Registry Operator may assist in such change of sponsorship.
3. Grace and Pending Period Policy

This section describes Registry Operator’s practices for operational "Grace" and "Pending" periods, including relationships among sequential operations that occur within given time frames. A Grace Period refers to a specified number of calendar days following a Registry operation in which a domain action may be reversed and a credit may be issued to a registrar. Relevant registry operations in this context are:

- Registration of a new domain,
- Extension of an existing domain,
- Auto-Renew of an existing domain;
- Transfer of an existing domain; and
- Deletion of an existing domain.
- Restore of a deleted domain

Extension of a registration period is accomplished using the EPP RENEW command or by auto-renewal; registration is accomplished using the EPP CREATE command; deletion is accomplished using the EPP DELETE command; transfer is accomplished using the EPP TRANSFER command or, where ICANN approves a bulk transfer under Part B of the ICANN Policy on Transfer of Registrations between Registrars, using the procedures specified in that Part. Restore is accomplished either by using the Restore screen in the web-based administrative site, or by using the EPP RENEW command with the RGP extension; provided, however, that in the case of (i) Bulk Transfers under Part B of the ICANN Policy on Transfer of Registrations between Registrars and (ii) Large Incidents, Restore may be accomplished by e-mail or fax using a Restore Request Form as specified by Registry Operator.

There are five grace periods provided by Registry Operator’s Shared Registration System: Add Grace Period, Renew/Extend Grace Period, Auto-Renew Grace Period, Transfer Grace Period, and Redemption Grace Period.

A Pending Period refers to a specified number of calendar days following a Registry operation in which final Registry action is deferred before the operation may be completed. Relevant Registry operations in this context are:

- Transfer of an existing domain,
- Deletion of an existing domain, and
- Restore of a domain name in Redemption Grace Period.

3.1 Grace Periods

3.1.1 Add Grace Period

The Add Grace Period is a specified number of calendar days following the initial registration of a domain. The current value of the Add Grace Period for all
registrars is five calendar days. If a Delete, Renew/Extend, or Transfer operation occurs within the five calendar days, the following rules apply:

**Delete.** If a domain is deleted within the **Add Grace Period**, the sponsoring Registrar at the time of the deletion is credited for the amount of the registration; provided, however, that Registry Operator shall have the right to charge Registrars a fee as set forth in its Registry-Registrar Agreement for deletes during the **Add Grace Period**. The domain is deleted from the Registry database and is immediately available for registration by any Registrar. See Section 3.2 for a description of overlapping grace period exceptions.

**Renew/Extend.** If a domain is renewed/extended within the **Add Grace Period**, there is no credit for the add. The account of the sponsoring Registrar at the time of the extension will be charged for the initial add plus the number of years the registration is extended. The expiration date of the domain registration is extended by the number of years, up to a total of ten years, as specified by the registrar's requested Renew/Extend operation.

**Transfer (other than ICANN-approved bulk transfer).** Transfers under Part A of the ICANN Policy on Transfer of Registrations between Registrars may not occur during the **Add Grace Period** or at any other time within the first 60 days after the initial registration. Enforcement is the responsibility of the Registrar sponsoring the domain name registration and is enforced by the SRS.

**Bulk Transfer (with ICANN approval).** Bulk transfers with ICANN approval may be made during the **Add Grace Period** according to the procedures in Part B of the ICANN Policy on Transfer of Registrations between Registrars. The expiration dates of transferred registrations are not affected. The losing Registrar's account is charged for the initial add.

### 3.1.2 Renew/Extend Grace Period

The **Renew/Extend Grace Period** is a specified number of calendar days following the renewal/extension of a domain name registration period. The current value of the **Renew/Extend Grace Period** is five calendar days. If a Delete, Extend, or Transfer occurs within that five calendar days, the following rules apply:

**Delete.** If a domain is deleted within the **Renew/Extend Grace Period**, the sponsoring Registrar at the time of the deletion receives a credit of the renew/extend fee. The domain is deleted from the Registry database and is moved to the Redemption Grace Period (that is, to the status: Pending Delete – Restorable). See Section 3.2 for a description of overlapping grace period exceptions.

Appendix 7-3
Renew/Extend. A domain registration can be extended within the Renew/Extend Grace Period for up to a total of ten years. The account of the sponsoring Registrar at the time of the additional extension will be charged for the additional number of years the registration is extended.

Transfer (other than ICANN-approved bulk transfer). If a domain is transferred within the Renew/Extend Grace Period, there is no credit to the losing registrar for the renewal fee. The expiration date of the domain registration is extended by one year and the years added as a result of the Extend remain on the domain name up to a total of 10 years.

Bulk Transfer (with ICANN approval). Bulk transfers with ICANN approval may be made during the Renew/Extend Grace Period according to the procedures in Part B of the ICANN Policy on Transfer of Registrations between Registrars. The expiration dates of transferred registrations are not affected. The losing Registrar's account is not credited for the Renew/Extend operation.

3.1.3 Auto-Renew Grace Period

The Auto-Renew Grace Period is a specified number of calendar days following an auto-renewal. An auto-renewal occurs if a domain name registration is not renewed by the expiration date; in this circumstance the registration will be automatically renewed by the system the first day after the expiration date. The current value of the Auto-Renew Grace Period is 45 calendar days. If a Delete, Extend, or Transfer occurs within the Auto-Renew Grace Period, the following rules apply:

Delete. If a domain is deleted within the Auto-Renew Grace Period, the sponsoring Registrar at the time of the deletion receives a credit of the Auto-Renew fee. The domain is deleted from the Registry database and is moved to the Redemption Grace Period (that is, to the status: Pending Delete – Restorable). See Section 3.2 for a description of overlapping grace period exceptions.

Renew/Extend. A domain can be extended within the Auto-Renew Grace Period for up to a total of ten years. The account of the sponsoring Registrar at the time of the additional extension will be charged for the additional number of years the registration is extended.

Transfer (other than ICANN-approved bulk transfer). If a domain is transferred within the Auto-Renew Grace Period, the losing Registrar is credited with the Auto-Renew charge and the year added by the Auto-Renew operation is cancelled. The expiration date of the domain is extended by one year up to a total maximum of ten and the gaining Registrar is charged for that additional year, even in cases where a full year is not added because of the 10-year registration term maximum.
Bulk Transfer (with ICANN approval). Bulk transfers with ICANN approval may be made during the Auto-Renew Grace Period according to the procedures in Part B of the ICANN Policy on Transfer of Registrations between Registrars. The expiration dates of transferred registrations are not affected. The losing Registrar's account is not credited for the Auto-Renew.

3.1.4 Transfer Grace Period

The Transfer Grace Period is a specified number of calendar days following the transfer of a domain according to Part A of the ICANN Policy on Transfer of Registrations between Registrars. The current value of the Transfer Grace Period is five calendar days. If a Delete, Renew/Extend, or Transfer occurs within that five calendar days, the following rules apply:

Delete. If a domain is deleted within the Transfer Grace Period, the sponsoring Registrar at the time of the deletion receives a credit of the transfer fee. The domain is deleted from the Registry database and is moved to the Redemption Grace Period. See Section 3.2 for a description of overlapping grace period exceptions.

Renew/Extend. If a domain registration is extended within the Transfer Grace Period, there is no credit for the transfer. The Registrar's account will be charged for the number of years the registration is extended. The expiration date of the domain registration is extended by the number of years, up to a maximum of ten years, as specified by the registrar's requested Renew/Extend operation.

Transfer (other than ICANN-approved bulk transfer). If a domain is transferred within the Transfer Grace Period, there is no credit. The expiration date of the domain registration is extended by one year up to a maximum term of ten years. The ICANN Policy on Transfer of Registrations between Registrars does not allow transfers within the first 60 days after another transfer has occurred; it is registrars' responsibility to enforce this restriction.

Bulk Transfer (with ICANN approval). Bulk transfers with ICANN approval may be made during the Transfer Grace Period according to the procedures in Part B of the ICANN Policy on Transfer of Registrations between Registrars. The expiration dates of transferred registrations are not affected. The losing Registrar's account is charged for the Transfer operation that occurred prior to the Bulk Transfer.

3.1.5 Redemption Grace Period

A domain name is placed in REDEMPTIONPERIOD status when a registrar requests the deletion of a domain that is not within the Add Grace Period. A name that is in REDEMPTIONPERIOD status will not be included in the zone file.
A registrar can not modify or purge a domain in REDEMPTIONPERIOD status. The only action a registrar can take on a domain in REDEMPTIONPERIOD is to request that it be restored. Any other registrar requests to modify or otherwise update the domain will be rejected. Unless restored, the domain will be held in REDEMPTIONPERIOD status for a specified number of calendar days. The current length of this Redemption Period is 30 calendar days.

3.2 Overlapping Grace Periods

If an operation is performed that falls into more that one grace period, the actions appropriate for each grace period apply (with some exceptions as noted below).

• If a domain is deleted within the Add Grace Period and the Renew/Extend Grace Period, then the Registrar is credited the registration and extend amounts, taking into account the number of years for which the registration and extend were done. The domain is removed from the Registry database and is immediately available for registration by any Registrar.

• If a domain is auto-renewed, then extended, and then deleted within the Renew/Extend Grace Period, the registrar will be credited for any Auto-Renew fee charged and the number of years for the extension. The years that were added to the domain’s expiration as a result of the auto-renewal and extension are removed. The deleted domain is moved to the Redemption Grace Period (that is, to the status: Pending Delete -- Restorable).

3.2.1 Overlap Exception

• If a domain is deleted within one or several Transfer Grace Periods, then only the current sponsoring Registrar is credited for the transfer amount. For example, if a domain is transferred from Registrar A to Registrar B and then to Registrar C and finally deleted by Registrar C within the Transfer Grace Period of the first and second transfers, then only the last transfer is credited to Registrar C.
• If a domain registration is extended within the Transfer Grace Period, then the current Registrar's account is charged for the number of years the registration is extended.

Note: If several billable operations, including a transfer, are performed on a domain and the domain is deleted within the grace periods of each of those operations, only those operations that were performed after the latest transfer, including the latest transfer, are credited to the current Registrar.

3.3 Pending Periods

3.3.1 Transfer Pending Period
The Transfer Pending Period is a specified number of calendar days following a request from a registrar (registrar A) to transfer a domain in which the current registrar of the domain (registrar B) may explicitly approve or reject the transfer request. The current value of the Transfer Pending Period is five calendar days for all registrars. The transfer will be finalized upon receipt of explicit approval or rejection from the current registrar (registrar B). If the current registrar (registrar B) does not explicitly approve or reject the request initiated by registrar A, the registry will approve the request automatically after the end of the Transfer Pending Period. During the Transfer Pending Period:

a. EPP TRANSFER request or EPP RENEW request is denied.
b. AUTO-RENEW is allowed.
c. EPP DELETE request is denied.
d. Bulk Transfer operations are allowed.
e. EPP UPDATE request is denied.

After a transfer of a domain, the EPP TRANSFER request may be denied for 60 days.

3.3.2 Pending Delete Period

A domain name is placed in PENDING DELETE status if it has not been restored during the Redemption Grace Period. A name that is in PENDING DELETE status will not be included in the zone file. All registrar requests to modify or otherwise update a domain in PENDING DELETE status will be rejected. A domain name is purged from the registry database a specified number of calendar days after it is placed in PENDING DELETE status. The current length of this Pending Delete Period is five calendar days.

4. Nameserver functional specifications

Nameserver operations for the Registry TLD shall comply with RFCs 1034, 1035, and 2182.

5. Patch, update, and upgrade policy

Registry Operator may issue periodic patches, updates or upgrades to the Software, EPP or APIs ("Licensed Product") licensed under the Registry-Registrar Agreement (the "Agreement") that will enhance functionality or otherwise improve the Shared Registration System under the Agreement. For the purposes of this Part 5 of Appendix 7, the following terms have the associated meanings set forth herein.

1. A "Patch" means minor modifications to the Licensed Product made by Registry Operator during the performance of error correction services. A Patch does not constitute a Version.
2. An "Update" means a new release of the Licensed Product which may contain error corrections, minor enhancements, and, in certain circumstances, major enhancements.

3. An "Upgrade" means a new release of the Licensed Product which involves the addition of substantial or substantially enhanced functionality.

4. A "Version" means the Licensed Product identified by any single version number.

Each Update and Upgrade causes a change in version.

* Patches do not require corresponding changes to client applications developed, implemented, and maintained by each registrar.

* Updates may require changes to client applications by each registrar in order to take advantage of the new features and/or capabilities and continue to have access to the Shared Registration System.

* Upgrades require changes to client applications by each registrar in order to take advantage of the new features and/or capabilities and continue to have access to the Shared Registration System.

Registry Operator, in its sole discretion, will deploy Patches during scheduled and announced Shared Registration System maintenance periods.

For Updates (where client changes are not required), Registry Operator will give each registrar notice prior to deploying the Updates into the production environment. The notice shall be at least thirty (30) days.

For Updates (where client changes are required) and Upgrades, Registry Operator will give each registrar notice prior to deploying the Update or Upgrade into the production environment. The notice shall be at least ninety (90) days. Such notice will include an initial notice before deploying the Update that requires changes to client applications or the Upgrade into the Operational Test and Evaluation ("OT&E") environment to which all registrars have access. Registry Operator will maintain the Update or Upgrade in the OT&E environment for at least thirty (30) days, to allow each registrar the opportunity to modify its client applications and complete testing, before implementing the new code in the production environment. This notice period shall not apply in the event Registry Operator's system is subject to the imminent threat of a failure or a material security threat, the discovery of a major security vulnerability, or a Denial of Service (DoS) attack or any other kind of excessive load where the Registry Operator's systems are rendered inaccessible or degraded by being subject to, without limitation:
i) excessive levels of data traffic
ii) unauthorized traffic; or
iii) data traffic not conforming to the protocols used by the Registry

6. Performance Specifications

(A) Registry Operator shall use commercially reasonable efforts to provide Registry Services for the .info TLD. The Performance Specifications, defined below, provide a means to measure Registry Operator's delivery of Registry Services and, when applicable, allow for calculation of the SLA Credits as set forth in Appendix 10 to the Agreement.

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 herein and not otherwise defined shall have the meaning ascribed to them in the Registry 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 Section 7 below. Such events include but are not limited to congestion, collapse, partitioning, power grid failures, and routing failures.

2.2 "Current Pricing Level" refers to prices charged for Registry Services.

2.3 "C1" means Category 1, a mission critical service.

2.4 "C2" means Category 2, a mission important service.

2.5 "C3" means Category 3, a mission beneficial service.

2.6 "Degraded Performance" means a service not meeting the performance requirement set forth in this document. Round-trip time is used as the basis of this metric for all services except nameservice; for nameservice packet loss and Round-trip time are used as metrics.

2.7 "Monthly Timeframe" shall mean each single calendar month beginning and ending at 0000 Coordinated Universal Time (UTC).
2.8 "Monthly Unplanned Outage Time" shall be the sum of minutes of all Unplanned Outage Time during the Monthly Timeframe. Each minute of Unplanned Outage Time subtracts from the available Monthly Planned Outage Time up to four (4) hours.

2.9 "Not Responding" means a service will be deemed as "Not Responding" in the event that the Registry Component Ping (rcPing), as described in Section 7 below, responds with a negative or degraded service response.

2.10 "Planned Outage" means the periodic pre-announced occurrences during the Service Term when the System is taken out of service for maintenance or care. Planned Outages will only be scheduled during the following window period of time each week, 1300 to 2300 UTC on Saturday (the "Planned Outage Period"). The Planned Outage Period may be changed from time to time by the Registry Operator, in its sole discretion, upon prior notice to each Registrar. Planned Outages will not exceed four (4) hours/per calendar week beginning at 0000 UTC Monday nor total more than eight (8) hours/per Monthly Timeframe. Planned Outage for a nameserver shall not coincide with or overlap Planned Outage for any other nameserver. Notwithstanding the foregoing, in each calendar year Registry Operator may incur one (1) additional Planned Outage of up to eight (8) hrs in duration during the Planned Outage Period for major systems or software upgrades (an "Extended Planned Outage"). An Extended Planned Outage represents the total allowed Planned Outages for the month.

2.11 "Round-trip" means the amount of measured time, usually measured in milliseconds, that it takes for a reference query to make a complete trip from the sampling agent to the system or process being tested and back again.

2.12 "Service Availability" means when the System is operational and predictably responding in a commercially reasonable manner. By definition, neither Planned Outages nor Extended Planned Outages shall be considered or included in determining Service Availability.

2.13 "Service Unavailability" means when, as a result of a failure of systems (with respect to systems that are within the Registry Operator's control):

2.13.1 With respect to services other than Whois Service and nameservice, Registrar is unable to establish a session with the System gateway which shall be defined as:

2.13.1.1 successfully complete a TCP session start,

2.13.1.2 successfully complete the SSL authentication handshake, and

2.13.1.3 successfully complete the Extensible Provisioning Protocol ("EPP") <login> or RRP login command.
2.13.2 With respect to all services, system monitoring tools register three (3) consecutive monitoring failures on any of the components listed in Section 3–System Services.

2.13.3 Neither Planned Outages nor Extended Planned Outages shall be considered or included in determining Service Unavailability.

2.14 "SLA" means the service level agreement between Registry Operator and Registrar set forth on Appendix 10.

2.15 "SLA Credit" means those credits available to the Registrar pursuant to the SLA.

2.16 "System" shall mean the list of components listed in Section 3–System Services.

2.17 "Transaction" shall mean chargeable Registry Services, which includes initial and renewal registrations.

2.18 "Unplanned Outage Time" shall mean all of the following:

2.18.1 With respect to services other than Whois Service and nameserver resolution, the amount of time recorded between a trouble ticket first being opened by the Registry Operator in response to a Service Unavailability experienced by a Registrar through the time when the Service Unavailability has been resolved with a final fix or a temporary work around. This will be considered Service Unavailability only for those individual Registrars impacted by the Service Unavailability;

2.18.2 With respect to services other than Whois Service and nameserver resolution, the amount of time recorded between a trouble ticket first being opened by the Registry Operator in the event of Service Unavailability that affects all Registrars through the time when the Registry Operator resolves the problem with a final fix or a temporary work around;

2.18.3 With respect to all services, the amount of time that Planned Outage time exceeds the limits established in Section 2.10 above; or

2.18.4 With respect to all services, the amount of time that Planned Outage time occurs outside the window of time established in Section 2.10 above.

2.19 "Whois Service" means the Registry Operator Whois Services described in Appendix O of the Registry Agreement.

2.20 With respect to the use of “.info nameservers" (Appendix D, Exhibit A) for definition of described testing, “.info nameservers” will refer to those hostnames

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and IP addresses associated for operation of the .info zone file delegation as listed within the root zone, and published by the Internet Assigned Numbers Authority.


The following table lists, by category (C1, C2, or C3), the Registry System services for which availability and performance requirements are established. Services shall meet availability requirements according to their category, as listed in the "Cat." column below. In addition, various services must meet the performance requirements listed in the "Perf." column below. These availability and performance requirements are the subject of the Service Level Agreement (SLA) between Registry Operator and registrars.

<table>
<thead>
<tr>
<th>Component/Service</th>
<th>Cat.</th>
<th>Perf.</th>
<th>SLA</th>
</tr>
</thead>
<tbody>
<tr>
<td>DNS</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>• AXFR/IXFR Updates</td>
<td>C3</td>
<td>P5</td>
<td>x</td>
</tr>
<tr>
<td>• Resolution of queries within the .info TLD, each nameserver</td>
<td>C1</td>
<td>P4</td>
<td></td>
</tr>
<tr>
<td>Whois</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Singular query/response</td>
<td>C2</td>
<td>P3</td>
<td></td>
</tr>
<tr>
<td>Billing</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Account balance check/modify</td>
<td>C2</td>
<td></td>
<td>x</td>
</tr>
<tr>
<td>• Manual balance adjust</td>
<td>C3</td>
<td></td>
<td>x</td>
</tr>
<tr>
<td>Admin</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Update Registrar profile</td>
<td>C3</td>
<td></td>
<td>x</td>
</tr>
<tr>
<td>• Update Registrar status</td>
<td>C3</td>
<td></td>
<td>x</td>
</tr>
<tr>
<td>Protocol Interface</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Add/Renew/Delete/ Update</td>
<td>C2</td>
<td>P1</td>
<td>x</td>
</tr>
<tr>
<td>• Transfer</td>
<td>C2</td>
<td>P6</td>
<td>x</td>
</tr>
<tr>
<td>• Check</td>
<td>C2</td>
<td>P2</td>
<td>x</td>
</tr>
</tbody>
</table>

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4. Service Levels (Availability and Performance)

4.1 Service Level Matrix

<table>
<thead>
<tr>
<th></th>
<th>Total duration of Unplanned Outage Time of C1 class services must not exceed 20 seconds per Monthly Timeframe. This represents a Service Availability percentage of 99.999%</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Total duration of Planned Outages of C1 class services must not exceed the limits set forth in the definition of Planned Outage above</td>
</tr>
<tr>
<td>C1</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Total duration of Unplanned Outage Time of C2 class services must not exceed 240 minutes per monthly Timeframe. This represents a Service Availability percentage of 99.45%.</td>
</tr>
<tr>
<td></td>
<td>Total duration of Planned Outages of C2 class services must not exceed the limits set forth in the definition of Planned Outage above</td>
</tr>
<tr>
<td>C2</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Total duration of Unplanned Outage Time of C3 class services must not exceed 300 minutes per Monthly Timeframe. This represents a Service Availability percentage of 99.31%.</td>
</tr>
<tr>
<td></td>
<td>Total duration of Planned Outages of C3 class services must not exceed the limits set forth in the definition of Planned Outage above</td>
</tr>
<tr>
<td>C3</td>
<td></td>
</tr>
<tr>
<td></td>
<td>For a single-entity payload, Round-trip time should not exceed 800ms as measured by the system monitoring tools that simulates a representative registrar. A request with a multiple entity payload should materially perform consistent with the behavior of multiple, single entity payload operation.</td>
</tr>
<tr>
<td>P1</td>
<td></td>
</tr>
<tr>
<td></td>
<td>For a single-entity payload, Round-trip time should not exceed 400ms as measured by the system monitoring tools that simulates a representative registrar. A request with a multiple-entity payload should materially perform consistent with the behavior of multiple, single entity payload operation.</td>
</tr>
<tr>
<td>P2</td>
<td></td>
</tr>
<tr>
<td></td>
<td>For a singular query/response, Round-trip time should not exceed 800ms as measured by the system monitoring tools.</td>
</tr>
<tr>
<td>P3</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Each nameserver achieves a measured Round-trip time of under 300ms and measured packet</td>
</tr>
<tr>
<td>P4</td>
<td></td>
</tr>
</tbody>
</table>
loss of under 10%. See Exhibit A for the measurement methodology.

| P5   | See Section 6.3 below. |
| P6   | For a single-entity payload, Round-trip time should not exceed 1600ms as measured by the system monitoring tools that simulates a representative registrar. A request with a multiple-entity payload should materially perform consistent with the behavior of multiple, single entity payload operation. |

### 4.2 Service Definition and Service Level Requirement

<table>
<thead>
<tr>
<th>Service Attribute</th>
<th>Unit of Measure</th>
<th>Commitment</th>
</tr>
</thead>
<tbody>
<tr>
<td>DNS service availability from any nameserver (i.e., at least one nameserver available), minimum</td>
<td>percentage uptime</td>
<td>99.999%</td>
</tr>
<tr>
<td>DNS service availability from each nameserver, minimum</td>
<td>percentage uptime</td>
<td>99.93%</td>
</tr>
<tr>
<td>DNS query response rate for all nameservers combined, minimum absolute</td>
<td>queries/sec</td>
<td>Minimum 10,000/sec</td>
</tr>
<tr>
<td>DNS query response rate for each nameserver, minimum</td>
<td>% of measured load (busiest hour averaged over one month) on most loaded server</td>
<td>300% (see RFC 2780, sec. 2.3)</td>
</tr>
<tr>
<td>Cross-network nameserver round-trip time, maximum</td>
<td>Milliseconds</td>
<td>300</td>
</tr>
<tr>
<td>Cross-network nameserver packet loss, maximum</td>
<td>Percentage</td>
<td>&lt;10%</td>
</tr>
<tr>
<td>DNS update interval, maximum</td>
<td>Minutes</td>
<td>15</td>
</tr>
<tr>
<td>Service</td>
<td>Specification</td>
<td>Value</td>
</tr>
<tr>
<td>-------------------------------------</td>
<td>--------------------------------</td>
<td>----------------------------</td>
</tr>
<tr>
<td>SRS service availability, minimum</td>
<td>percentage uptime</td>
<td>99.45%</td>
</tr>
<tr>
<td>SRS processing time, maximum for query operations</td>
<td>Milliseconds</td>
<td>400ms</td>
</tr>
<tr>
<td>SRS processing time, maximum for write operations</td>
<td>Milliseconds</td>
<td>800ms</td>
</tr>
<tr>
<td>SRS service planned outage duration, maximum</td>
<td>hours/month</td>
<td>8 hrs/month (includes Whois)</td>
</tr>
<tr>
<td>SRS service planned outage timeframe</td>
<td>days and hours</td>
<td>13:00-23:00 UTC Saturday</td>
</tr>
<tr>
<td>SRS service planned outage notification, minimum</td>
<td>days</td>
<td>7 days</td>
</tr>
<tr>
<td>SRS service extended planned outage timeframe</td>
<td>days and hours</td>
<td>13:00-23:00 UTC Saturday</td>
</tr>
<tr>
<td>Whois service availability, minimum</td>
<td>percentage uptime</td>
<td>99.45%</td>
</tr>
<tr>
<td>Whois query processing time, maximum</td>
<td>milliseconds</td>
<td>800 ms</td>
</tr>
<tr>
<td>Whois update interval, maximum</td>
<td>minutes</td>
<td>15</td>
</tr>
<tr>
<td>Whois service planned outage duration, maximum</td>
<td>hours/month</td>
<td>8 hrs/month (includes SRS)</td>
</tr>
<tr>
<td>Whois service planned outage timeframe</td>
<td>days and hours</td>
<td>13:00-23:00 UTC Saturday</td>
</tr>
<tr>
<td>Whois service planned outage notification, minimum</td>
<td>days</td>
<td>7 days</td>
</tr>
</tbody>
</table>

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5. Measurement.

Except for nameserver performance measurements (P4), Registry Operator will monitor the System in accordance with the following principles.

5.1 System/Component Monitoring:

The services defined in this Appendix will be sampled and tested as to availability pursuant to the schedule attached hereto as Exhibit A.

5.2 Performance Monitoring:

The services defined in this Appendix will be sampled and tested as to their performance pursuant to the schedule attached hereto as Exhibit A. Services Not Responding within the Round-trip response times listed in Section 4 – Service Levels will be deemed suffering from Degraded Performance for the purposes of this Appendix.

Nameserver performance measurements will be conducted by ICANN according to Exhibit A.

6. Responsibilities of the Parties.

6.1 Except in the case of nameserver performance measurements, Registry Operator will perform monitoring from internally located systems as a means to verify that the availability and performance measurements of this document are being met.

6.2 During normal operation, all registration and information updates sent from a Registrar to the Registry are stored in the primary database (database A). The information in database A is replicated to a backup database (database B) at regular intervals, normally within five (5) minutes. The Whois Service uses replicated databases as its source of information. The time lag in the Whois information update is determined by the database replication interval. Whois may be serviced by multiple backup replicated databases (database B, C, D etc). The Registry Operator will notify Registrars in advance when changes to the Whois Service update schedule occur.

6.3 The Registry Operator will initiate the addition, deletion, or other modification of DNS zone information to its DNS service within 5 minutes after a Transaction. The Registry Operator will notify Registrar in advance when changes to the schedule occur. The Registry Operator will notify Registrars regarding any scheduled maintenance and unavailability of the TLD nameservers.

6.4 The Registry Operator will use commercially reasonable efforts to restore the critical systems of the System within 24 hours in the event of a force majeure and
restore full system functionality within 48 hours. Outages due to a force majeure will not be considered Service Unavailability.

6.5 The Registry Operator will provide Service Availability percentages during each Monthly Timeframe as listed in Section 4.1 – Service Level Matrix.

7. Miscellaneous.

7.1 This Appendix is not intended to replace any term or condition in the Registry Agreement.

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EXHIBIT A
Sampling and Testing Schedule

The Registry Component Ping (rcPing) facility is used to determine two elements of service level agreement (SLA) compliance for the registry. The first level of compliance involves determining the availability of specific components/functions within the registry system. The second level of compliance involves determining if the components/functions are responding within a pre-determined time period.

The rcPing request is generated by a monitor (rcPing Monitor) component within the server complex. The interface/request handler which is responsible for receiving commands for the monitored components/functions should record the time of the request arriving, ping the monitored component/function, record the stop time, determine the difference in milliseconds and respond with the integer value in milliseconds of the difference. The rcPing Monitor will time out if no response is received from the interface within a pre-determined interval. The rcPing request is specific to the component being monitored. Monitoring requests are sent independent of one another.

The following table lists the components to be monitored by the rcPing facility.

<table>
<thead>
<tr>
<th>Component</th>
<th>Function</th>
<th>Interface</th>
<th>rcPing Command</th>
<th>Response Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>eppServer</td>
<td>AddDomain</td>
<td>eppServer</td>
<td>RcPingeppp(add)</td>
<td>800</td>
</tr>
<tr>
<td>eppServer</td>
<td>renewDomain</td>
<td>eppServer</td>
<td>RcPingeppp(renew)</td>
<td>800</td>
</tr>
<tr>
<td>eppServer</td>
<td>deleteDomain</td>
<td>eppServer</td>
<td>RcPingeppp(delete)</td>
<td>800</td>
</tr>
<tr>
<td>eppServer</td>
<td>transferDomain</td>
<td>eppServer</td>
<td>RcPingeppp(transfer)</td>
<td>800</td>
</tr>
<tr>
<td>eppServer</td>
<td>checkDomain</td>
<td>eppServer</td>
<td>RcPingeppp(check)</td>
<td>400</td>
</tr>
<tr>
<td>radmin</td>
<td>updateRegistrar</td>
<td>Radmin</td>
<td>RcPingeppp(update)</td>
<td>800</td>
</tr>
<tr>
<td>billingServer</td>
<td>checkBalance</td>
<td>eppServer</td>
<td>RcPingeppp(checkBalance)</td>
<td>800</td>
</tr>
<tr>
<td>billingServer</td>
<td>updateBalance</td>
<td>eppServer</td>
<td>RcPingeppp(updateBalance)</td>
<td>800</td>
</tr>
</tbody>
</table>

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Each component being monitored can be configured with the following:

1. The time-out threshold. A typical value for timeout is three (3) seconds.

2. The expected response time for each ping command, as listed above.

3. The interval at which the ping commands will be sent. A typical value for the sampling interval is five (5) minutes.

4. The number of consecutive failures (i.e. exceeded response times and ping time outs) that determine a non-compliance with the SLA for a single component. A typical value is three (3) consecutive failures.

The rcPing monitor will store all response time data in a database that will be archived on a daily basis.

Nameserver Availability and Performance Measurements

1. Availability of each .info nameserver shall be measured by the rcPing utility. A nameserver that does not respond to three consecutive ping requests (pings at five-minute intervals with three-second timeouts) will be considered as Not Responding.

2. Cross-Network Nameserver Performance Requirements. Nameserver Round-trip time and packet loss from the Internet are important elements of the quality of service provided by the Registry Operator. These characteristics, however, are affected by Internet performance and therefore cannot be closely controlled by Registry Operator. Accordingly, these requirements are not matters subject to Service Level Exceptions and credits under the Service Level Agreement (Appendix10), but they are Registry Operator obligations..

The committed Performance Specification for cross-network nameserver performance is a measured Round-trip time of under 300ms 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:

2.1. The measurements will be conducted by sending strings of DNS request packets from each of four measuring locations to each of the .info nameservers and observing the responses from the .info 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).
2.2. Each string of request packets will consist of 100 UDP packets at 10 second intervals requesting ns records for arbitrarily selected .info second-level domains, preselected to ensure that the names exist in the Registry 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.

2.3. To meet the packet loss and Round-trip-time requirements for a particular CNNP Test, all three of the following must be true:

2.3.1. The Round-trip time and packet loss from each measurement location to at least one .info nameserver must not exceed the required values.

2.3.2. The Round-trip time to each of 75% of the .info nameservers from at least one of the measurement locations must not exceed the required value.

2.3.3. The packet loss to each of the .info nameservers from at least one of the measurement locations must not exceed the required value.

2.4. Any failing CNNP Test result obtained during an identified Core Internet Service Failure shall not be considered.

2.5. To ensure a properly diverse testing sample, ICANN will conduct the CNNP Tests at varying times (i.e. at different times of the day, as well as on different days of the week). Registry Operator will be deemed to have failed to meet the cross-network nameserver performance requirement only if the .info nameservers persistently fail (see item 1.1.3 above) the CNNP Tests with no less than three consecutive failed CNNP Tests to be considered to have persistently failed.

2.6. In the event of persistent failure of the CNNP Tests, ICANN will give Registry Operator written notice of the failures (with backup data) and Registry Operator will have sixty days to cure the failure.

2.7. If, following that opportunity to cure, the .info nameservers continue to persistently fail CNNP Tests and Registry Operator fails to resolve the problem within thirty days after written notice of the continuing failures, Registry Operator will be deemed not to have met its obligations.

2.8. Sixty days before the commencement of testing under this provision, ICANN will provide Registry Operator with the opportunity to evaluate the testing tools, procedures and testing methodology to be used by ICANN. In the event that Registry Operator does not approve of such tools, procedures and testing methodology, ICANN will work directly with Registry Operator to make necessary modifications.

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Appendix 8

Registry-Registrar Agreement

This Registry-Registrar Agreement (the "Agreement"), dated as of ________________, ______, is made and entered into by and between Afilias Limited, a company organized under the laws of Ireland, with its principal place of business located at Office 110, 52 Broomhill Road, Tallaght, Dublin 24, Ireland ("Afilias"), and __________________________, a __________________________, with its principal place of business located at ____________________________ ("Registrar"). Afilias and Registrar may be referred to individually as a "Party" and collectively as the "Parties."

WHEREAS, Afilias has entered a Registry Agreement with the Internet Corporation for Assigned Names and Numbers to operate a shared registration system, TLD nameservers, and other equipment for the .info top-level domain;

WHEREAS, multiple registrars will provide Internet domain name registration services within the .info top-level domain;

WHEREAS, Registrar wishes to act as a registrar for domain names within the .info top-level domain.

NOW, THEREFORE, for and in consideration of the mutual promises, benefits and covenants contained herein and for other good and valuable consideration, the receipt, adequacy and sufficiency of which are hereby acknowledged, Afilias and Registrar, intending to be legally bound, hereby agree as follows:

1. DEFINITIONS

1.1. The "APIs" are the application program interfaces by which Registrar may interact, through the EPP, with the Registry System.

1.2. "Confidential Information" means all information and materials, including, without limitation, computer software, data, information, intellectual property, databases, protocols, reference implementation and documentation, financial information, statistics and functional and interface specifications, provided by the Disclosing Party to the Receiving Party under this Agreement and marked or otherwise identified as Confidential, provided that if a communication is oral, the Disclosing Party will notify the Receiving Party in writing, including by email, within 15 days of the disclosure that it is confidential.

1.3. "DNS" means the Internet domain name system.

1.4. The "Effective Date" shall be the date first set forth above.

1.5. "EPP" means the Extensible Provisioning Protocol, which is the protocol used by the Registry System.
1.6. "ICANN" means the Internet Corporation for Assigned Names and Numbers.

1.7. "Personal Data" refers to data about any identified or identifiable natural person.

1.8. "Registered Name" refers to a domain name within the domain of the Registry TLD, whether consisting of two or more (e.g., john.smith.info) levels, about which Afilias or an affiliate engaged in providing Registry Services maintains data in a Registry Database, arranges for such maintenance, or derives revenue from such maintenance. A name in a Registry Database may be a Registered Name even though it does not appear in a TLD zone file (e.g., a registered but inactive name).

1.9. "Registered Name Holder" means the holder of a Registered Name.

1.10. The "Registrar Tool Kit" comprises the EPP, APIs and Software.

1.11. "Registry Agreement" means the Registry Agreement between Afilias and ICANN dated as of _____________, 2006, for the operation of the Registry TLD, as amended from time to time.

1.12. "Registry Database" means a database comprised of data about one or more DNS domain names within the domain of the Registry TLD that is used to generate either DNS resource records that are published authoritatively or responses to domain-name availability lookup requests or Whois queries, for some or all of those names.

1.13. "Registry Services" Registry Services are: (a) those services that are both (i) 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 zone servers; and dissemination of contact and other information concerning domain name server registrations in the TLD as required by this Agreement; and (ii) provided by the Registry Operator for the .info registry as of the Effective Date; (b) other products or services that the Registry Operator is required to provide because of the establishment of a Consensus Policy (as defined in the Registry Agreement); (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.

1.14."Registry TLD" means the .info TLD.

1.15. The "Registry System" means the system operated by Afilias for Registered Names in the Registry TLD.
1.16. “Software” means reference client software intended to allow Registrar to
develop its system to register second-level domain names through the Registry
System.

1.17. "Term" means the term of this Agreement, as set forth in Subsection 9.1.

1.18. A "TLD" means a top-level domain of the DNS.

Other terms used in this Agreement as defined terms shall have the meanings
ascribed to them in the context in which they are defined.

2. OBLIGATIONS OF AFILIAS

2.1. Access to Registry System. Throughout the Term of this Agreement,
Afilias shall operate the Registry System and provide Registrar with access to the
Registry System to transmit domain name registration information for the
Registry TLD to the Registry System. Nothing in this Agreement entitles
Registrar to enforce any agreement between Afilias and ICANN.

2.2. Maintenance of Registrations Sponsored by Registrar. Subject to the
provisions of this Agreement, ICANN requirements, and Afilias requirements
authorized by ICANN, Afilias shall maintain the registrations of Registered
Names sponsored by Registrar in the Registry System during the term for which
Registrar has paid the fees required by Subsection 4.1.

2.3. Provision of Tool Kit; License. No later than three business days after the
Effective Date, Afilias shall provide to Registrar a copy of the Registrar Tool Kit,
which shall provide sufficient technical specifications to permit registrar interface
with the Registry System and employ its features that are available to Registrars.
Subject to the terms and conditions of this Agreement, Afilias hereby grants
Registrar and Registrar accepts a non-exclusive, non-transferable, worldwide
limited license to use for the Term and purposes of this Agreement, all
components owned by or licensed to Afilias in and to the EPP, APIs, any
reference client software and any other intellectual property included in the
Registrar Tool Kit, as well as updates and redesigns thereof, to provide domain
name registration services in the Registry TLD only and for no other purpose.

2.4. Changes to System. Afilias may from time to time replace or make
modifications to the EPP, APIs, or Software or other materials licensed
hereunder that will modify, revise or augment the features of the Registry
System. Afilias will provide Registrar with at least ninety days notice prior to the
implementation of any material changes to the EPP, APIs, Software or other
materials licensed hereunder.

2.5. Engineering and Customer Service Support.

2.5.1. Engineering Support. Afilias agrees to provide Registrar with
reasonable engineering telephone support (24 hour/7 day) to address
engineering issues arising in connection with Registrar's use of the Registry System.

2.5.2. Customer Service Support. During the Term of this Agreement, Afilias will provide reasonable telephone and e-mail customer service support to Registrar (but not to Registered Name Holders or prospective customers of Registrar), for non-technical issues solely relating to the Registry System and its operation. Afilias will provide Registrar with a telephone number and e-mail address for such support during implementation of the Protocol, APIs and Software. First-level telephone support will be available on business days between the hours of 9 a.m. and 5 p.m. Eastern US time.

2.6. Handling of Personal Data. Afilias shall notify Registrar of the purposes for which Personal Data submitted to Afilias by Registrar is collected, the intended recipients (or categories of recipients) of such Personal Data, and the mechanism for access to and correction of such Personal Data. Afilias shall take reasonable steps to protect Personal Data from loss, misuse, unauthorized disclosure, alteration or destruction. Afilias shall not use or authorize the use of Personal Data in a way that is incompatible with the notice provided to registrars. Afilias may from time to time use the demographic data collected for statistical analysis, provided that this analysis will not disclose individual Personal Data and provided that such use is compatible with the notice provided to registrars regarding the purpose and procedures for such use.

2.7. Service Level Agreement. Afilias shall issue credits to Registrar as described in Appendix 10 to the Registry Agreement, which appendix is hereby incorporated by reference, as amended from time to time.

2.8. ICANN Requirements. Afilias’ obligations hereunder are subject to modification at any time as the result of ICANN-mandated requirements and consensus policies. Notwithstanding anything in this Agreement to the contrary, Registrar shall comply with any such ICANN requirements in accordance with the timeline defined by ICANN.

3. OBLIGATIONS OF REGISTRAR

3.1. Accredited Registrar. During the Term of this Agreement, Registrar shall maintain in full force and effect its accreditation by ICANN as a registrar for the Registry TLD.

3.2. Registrar Responsibility for Customer Support. Registrar shall provide (i) support to accept orders for registration, cancellation, modification, renewal, deletion or transfer of Registered Names and (ii) customer service (including domain name record support) and billing and technical support to Registered Name Holders. Registrar shall publish to Registered Name Holders emergency contact information for critical situations such as domain name hijacking.
3.3. **Registrar’s Registration Agreement.** At all times while it is sponsoring the registration of any Registered Name within the Registry System, Registrar shall have in effect an electronic or paper registration agreement with the Registered Name Holder. Registrar shall include in its registration agreement those terms required by this Agreement and other terms that are consistent with Registrar’s obligations to Afilias under this Agreement.

3.4. **Indemnification Required of Registered Name Holders.** In its registration agreement with each Registered Name Holder, Registrar shall require such Registered Name Holder to indemnify, defend and hold harmless Afilias and its subcontractors, and the directors, officers, employees, affiliates and agents of each of them, from and against any and all claims, damages, liabilities, costs and expenses, including reasonable legal fees and expenses, arising out of or relating to the Registered Name Holder's domain name registration. The registration agreement shall further require that this indemnification obligation survive the termination or expiration of the registration agreement.

3.5. **Compliance with Terms and Conditions.** Registrar shall comply with each of the following requirements, and further shall include in its registration agreement with each Registered Name Holder, as applicable, an obligation for such Registered Name Holder to comply with each of the following requirements:

3.5.1. ICANN standards, policies, procedures, and practices for which Afilias has monitoring responsibility in accordance with the Registry Agreement or other arrangement with ICANN; and

3.5.2. operational standards, policies, procedures, and practices for the Registry TLD established from time to time by Afilias in a non-arbitrary manner and applicable to all registrars, including affiliates of Afilias, and consistent with ICANN’s standards, policies, procedures, and practices and Afilias’ Registry Agreement with ICANN. Additional or revised Afilias operational standards, policies, procedures, and practices for the Registry TLD shall be effective upon thirty days notice by Afilias to Registrar. If there is a discrepancy between the terms required by this Agreement and the terms of the Registrar’s registration agreement, the terms of this Agreement shall supercede those of the Registrar’s registration agreement.

3.6. **Additional Requirements for Registration Agreement.** In addition to the provisions of Subsection 3.5, in its registration agreement with each Registered Name Holder, Registrar shall require such Registered Name Holder to:

3.6.1. consent to the use, copying, distribution, publication, modification and other processing of Registered Name Holder’s Personal Data by Afilias and its designees and agents in a manner consistent with the purposes specified pursuant to Subsection 2.6;
3.6.2. submit to proceedings commenced under ICANN's Uniform Domain Name Dispute Resolution Policy ("UDRP"); and

3.6.3. immediately correct and update the registration information for the Registered Name during the registration term for the Registered Name;

3.6.4. agree to be bound by the terms and conditions of the initial launch of the Registry TLD, including without limitation the sunrise period and the land rush period, and the Sunrise Dispute Resolution Policy, and further to acknowledge that Afilias has no liability of any kind for any loss or liability resulting from the proceedings and processes relating to the sunrise period or the land rush period, including, without limitation: (a) the ability or inability of a registrant to obtain a Registered Name during these periods, and (b) the results of any dispute over a sunrise registration; and

3.6.5. acknowledge and agree that Afilias reserves the right to deny, cancel or transfer any registration or transaction, or place any domain name(s) on registry lock, hold or similar status, that it deems necessary, in its discretion; (1) to protect the integrity and stability of the registry; (2) to comply with any applicable laws, government rules or requirements, requests of law enforcement, or any dispute resolution process; (3) to avoid any liability, civil or criminal, on the part of Afilias, as well as its affiliates, subsidiaries, officers, directors, and employees; (4) per the terms of the registration agreement or (5) to correct mistakes made by Afilias or any Registrar in connection with a domain name registration. Afilias also reserves the right to place upon registry lock, hold or similar status a domain name during resolution of a dispute.

3.7. Data Submission Requirements.

3.7.1. As part of its registration and sponsorship of Registered Names in the Registry TLD, Registrar shall submit complete data as required by technical specifications of the Registry System that are made available to Registrar from time to time. Registrar hereby grants Afilias a non-exclusive, non-transferable, limited license to such data for propagation of and the provision of authorized access to the TLD zone files and as otherwise required in Afilias’ operation of the Registry TLD.

3.7.2. Registrar shall submit any corrections or updates from a Registered Name Holder relating to the registration information for a Registered Name to Afilias in a timely manner.


3.8.1. Registrar shall develop and employ in its domain name registration business all necessary technology and restrictions to ensure that its connection to the Registry System is secure and that all data exchanged between Registrar's system and the Registry System shall be protected to avoid unintended disclosure of information. Registrar shall employ the necessary measures to
prevent its access to the Registry System granted hereunder from being used to
(i) allow, enable, or otherwise support the transmission by e-mail, telephone, or
facsimile of mass unsolicited, commercial advertising or solicitations to entities
other than its own existing customers; or (ii) enable high volume, automated,
electric processes that send queries or data to the systems of Afilias, any other
registry operated under an agreement with ICANN, or any ICANN-accredited
registrar, except as reasonably necessary to register domain names or modify
existing registrations. In addition, Afilias may require other reasonable security
provisions to ensure that the Registry System is secure and stable.

3.8.2. Each session wherein Registrar accesses the Registry System shall be
authenticated and encrypted using two-way secure socket layer ("SSL") protocol.
At a minimum, Registrar shall authenticate every client connection with the
Registry System using both an X.509 server certificate issued by a commercial
certification authority identified by the Afilias and its Registrar password.
Registrar shall disclose only its Registrar password to its employees with a need
to know. Registrar agrees to notify Afilias within four hours of learning that its
Registrar password has been compromised in any way or if its server certificate
has been revoked by the issuing certification authority or compromised in any
way.

3.8.3. Registrar shall not provide identical Registrar-generated authorization
<authinfo> codes for domain names registered by different registrants with the
same Registrar. Afilias in its sole discretion may choose to modify <authinfo>
codes for a given domain and shall notify the sponsoring registrar of such
modifications via EPP compliant mechanisms (i.e. EPP<poll> or
EPP<domain:Info>). Documentation of these mechanisms shall be made
available to Registrar by Afilias. The Registrar shall provide the Registered Name
Holder with timely access to the authorization code along with the ability to
modify the authorization code. Registrar shall respond to any inquiry by a
Registered Name Holder regarding access to and/or modification of an
authorization code within five (5) calendar days.

3.9. Resolution of Technical Problems. Registrar shall employ necessary
employees, contractors, or agents with sufficient technical training and
experience to respond to and fix all technical problems concerning the use of the
EPP, the APIs and the systems of Afilias in conjunction with Registrar's systems.
In the event of significant degradation of the Registry System or other
emergency, Afilias may, in its sole discretion, temporarily suspend or restrict
Registrar's access to the Registry System. Such temporary suspensions shall be
applied in a non-arbitrary manner and shall apply fairly to any registrar similarly
situated, including affiliates of Afilias.

3.10. Time. In the event of any dispute concerning the time of the entry of a
domain name registration into the Registry Database, the time shown in the
Registry records shall control.
3.11. **Transfer of Registration Sponsorship.** Registrar agrees to implement transfers of Registered Name registrations from another registrar to Registrar and vice versa pursuant to the Policy on Transfer of Registrations Between Registrars as may be amended from time to time by ICANN (the “Transfer Policy”).

3.12. **Restrictions on Registered Names.** In addition to complying with ICANN standards, policies, procedures, and practices limiting domain names that may be registered, Registrar agrees to comply with applicable statutes and regulations limiting the domain names that may be registered.

4. **FEES**

4.1. **Amount of Afilias Fees.** Registrar agrees to pay Afilias the fees set forth in Exhibit A for services provided by Afilias to Registrar (collectively, "Fees"). Afilias reserves the right to revise the Fees from time to time, provided that Afilias shall provide at least six (6) months notice to Registrar prior to any increases in fees for initial registrations, renewal registrations or fees for registrations associated with transfers of sponsorship. In addition, Registrar agrees to pay Afilias the applicable variable fees assessed to Registry Operator by ICANN, as permitted by Subsection 7.2(b) of the Registry Agreement by no later ten (10) days after the date of an invoice from Registry Operator for such fees.

4.2. **Payment of Afilias Fees.** In advance of incurring Fees, Registrar shall establish a letter of credit, deposit account, or other credit facility accepted by Afilias (“Payment Security”), which acceptance will not be unreasonably withheld so long as payment is assured. All Fees are due immediately upon receipt of applications for initial and renewal registrations, registrations associated with transfers of sponsorship, or upon provision of other services provided by Afilias to Registrar. Payment shall be made via debit or draw down of the deposit account, letter of credit or other credit facility. Afilias shall provide monthly invoice statements to the Registrar.

4.3. **Non-Payment of Fees.** In the event Registrar has insufficient funds deposited or available through the letter of credit or credit facility with Afilias, Afilias may do any or all of the following: (a) stop accepting new initial or renewal registrations, or registrations associated with transfers of sponsorship, from Registrar; (b) delete the domain names associated with any negative balance incurred or invoice not paid in full from the Registry database (c) give written notice of termination of this Agreement pursuant to Subsection 9.2.1; and (d) pursue any other remedy under this Agreement.

5. **CONFIDENTIALITY AND INTELLECTUAL PROPERTY**

5.1. **Use of Confidential Information.** During the Term of this Agreement, each party (the "Disclosing Party") may disclose its Confidential Information to the other party (the "Receiving Party"). Each party’s use and disclosure of the
Confidential Information of the other party shall be subject to the following terms and conditions:

5.1.1. The Receiving Party shall treat as strictly confidential, and use all reasonable efforts to preserve the secrecy and confidentiality of, all Confidential Information of the Disclosing Party, including implementing reasonable physical security measures and operating procedures.

5.1.2. The Receiving Party agrees that it will use any Confidential Information of the Disclosing Party solely for the purpose of exercising its right or performing its obligations under this Agreement and for no other purposes whatsoever.

5.1.3. The Receiving Party shall make no disclosures whatsoever of any Confidential Information of the Disclosing Party to others; provided, however, that if the Receiving Party is a corporation, partnership, or similar entity, disclosure is permitted to the Receiving Party's officers, employees, contractors and agents who have a demonstrable need to know such Confidential Information, provided the Receiving Party shall advise such personnel of the confidential nature of the Confidential Information and of the procedures required to maintain the confidentiality thereof, and shall require them to acknowledge in writing that they have read, understand, and agree to be individually bound by the confidentiality terms of this Agreement.

5.1.4. The Receiving Party shall not modify or remove any confidentiality legends and/or copyright notices appearing on any Confidential Information of the Disclosing Party.

5.1.5. The Receiving Party agrees not to prepare any derivative works based on the Confidential Information.

5.1.6. Notwithstanding the foregoing, this Subsection 5.1 imposes no obligation upon the parties with respect to information that (i) is disclosed in the absence of a confidentiality agreement and such disclosure was agreed to by the Disclosing Party in writing prior to such disclosure; or (ii) is or has entered the public domain through no fault of the Receiving Party; or (iii) is known by the Receiving Party prior to the time of disclosure; or (iv) is independently developed by the Receiving Party without use of the Confidential Information; or (v) is made generally available by the Disclosing Party without restriction on disclosure, or (vi) is required to be disclosed by law, regulation or court order; provided, that in the event the Receiving Party is required by law, regulation or court order to disclose any of Disclosing Party's Confidential Information, Receiving Party will promptly notify Disclosing Party in writing prior to making any such disclosure in order to facilitate Disclosing Party seeking a protective order or other appropriate remedy from the proper authority, at the Disclosing Party's expense. Receiving Party agrees to cooperate with Disclosing Party in seeking such order or other remedy. Receiving Party further agrees that if Disclosing Party is not successful in precluding the requesting legal body from requiring the disclosure of the
Confidential Information, it will furnish only that portion of the Confidential Information which is legally required.

**5.1.7.** The Receiving Party's duties under this Subsection 5.1 shall expire two (2) years after the expiration or termination of this Agreement or earlier, upon written agreement of the parties.

**5.2.** Intellectual Property.

**5.2.1.** Subject to the licenses granted hereunder, each party will continue to independently own its intellectual property, including all patents, trademarks, trade names, service marks, copyrights, trade secrets, proprietary processes and all other forms of intellectual property.

**5.2.2.** Without limiting the generality of the foregoing, no commercial use rights or any licenses under any patent, patent application, copyright, trademark, know-how, trade secret, or any other intellectual proprietary rights are granted by the Disclosing Party to the Receiving Party by this Agreement, or by any disclosure of any Confidential Information to the Receiving Party under this Agreement.

**6. INDEMNITIES AND LIMITATION OF LIABILITY**

**6.1. Indemnification.** Registrar, at its own expense and within thirty days after presentation of a demand by Afilias under this Section, will indemnify, defend and hold harmless Afilias and its subcontractors, and the directors, officers, employees, representatives, agents and affiliates of each of them, against any claim, suit, action, or other proceeding brought against any such party(ies) based on or arising from any claim or alleged claim: (i) relating to any product or service of Registrar; (ii) relating to any agreement, including Registrar's dispute policy, with any Registered Name Holder or Registrar; or (iii) relating to Registrar's domain name registration business, including, but not limited to, Registrar's advertising, domain name application process, systems and other processes, fees charged, billing practices and customer service. Afilias shall provide Registrar with prompt notice of any such claim, and upon Registrar's written request, Afilias will provide to Registrar all available information and assistance reasonably necessary for Registrar to defend such claim, provided that Registrar reimburses Afilias for Afilias' actual and reasonable costs incurred in connection with providing such information and assistance. Registrar will not enter into any settlement or compromise of any such indemnifiable claim without Afilias' prior written consent, which consent shall not be unreasonably withheld. Registrar will pay any and all costs, damages, and expenses, including, but not limited to, reasonable attorneys' fees and costs awarded against or otherwise incurred by Afilias in connection with or arising from any such indemnifiable claim, suit, action or proceeding.

**6.2. Representation and Warranty.** Registrar represents and warrants that: (i) it is a corporation duly incorporated, validly existing and in good standing under
the law of the jurisdiction of its formation (ii) it has all requisite corporate power and authority to execute, deliver and perform its obligations under this Agreement, (iii) the execution, performance and delivery of this Agreement has been duly authorized by Registrar, (iv) it is, and will continue to be accredited by ICANN or its successor and (v) no further approval, authorization or consent of any governmental or regulatory authority is required to be obtained or made by Registrar in order for it to enter into and perform its obligations under this Agreement.

6.3. Limitation of Liability. IN NO EVENT SHALL EITHER PARTY BE LIABLE FOR ANY SPECIAL, INDIRECT, INCIDENTAL, PUNITIVE, EXEMPLARY OR CONSEQUENTIAL DAMAGES, OR ANY DAMAGES RESULTING FROM LOSS OF PROFITS OR BUSINESS INTERRUPTION, ARISING OUT OF OR IN CONNECTION WITH THIS AGREEMENT, EVEN IF THE OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. IN NO EVENT SHALL THE MAXIMUM AGGREGATE LIABILITY OF AFILIAS AND ITS SUBCONTRACTORS EXCEED THE LESSER OF (i) THE TOTAL AMOUNT PAID TO AFILIAS UNDER THE TERMS OF THIS AGREEMENT FOR THE IMMEDIATELY PRECEDING 12 MONTH PERIOD, OR (ii) $100,000 USD.

6.4. Disclaimer of Warranties. THE REGISTRAR TOOL KIT AND ALL OTHER ITEMS PROVIDED BY AFILIAS HEREUNDER ARE PROVIDED "AS-IS" AND WITHOUT ANY WARRANTY OF ANY KIND. AFILIAS EXPRESSLY DISCLAIMS ALL WARRANTIES AND/OR CONDITIONS, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES AND CONDITIONS OF MERCHANTABILITY OR SATISFACTORY QUALITY AND FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT OF THIRD PARTY RIGHTS. AFILIAS DOES NOT WARRANT THAT THE FUNCTIONS CONTAINED IN THE REGISTRAR TOOL KIT WILL MEET REGISTRAR'S REQUIREMENTS, OR THAT THE OPERATION OF THE REGISTRAR TOOL KIT WILL BE UNINTERRUPTED OR ERROR-FREE, OR THAT DEFECTS IN THE REGISTRAR TOOL KIT WILL BE CORRECTED. FURTHERMORE, AFILIAS DOES NOT WARRANT NOR MAKE ANY REPRESENTATIONS REGARDING THE USE OR THE RESULTS OF THE REGISTRAR TOOL KIT OR RELATED DOCUMENTATION IN TERMS OF THEIR CORRECTNESS, ACCURACY, RELIABILITY, OR OTHERWISE. SHOULD THE REGISTRAR TOOL KIT PROVE DEFECTIVE, REGISTRAR ASSUMES THE ENTIRE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION OF REGISTRAR'S OWN SYSTEMS AND SOFTWARE.

6.5. Reservation of Rights. Afilias reserves the right to deny, cancel or transfer any registration or transaction, or place any domain name(s) on registry lock, hold or similar status, that it deems necessary, in its discretion; (1) to protect the integrity and stability of the registry; (2) to comply with any applicable laws, government rules or requirements, requests of law enforcement, or any dispute resolution process; (3) to avoid any liability, civil or criminal, on the part of Afilias, as well as its affiliates, subsidiaries, officers, directors, and employees; (4) for
violations of this Agreement, including, without limitation, the exhibits hereto; or
(5) to correct mistakes made by Afilias or any Registrar in connection with a
domain name registration. Afilias also reserves the right to place a domain name
on registry hold, registry lock, or similar status during resolution of a dispute.

7. INSURANCE

7.1. Insurance Requirements. Registrar shall acquire, on or before the
Effective Date, at least US $1,000,000 in comprehensive general liability
insurance from a reputable insurance provider with a rating equivalent to an A.M.
Best rating of “A” or better and shall maintain insurance meeting these
requirements throughout the Term of this Agreement. Registrar shall provide a
copy of the insurance policy to Registry Operator, current as of the Effective
Date, upon execution of this Agreement, and from time to time thereafter upon
Registry Operator’s reasonable request. Such insurance shall entitle Afilias to
seek compensation under such policy on behalf of Afilias and its subcontractors,
and the directors, officers, employees, representatives, agents, and affiliates of
each of them, in respect of all costs and damages (including reasonable attorney
fees) which any of them may suffer by reason of Registrar’s failure to meet its
indemnification obligations under this Agreement.

8. DISPUTE RESOLUTION

8.1. Dispute Resolution. Disputes arising under or in connection with this
Agreement, including requests for specific performance, shall be resolved
through binding arbitration conducted as provided in this Section pursuant to the
rules of the International Court of Arbitration of the International Chamber of
Commerce ("ICC"). The arbitration shall be conducted in the English language
and shall occur in Dublin, Ireland. There shall be three arbitrators: each party
shall choose one arbitrator and, if the two arbitrators are not able to agree on a
third arbitrator, the third shall be chosen by the ICC. The parties shall bear the
costs of the arbitration in equal shares, subject to the right of the arbitrators to
reallocate the costs in their award as provided in the ICC rules. The parties shall
bear their own attorneys’ fees in connection with the arbitration, and the
arbitrators may not reallocate the attorneys’ fees in conjunction with their award.
The arbitrators shall render their decision within ninety days of the initiation of
arbitration. Any litigation brought to enforce an arbitration award shall be brought
in the courts in the Republic of Ireland; however, the parties shall 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 a party
during the pendency of an arbitration, each party shall have the right to seek
temporary or preliminary injunctive relief from the arbitration panel or a court
located in the courts in the Republic of Ireland, which shall not be a waiver of this
arbitration agreement.
9. TERM AND TERMINATION

9.1. Term of the Agreement; Revisions. The Term of this Agreement shall commence on the Effective Date and, unless earlier terminated in accordance with the provisions of this Agreement, shall expire on the last day of the calendar month which is two (2) years following the Effective Date. This Agreement shall automatically renew for additional successive two (2) year terms unless Registrar provides notice of termination to Registry Operator at least thirty (30) days prior to the end of the initial or any renewal term. In the event that revisions to Afilias’ approved form of Registry-Registrar Agreement are approved or adopted by ICANN, Registrar will either execute an amendment substituting the revised agreement in place of this Agreement or, at its option exercised within fifteen (15) days after receiving notice of such amendment, terminate this Agreement immediately by giving written notice to Afilias. In the event that Afilias does not receive such executed amendment or notice of termination from Registrar within such fifteen day period, Registrar shall be deemed to have terminated this Agreement effective immediately.

9.2. Termination. This Agreement may be terminated as follows:

9.2.1. Termination For Cause. In the event that either party materially breaches any of its obligations under this Agreement and such breach is not substantially cured within thirty calendar days after written notice thereof is given by the other party, then the non-breaching party may, by giving written notice thereof to the other party, terminate this Agreement as of the date specified in such notice of termination.

9.2.2. Termination at Option of Registrar. Registrar may terminate this Agreement at any time by giving Afilias thirty days notice of termination.

9.2.3. Termination Upon Loss of Registrar's Accreditation. This Agreement shall terminate in the event Registrar's accreditation by ICANN is terminated or expires without renewal.

9.2.4. Termination in the Event of Termination of Registry Agreement. This Agreement shall terminate in the event that Afilias' Registry Agreement with ICANN is terminated or expires without entry of a subsequent Registry Agreement with ICANN and this Agreement is not assigned under Subsection 10.1.1.

9.2.5. Termination in the Event of Insolvency or Bankruptcy. Either party may terminate this Agreement if the other party is adjudged insolvent or bankrupt, or if proceedings are instituted by or against a party seeking relief, reorganization or arrangement under any laws relating to insolvency, or seeking any assignment for the benefit of creditors, or seeking the appointment of a receiver, liquidator or trustee of a party's property or assets or the liquidation, dissolution or winding up of a party's business.

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9.3. **Effect of Termination.** Upon the expiration or termination of this Agreement for any reason:

9.3.1. Afilias will complete the registration of all domain names processed by Registrar prior to the effective date of such expiration or termination, provided that Registrar's payments to Afilias for Fees are current and timely.

9.3.2. Registrar shall immediately transfer its sponsorship of Registered Names to another ICANN-accredited registrar in compliance with any procedures established or approved by ICANN.

9.3.3. All Confidential Information of the Disclosing Party in the possession of the Receiving Party shall be immediately returned to the Disclosing Party.

9.3.4. In the event of termination in accordance with the provisions of Subsections 9.1, 9.2.1, 9.2.2, 9.2.3 or 9.2.5, Afilias reserves the right to immediately contact any and all Registered Name Holders to facilitate the orderly and stable transition of Registered Name Holders to other ICANN-accredited registrars.

9.3.5. All fees owing to Afilias shall become immediately due and payable.

9.4. **Survival.** In the event of termination of this Agreement, the following shall survive: (i) Subsections 2.6, 3.6, 5.1, 5.2, 6.1, 6.3, 6.4, 8.1, 9.4, 10.2, 10.3, 10.4, 10.6, 10.7 and 10.8 and (ii) the Registered Name Holder's indemnification obligation under Subsection 3.4. Neither party shall be liable to the other for damages of any sort resulting solely from terminating this Agreement in accordance with its terms.

10. **MISCELLANEOUS**

10.1. **Assignments.**

10.1.1. Assignment to Successor Registry Operator. In the event the Afilias' Registry Agreement is terminated or expires without entry by Afilias and ICANN of a subsequent registry agreement, Afilias’ rights under this Agreement may be assigned to a company with a subsequent registry agreement covering the Registry TLD upon ICANN's giving Registrar written notice within sixty days of the termination or expiration, provided that the subsequent Afilias assumes the duties of Afilias under this Agreement.

10.1.2. Assignment in Connection with Assignment of Agreement with ICANN. In the event that Afilias' Registry Agreement with ICANN for the Registry TLD is validly assigned, Afilias’ rights under this Agreement shall be automatically assigned to the assignee of the Registry Agreement, provided that the assignee assumes the duties of Afilias under this Agreement. In the event that Registrar's accreditation agreement with ICANN for the Registry TLD is validly assigned, Registrar's rights under this Agreement shall be automatically assigned to the
assignee of the accreditation agreement, provided that the subsequent registrar assumes the duties of Registrar under this Agreement.

10.1.3. Other Assignments. Except as otherwise expressly provided in this Agreement, the provisions of this Agreement shall inure to the benefit of and be binding upon, the successors and permitted assigns of the parties. Neither party shall assign or transfer its rights or obligations under this Agreement without the prior written consent of the other party, which shall not be unreasonably withheld.

10.2. Notices. Any notice or other communication required or permitted to be delivered to any party under this Agreement shall be in writing and shall be deemed properly delivered, given and received when delivered (by hand, by registered mail, by courier or express delivery service, by e-mail or by telecopier during business hours) to the address or telecopier number set forth beneath the name of such party below, unless such party has given a notice of a change of address in writing:

If to Registrar:

with copy to:

If to Afilias:

Afilias Limited
Office 110, 52 Broomhill Road
Tallaught
Dublin 24, Ireland
Attention: President

phone: +353.1.431.0511
fax: +353.1.633.5488

with a copy to:

Afilias Limited
c/o Afilias USA, Inc.
300 Welsh Road
Building 3, Suite 105
Horsham, PA 19044
USA
Attention: General Counsel

phone: +1.215.706.5700
fax: +1.215.706.5701

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10.3. Third-Party Beneficiaries. The parties expressly agree that ICANN is an intended third-party beneficiary of this Agreement. Otherwise, this Agreement shall not be construed to create any obligation by either party to any non-party to this Agreement, including any holder of a Registered Name. Registrar expressly acknowledges that, notwithstanding anything in this Agreement to the contrary, it is not an intended third-party beneficiary of the Registry Agreement.

10.4. Relationship of the Parties. Nothing in this Agreement shall be construed as creating an employer-employee or agency relationship, a partnership or a joint venture between the parties.

10.5. Force Majeure. Neither party shall be liable to the other for any loss or damage resulting from any cause beyond its reasonable control (a "Force Majeure Event") including, but not limited to, insurrection or civil disorder, war or military operations, national or local emergency, acts or omissions of government or other competent authority, compliance with any statutory obligation or executive order, industrial disputes of any kind (whether or not involving either party's employees), fire, lightning, explosion, flood, subsidence, weather of exceptional severity, and acts or omissions of persons for whom neither party is responsible. Upon occurrence of a Force Majeure Event and to the extent such occurrence interferes with either party's performance of this Agreement, such party shall be excused from performance of its obligations (other than payment obligations) during the first six months of such interference, provided that such party uses best efforts to avoid or remove such causes of nonperformance as soon as possible.

10.6. Amendments. No amendment, supplement, or modification of this Agreement or any provision hereof shall be binding unless executed in writing by both parties.

10.7. Waivers. No failure on the part of either party to exercise any power, right, privilege or remedy under this Agreement, and no delay on the part of either party in exercising any power, right, privilege or remedy under this Agreement, shall operate as a waiver of such power, right, privilege or remedy; and no single or partial exercise or waiver of any such power, right, privilege or remedy shall preclude any other or further exercise thereof or of any other power, right, privilege or remedy. Neither party shall be deemed to have waived any claim arising out of this Agreement, or any power, right, privilege or remedy under this Agreement, unless the waiver of such claim, power, right, privilege or remedy is expressly set forth in a written instrument duly executed and delivered on behalf of such party; and any such waiver shall not be applicable or have any effect except in the specific instance in which it is given.

10.8. Entire Agreement. This Agreement (including its exhibits, which form a part of it) constitutes the entire agreement between the parties concerning the subject matter of this Agreement and supersedes any prior agreements, representations, statements, negotiations, understandings, proposals or
undertakings, oral or written, with respect to the subject matter expressly set forth herein.

10.9. Counterparts. All executed copies of this Agreement are duplicate originals, equally admissible as evidence. This Agreement may be executed in counterparts, and such counterparts taken together shall be deemed the Agreement. A facsimile copy of a signature of a party hereto shall have the same effect and validity as an original signature.

IN WITNESS WHEREOF, the parties hereto have executed this Agreement as of the date set forth in the first paragraph hereof.

Afilias Limited

[Registrar]

By:
Name:  
Title:  

By:
Name:  
Title:
Exhibit A
REGISTRATION FEES

1. Domain-Name Initial Registration Fee

Afilias will charge a fee per annual increment of an initial registration of a
Registered Name (the "Initial Registration Fee"). The Initial Registration Fee shall
be paid in full by Registrar sponsoring the domain name at the time of
registration. The current Initial Registration Fee as of the Effective Date is
US$5.75.

2. Domain-Name Renewal Fee

Afilias will charge a fee per annual increment of a renewal of a registration of a
Registered Name (the "Renewal Fee"). The Renewal Fee shall be paid in full by
Registrar sponsoring the domain name at the time of renewal. The current
Renewal Fee as of the Effective Date is US$5.75.

3. Fees for Transfers of Sponsorship of Domain-Name Registrations

Where the sponsorship of a domain name is transferred from one ICANN-
Accredited Registrar to another ICANN-Accredited Registrar, Afilias will require
the registrar receiving the sponsorship to request a renewal of one year for the
name. In connection with that extension, Afilias will charge a Renewal Fee for the
requested extension as provided in item 2 above. The transfer shall result in an
extension according to the renewal request, subject to a ten-year maximum on
the future term of any domain-name registration. The Renewal Fee shall be paid
in full at the time of the transfer by the ICANN-Accredited Registrar receiving
sponsorship of the domain name.

4. Bulk Transfers. For a bulk transfer approved by ICANN under Part B of the
Transfer Policy, Registrar shall pay Afilias US $0 (for transfer of 50,000 names or
fewer) or US $50,000 (for transfers of more than 50,000 names).

5. Restore Fee. Registrar shall pay Afilias a fee (the “Restore Fee”) per
Registered Name restored during the Redemption Grace Period; provided that
Afilias reserves the right, in its sole discretion, to lower such fee based on
extenuating circumstances. The current Restore Fee as of the Effective Date is
US$40 per Registered Name Restored.

Afilias reserves the right to increase the Fees set forth above prospectively upon
six months advance notice to Registrar.
The Registry Agreement specifies a “Process for Consideration of Proposed Registry Services.” The following services are specifically identified as having been approved by ICANN prior to the effective date of the Registry Agreement:

• Internationalized Domain Names, in accordance with the Letter to Ram Mohan from Paul Twomey dated 19 August 2003; and

• Redemption Grace Period.
.INFO Agreement Appendix 10

Service Level Agreement

1. Definitions. Capitalized terms used herein and not otherwise defined shall have the definitions ascribed to them in Section 6 of Appendix 7 to the Registry Agreement.

2. Credits.

2.1 C1–If availability of C1 class services does not meet C1 Service Levels in any given calendar month, Registry Operator will credit Registrar according to this calculation;

\[ C = (amv/t) \times sle \]

Where:

- \( C \) = number of Transactions to be credited to Registrar for the calendar month.
- \( amv \) = average month's volume (previous four calendar months total Transaction volume/4 months).
- \( t \) = time period, number of minutes per month averaged over number of days in previous four calendar months (for example, if previous four months had 30, 31, 30, 31 days, these time period = \((30 + 31 + 30 + 31)/4 \times 24 \text{ hours} \times 60 \text{ minutes} = 43,920 \text{ minutes}\)).
- \( sle \) = service level exception. The number of Unavailable minutes minus the number of SLA acceptable Unavailable minutes.

Example:

Registry Operator records 15 minutes of service level exception beyond the time periods contemplated by the SLA. The current amv is 30,000 total names registered and time period was 43,920 minutes. As such, Registry Operator will credit Registrar for 10.25 Transactions at the then Current Pricing Level.
2.2 C2—If availability of C2 class services does not meet C2 Service Levels in any given calendar month, Registry Operator will credit Registrar according to this calculation;

\[ C = (amv/t) \times sle \times 60\% \]

Where:

- \( C \) = number of Transactions to be credited to Registrar for the calendar month.
- \( amv \) = average month's volume (previous four calendar months total Transaction volume/4 months).
- \( t \) = time period, number of minutes per month averaged over number of days in previous four calendar months (see example in Subsection 2.1).
- \( sle \) = service level exception. The number of Unavailable minutes minus the number of SLA acceptable Unavailable minutes.
- 60% = priority adjustment.

Example:

Registry Operator records 15 minutes of service level exception beyond the time periods contemplated by the SLA. The current amv is 30,000 total names registered and time period was 43,920 minutes. As such, Registry Operator will credit Registrar for 6.15 Transactions at the then Current Pricing Level.

2.3 C3—If availability of C3 services does not meet C3 Service Levels in any given calendar month, Registry Operator will credit Registrar according to this calculation;

\[ C = (amv/t) \times sle \times 30\% \]

Where:

- \( C \) = number of Transactions to be credited to Registrar for the calendar month.
- \( amv \) = average month's volume (previous four calendar months total Transaction volume/4 months).
- \( t \) = time period, number of minutes per month averaged over number of days in previous four calendar months (see example in Subsection 2.1).
\( sle = \) service level exception. The number of Unavailable minutes minus the number of SLA acceptable Unavailable minutes.

\( 30\% = \) priority adjustment.

Example:

Registry Operator records 15 minutes of service level exception beyond the time periods contemplated by the SLA. The current \( amv \) is 30,000 total names registered and the time period was 43,920 minutes. As such, Registry Operator will credit Registrar for 3.07 Transactions at the then Current Pricing Level.

### 2.4 Degraded Performance

If the performance of the transactive systems (OpenXRS API, Whois) does not meet the performance expectations outlined in Service Levels over the calendar month in question, Registry Operator will credit Registrar according to this calculation:

\[
C = (amv/t) * sle * 7.5\% 
\]

Where:

\( C = \) number of Transactions to be credited to Registrar for the calendar month.

\( amv = \) average month's volume (previous four calendar months total Transaction volume/4 months).

\( t = \) time period, number of minutes per month averaged over number of days in previous four calendar months (see example in Subsection 2.1).

\( sle = \) service level exception. The number of Degraded Performance minutes.

\( 7.5\% = \) priority adjustment.

Example:

Registry Operator records 15 minutes of service level exception beyond the time periods contemplated by the SLA. The current \( amv \) is 30,000 total names registered and time period was 43,920 minutes. As such, Registry Operator will credit Registrar for 0.77 Transactions at the then Current Pricing Level.
2.5 Receipt of Credits—In order for Registrars to claim credits, the following procedure must be followed:

2.5.1 Issue a Request for SLA Credits.

The claiming Registrar must make a request for credits to Registry Operator within 7 days of the SLA violation claiming that it experienced downtime or degraded performance in excess of what is outlined in Appendix 7.

2.5.2 Provide documentation to indicate SLA violation.

A Registrar must provide documentation in the form of either:

2.5.2.1 Registrar initiated notification(s) to the Registry Operator of a down time that exceeded SLA limits, including the trouble ticket number issued by the Registry Operator. The closing ticket(s) should be included as well in order to determine the total downtime (unless the closing ticket includes this); or

2.5.2.2 Notification from the Registry Operator (with trouble ticket number attached) of down time or degraded performance. The closing ticket(s) should be included as well in order to determine the total downtime (unless the closing ticket includes this).

2.5.2.3 Confirmation of SLA violation:

Upon the request of the Registry Operator, the claiming Registrar must provide reasonably available server and/or application logs demonstrating a violation of the SLA limits. The Registrar is expected to demonstrate response times from point of entry into the registry server complex to point of exit from the registry server complex. This will exclude any time taken by establishing a TCP connection, the SSL handshake and EPP/RRP logon to the registry.

2.5.3 Justification of Volume.

In order to calculate credits, the Registrar should include volume figures for the past four (4) calendar months, and a certification that these numbers accurately reflect the LEAST registration activity that would be covered during the affected SLA outage.

2.5.4 Receipt of Credit.

When the above steps have been completed to the Registry Operator's satisfaction, the Registry Operator shall provide notification of the number of credits that will be entered in the Registrar's account balance and that can be used immediately toward registrations in the Registry. Under no circumstances
shall credits be applied when the availability problems are caused by network providers and/or the systems of individual Registrars.

3. Responsibilities of the Parties.

3.1 The affected ICANN-Accredited Registrar shall assist Registry Operator by reporting each occurrence of alleged Service Unavailability to Registry Operator customer service help desk in the manner required by Registry Operator (i.e., e-mail, fax or telephone) in order for an occurrence to be treated as Service Unavailability for purposes of this SLA. Registry Operator will treat all system performance problems in order of decreasing severity and fix them within a commercially reasonable period of time. Incidents flagged by the measurement system will also qualify as ticketed events and will be classed as Unavailability.

3.2 Registry Operator will perform monitoring from internally located systems as a means to verify that the conditions of the SLA are being met.

3.3 The SLA will be reconciled on a quarterly basis.

3.4 The Registrar will have the option to choose which of the credit calculations described in Section 2 of the SLA will apply where service level credit overlaps occur. There can be several types of credits over the same calendar month, but the Registrar can only claim one type of refund for each event.

3.5 Registry Operator will not attempt to discern what discount levels were in effect at the specific time of a service level exception, but rather use the discount level in effect at the time the credits issue. All service level credits will be paid out using the appropriate discounts and rate levels reflected by the then current rate schedule.

3.6 The Registrar may, under reasonable terms and conditions, audit the reconciliation records for the purposes of verifying service level performance. The frequency of these audits will be no more than once every six-month period during the term of the Registry-Registrar Agreement between Registry Operator and the Registrar.

3.7 Incident trouble tickets must be opened within a commercially reasonable period of time.

3.8 In the event that Service Unavailability affects all Registrars, the Registry Operator shall use commercially reasonable efforts to open a blanket trouble ticket and immediately notifying all Registrars of the trouble ticket number and details.

3.9 Both Registrar and the Registry Operator agree to use reasonable commercial good faith efforts to establish the cause of any alleged Service
Unavailability. If it is mutually determined to be a Registry Operator problem, the issue will become part of the Unplanned Outage Time.

3.10 Registrars must inform the Registry Operator in writing or by opening a ticket any time their estimated volume of transactions (excluding check domain commands), will exceed their previous calendar month's volume by more than 25%. In the event that a Registrar fails to inform Registry Operator of a forecasted increase of volume of transactions of 25% or more and the Registrar's volume increases 25% or more over the previous month, and should the total volume of transactions added by the Registry Operator for all Registrars for that month exceed the Registry Operator's actual volume of the previous month's transactions by more than 20%, then the Registrar(s) failing to give such notice will not be eligible for any SLA Credits in that Monthly Timeframe. Registrars shall provide their forecasts at least 30 days prior to the first day of the next calendar month.

3.11 The Registry Operator will notify Registrar of Planned Outages outside the Planned Outage Period at least 7 days in advance of such Planned Outage. In addition, Registry Operator will use reasonable commercial good faith efforts to maintain an accurate 30 day advance schedule of possible upcoming Planned Outages.

3.12 The Registry Operator will update the Whois Service on a near real-time basis. During normal operation, all registration and information updates sent from a Registrar to the Registry are stored in the primary database set (database A). The information in database A is replicated to a backup database set at regular intervals, normally within five (5) minutes. The Whois Service uses replicated databases as its source of information. The time lag in the Whois information update is determined by the database replication interval. The Registry Operator will notify Registrars in advance when changes to the Whois Service update schedule occur.

3.13 The Registry Operator will initiate the addition, deletion or other modification of DNS zone information to its DNS service within 5 minutes after a Transaction. The Registry Operator will notify Registrar in advance when changes to the schedule occur. The Registry Operator will notify Registrars regarding any scheduled maintenance and unavailability of the TLD nameservers.

3.14 The Registry Operator will use commercially reasonable efforts to restore the critical systems of the System within 24 hours in the event of a force majeure and restore full system functionality within 48 hours. Outages due to a force majeure will not be considered Service Unavailability.

3.15 The Registry Operator will provide Service Availability percentages during each Monthly Timeframe as listed in Section 6(A)4.1 – Service Level Matrix of Appendix 7.
4. Miscellaneous.

4.1 This Appendix is not intended to replace any term or condition in the Registry-Registrar Agreement.

4.2 Dispute Resolution will be handled pursuant to the arbitration provisions of the Registry-Registrar Agreement.